

Cover Page

Order ID : P4578

Project ID : Amtrak Sawtooth Bridges 2024

Client : Portal Partners Tri-Venture

Lab Sample Number

P4578-01
P4578-02
P4578-03
P4578-04
P4578-05
P4578-06
P4578-07
P4578-08
P4578-09

Client Sample Number

WB-305-SW
WB-305-SW-1
WB-305-TOP
WB-305-TOP-1
WB-305-BOT
WB-305-BOT
WB-305-BOT-1
WB-305-BOT-1
TB-10252024

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: 11/7/2024

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 #: P4578

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: 11/07/2024

LAB CHRONICLE

OrderID:	P4578	OrderDate:	10/25/2024 3:58:00 PM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	Location:	K63,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4578-01	WB-305-SW	Water	SVOC-TCL BNA -20	8270E	10/25/24	10/30/24	10/31/24	10/25/24
P4578-01RE	WB-305-SWRE	Water	SVOC-TCL BNA -20	8270E	10/25/24	10/30/24	11/01/24	10/25/24
P4578-02	WB-305-SW-1	Water	SVOC-TCL BNA -20	8270E	10/25/24	10/30/24	10/31/24	10/25/24
P4578-02RE	WB-305-SW-1RE	Water	SVOC-TCL BNA -20	8270E	10/25/24	10/30/24	11/01/24	10/25/24
P4578-03	WB-305-TOP	SOIL	SVOC-TCL BNA -20	8270E	10/25/24	10/28/24	10/30/24	10/25/24
P4578-04	WB-305-TOP-1	SOIL	SVOC-TCL BNA -20	8270E	10/25/24	10/28/24	10/29/24	10/25/24
P4578-05	WB-305-BOT	SOIL	SVOC-TCL BNA -20	8270E	10/25/24	10/28/24	10/29/24	10/25/24
P4578-06	WB-305-BOT	TCLP	TCLP BNA	8270E	10/25/24	10/26/24	10/28/24	10/25/24
P4578-07	WB-305-BOT-1	SOIL	SVOC-TCL BNA -20	8270E	10/25/24	10/28/24	10/29/24	10/25/24
P4578-08	WB-305-BOT-1	TCLP	TCLP BNA	8270E	10/25/24	10/26/24	10/28/24	10/25/24

Hit Summary Sheet SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : WB-305-SW								
P4578-01	WB-305-SW	WATER	9-Tricosene, (Z)-	*	5.800	J 0	0	ug/L
P4578-01	WB-305-SW	WATER	Benzophenone	*	7.300	J 0	0	ug/L
P4578-01	WB-305-SW	WATER	Butane, 2-methoxy-2-methyl-	*	87.000	J 0	0	ug/L
P4578-01	WB-305-SW	WATER	n-Hexadecanoic acid	*	9.000	J 0	0	ug/L
P4578-01	WB-305-SW	WATER	Octadecanoic acid	*	3.600	J 0	0	ug/L
Total Tics :				112.70				
Total Concentration:				112.70				
Client ID : WB-305-SW-1								
P4578-02	WB-305-SW-1	WATER	Benzophenone	*	7.300	J 0	0	ug/L
P4578-02	WB-305-SW-1	WATER	Butane, 2-methoxy-2-methyl-	*	110.000	J 0	0	ug/L
Total Tics :				117.30				
Total Concentration:				117.30				
Client ID : WB-305-TOP								
P4578-03	WB-305-TOP	SOIL	Naphthalene		210.000	J 150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	2-Methylnaphthalene		190.000	J 150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Acenaphthene		190.000	J 150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Fluorene		160.000	J 160	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Phenanthrene		640.000	160	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Anthracene		270.000	J 160	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Fluoranthene		610.000	150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Pyrene		850.000	150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo(a)anthracene		550.000	150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Chrysene		580.000	150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo(b)fluoranthene		400.000	150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo(k)fluoranthene		160.000	J 150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo(a)pyrene		530.000	170	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Indeno(1,2,3-cd)pyrene		180.000	J 140	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo(g,h,i)perylene		230.000	J 150	320	ug/Kg
Total Svoc :				5,750.00				
P4578-03	WB-305-TOP	SOIL	11H-Benzo[a]fluorene	*	220.000	J 0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	11H-Benzo[b]fluorene	*	320.000	J 0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Anthracene, 2-methyl-	*	230.000	J 0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzene, 2-ethenyl-1,4-dimethyl-	*	240.000	J 0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	5-Bromo-2-thiophenecarboxaldeh	*	670.000	J 0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo[e]pyrene	*	250.000	J 0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzophenone	*	600.000	J 0	0	ug/Kg

Hit Summary Sheet SW-846

SDG No.: P4578
Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4578-03	WB-305-TOP	SOIL	Butane, 2-methoxy-2-methyl-	* 3,200.000	JB	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Naphthalene, 2,3-dimethyl-	* 230.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	n-Hexadecanoic acid	* 540.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	o-Cymene	* 260.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Pyrene, 1-methyl-	* 170.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Silane, trichlorooctadecyl-	* 280.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Sulfurous acid, 2-ethylhexyl hexyl	* 180.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	unknown12.510	* 180.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	unknown17.380	* 420.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	unknown18.345	* 270.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Hexadecane	* 230.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Phenanthrene, 2,5-dimethyl-	* 200.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Phenanthrene, 2-methyl-	* 190.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	1-Methylnaphthalene	* 210.000	J	150	320	ug/Kg
Total Tics :				9,090.00				
Total Concentration:				14,840.00				
Client ID :	WB-305-TOP-1							
P4578-04	WB-305-TOP-1	SOIL	Phenanthrene	200.000	J	140	290	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Fluoranthene	180.000	J	140	290	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Pyrene	190.000	J	140	290	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Benzo(a)anthracene	140.000	J	140	290	ug/Kg
Total Svoc :				710.00				
P4578-04	WB-305-TOP-1	SOIL	Benzaldehyde, 3,5-dichloro-2-hyd	* 200.000	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Benzo[e]pyrene	* 140.000	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Benzophenone	* 540.000	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Butane, 2-methoxy-2-methyl-	* 2,600.000	JB	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Tricosyl trifluoroacetate	* 180.000	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	n-Hexadecanoic acid	* 430.000	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Pentanedioic acid, dimethyl ester	* 120.000	J	0	0	ug/Kg
Total Tics :				4,210.00				
Total Concentration:				4,920.00				
Client ID :	WB-305-BOT							
P4578-05	WB-305-BOT	SOIL	Benzophenone	* 540.000	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	Butane, 2-methoxy-2-methyl-	* 2,200.000	JB	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	Heptafluorobutyric acid, hexadecy	* 240.000	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	n-Hexadecanoic acid	* 340.000	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	Pentanedioic acid, dimethyl ester	* 83.200	J	0	0	ug/Kg
Total Tics :				3,403.20				
Total Concentration:				3,403.20				

Hit Summary Sheet SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WB-305-BOT-1								
P4578-07	WB-305-BOT-1	SOIL	Benzophenone	*	390.000	J 0	0	ug/Kg
P4578-07	WB-305-BOT-1	SOIL	Butane, 2-methoxy-2-methyl-	*	1,900.000	JB 0	0	ug/Kg
P4578-07	WB-305-BOT-1	SOIL	n-Hexadecanoic acid	*	280.000	J 0	0	ug/Kg
P4578-07	WB-305-BOT-1	SOIL	Octacosyl trifluoroacetate	*	220.000	J 0	0	ug/Kg
P4578-07	WB-305-BOT-1	SOIL	Pentanedioic acid, dimethyl ester	*	78.200	J 0	0	ug/Kg
Total Tics :					2,868.20			
Total Concentration:					2,868.20			



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P4561-05MS	BP-F-18MS	2-Fluorophenol	150	87.2	58		30 (18)	130 (112)
		Phenol-d6	150	90.3	60		30 (15)	130 (107)
		Nitrobenzene-d5	100	66.8	67		30 (18)	130 (107)
		2-Fluorobiphenyl	100	65.7	66		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	104	70		30 (10)	130 (116)
		Terphenyl-d14	100	66.3	66		30 (10)	130 (105)
P4561-05MSD	BP-F-18MSD	2-Fluorophenol	150	84.4	56		30 (18)	130 (112)
		Phenol-d6	150	87.1	58		30 (15)	130 (107)
		Nitrobenzene-d5	100	66.6	67		30 (18)	130 (107)
		2-Fluorobiphenyl	100	64.8	65		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	103	69		30 (10)	130 (116)
		Terphenyl-d14	100	64.7	65		30 (10)	130 (105)
P4578-03	WB-305-TOP	2-Fluorophenol	150	80.3	54		30 (18)	130 (112)
		Phenol-d6	150	78.7	52		30 (15)	130 (107)
		Nitrobenzene-d5	100	62.2	62		30 (18)	130 (107)
		2-Fluorobiphenyl	100	58.2	58		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	78.7	52		30 (10)	130 (116)
		Terphenyl-d14	100	60.6	61		30 (10)	130 (105)
P4578-04	WB-305-TOP-1	2-Fluorophenol	150	78.6	52		30 (18)	130 (112)
		Phenol-d6	150	77.4	52		30 (15)	130 (107)
		Nitrobenzene-d5	100	58.7	59		30 (18)	130 (107)
		2-Fluorobiphenyl	100	59.3	59		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	63.6	42		30 (10)	130 (116)
		Terphenyl-d14	100	42.4	42		30 (10)	130 (105)
P4578-05	WB-305-BOT	2-Fluorophenol	150	89.9	60		30 (18)	130 (112)
		Phenol-d6	150	88.8	59		30 (15)	130 (107)
		Nitrobenzene-d5	100	66.2	66		30 (18)	130 (107)
		2-Fluorobiphenyl	100	66.1	66		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	102	68		30 (10)	130 (116)
		Terphenyl-d14	100	70.9	71		30 (10)	130 (105)
P4578-07	WB-305-BOT-1	2-Fluorophenol	150	82.9	55		30 (18)	130 (112)
		Phenol-d6	150	82.6	55		30 (15)	130 (107)
		Nitrobenzene-d5	100	60.0	60		30 (18)	130 (107)
		2-Fluorobiphenyl	100	58.1	58		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	93.8	63		30 (10)	130 (116)
		Terphenyl-d14	100	67.9	68		30 (10)	130 (105)
PB164461BL	PB164461BL	2-Fluorophenol	150	119	79		30 (18)	130 (112)
		Phenol-d6	150	116	77		30 (15)	130 (107)
		Nitrobenzene-d5	100	89.7	90		30 (18)	130 (107)
		2-Fluorobiphenyl	100	86.0	86		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	135	90		30 (10)	130 (116)
		Terphenyl-d14	100	81.7	82		30 (10)	130 (105)
PB164461BS	PB164461BS	2-Fluorophenol	150	122	81		30 (18)	130 (112)
		Phenol-d6	150	119	80		30 (15)	130 (107)
		Nitrobenzene-d5	100	92.1	92		30 (18)	130 (107)
		2-Fluorobiphenyl	100	87.6	88		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	144	96		30 (10)	130 (116)
		Terphenyl-d14	100	100	100		30 (10)	130 (105)

Surrogate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P4578-01	WB-305-SW	2-Fluorophenol	150	13.7	9	*	15 (10)	110 (139)
		Phenol-d6	150	12.7	8	*	15 (10)	110 (134)
		Nitrobenzene-d5	100	17.0	17	*	30 (49)	130 (133)
		2-Fluorobiphenyl	100	18.7	19	*	30 (52)	130 (132)
		2,4,6-Tribromophenol	150	30.3	20		15 (44)	110 (137)
		Terphenyl-d14	100	23.4	23	*	30 (48)	130 (125)
P4578-01RE	WB-305-SWRE	2-Fluorophenol	150	14.1	9	*	15 (10)	110 (139)
		Phenol-d6	150	13.2	9	*	15 (10)	110 (134)
		Nitrobenzene-d5	100	17.3	17	*	30 (49)	130 (133)
		2-Fluorobiphenyl	100	17.1	17	*	30 (52)	130 (132)
		2,4,6-Tribromophenol	150	34.0	23		15 (44)	110 (137)
		Terphenyl-d14	100	23.9	24	*	30 (48)	130 (125)
P4578-02	WB-305-SW-1	2-Fluorophenol	75	22.4	30		15 (10)	110 (139)
		Phenol-d6	75	18.1	24		15 (10)	110 (134)
		Nitrobenzene-d5	50	21.6	43		30 (49)	130 (133)
		2-Fluorobiphenyl	50	22.9	46		30 (52)	130 (132)
		2,4,6-Tribromophenol	75	43.4	58		15 (44)	110 (137)
		Terphenyl-d14	50	26.5	53		30 (48)	130 (125)
P4578-02RE	WB-305-SW-1RE	2-Fluorophenol	150	20.4	14	*	15 (10)	110 (139)
		Phenol-d6	150	17.7	12	*	15 (10)	110 (134)
		Nitrobenzene-d5	100	24.2	24	*	30 (49)	130 (133)
		2-Fluorobiphenyl	100	23.2	23	*	30 (52)	130 (132)
		2,4,6-Tribromophenol	150	41.6	28		15 (44)	110 (137)
		Terphenyl-d14	100	27.1	27	*	30 (48)	130 (125)
PB164533BL	PB164533BL	2-Fluorophenol	150	160	107		15 (10)	110 (139)
		Phenol-d6	150	148	99		15 (10)	110 (134)
		Nitrobenzene-d5	100	98.4	98		30 (49)	130 (133)
		2-Fluorobiphenyl	100	104	104		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	150	100		15 (44)	110 (137)
		Terphenyl-d14	100	89.9	90		30 (48)	130 (125)
PB164533BS	PB164533BS	2-Fluorophenol	150	154	102		15 (10)	110 (139)
		Phenol-d6	150	139	92		15 (10)	110 (134)
		Nitrobenzene-d5	100	91.2	91		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.5	95		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	138	92		15 (44)	110 (137)
		Terphenyl-d14	100	86.8	87		30 (48)	130 (125)
PB164533BSD	PB164533BSD	2-Fluorophenol	150	154	103		15 (10)	110 (139)
		Phenol-d6	150	140	93		15 (10)	110 (134)
		Nitrobenzene-d5	100	92.8	93		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.2	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	139	93		15 (44)	110 (137)
		Terphenyl-d14	100	86.4	86		30 (48)	130 (125)

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4578

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:	P4561-05MS	Client Sample ID:	BP-F-18MS					DataFile:	BF140105.D		
Benzaldehyde	1200	0	290	ug/Kg	24				20 (10)	160 (86)	
Phenol	1200	0	1100	ug/Kg	92				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	1200	0	1100	ug/Kg	92				70 (54)	130 (125)	
2-Chlorophenol	1200	0	1100	ug/Kg	92				70 (79)	130 (107)	
2-Methylphenol	1200	0	1100	ug/Kg	92				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	1200	0	1100	ug/Kg	92				70 (65)	130 (110)	
Acetophenone	1200	0	1000	ug/Kg	83				70 (75)	130 (111)	
3+4-Methylphenols	1200	0	1000	ug/Kg	83				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	1200	0	1100	ug/Kg	92				70 (59)	130 (119)	
Hexachloroethane	1200	0	1100	ug/Kg	92				20 (65)	160 (117)	
Nitrobenzene	1200	0	1000	ug/Kg	83				70 (70)	130 (119)	
Isophorone	1200	0	1100	ug/Kg	92				70 (76)	130 (122)	
2-Nitrophenol	1200	0	1300	ug/Kg	108				70 (54)	130 (145)	
2,4-Dimethylphenol	1200	0	1200	ug/Kg	100				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	1200	0	1100	ug/Kg	92				70 (68)	130 (112)	
2,4-Dichlorophenol	1200	0	1100	ug/Kg	92				70 (72)	130 (118)	
Naphthalene	1200	0	1000	ug/Kg	83				70 (72)	130 (110)	
4-Chloroaniline	1200	0	280	ug/Kg	23	*			70 (10)	130 (91)	
Hexachlorobutadiene	1200	0	1100	ug/Kg	92				70 (66)	130 (114)	
Caprolactam	1200	0	1100	ug/Kg	92				20 (51)	160 (134)	
4-Chloro-3-methylphenol	1200	0	1100	ug/Kg	92				70 (57)	130 (132)	
2-Methylnaphthalene	1200	0	1100	ug/Kg	92				70 (59)	130 (123)	
Hexachlorocyclopentadiene	2300	0	3900	ug/Kg	170	*			20 (10)	160 (175)	
2,4,6-Trichlorophenol	1200	0	1100	ug/Kg	92				70 (72)	130 (117)	
2,4,5-Trichlorophenol	1200	0	1100	ug/Kg	92				70 (72)	130 (117)	
1,1-Biphenyl	1200	0	1100	ug/Kg	92				70 (75)	130 (113)	
2-Chloronaphthalene	1200	0	1100	ug/Kg	92				70 (67)	130 (118)	
2-Nitroaniline	1200	0	1200	ug/Kg	100				70 (69)	130 (127)	
Dimethylphthalate	1200	0	1100	ug/Kg	92				70 (70)	130 (113)	
Acenaphthylene	1200	0	1100	ug/Kg	92				70 (79)	130 (118)	
2,6-Dinitrotoluene	1200	0	1100	ug/Kg	92				70 (70)	130 (125)	
3-Nitroaniline	1200	0	600	ug/Kg	50	*			70 (30)	130 (99)	
Acenaphthene	1200	0	1200	ug/Kg	100				70 (70)	130 (121)	
2,4-Dinitrophenol	2300	0	3100	ug/Kg	135				20 (10)	160 (155)	
4-Nitrophenol	2300	0	2300	ug/Kg	100				20 (45)	160 (133)	
Dibenzofuran	1200	0	1100	ug/Kg	92				70 (72)	130 (110)	
2,4-Dinitrotoluene	1200	0	1200	ug/Kg	100				70 (55)	130 (128)	
Diethylphthalate	1200	0	1100	ug/Kg	92				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	1200	0	1100	ug/Kg	92				70 (71)	130 (108)	
Fluorene	1200	0	1100	ug/Kg	92				70 (68)	130 (116)	
4-Nitroaniline	1200	0	1100	ug/Kg	92				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	1200	0	1700	ug/Kg	142	*			70 (10)	130 (160)	
N-Nitrosodiphenylamine	1200	0	1100	ug/Kg	92				70 (73)	130 (118)	
4-Bromophenyl-phenylether	1200	0	1100	ug/Kg	92				70 (65)	130 (121)	
Hexachlorobenzene	1200	0	1100	ug/Kg	92				70 (67)	130 (118)	
Atrazine	1200	0	1300	ug/Kg	108				70 (79)	130 (127)	

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4578

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	2300	0	2200	ug/Kg	96				20 (47)	160 (128)	
Phenanthrene	1200	0	1100	ug/Kg	92				70 (52)	130 (128)	
Anthracene	1200	0	1100	ug/Kg	92				70 (62)	130 (124)	
Carbazole	1200	0	1000	ug/Kg	83				70 (59)	130 (119)	
Di-n-butylphthalate	1200	0	1100	ug/Kg	92				70 (69)	130 (118)	
Fluoranthene	1200	0	940	ug/Kg	78				70 (44)	130 (125)	
Pyrene	1200	0	1000	ug/Kg	83				70 (26)	130 (142)	
Butylbenzylphthalate	1200	0	1300	ug/Kg	108				70 (64)	130 (126)	
3,3-Dichlorobenzidine	1200	0	690	ug/Kg	58	*			70 (33)	130 (116)	
Benzo(a)anthracene	1200	0	1100	ug/Kg	92				70 (71)	130 (114)	
Chrysene	1200	0	1100	ug/Kg	92				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	1200	0	1500	ug/Kg	125				70 (42)	130 (169)	
Di-n-octyl phthalate	1200	0	1300	ug/Kg	108				70 (23)	130 (175)	
Benzo(b)fluoranthene	1200	0	1000	ug/Kg	83				70 (67)	130 (121)	
Benzo(k)fluoranthene	1200	0	1100	ug/Kg	92				70 (57)	130 (134)	
Benzo(a)pyrene	1200	0	1200	ug/Kg	100				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	1200	0	990	ug/Kg	83				70 (40)	130 (129)	
Dibenz(a,h)anthracene	1200	0	1000	ug/Kg	83				70 (43)	130 (123)	
Benzo(g,h,i)perylene	1200	0	830	ug/Kg	69	*			70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	1200	0	1100	ug/Kg	92				70 (69)	130 (124)	
1,4-Dioxane	1200	0	890	ug/Kg	74				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	1200	0	1100	ug/Kg	92				70 (69)	130 (112)	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4578

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:	P4561-05MSD	Client Sample ID:	BP-F-18MSD					DataFile:	BF140106.D		
Benzaldehyde	1200	0	280	ug/Kg	23		4		20 (10)	160 (86)	30 (20)
Phenol	1200	0	1100	ug/Kg	92		0		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	1200	0	1000	ug/Kg	83		10		70 (54)	130 (125)	30 (20)
2-Chlorophenol	1200	0	1100	ug/Kg	92		0		70 (79)	130 (107)	30 (20)
2-Methylphenol	1200	0	1000	ug/Kg	83		10		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	1200	0	1000	ug/Kg	83		10		70 (65)	130 (110)	30 (20)
Acetophenone	1200	0	1000	ug/Kg	83		0		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	1200	0	1000	ug/Kg	83		0		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	1200	0	1000	ug/Kg	83		10		70 (59)	130 (119)	30 (20)
Hexachloroethane	1200	0	1100	ug/Kg	92		0		20 (65)	160 (117)	30 (20)
Nitrobenzene	1200	0	1000	ug/Kg	83		0		70 (70)	130 (119)	30 (20)
Isophorone	1200	0	1100	ug/Kg	92		0		70 (76)	130 (122)	30 (20)
2-Nitrophenol	1200	0	1300	ug/Kg	108		0		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	1200	0	1200	ug/Kg	100		0		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	1200	0	1100	ug/Kg	92		0		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	1200	0	1100	ug/Kg	92		0		70 (72)	130 (118)	30 (20)
Naphthalene	1200	0	1000	ug/Kg	83		0		70 (72)	130 (110)	30 (20)
4-Chloroaniline	1200	0	270	ug/Kg	23	*	0		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	1200	0	1100	ug/Kg	92		0		70 (66)	130 (114)	30 (20)
Caprolactam	1200	0	1100	ug/Kg	92		0		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	1200	0	1100	ug/Kg	92		0		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	1200	0	1100	ug/Kg	92		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	2300	0	3700	ug/Kg	161	*	5		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	1200	0	1100	ug/Kg	92		0		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	1200	0	1100	ug/Kg	92		0		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	1200	0	1100	ug/Kg	92		0		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	1200	0	1100	ug/Kg	92		0		70 (67)	130 (118)	30 (20)
2-Nitroaniline	1200	0	1200	ug/Kg	100		0		70 (69)	130 (127)	30 (20)
Dimethylphthalate	1200	0	1100	ug/Kg	92		0		70 (70)	130 (113)	30 (20)
Acenaphthylene	1200	0	1100	ug/Kg	92		0		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	1200	0	1100	ug/Kg	92		0		70 (70)	130 (125)	30 (20)
3-Nitroaniline	1200	0	590	ug/Kg	49	*	2		70 (30)	130 (99)	30 (20)
Acenaphthene	1200	0	1200	ug/Kg	100		0		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	2300	0	3100	ug/Kg	135		0		20 (10)	160 (155)	30 (20)
4-Nitrophenol	2300	0	2300	ug/Kg	100		0		20 (45)	160 (133)	30 (20)
Dibenzofuran	1200	0	1100	ug/Kg	92		0		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	1200	0	1200	ug/Kg	100		0		70 (55)	130 (128)	30 (20)
Diethylphthalate	1200	0	1100	ug/Kg	92		0		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	1200	0	1100	ug/Kg	92		0		70 (71)	130 (108)	30 (20)
Fluorene	1200	0	1100	ug/Kg	92		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	1200	0	1100	ug/Kg	92		0		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	1200	0	1700	ug/Kg	142	*	0		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	1200	0	1100	ug/Kg	92		0		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	1200	0	1100	ug/Kg	92		0		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	1200	0	1100	ug/Kg	92		0		70 (67)	130 (118)	30 (20)
Atrazine	1200	0	1300	ug/Kg	108		0		70 (79)	130 (127)	30 (20)

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4578

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	2300	0	2100	ug/Kg	91		5		20 (47)	160 (128)	30 (20)
Phenanthrene	1200	0	1100	ug/Kg	92		0		70 (52)	130 (128)	30 (20)
Anthracene	1200	0	1100	ug/Kg	92		0		70 (62)	130 (124)	30 (20)
Carbazole	1200	0	1000	ug/Kg	83		0		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	1200	0	1100	ug/Kg	92		0		70 (69)	130 (118)	30 (20)
Fluoranthene	1200	0	930	ug/Kg	78		0		70 (44)	130 (125)	30 (20)
Pyrene	1200	0	1000	ug/Kg	83		0		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	1200	0	1300	ug/Kg	108		0		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	1200	0	730	ug/Kg	61	*	5		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	1200	0	1100	ug/Kg	92		0		70 (71)	130 (114)	30 (20)
Chrysene	1200	0	1100	ug/Kg	92		0		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	1200	0	1400	ug/Kg	117		7		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	1200	0	1300	ug/Kg	108		0		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	1200	0	1000	ug/Kg	83		0		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	1200	0	1100	ug/Kg	92		0		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	1200	0	1200	ug/Kg	100		0		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	1200	0	970	ug/Kg	81		2		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	1200	0	970	ug/Kg	81		2		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	1200	0	810	ug/Kg	68	*	1		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	1200	0	1100	ug/Kg	92		0		70 (69)	130 (124)	30 (20)
1,4-Dioxane	1200	0	860	ug/Kg	72		3		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	1200	0	1100	ug/Kg	92		0		70 (69)	130 (112)	30 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BE101427.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB164533BS	Benzaldehyde	50	11.3	ug/L	23				20 (10)	160 (162)	
	Phenol	50	53.6	ug/L	107				20 (66)	160 (118)	
	bis(2-Chloroethyl)ether	50	44.7	ug/L	89				70 (62)	130 (103)	
	2-Chlorophenol	50	51.9	ug/L	104				70 (70)	130 (117)	
	2-Methylphenol	50	49.8	ug/L	100				70 (69)	130 (109)	
	2,2-oxybis(1-Chloropropane)	50	49.2	ug/L	98				70 (65)	130 (100)	
	Acetophenone	50	46.8	ug/L	94				70 (60)	130 (104)	
	3+4-Methylphenols	50	49.1	ug/L	98				20 (67)	160 (106)	
	N-Nitroso-di-n-propylamine	50	47.2	ug/L	94				70 (57)	130 (107)	
	Hexachloroethane	50	47.3	ug/L	95				20 (76)	160 (118)	
	Nitrobenzene	50	45.9	ug/L	92				70 (58)	130 (106)	
	Isophorone	50	46.2	ug/L	92				70 (61)	130 (102)	
	2-Nitrophenol	50	50.7	ug/L	101				70 (70)	130 (115)	
	2,4-Dimethylphenol	50	60.5	ug/L	121				70 (42)	130 (142)	
	bis(2-Chloroethoxy)methane	50	47.8	ug/L	96				70 (58)	130 (109)	
	2,4-Dichlorophenol	50	50.9	ug/L	102				70 (66)	130 (115)	
	Naphthalene	50	45.8	ug/L	92				70 (64)	130 (107)	
	4-Chloroaniline	50	33.1	ug/L	66		*		70 (10)	130 (85)	
	Hexachlorobutadiene	50	46.5	ug/L	93				70 (69)	130 (101)	
	Caprolactam	50	43.5	ug/L	87				20 (58)	160 (128)	
	4-Chloro-3-methylphenol	50	45.1	ug/L	90				70 (65)	130 (114)	
	2-Methylnaphthalene	50	45.9	ug/L	92				70 (64)	130 (107)	
	Hexachlorocyclopentadiene	100	200	ug/L	200		*		20 (36)	160 (160)	
	2,4,6-Trichlorophenol	50	52.0	ug/L	104				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	49.8	ug/L	100				70 (70)	130 (106)	
	1,1-Biphenyl	50	47.9	ug/L	96				70 (72)	130 (98)	
	2-Chloronaphthalene	50	47.3	ug/L	95				70 (59)	130 (106)	
	2-Nitroaniline	50	51.8	ug/L	104				70 (73)	130 (114)	
	Dimethylphthalate	50	47.7	ug/L	95				70 (64)	130 (103)	
	Acenaphthylene	50	51.2	ug/L	102				70 (79)	130 (103)	
	2,6-Dinitrotoluene	50	46.1	ug/L	92				70 (64)	130 (110)	
	3-Nitroaniline	50	37.3	ug/L	75				70 (28)	130 (100)	
	Acenaphthene	50	48.4	ug/L	97				70 (59)	130 (113)	
	2,4-Dinitrophenol	100	82.1	ug/L	82				20 (36)	160 (166)	
	4-Nitrophenol	100	100	ug/L	100				20 (45)	160 (147)	
	Dibenzofuran	50	48.1	ug/L	96				70 (65)	130 (106)	
	2,4-Dinitrotoluene	50	48.6	ug/L	97				70 (60)	130 (115)	
	Diethylphthalate	50	47.4	ug/L	95				70 (63)	130 (105)	
	4-Chlorophenyl-phenylether	50	46.8	ug/L	94				70 (61)	130 (104)	
	Fluorene	50	47.2	ug/L	94				70 (64)	130 (107)	
	4-Nitroaniline	50	47.0	ug/L	94				70 (55)	130 (125)	
	4,6-Dinitro-2-methylphenol	50	48.1	ug/L	96				70 (62)	130 (132)	
	N-Nitrosodiphenylamine	50	49.3	ug/L	99				70 (61)	130 (109)	
	4-Bromophenyl-phenylether	50	47.3	ug/L	95				70 (73)	130 (103)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BE101427.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB164533BS	Hexachlorobenzene	50	46.9	ug/L	94				70 (73)	130 (106)		
	Atrazine	50	61.2	ug/L	122				70 (76)	130 (120)		
	Pentachlorophenol	100	100	ug/L	100				20 (47)	160 (114)		
	Phenanthrene	50	49.7	ug/L	99				70 (62)	130 (109)		
	Anthracene	50	52.6	ug/L	105				70 (65)	130 (110)		
	Carbazole	50	48.6	ug/L	97				70 (62)	130 (106)		
	Di-n-butylphthalate	50	51.0	ug/L	102				70 (64)	130 (106)		
	Fluoranthene	50	48.9	ug/L	98				70 (64)	130 (110)		
	Pyrene	50	47.2	ug/L	94				70 (71)	130 (103)		
	Butylbenzylphthalate	50	49.1	ug/L	98				70 (61)	130 (105)		
	3,3-Dichlorobenzidine	50	40.2	ug/L	80				70 (43)	130 (108)		
	Benzo(a)anthracene	50	50.1	ug/L	100				70 (62)	130 (107)		
	Chrysene	50	49.7	ug/L	99				70 (61)	130 (108)		
	bis(2-Ethylhexyl)phthalate	50	52.7	ug/L	105				70 (59)	130 (110)		
	Di-n-octyl phthalate	50	55.7	ug/L	111				70 (52)	130 (139)		
	Benzo(b)fluoranthene	50	47.3	ug/L	95				70 (77)	130 (113)		
	Benzo(k)fluoranthene	50	51.0	ug/L	102				70 (77)	130 (105)		
	Benzo(a)pyrene	50	52.9	ug/L	106				70 (72)	130 (131)		
	Indeno(1,2,3-cd)pyrene	50	51.1	ug/L	102				70 (72)	130 (105)		
	Dibenz(a,h)anthracene	50	51.4	ug/L	103				70 (78)	130 (115)		
	Benzo(g,h,i)perylene	50	45.8	ug/L	92				70 (75)	130 (118)		
	1,2,4,5-Tetrachlorobenzene	50	49.1	ug/L	98				70 (72)	130 (101)		
	1,4-Dioxane	50	37.1	ug/L	74				20 (38)	160 (125)		
	2,3,4,6-Tetrachlorophenol	50	50.8	ug/L	102				70 (63)	130 (116)		

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BE101428.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Limits		
							Qual	Qual	Low	High	RPD
PB164533BSD	Benzaldehyde	50	11.4	ug/L	23	1			20 (10)	160 (162)	20 (20)
	Phenol	50	53.6	ug/L	107	0			20 (66)	160 (118)	20 (20)
	bis(2-Chloroethyl)ether	50	47.2	ug/L	94	5			70 (62)	130 (103)	20 (20)
	2-Chlorophenol	50	51.8	ug/L	104	0			70 (70)	130 (117)	20 (20)
	2-Methylphenol	50	49.8	ug/L	100	0			70 (69)	130 (109)	20 (20)
	2,2-oxybis(1-Chloropropane)	50	48.6	ug/L	97	1			70 (65)	130 (100)	20 (20)
	Acetophenone	50	47.3	ug/L	95	1			70 (60)	130 (104)	20 (20)
	3+4-Methylphenols	50	49.5	ug/L	99	1			20 (67)	160 (106)	20 (20)
	N-Nitroso-di-n-propylamine	50	47.5	ug/L	95	1			70 (57)	130 (107)	20 (20)
	Hexachloroethane	50	47.0	ug/L	94	1			20 (76)	160 (118)	20 (20)
	Nitrobenzene	50	46.1	ug/L	92	0			70 (58)	130 (106)	20 (20)
	Isophorone	50	47.1	ug/L	94	2			70 (61)	130 (102)	20 (20)
	2-Nitrophenol	50	51.2	ug/L	102	1			70 (70)	130 (115)	20 (20)
	2,4-Dimethylphenol	50	61.5	ug/L	123	2			70 (42)	130 (142)	20 (20)
	bis(2-Chloroethoxy)methane	50	48.4	ug/L	97	1			70 (58)	130 (109)	20 (20)
	2,4-Dichlorophenol	50	52.0	ug/L	104	2			70 (66)	130 (115)	20 (20)
	Naphthalene	50	45.9	ug/L	92	0			70 (64)	130 (107)	20 (20)
	4-Chloroaniline	50	34.8	ug/L	70	5			70 (10)	130 (85)	20 (20)
	Hexachlorobutadiene	50	45.9	ug/L	92	1			70 (69)	130 (101)	20 (20)
	Caprolactam	50	46.3	ug/L	93	6			20 (58)	160 (128)	20 (20)
	4-Chloro-3-methylphenol	50	46.6	ug/L	93	3			70 (65)	130 (114)	20 (20)
	2-Methylnaphthalene	50	46.7	ug/L	93	2			70 (64)	130 (107)	20 (20)
	Hexachlorocyclopentadiene	100	200	ug/L	200	0	*		20 (36)	160 (160)	20 (20)
	2,4,6-Trichlorophenol	50	51.9	ug/L	104	0			70 (61)	130 (110)	20 (20)
	2,4,5-Trichlorophenol	50	50.0	ug/L	100	0			70 (70)	130 (106)	20 (20)
	1,1-Biphenyl	50	47.6	ug/L	95	1			70 (72)	130 (98)	20 (20)
	2-Chloronaphthalene	50	46.7	ug/L	93	1			70 (59)	130 (106)	20 (20)
	2-Nitroaniline	50	51.9	ug/L	104	0			70 (73)	130 (114)	20 (20)
	Dimethylphthalate	50	48.3	ug/L	97	1			70 (64)	130 (103)	20 (20)
	Acenaphthylene	50	51.8	ug/L	104	1			70 (79)	130 (103)	20 (20)
	2,6-Dinitrotoluene	50	46.7	ug/L	93	1			70 (64)	130 (110)	20 (20)
	3-Nitroaniline	50	37.1	ug/L	74	1			70 (28)	130 (100)	20 (20)
	Acenaphthene	50	48.0	ug/L	96	1			70 (59)	130 (113)	20 (20)
	2,4-Dinitrophenol	100	84.6	ug/L	85	3			20 (36)	160 (166)	20 (20)
	4-Nitrophenol	100	100	ug/L	100	0			20 (45)	160 (147)	20 (20)
	Dibenzofuran	50	48.2	ug/L	96	0			70 (65)	130 (106)	20 (20)
	2,4-Dinitrotoluene	50	49.7	ug/L	99	2			70 (60)	130 (115)	20 (20)
	Diethylphthalate	50	47.6	ug/L	95	0			70 (63)	130 (105)	20 (20)
	4-Chlorophenyl-phenylether	50	47.1	ug/L	94	1			70 (61)	130 (104)	20 (20)
	Fluorene	50	47.4	ug/L	95	0			70 (64)	130 (107)	20 (20)
	4-Nitroaniline	50	47.1	ug/L	94	0			70 (55)	130 (125)	20 (20)
	4,6-Dinitro-2-methylphenol	50	49.3	ug/L	99	2			70 (62)	130 (132)	20 (20)
	N-Nitrosodiphenylamine	50	49.7	ug/L	99	1			70 (61)	130 (109)	20 (20)
	4-Bromophenyl-phenylether	50	47.7	ug/L	95	1			70 (73)	130 (103)	20 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BE101428.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Limits		
							Qual	Qual	Low	High	RPD
PB164533BSD	Hexachlorobenzene	50	46.9	ug/L	94	0			70 (73)	130 (106)	20 (20)
	Atrazine	50	61.4	ug/L	123	0			70 (76)	130 (120)	20 (20)
	Pentachlorophenol	100	110	ug/L	110	10			20 (47)	160 (114)	20 (20)
	Phenanthrene	50	50.0	ug/L	100	1			70 (62)	130 (109)	20 (20)
	Anthracene	50	52.9	ug/L	106	1			70 (65)	130 (110)	20 (20)
	Carbazole	50	49.1	ug/L	98	1			70 (62)	130 (106)	20 (20)
	Di-n-butylphthalate	50	51.5	ug/L	103	1			70 (64)	130 (106)	20 (20)
	Fluoranthene	50	48.8	ug/L	98	0			70 (64)	130 (110)	20 (20)
	Pyrene	50	46.5	ug/L	93	1			70 (71)	130 (103)	20 (20)
	Butylbenzylphthalate	50	49.4	ug/L	99	1			70 (61)	130 (105)	20 (20)
	3,3-Dichlorobenzidine	50	40.7	ug/L	81	1			70 (43)	130 (108)	20 (20)
	Benzo(a)anthracene	50	49.9	ug/L	100	0			70 (62)	130 (107)	20 (20)
	Chrysene	50	49.1	ug/L	98	1			70 (61)	130 (108)	20 (20)
	bis(2-Ethylhexyl)phthalate	50	52.8	ug/L	106	0			70 (59)	130 (110)	20 (20)
	Di-n-octyl phthalate	50	55.2	ug/L	110	1			70 (52)	130 (139)	20 (20)
	Benzo(b)fluoranthene	50	46.7	ug/L	93	1			70 (77)	130 (113)	20 (20)
	Benzo(k)fluoranthene	50	51.1	ug/L	102	0			70 (77)	130 (105)	20 (20)
	Benzo(a)pyrene	50	52.5	ug/L	105	1			70 (72)	130 (131)	20 (20)
	Indeno(1,2,3-cd)pyrene	50	51.1	ug/L	102	0			70 (72)	130 (105)	20 (20)
	Dibenz(a,h)anthracene	50	51.0	ug/L	102	1			70 (78)	130 (115)	20 (20)
	Benzo(g,h,i)perylene	50	45.6	ug/L	91	0			70 (75)	130 (118)	20 (20)
	1,2,4,5-Tetrachlorobenzene	50	48.2	ug/L	96	2			70 (72)	130 (101)	20 (20)
	1,4-Dioxane	50	39.0	ug/L	78	5			20 (38)	160 (125)	20 (20)
	2,3,4,6-Tetrachlorophenol	50	51.5	ug/L	103	1			70 (63)	130 (116)	20 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BF140102.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB164461BS	Benzaldehyde	1700	420	ug/Kg	25				20 (10)	160 (133)	
	Phenol	1700	1500	ug/Kg	88				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				70 (60)	130 (101)	
	2-Chlorophenol	1700	1500	ug/Kg	88				70 (65)	130 (112)	
	2-Methylphenol	1700	1500	ug/Kg	88				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1500	ug/Kg	88				70 (51)	130 (100)	
	Acetophenone	1700	1400	ug/Kg	82				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1400	ug/Kg	82				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	1500	ug/Kg	88				70 (59)	130 (99)	
	2-Nitrophenol	1700	1800	ug/Kg	106				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1700	ug/Kg	100				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1500	ug/Kg	88				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				70 (62)	130 (107)	
	Naphthalene	1700	1400	ug/Kg	82				70 (62)	130 (100)	
	4-Chloroaniline	1700	550	ug/Kg	32		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				70 (53)	130 (98)	
	Caprolactam	1700	1600	ug/Kg	94				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1500	ug/Kg	88				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	5600	ug/Kg	170		*		20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1600	ug/Kg	94				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	1700	ug/Kg	100				70 (66)	130 (101)	
	Dimethylphthalate	1700	1500	ug/Kg	88				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	4300	ug/Kg	130				20 (37)	160 (128)	
	4-Nitrophenol	3300	3300	ug/Kg	100				20 (48)	160 (119)	
	Dibenzofuran	1700	1500	ug/Kg	88				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1800	ug/Kg	106				70 (60)	130 (106)	
	Diethylphthalate	1700	1500	ug/Kg	88				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	1700	ug/Kg	100				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	2200	ug/Kg	129				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1500	ug/Kg	88				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1500	ug/Kg	88				70 (66)	130 (102)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BF140102.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB164461BS	Hexachlorobenzene	1700	1500	ug/Kg	88				70 (64)	130 (98)	
	Atrazine	1700	1800	ug/Kg	106				70 (47)	130 (152)	
	Pentachlorophenol	3300	3100	ug/Kg	94				20 (67)	160 (105)	
	Phenanthrene	1700	1500	ug/Kg	88				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	1500	ug/Kg	88				70 (57)	130 (107)	
	Pyrene	1700	1600	ug/Kg	94				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1900	ug/Kg	112				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	1000	ug/Kg	59		*		70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1600	ug/Kg	94				70 (60)	130 (102)	
	Chrysene	1700	1500	ug/Kg	88				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	2000	ug/Kg	118				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	1500	ug/Kg	88				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				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	1600	ug/Kg	94				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	1100	ug/Kg	65				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1700	ug/Kg	100				70 (59)	130 (108)	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164461BL

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: P4578

SAS No.: P4578 SDG NO.: P4578

Lab File ID: BF140101.D

Lab Sample ID: PB164461BL

Instrument ID: BNA_F

Date Extracted: 10/28/2024

Matrix: (soil/water) SOIL

Date Analyzed: 10/29/2024

Level: (low/med) LOW

Time Analyzed: 10:05

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164461BS	PB164461BS	BF140102.D	10/29/2024
WB-305-BOT	P4578-05	BF140110.D	10/29/2024
WB-305-BOT-1	P4578-07	BF140111.D	10/29/2024
WB-305-TOP-1	P4578-04	BF140125.D	10/29/2024
WB-305-TOP	P4578-03	BF140156.D	10/30/2024
BP-F-18MS	P4561-05MS	BF140105.D	10/29/2024
BP-F-18MSD	P4561-05MSD	BF140106.D	10/29/2024

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164533BL

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: P4578

SAS No.: P4578 SDG NO.: P4578

Lab File ID: BE101426.D

Lab Sample ID: PB164533BL

Instrument ID: BNA_E

Date Extracted: 10/30/2024

Matrix: (soil/water) Water

Date Analyzed: 10/31/2024

Level: (low/med) LOW

Time Analyzed: 10:57

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164533BS	PB164533BS	BE101427.D	10/31/2024
PB164533BSD	PB164533BSD	BE101428.D	10/31/2024
WB-305-SW	P4578-01	BF140193.D	10/31/2024
WB-305-SW-1	P4578-02	BE101433.D	10/31/2024

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: PORT06Lab Code: CHEMSAS No.: P4578 SDG NO.: P4578Lab File ID: BE101388.DDFTPP Injection Date: 10/28/2024Instrument ID: BNA_EDFTPP Injection Time: 10:51

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	17.8
68	Less than 2.0% of mass 69	0.3 (1.5) 1
69	Mass 69 relative abundance	18.3
70	Less than 2.0% of mass 69	0.0 (0.1) 1
127	10.0 - 80.0% of mass 198	27.1
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	4
275	10.0 - 60.0% of mass 198	20
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	16.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	20.1 (20.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BE101389.D	10/28/2024	11:44
SSTDICC005	SSTDICC005	BE101390.D	10/28/2024	12:23
SSTDICC010	SSTDICC010	BE101391.D	10/28/2024	12:59
SSTDICC020	SSTDICC020	BE101392.D	10/28/2024	13:35
SSTDICCC040	SSTDICCC040	BE101393.D	10/28/2024	14:11
SSTDICC050	SSTDICC050	BE101394.D	10/28/2024	14:49
SSTDICC060	SSTDICC060	BE101395.D	10/28/2024	15:25
SSTDICC080	SSTDICC080	BE101396.D	10/28/2024	16:01



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: PORT06Lab Code: CHEMSAS No.: P4578 SDG NO.: P4578Lab File ID: BE101424.DDFTPP Injection Date: 10/31/2024Instrument ID: BNA_EDFTPP Injection Time: 09:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	18.3
68	Less than 2.0% of mass 69	0.2 (0.8) 1
69	Mass 69 relative abundance	19.2
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	27
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	4.1
275	10.0 - 60.0% of mass 198	19.5
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	16.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.6 (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	BE101425.D	10/31/2024	10:18
PB164533BL	PB164533BL	BE101426.D	10/31/2024	10:57
PB164533BS	PB164533BS	BE101427.D	10/31/2024	11:33
PB164533BSD	PB164533BSD	BE101428.D	10/31/2024	12:09
WB-305-SW-1	P4578-02	BE101433.D	10/31/2024	15:14



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: PORT06Lab Code: CHEMSAS No.: P4578 SDG NO.: P4578Lab File ID: BF139843.DDFTPP Injection Date: 10/18/2024Instrument ID: BNA_FDFTPP Injection Time: 09:22

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	43.8
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	46.9
197	Less than 2.0% of mass 198	0.8
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	26.9
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	93.1
443	15.0 - 24.0% of mass 442	17.9 (19.2) 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	BF139844.D	10/18/2024	10:27
SSTDICC005	SSTDICC005	BF139845.D	10/18/2024	10:55
SSTDICC010	SSTDICC010	BF139846.D	10/18/2024	11:23
SSTDICC020	SSTDICC020	BF139847.D	10/18/2024	11:52
SSTDICCC040	SSTDICCC040	BF139848.D	10/18/2024	12:20
SSTDICC050	SSTDICC050	BF139849.D	10/18/2024	12:49
SSTDICC060	SSTDICC060	BF139850.D	10/18/2024	13:17
SSTDICC080	SSTDICC080	BF139851.D	10/18/2024	13:46



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: PORT06Lab Code: CHEMSAS No.: P4578 SDG NO.: P4578Lab File ID: BF140099.DDFTPP Injection Date: 10/29/2024Instrument ID: BNA_FDFTPP Injection Time: 09:09

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.6
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	36
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	44.7
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	6.5
275	10.0 - 60.0% of mass 198	27.3
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.4 (19.4) 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	BF140100.D	10/29/2024	09:37
PB164461BL	PB164461BL	BF140101.D	10/29/2024	10:05
PB164461BS	PB164461BS	BF140102.D	10/29/2024	10:33
BP-F-18MS	P4561-05MS	BF140105.D	10/29/2024	12:02
BP-F-18MSD	P4561-05MSD	BF140106.D	10/29/2024	12:30
WB-305-BOT	P4578-05	BF140110.D	10/29/2024	14:16
WB-305-BOT-1	P4578-07	BF140111.D	10/29/2024	14:42



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: PORT06Lab Code: CHEMSAS No.: P4578 SDG NO.: P4578Lab File ID: BF140112.DDFTPP Injection Date: 10/29/2024Instrument ID: BNA_FDFTPP Injection Time: 15:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	31.9
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	29.7
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	38.6
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	5.7
275	10.0 - 60.0% of mass 198	25.1
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	15.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.1 (19.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140113.D	10/29/2024	16:01
WB-305-TOP-1	P4578-04	BF140125.D	10/29/2024	21:13



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: PORT06Lab Code: CHEMSAS No.: P4578 SDG NO.: P4578Lab File ID: BF140151.DDFTPP Injection Date: 10/30/2024Instrument ID: BNA_FDFTPP Injection Time: 11:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	42.9
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	37.4
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.1
197	Less than 2.0% of mass 198	0.8
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	27.6
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	14.5
442	Greater than 50% of mass 198	93.9
443	15.0 - 24.0% of mass 442	17.9 (19.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140152.D	10/30/2024	12:50
WB-305-TOP	P4578-03	BF140156.D	10/30/2024	14:41



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: PORT06Lab Code: CHEMSAS No.: P4578 SDG NO.: P4578Lab File ID: BF140175.DDFTPP Injection Date: 10/31/2024Instrument ID: BNA_FDFTPP Injection Time: 08:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40
68	Less than 2.0% of mass 69	0.7 (2) 1
69	Mass 69 relative abundance	36.4
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	45.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.1
275	10.0 - 60.0% of mass 198	27.3
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.4 (19.4) 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	BF140176.D	10/31/2024	09:22
WB-305-SW	P4578-01	BF140193.D	10/31/2024	17:01



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: PORT06Lab Code: CHEMSAS No.: P4578 SDG NO.: P4578Lab File ID: BF140199.DDFTPP Injection Date: 11/01/2024Instrument ID: BNA_FDFTPP Injection Time: 08:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	42.9
68	Less than 2.0% of mass 69	0.7 (1.7) 1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47
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	6.6
275	10.0 - 60.0% of mass 198	28.1
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	15.6
442	Greater than 50% of mass 198	98.8
443	15.0 - 24.0% of mass 442	19.3 (19.5) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140200.D	11/01/2024	09:22
WB-305-SWRE	P4578-01RE	BF140206.D	11/01/2024	12:07
WB-305-SW-1RE	P4578-02RE	BF140207.D	11/01/2024	12:33

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/31/2024

Lab File ID: BE101425.D Time Analyzed: 10:18

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	136647	7.573	695845	10.34	498092	14.18
UPPER LIMIT	273294	8.073	1391690	10.84	996184	14.683
LOWER LIMIT	68323.5	7.073	347923	9.84	249046	13.683
EPA SAMPLE NO.						
01 PB164533BL	111412	7.57	479387	10.34	322455	14.18
02 PB164533BS	115147	7.57	538934	10.34	360623	14.18
03 WB-305-SW-1	150057	7.57	662069	10.34	470146	14.18
04 PB164533BSD	113034	7.57	526465	10.34	360052	14.18

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.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/31/2024

Lab File ID: BE101425.D Time Analyzed: 10:18

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	1107610	16.915	1206960	21.081	1484760	23.366
UPPER LIMIT	2215220	17.415	2413920	21.581	2969520	23.866
LOWER LIMIT	553805	16.415	603480	20.581	742380	22.866
EPA SAMPLE NO.						
01 PB164533BL	764639	16.92	978042	21.08	1302950	23.36
02 PB164533BS	814107	16.92	960075	21.08	1281360	23.37
03 WB-305-SW-1	1206170	16.91	1598010	21.07	2061050	23.36
04 PB164533BSD	812601	16.92	969385	21.08	1285880	23.36

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/29/2024

Lab File ID: BF140100.D Time Analyzed: 09:37

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	138305	6.893	518016	8.18	286088	9.93
UPPER LIMIT	276610	7.393	1036030	8.675	572176	10.428
LOWER LIMIT	69152.5	6.393	259008	7.675	143044	9.428
EPA SAMPLE NO.						
01 PB164461BL	132334	6.89	522078	8.17	293840	9.92
02 PB164461BS	127430	6.89	500801	8.17	278385	9.93
03 BP-F-18MS	119078	6.89	468695	8.17	258838	9.93
04 BP-F-18MSD	121800	6.89	465155	8.17	256664	9.93
05 WB-305-BOT	120686	6.89	473213	8.17	267166	9.92
06 WB-305-BOT-1	122139	6.89	478188	8.17	267029	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.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/29/2024

Lab File ID: BF140100.D Time Analyzed: 09:37

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	513809	11.416	264357	14.051	264628	15.527
UPPER LIMIT	1027620	11.916	528714	14.551	529256	16.027
LOWER LIMIT	256905	10.916	132179	13.551	132314	15.027
EPA SAMPLE NO.						
01 PB164461BL	532374	11.41	353787	14.05	265432	15.53
02 PB164461BS	513541	11.42	266065	14.05	256361	15.53
03 BP-F-18MS	443678	11.42	213800	14.05	269959	15.53
04 BP-F-18MSD	439821	11.42	211408	14.05	270997	15.53
05 WB-305-BOT	461039	11.41	224689	14.06	271519	15.55
06 WB-305-BOT-1	461723	11.41	225154	14.06	268509	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.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/29/2024

Lab File ID: BF140113.D Time Analyzed: 16:01

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	154336	6.892	582321	8.18	326390	9.93
UPPER LIMIT	308672	7.392	1164640	8.675	652780	10.428
LOWER LIMIT	77168	6.392	291161	7.675	163195	9.428
EPA SAMPLE NO.						
01 WB-305-TOP-1	121877	6.89	473789	8.17	240944	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.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/29/2024

Lab File ID: BF140113.D Time Analyzed: 16:01

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	563401	11.416	296186	14.074	329400	15.592
UPPER LIMIT	1126800	11.916	592372	14.574	658800	16.092
LOWER LIMIT	281701	10.916	148093	13.574	164700	15.092
EPA SAMPLE NO.						
01 WB-305-TOP-1	345918	11.41	236214	14.05	244867	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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/30/2024

Lab File ID: BF140152.D Time Analyzed: 12:50

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	120224	6.887	456321	8.17	257889	9.93
UPPER LIMIT	240448	7.387	912642	8.669	515778	10.428
LOWER LIMIT	60112	6.387	228161	7.669	128945	9.428
EPA SAMPLE NO.						
01 WB-305-TOP	110861	6.88	423380	8.16	224222	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.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/30/2024

Lab File ID: BF140152.D Time Analyzed: 12:50

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	475664	11.416	284421	14.068	273128	15.574
UPPER LIMIT	951328	11.916	568842	14.568	546256	16.074
LOWER LIMIT	237832	10.916	142211	13.568	136564	15.074
EPA SAMPLE NO.						
01 WB-305-TOP	363381	11.42	172346	14.07	220971	15.58

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.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/31/2024

Lab File ID: BF140176.D Time Analyzed: 09:22

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	122098	6.886	468668	8.17	269255	9.93
UPPER LIMIT	244196	7.386	937336	8.669	538510	10.433
LOWER LIMIT	61049	6.386	234334	7.669	134628	9.433
EPA SAMPLE NO.						
01 WB-305-SW	185491	6.89	676798	8.16	334897	9.93

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.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/31/2024

Lab File ID: BF140176.D Time Analyzed: 09:22

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	495112	11.427	315081	14.098	256770	15.627
UPPER LIMIT	990224	11.927	630162	14.598	513540	16.127
LOWER LIMIT	247556	10.927	157541	13.598	128385	15.127
EPA SAMPLE NO.						
01 WB-305-SW	527934	11.42	330677	14.07	264306	15.57

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.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/01/2024

Lab File ID: BF140200.D Time Analyzed: 09:22

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	147950	6.887	577069	8.17	331720	9.93
UPPER LIMIT	295900	7.387	1154140	8.669	663440	10.428
LOWER LIMIT	73975	6.387	288535	7.669	165860	9.428
EPA SAMPLE NO.						
01 WB-305-SWRE	221542	6.88	874676	8.16	496865	9.92
02 WB-305-SW-1RE	186612	6.88	733188	8.16	415849	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.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/01/2024

Lab File ID: BF140200.D Time Analyzed: 09:22

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	606919	11.422	388668	14.08	308087	15.58
UPPER LIMIT	1213840	11.922	777336	14.58	616174	16.08
LOWER LIMIT	303460	10.922	194334	13.58	154044	15.08
EPA SAMPLE NO.						
01 WB-305-SWRE	893182	11.42	535712	14.07	445221	15.57
02 WB-305-SW-1RE	750159	11.42	460215	14.07	381772	15.58

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:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 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
BF140193.D	1	10/30/24 08:50	10/31/24 17:01	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.10	U	4.10	10.2	ug/L
108-95-2	Phenol	0.95	U	0.95	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.10	ug/L
95-57-8	2-Chlorophenol	0.72	U	0.72	5.10	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.10	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.10	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.10	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.10	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.10	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.90	U	0.90	5.10	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.10	ug/L
106-47-8	4-Chloroaniline	1.30	UQ	1.30	5.10	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.10	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	0.86	U	0.86	5.10	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	5.10	UQ	5.10	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	0.91	U	0.91	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.10	ug/L
92-52-4	1,1-Biphenyl	0.93	U	0.93	5.10	ug/L
91-58-7	2-Chloronaphthalene	0.99	U	0.99	5.10	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.10	ug/L
131-11-3	Dimethylphthalate	0.95	U	0.95	5.10	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 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
BF140193.D	1	10/30/24 08:50	10/31/24 17:01	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.10	U	1.10	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.10	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.10	ug/L
83-32-9	Acenaphthene	0.83	U	0.83	5.10	ug/L
51-28-5	2,4-Dinitrophenol	6.60	U	6.60	10.2	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.2	ug/L
132-64-9	Dibenzofuran	0.95	U	0.95	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.10	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	1.00	5.10	ug/L
86-73-7	Fluorene	0.98	U	0.98	5.10	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	0.91	U	0.91	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	0.97	U	0.97	5.10	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.10	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.10	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.2	ug/L
85-01-8	Phenanthrene	0.91	U	0.91	5.10	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.10	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.10	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.10	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.10	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.2	ug/L
56-55-3	Benzo(a)anthracene	0.96	U	0.96	5.10	ug/L
218-01-9	Chrysene	0.88	U	0.88	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.10	ug/L
117-84-0	Di-n-octyl phthalate	2.60	U	2.60	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.10	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 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
BF140193.D	1	10/30/24 08:50	10/31/24 17:01	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.10	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.10	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.81	U	0.81	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	13.7	*	15 (10) - 110 (139)	9%	SPK: 150
13127-88-3	Phenol-d6	12.7	*	15 (10) - 110 (134)	8%	SPK: 150
4165-60-0	Nitrobenzene-d5	17.0	*	30 (49) - 130 (133)	17%	SPK: 100
321-60-8	2-Fluorobiphenyl	18.7	*	30 (52) - 130 (132)	19%	SPK: 100
118-79-6	2,4,6-Tribromophenol	30.3		15 (44) - 110 (137)	20%	SPK: 150
1718-51-0	Terphenyl-d14	23.4	*	30 (48) - 130 (125)	23%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	185000		6.886		
1146-65-2	Naphthalene-d8	677000		8.163		
15067-26-2	Acenaphthene-d10	335000		9.927		
1517-22-2	Phenanthrene-d10	528000		11.416		
1719-03-5	Chrysene-d12	331000		14.068		
1520-96-3	Perylene-d12	264000		15.574		
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	87.0	J		2.15	ug/L
000119-61-9	Benzophenone	7.30	J		10.6	ug/L
000057-10-3	n-Hexadecanoic acid	9.00	J		11.9	ug/L
000057-11-4	Octadecanoic acid	3.60	J		12.7	ug/L
027519-02-4	9-Tricosene, (Z)-	5.80	J		13.9	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 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
BF140193.D	1	10/30/24 08:50	10/31/24 17:01	PB164533

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\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Quant Time: Nov 01 01:14:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	185491	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	676798	20.000	ng	-0.01
39) Acenaphthene-d10	9.927	164	334897	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	527934	20.000	ng	0.00
76) Chrysene-d12	14.068	240	330677	20.000	ng	0.02
86) Perylene-d12	15.574	264	264306	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	325476	27.469	ng	0.00
7) Phenol-d6	6.504	99	390383	25.439	ng	0.00
23) Nitrobenzene-d5	7.439	82	414358	33.932	ng	-0.01
42) 2,4,6-Tribromophenol	10.716	330	189605	60.528	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	758874	37.450	ng	-0.01
79) Terphenyl-d14	13.010	244	951394	46.882	ng	0.01

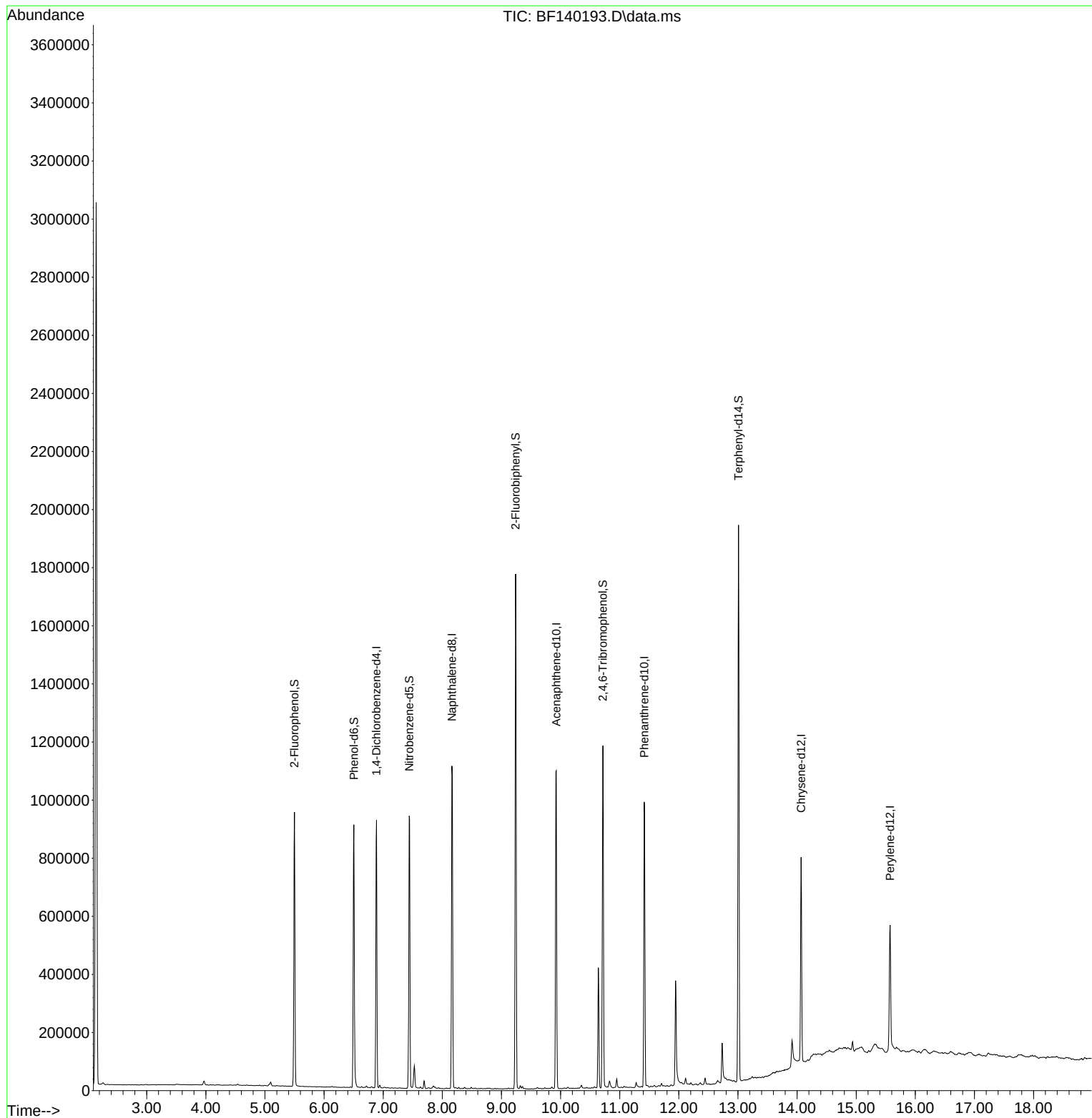
Target Compounds	Qvalue

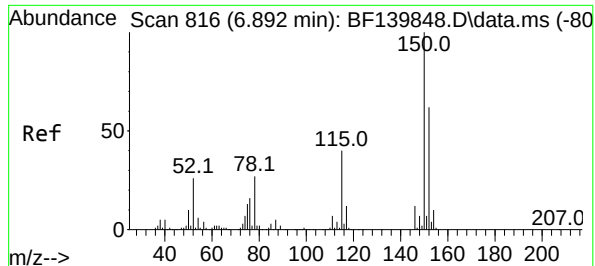
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Quant Time: Nov 01 01:14:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

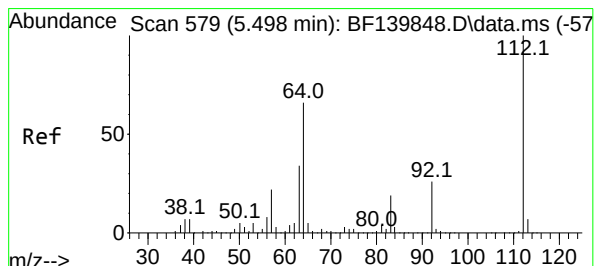
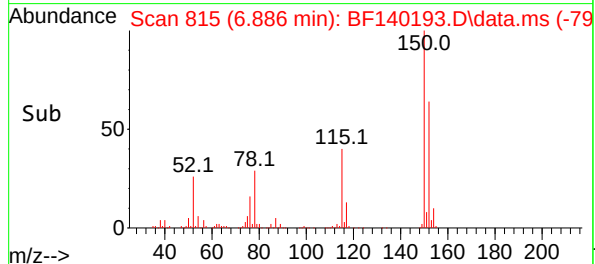
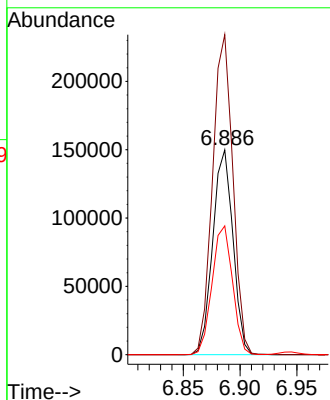
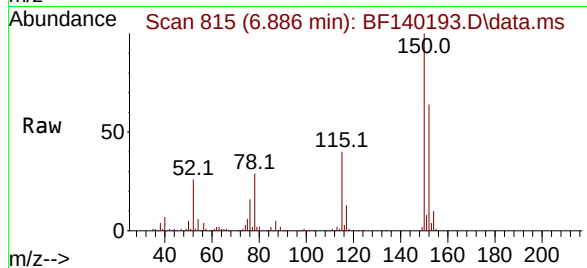




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 816
Delta R.T. -0.006 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

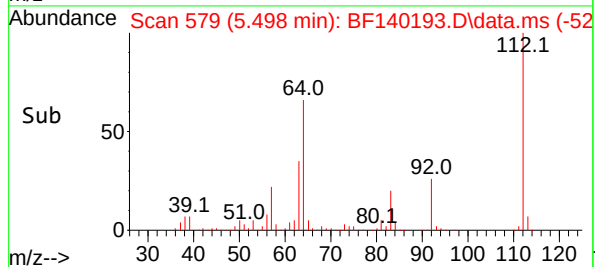
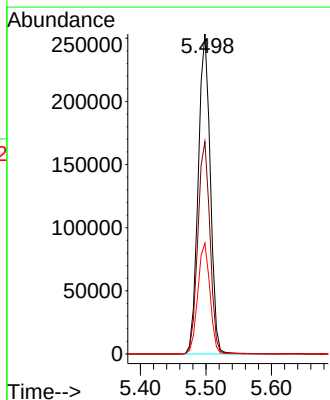
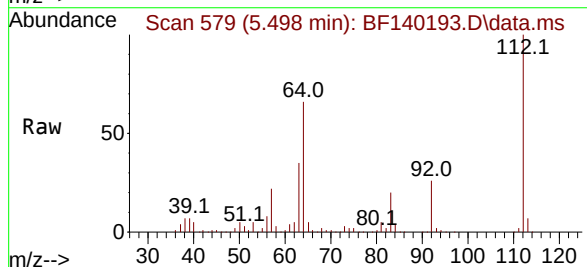
Instrument :
BNA_F
ClientSampleId :
WB-305-SW

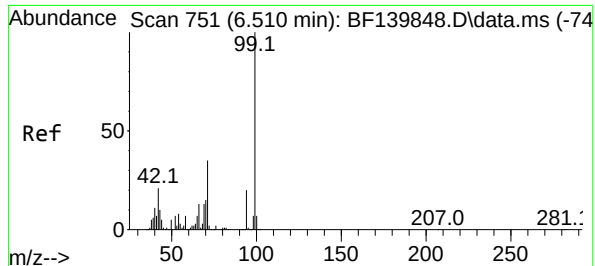
Tgt Ion:152 Resp: 185491
Ion Ratio Lower Upper
152 100
150 156.3 130.2 195.2
115 62.9 51.4 77.2



#5
2-Fluorophenol
Concen: 27.469 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.000 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Tgt Ion:112 Resp: 325476
Ion Ratio Lower Upper
112 100
64 66.3 53.0 79.6
63 34.6 27.0 40.4

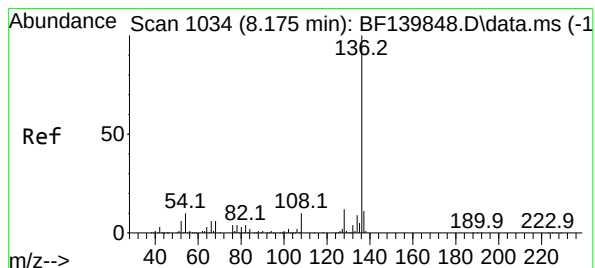
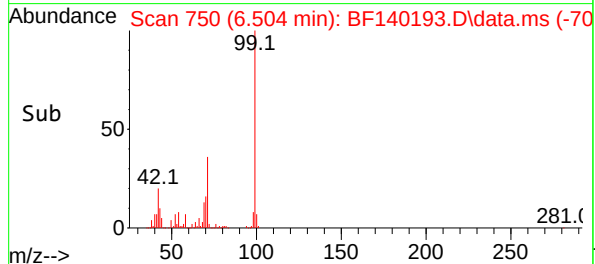
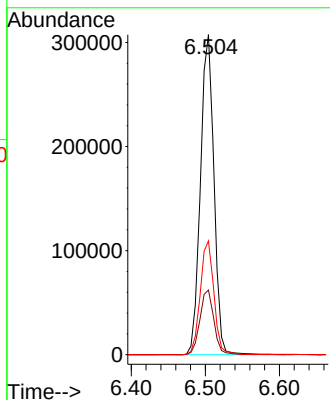
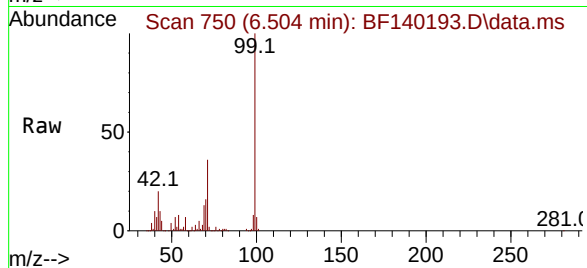




#7
Phenol-d6
Concen: 25.439 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

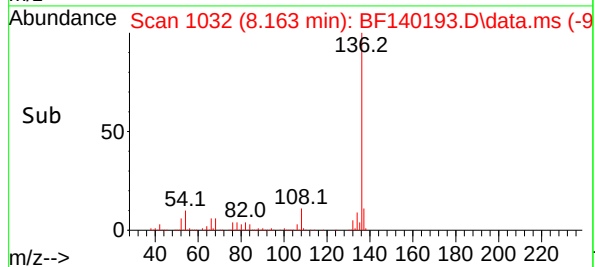
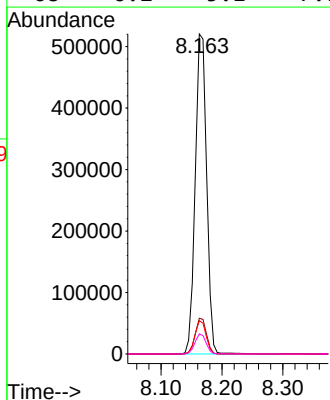
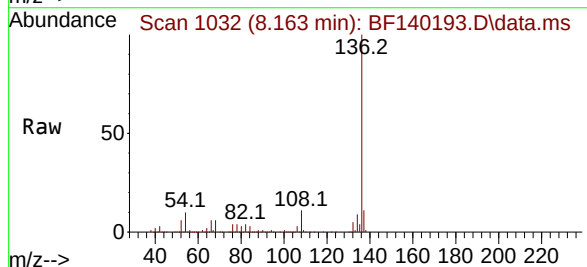
Instrument :
BNA_F
ClientSampleId :
WB-305-SW

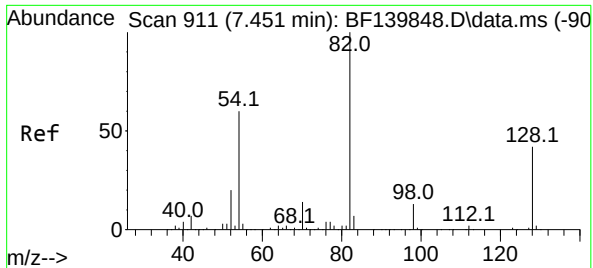
Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.2	16.7	25.1
71	35.5	27.7	41.5



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.6	12.8
54	10.4	8.4	12.6
68	6.2	5.1	7.7





#23

Nitrobenzene-d5

Concen: 33.932 ng

RT: 7.439 min Scan# 909

Delta R.T. -0.012 min

Lab File: BF140193.D

Acq: 31 Oct 2024 17:01

Instrument :

BNA_F

ClientSampleId :

WB-305-SW

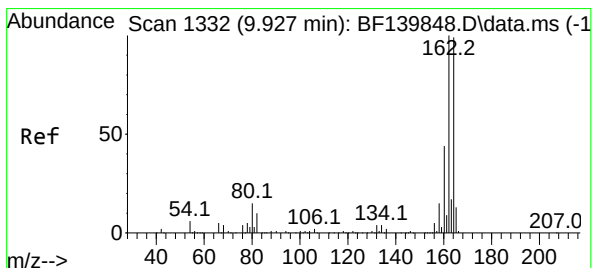
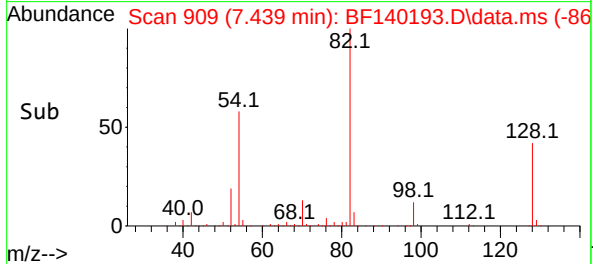
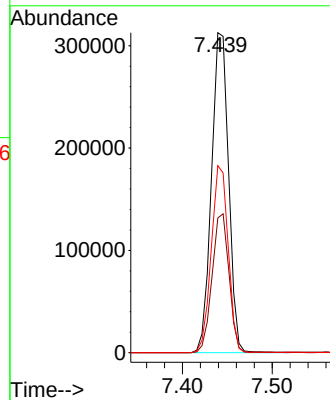
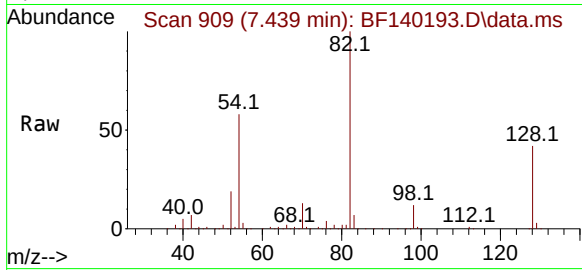
Tgt Ion: 82 Resp: 414358

Ion Ratio Lower Upper

82 100

128 42.1 33.4 50.0

54 58.4 47.8 71.8



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.927 min Scan# 1332

Delta R.T. 0.000 min

Lab File: BF140193.D

Acq: 31 Oct 2024 17:01

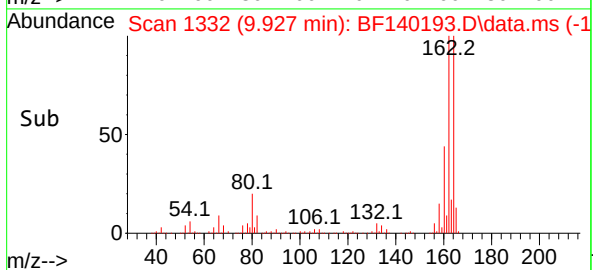
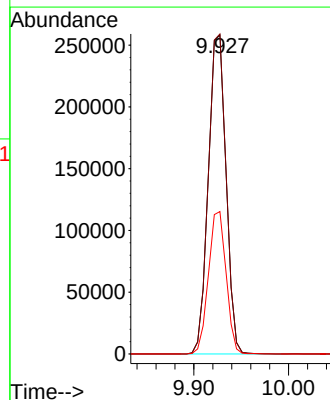
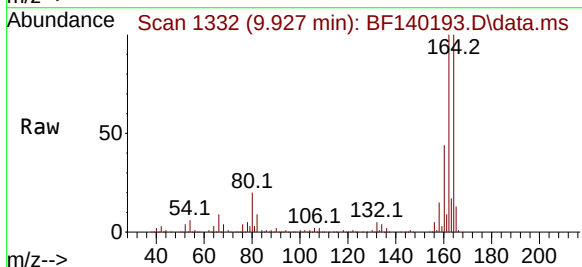
Tgt Ion:164 Resp: 334897

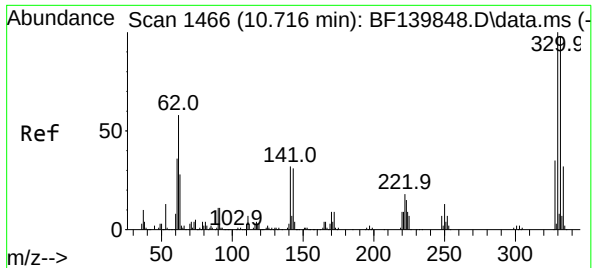
Ion Ratio Lower Upper

164 100

162 100.4 81.0 121.4

160 44.7 35.4 53.0





#42

2,4,6-Tribromophenol

Concen: 60.528 ng

RT: 10.716 min Scan# 1466

Delta R.T. 0.000 min

Lab File: BF140193.D

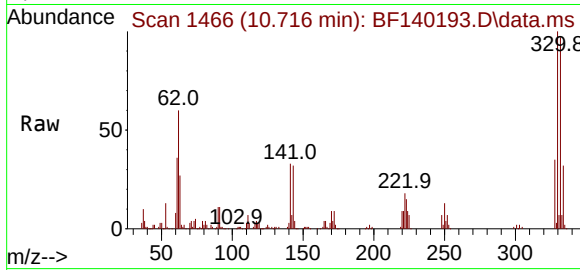
Acq: 31 Oct 2024 17:01

Instrument :

BNA_F

ClientSampleId :

WB-305-SW



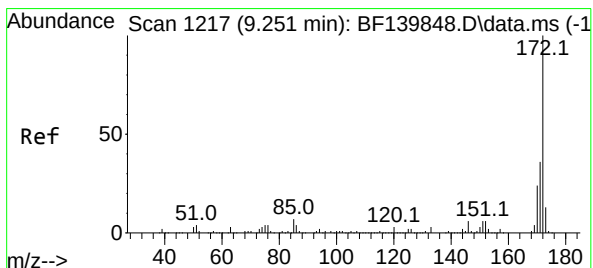
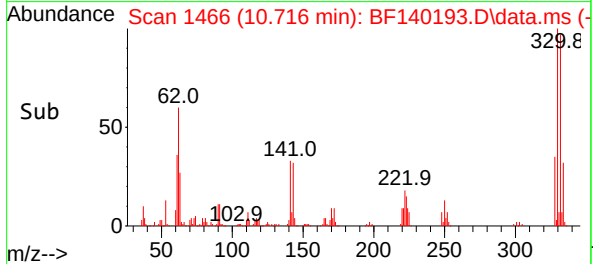
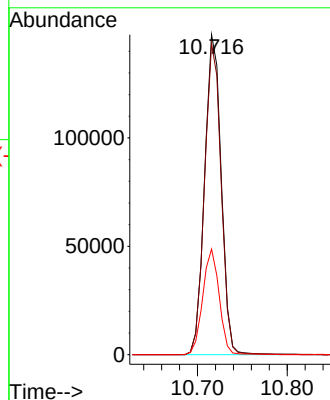
Tgt Ion:330 Resp: 189605

Ion Ratio Lower Upper

330 100

332 97.3 78.1 117.1

141 32.8 26.6 39.8



#45

2-Fluorobiphenyl

Concen: 37.450 ng

RT: 9.239 min Scan# 1215

Delta R.T. -0.012 min

Lab File: BF140193.D

Acq: 31 Oct 2024 17:01

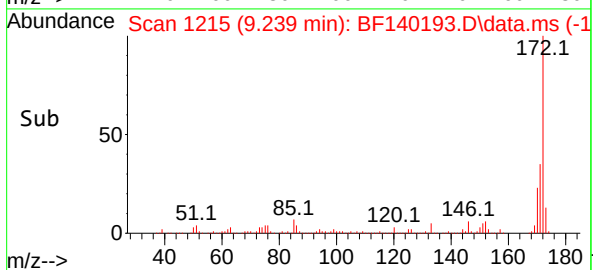
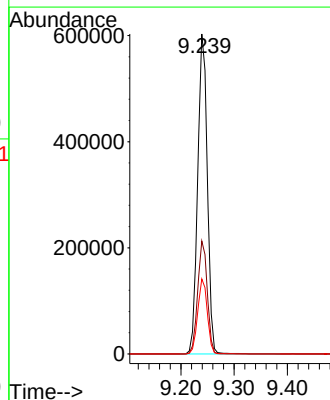
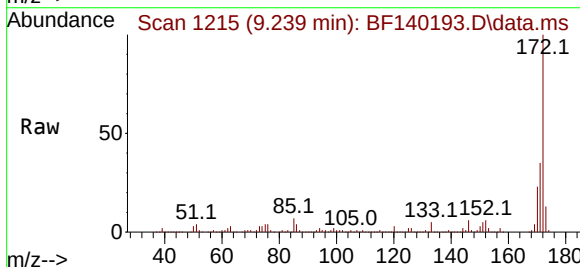
Tgt Ion:172 Resp: 758874

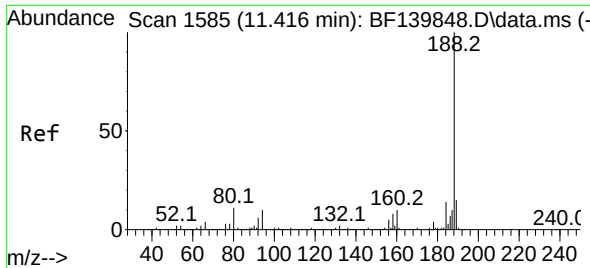
Ion Ratio Lower Upper

172 100

171 35.3 28.6 43.0

170 23.5 19.1 28.7

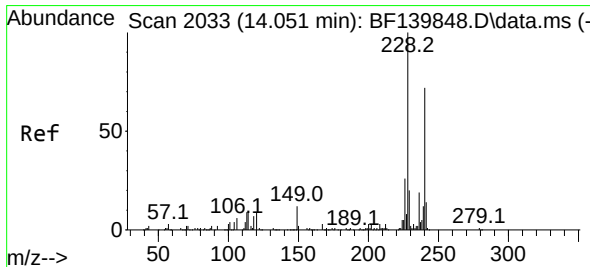
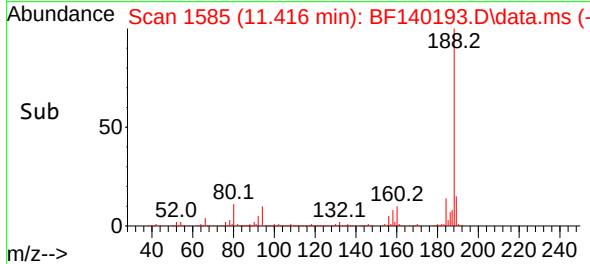
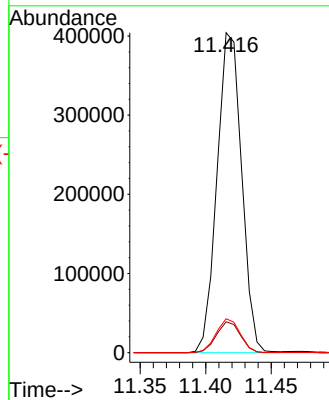
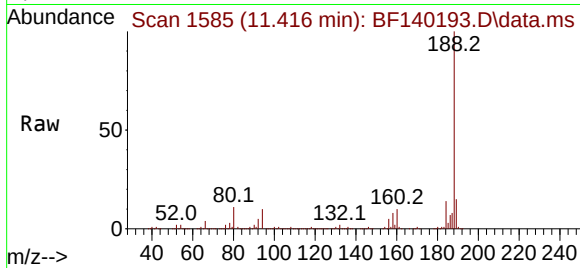




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

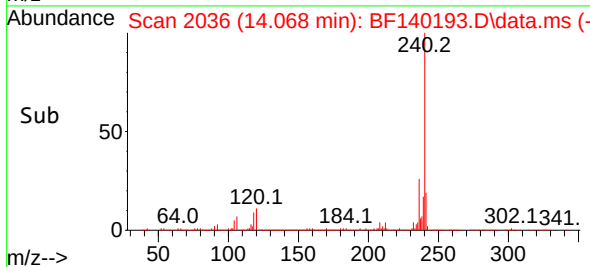
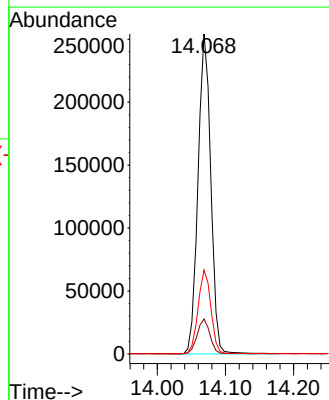
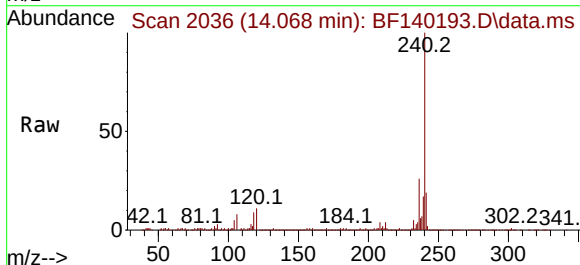
Instrument :
BNA_F
ClientSampleId :
WB-305-SW

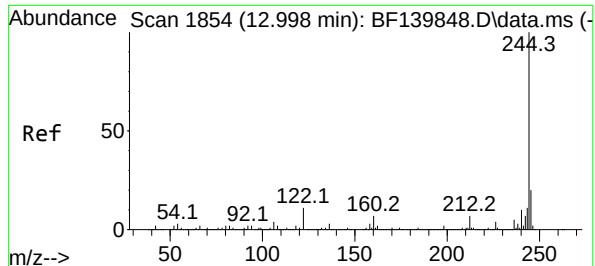
Tgt Ion:188 Resp: 527934
Ion Ratio Lower Upper
188 100
94 9.6 7.9 11.9
80 10.6 9.0 13.4



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2036
Delta R.T. 0.018 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Tgt Ion:240 Resp: 330677
Ion Ratio Lower Upper
240 100
120 10.9 9.4 14.2
236 26.2 20.9 31.3





#79

Terphenyl-d14

Concen: 46.882 ng

RT: 13.010 min Scan# 1856

Delta R.T. 0.012 min

Lab File: BF140193.D

Acq: 31 Oct 2024 17:01

Instrument :

BNA_F

ClientSampleId :

WB-305-SW

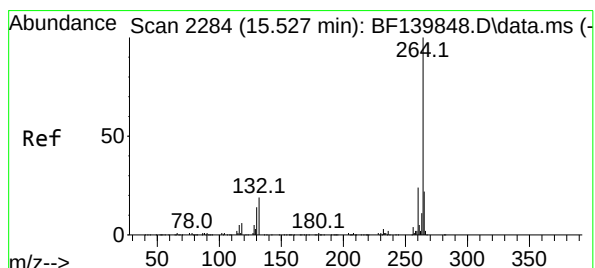
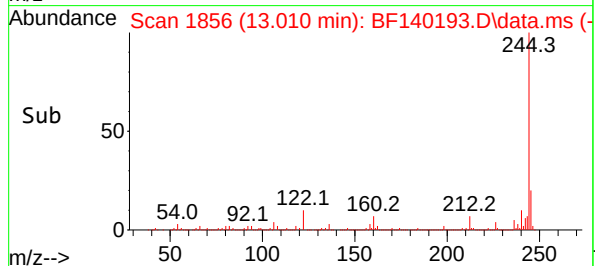
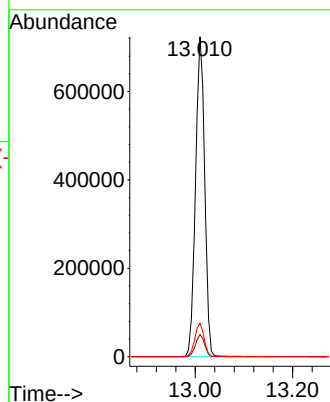
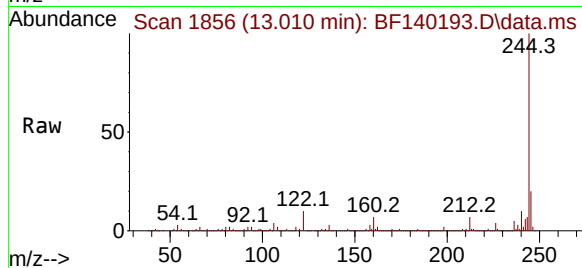
Tgt Ion:244 Resp: 951394

Ion Ratio Lower Upper

244 100

212 6.9 5.7 8.5

122 10.4 8.6 13.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.574 min Scan# 2292

Delta R.T. 0.047 min

Lab File: BF140193.D

Acq: 31 Oct 2024 17:01

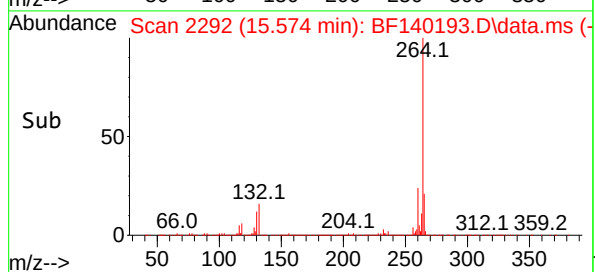
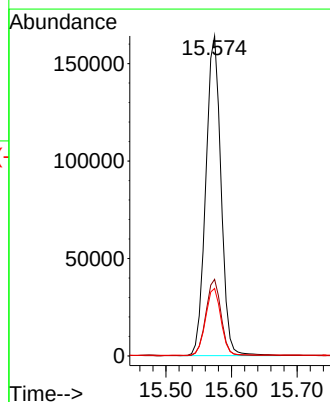
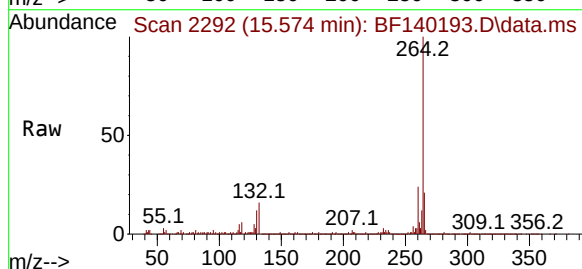
Tgt Ion:264 Resp: 264306

Ion Ratio Lower Upper

264 100

260 23.9 19.4 29.2

265 21.1 17.4 26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
 Data File : BF140193.D
 Acq On : 31 Oct 2024 17:01
 Operator : RC/JU
 Sample : P4578-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WB-305-SW

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-BF101824.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140193.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.146	3	9	16	rVB	3034358	4921166	100.00%	21.015%
2	5.498	573	579	597	rVB	944260	1225499	24.90%	5.233%
3	6.504	744	750	762	rBV	904414	1191054	24.20%	5.086%
4	6.886	809	815	820	rBV	921283	1154782	23.47%	4.931%
5	7.439	904	909	915	rBV	936786	1239591	25.19%	5.294%
6	7.528	918	924	935	rVB	76298	122746	2.49%	0.524%
7	8.163	1027	1032	1038	rBV	1110026	1426623	28.99%	6.092%
8	9.239	1209	1215	1220	rBV	1772086	2206427	44.84%	9.422%
9	9.927	1326	1332	1337	rBV	1092709	1428250	29.02%	6.099%
10	10.639	1448	1453	1460	rVB	414072	509655	10.36%	2.176%
11	10.716	1460	1466	1477	rBV	1178290	1512797	30.74%	6.460%
12	11.416	1580	1585	1591	rBV	981765	1282663	26.06%	5.477%
13	11.945	1670	1675	1690	rBV	359491	563459	11.45%	2.406%
14	12.733	1804	1809	1817	rBV	137214	225628	4.58%	0.964%
15	13.010	1850	1856	1861	rBV	1916720	2515363	51.11%	10.742%
16	13.915	2005	2010	2025	rBV2	90737	261859	5.32%	1.118%
17	14.068	2031	2036	2043	rVB	703134	913391	18.56%	3.901%
18	15.574	2286	2292	2306	rBV	428057	716217	14.55%	3.059%

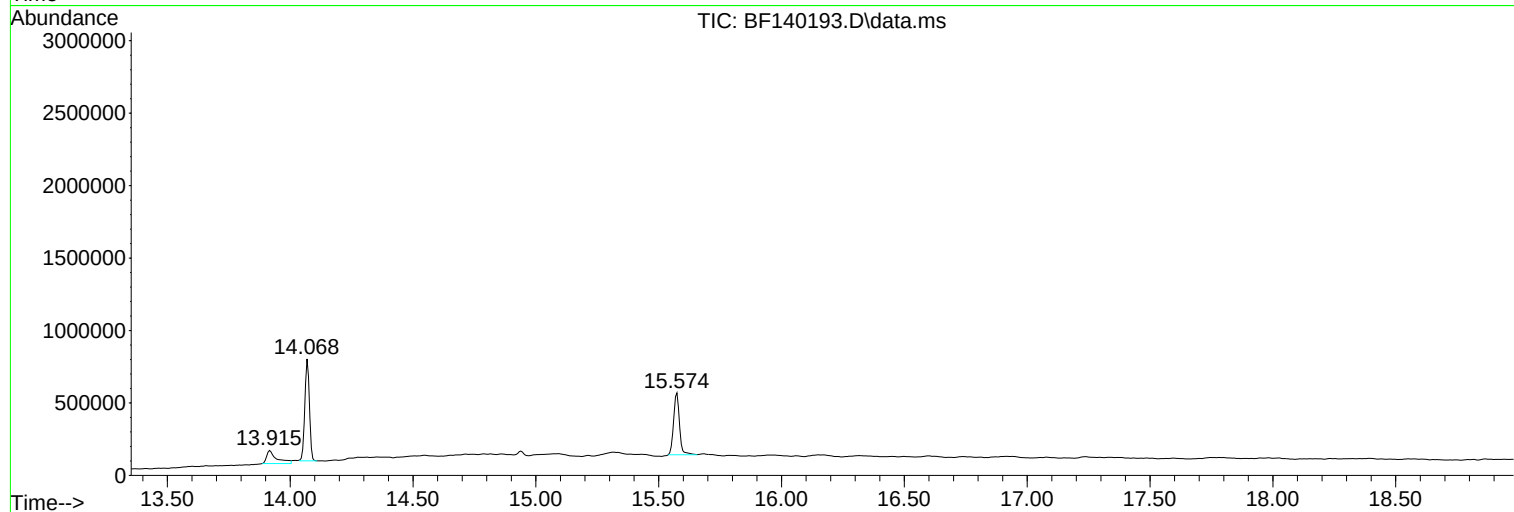
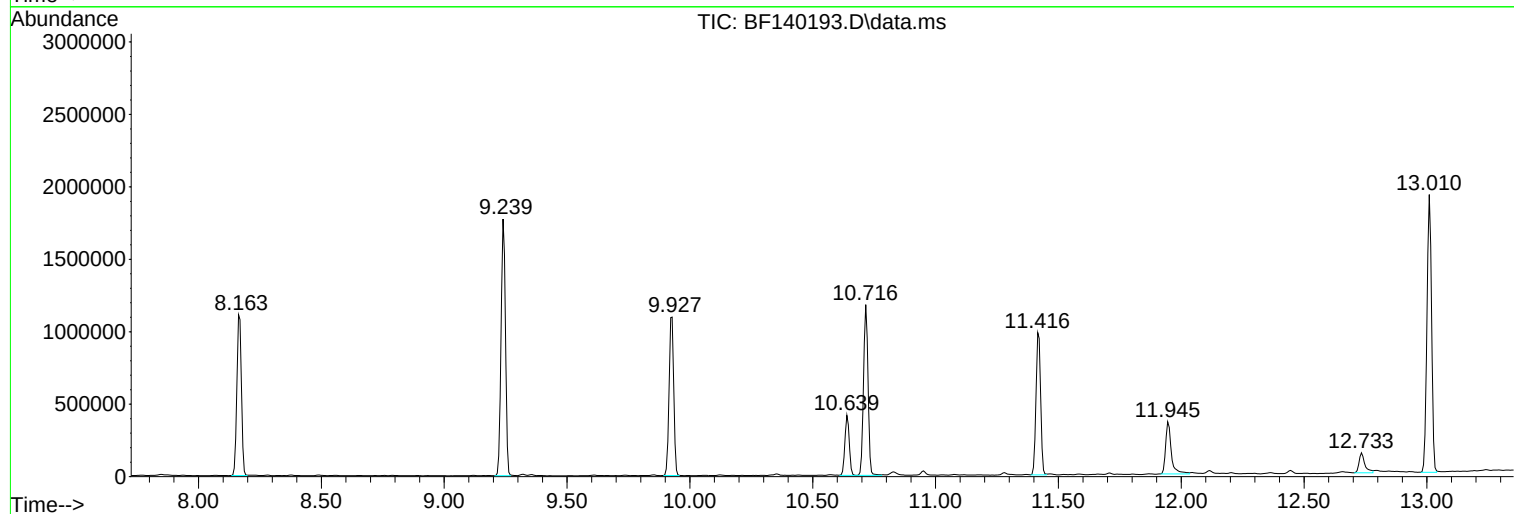
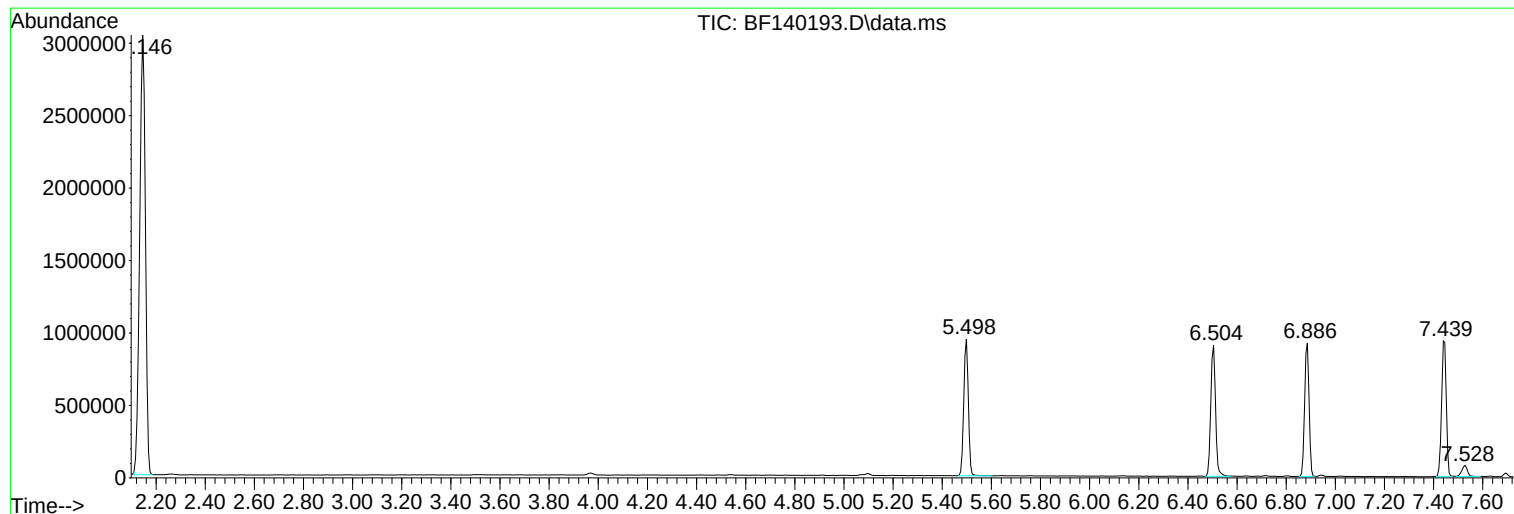
Sum of corrected areas: 23417170

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

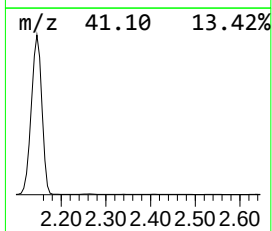
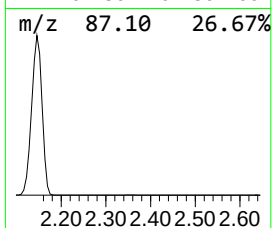
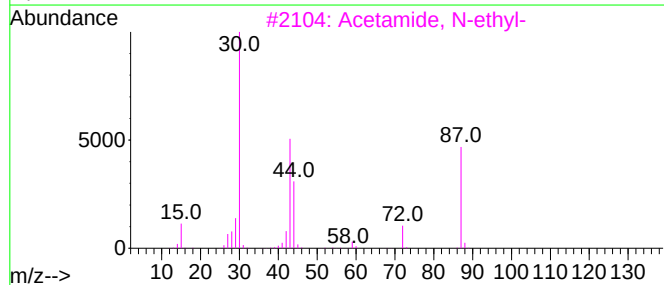
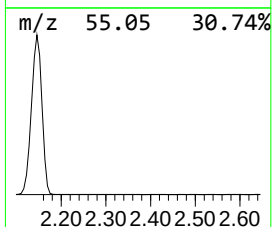
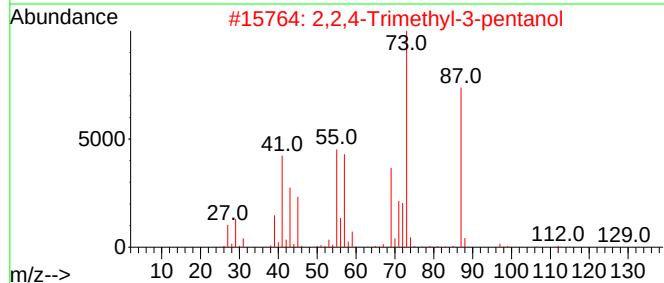
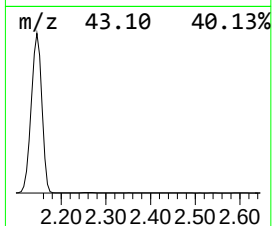
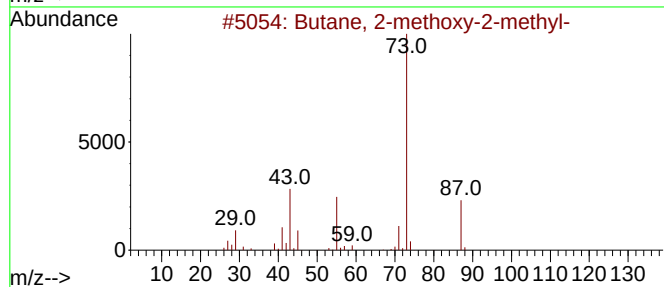
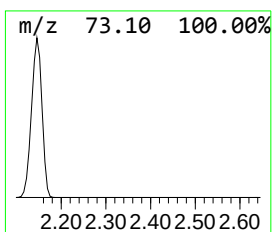
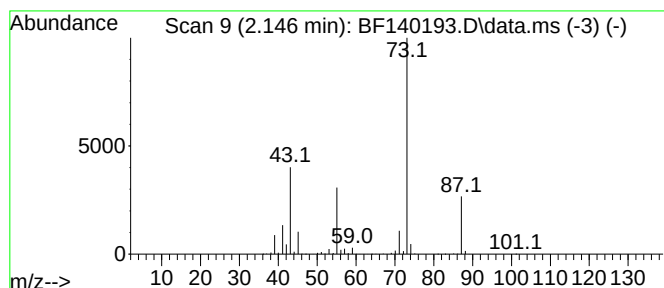
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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.
2.146	85.23 ng	4921170	1,4-Dichlorobenzene-d4	6.886

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\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

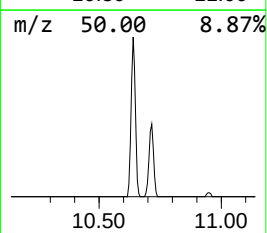
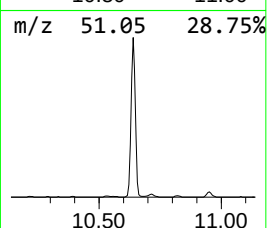
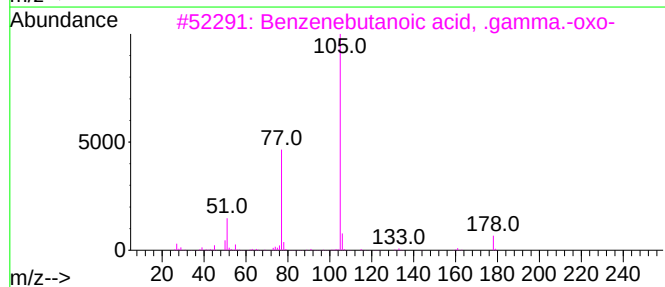
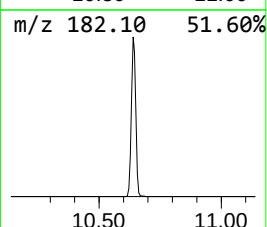
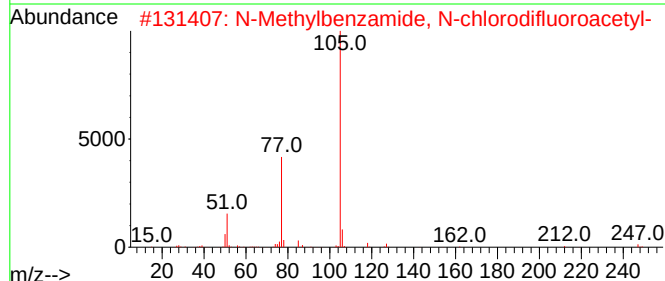
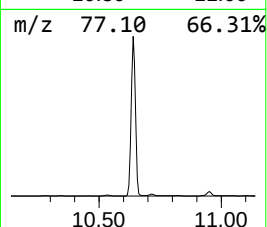
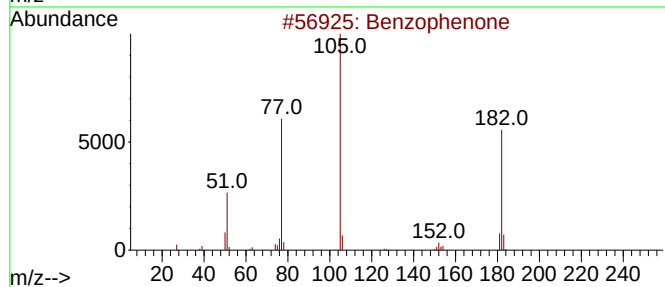
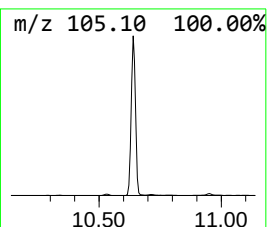
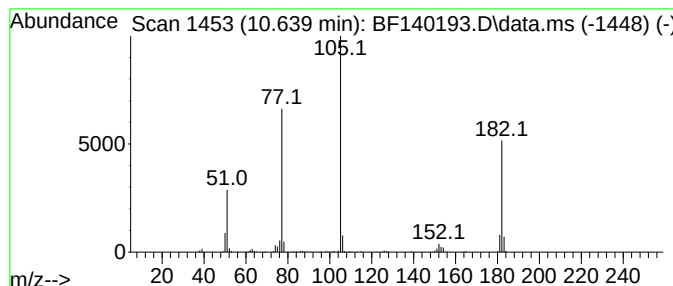
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.639	7.14 ng	509655	Acenaphthene-d10	9.927

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			N-Methylbenzamide, N-chlorodiflu...	247	C10H8ClF2NO2	1000446-98-2	47
3			Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47
4			Vinyl benzoate	148	C9H8O2	000769-78-8	47
5			N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

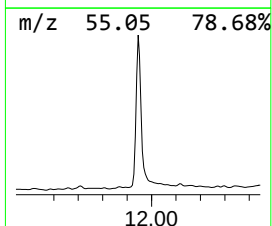
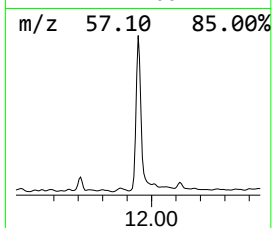
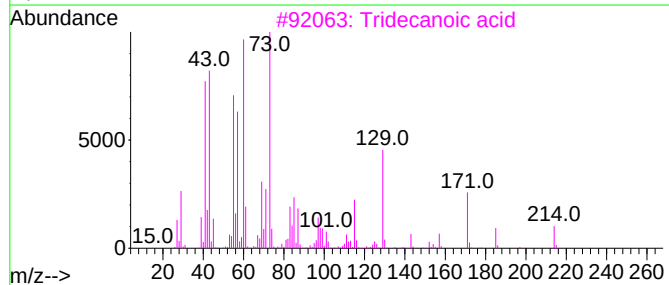
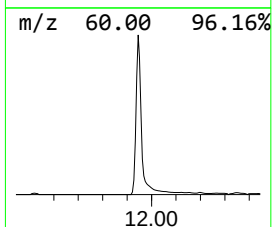
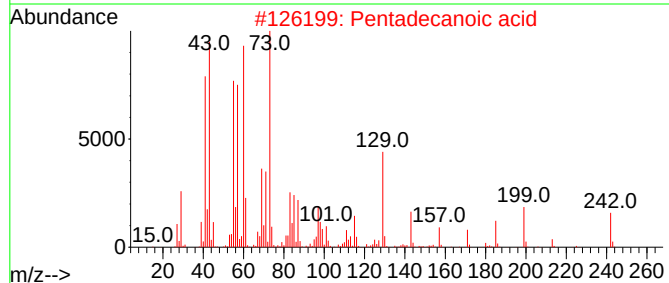
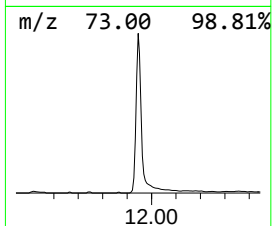
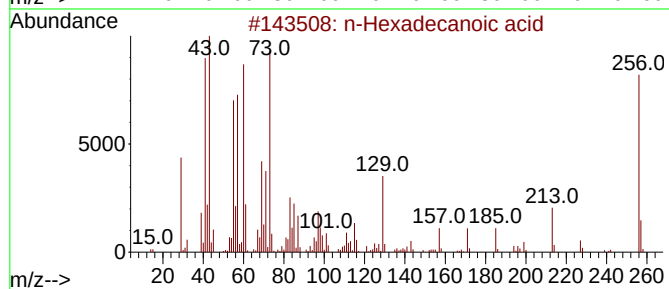
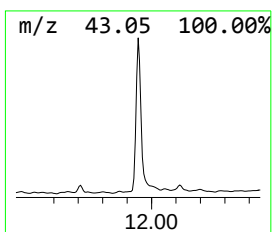
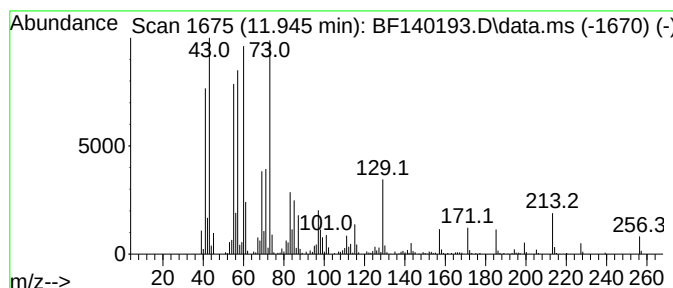
Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD		R.T.	
11.945	8.79 ng	563459	Phenanthrene-d10		11.416	
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	90
3	Tridecanoic acid		214	C13H26O2	000638-53-9	89
4	8-Methylnonanoic acid		172	C10H20O2	005963-14-4	78
5	Tetradecanoic acid		228	C14H28O2	000544-63-8	74



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

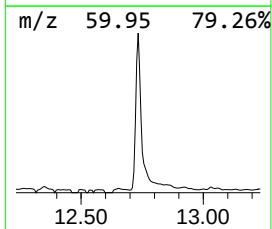
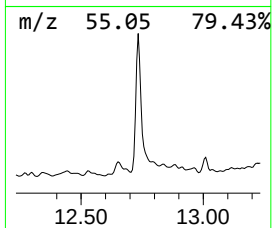
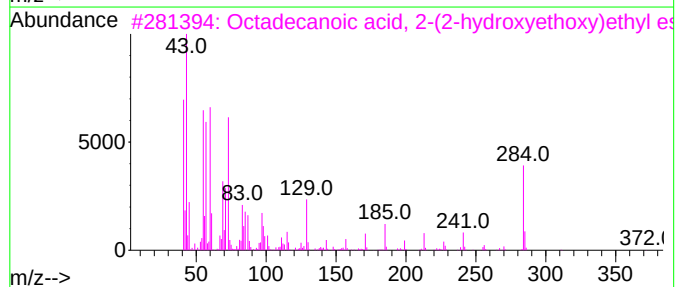
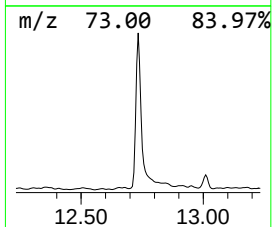
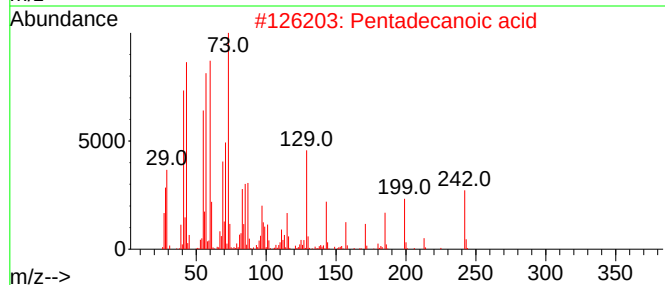
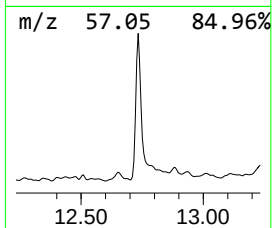
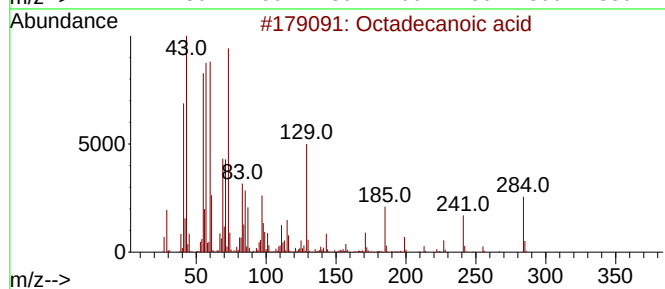
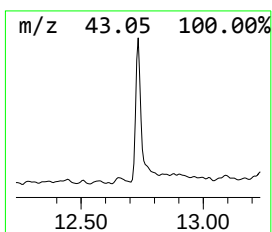
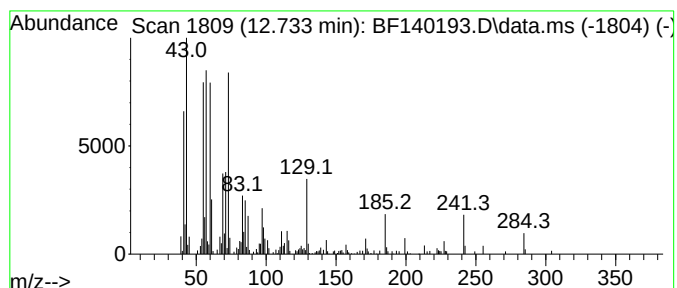
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Octadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.733	3.52 ng	225628	Phenanthrene-d10	11.416

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Octadecanoic acid	284	C18H36O2	000057-11-4	99
2		Pentadecanoic acid	242	C15H30O2	001002-84-2	89
3		Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	87
4		n-Hexadecanoic acid	256	C16H32O2	000057-10-3	74
5		Tetradecanoic acid	228	C14H28O2	000544-63-8	68



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

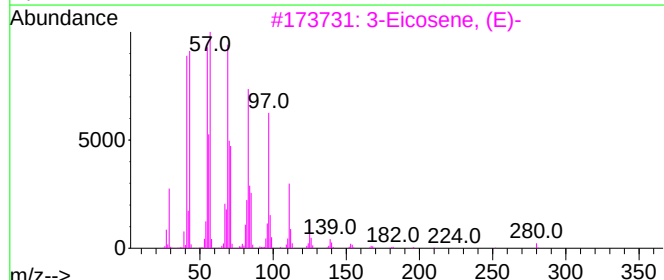
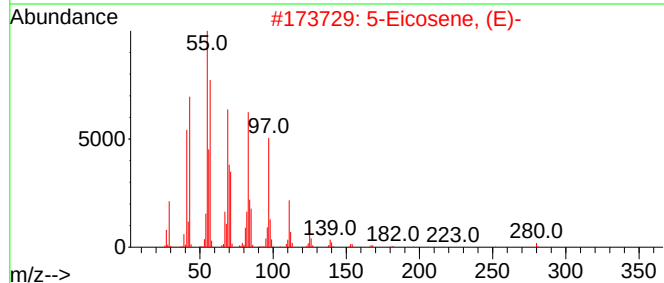
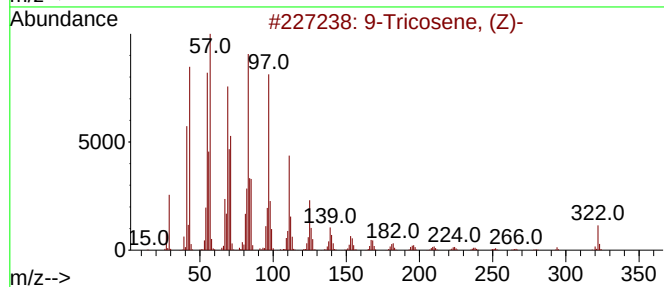
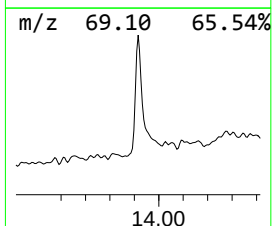
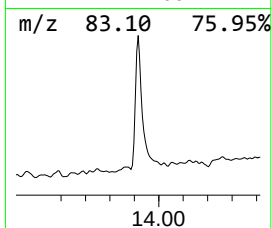
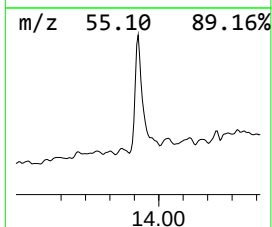
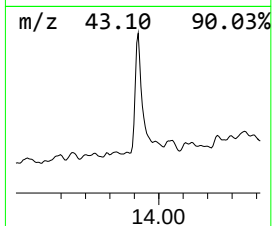
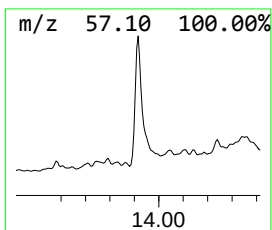
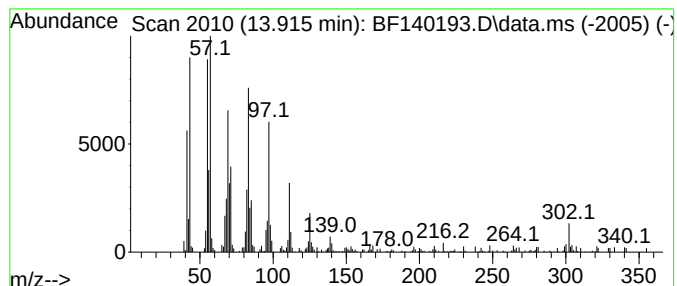
Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 9-Tricosene, (Z)- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.915	5.73 ng	261859	Chrysene-d12	14.068	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Tricosene, (Z)-	322	C23H46	027519-02-4	98
2	5-Eicosene, (E)-	280	C20H40	074685-30-6	97
3	3-Eicosene, (E)-	280	C20H40	074685-33-9	96
4	1-Tricosene	322	C23H46	018835-32-0	95
5	Henicos-1-ene	294	C21H42	001599-68-4	95



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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...	2.146	85.2	ng	4921170	1	6.886	1154780	20.0
Benzophenone	10.639	7.1	ng	509655	3	9.927	1428250	20.0
n-Hexadecanoic ...	11.945	8.8	ng	563459	4	11.416	1282660	20.0
Octadecanoic acid	12.733	3.5	ng	225628	4	11.416	1282660	20.0
9-Tricosene, (Z)-	13.915	5.7	ng	261859	5	14.068	913391	20.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SWRE	SDG No.:	P4578
Lab Sample ID:	P4578-01RE	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 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
BF140206.D	1	10/30/24 08:50	11/01/24 12:07	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.10	U	4.10	10.2	ug/L
108-95-2	Phenol	0.95	U	0.95	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.10	ug/L
95-57-8	2-Chlorophenol	0.72	U	0.72	5.10	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.10	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.10	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.10	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.10	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.10	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.90	U	0.90	5.10	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.10	ug/L
106-47-8	4-Chloroaniline	1.30	UQ	1.30	5.10	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.10	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	0.86	U	0.86	5.10	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	5.10	UQ	5.10	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	0.91	U	0.91	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.10	ug/L
92-52-4	1,1-Biphenyl	0.93	U	0.93	5.10	ug/L
91-58-7	2-Chloronaphthalene	0.99	U	0.99	5.10	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.10	ug/L
131-11-3	Dimethylphthalate	0.95	U	0.95	5.10	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SWRE	SDG No.:	P4578
Lab Sample ID:	P4578-01RE	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 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
BF140206.D	1	10/30/24 08:50	11/01/24 12:07	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.10	U	1.10	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.10	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.10	ug/L
83-32-9	Acenaphthene	0.83	U	0.83	5.10	ug/L
51-28-5	2,4-Dinitrophenol	6.60	U	6.60	10.2	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.2	ug/L
132-64-9	Dibenzofuran	0.95	U	0.95	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.10	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	1.00	5.10	ug/L
86-73-7	Fluorene	0.98	U	0.98	5.10	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	0.91	U	0.91	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	0.97	U	0.97	5.10	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.10	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.10	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.2	ug/L
85-01-8	Phenanthrene	0.91	U	0.91	5.10	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.10	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.10	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.10	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.10	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.2	ug/L
56-55-3	Benzo(a)anthracene	0.96	U	0.96	5.10	ug/L
218-01-9	Chrysene	0.88	U	0.88	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.10	ug/L
117-84-0	Di-n-octyl phthalate	2.60	U	2.60	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.10	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SWRE	SDG No.:	P4578
Lab Sample ID:	P4578-01RE	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 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
BF140206.D	1	10/30/24 08:50	11/01/24 12:07	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.10	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.10	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.81	U	0.81	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	14.1	*	15 (10) - 110 (139)	9%	SPK: 150
13127-88-3	Phenol-d6	13.2	*	15 (10) - 110 (134)	9%	SPK: 150
4165-60-0	Nitrobenzene-d5	17.3	*	30 (49) - 130 (133)	17%	SPK: 100
321-60-8	2-Fluorobiphenyl	17.1	*	30 (52) - 130 (132)	17%	SPK: 100
118-79-6	2,4,6-Tribromophenol	34.0		15 (44) - 110 (137)	23%	SPK: 150
1718-51-0	Terphenyl-d14	23.9	*	30 (48) - 130 (125)	24%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	222000		6.881		
1146-65-2	Naphthalene-d8	875000		8.163		
15067-26-2	Acenaphthene-d10	497000		9.922		
1517-22-2	Phenanthrene-d10	893000		11.416		
1719-03-5	Chrysene-d12	536000		14.068		
1520-96-3	Perylene-d12	445000		15.574		

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\BF110124\
Data File : BF140206.D
Acq On : 01 Nov 2024 12:07
Operator : RC/JU
Sample : P4578-01RE
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SWRE

Quant Time: Nov 01 12:39:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	221542	20.000	ng	-0.01
21) Naphthalene-d8	8.163	136	874676	20.000	ng	-0.01
39) Acenaphthene-d10	9.922	164	496865	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	893182	20.000	ng	0.00
76) Chrysene-d12	14.068	240	535712	20.000	ng	0.02
86) Perylene-d12	15.574	264	445221	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	397857	28.114	ng	0.00
7) Phenol-d6	6.498	99	483636	26.387	ng	-0.01
23) Nitrobenzene-d5	7.439	82	545652	34.575	ng	-0.01
42) 2,4,6-Tribromophenol	10.716	330	315662	67.921	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1027093	34.164	ng	-0.01
79) Terphenyl-d14	13.016	244	1571178	47.791	ng	0.02

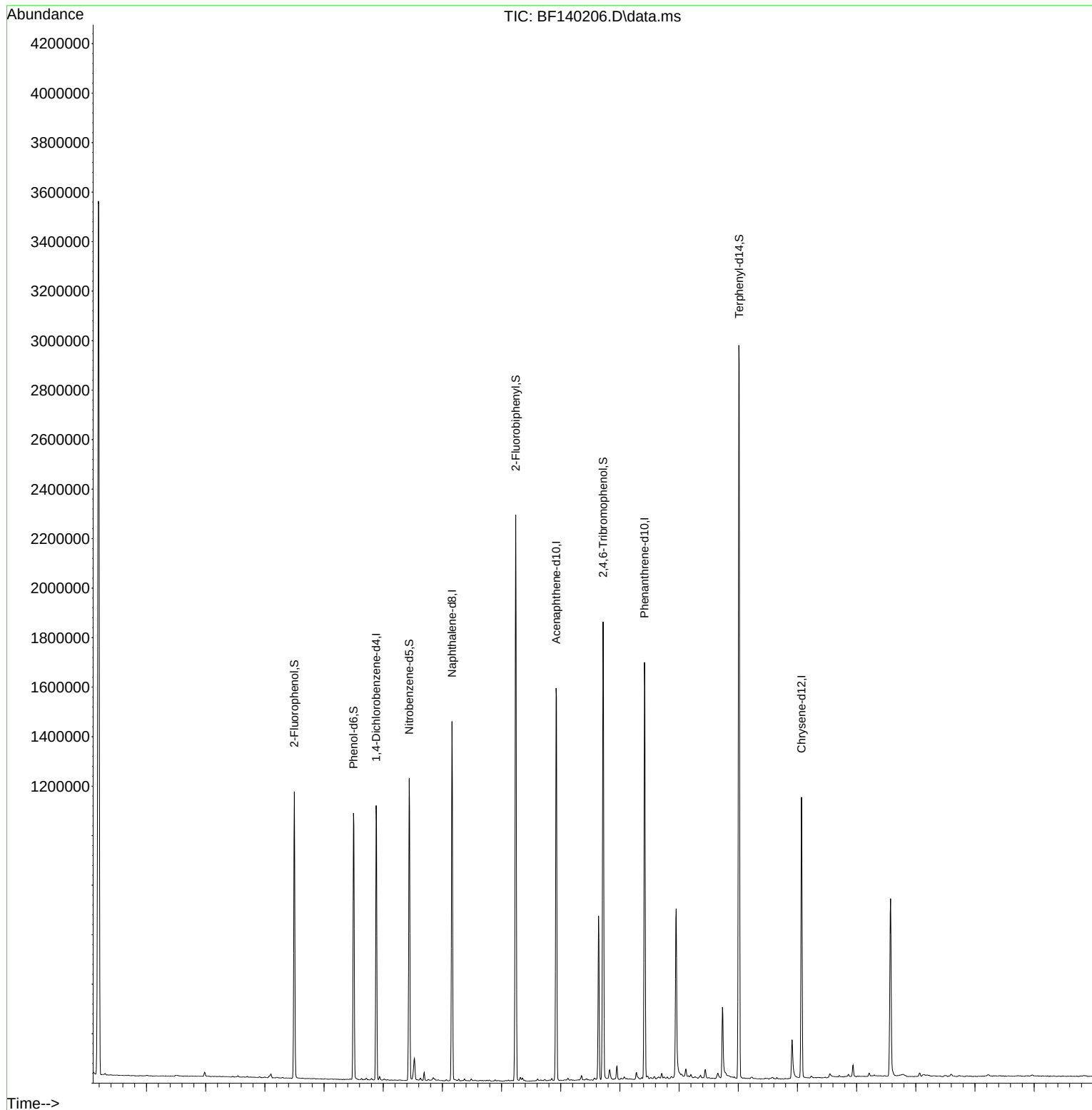
Target Compounds Qvalue

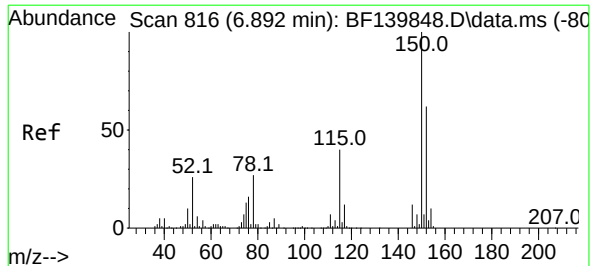
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140206.D
Acq On : 01 Nov 2024 12:07
Operator : RC/JU
Sample : P4578-01RE
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SWRE

Quant Time: Nov 01 12:39:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

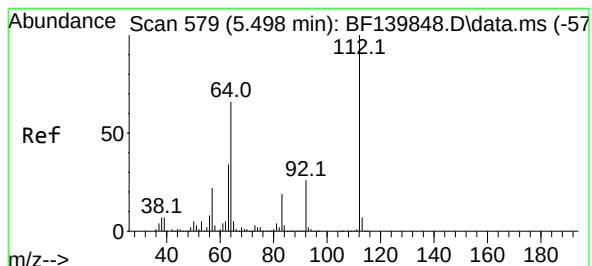
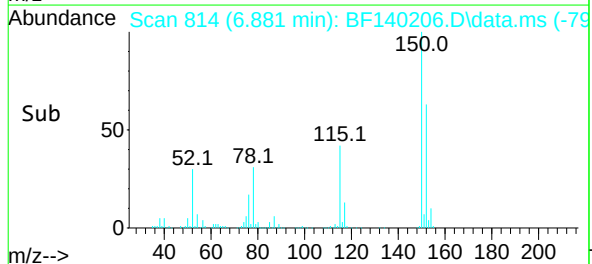
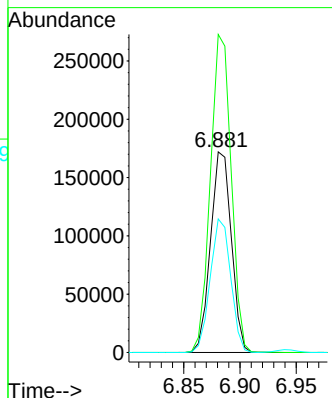
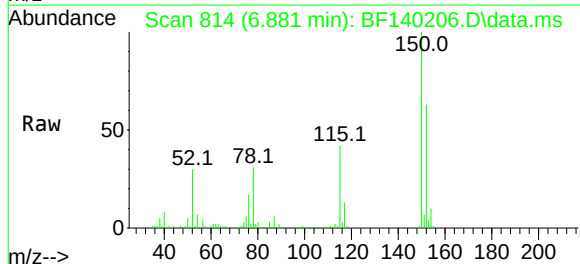




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 816
Delta R.T. -0.011 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

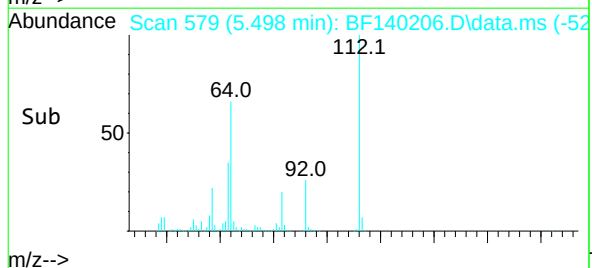
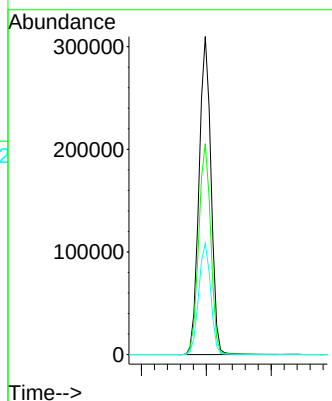
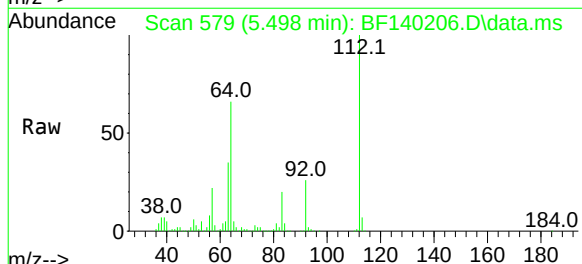
Instrument :
BNA_F
ClientSampleId :
WB-305-SWRE

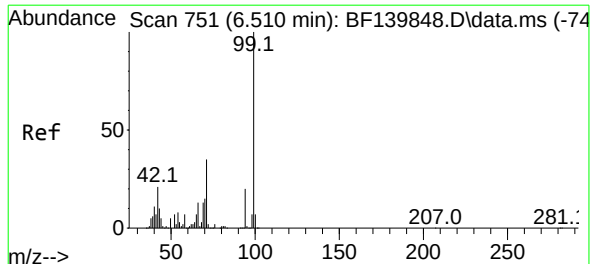
Tgt Ion:152 Resp: 221542
Ion Ratio Lower Upper
152 100
150 158.6 130.2 195.2
115 66.6 51.4 77.2



#5
2-Fluorophenol
Concen: 28.114 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.000 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Tgt Ion:112 Resp: 397857
Ion Ratio Lower Upper
112 100
64 66.3 53.0 79.6
63 35.0 27.0 40.4





#7

Phenol-d6

Concen: 26.387 ng

RT: 6.498 min Scan# 74

Delta R.T. -0.012 min

Lab File: BF140206.D

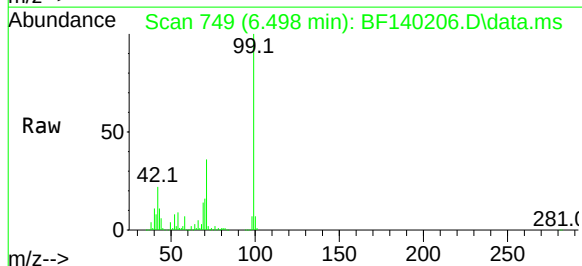
Acq: 01 Nov 2024 12:07

Instrument :

BNA_F

ClientSampleId :

WB-305-SWRE



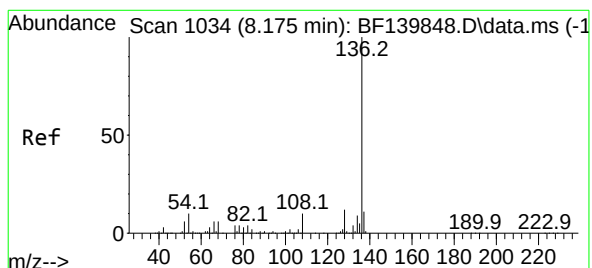
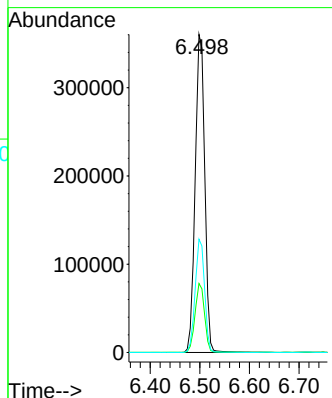
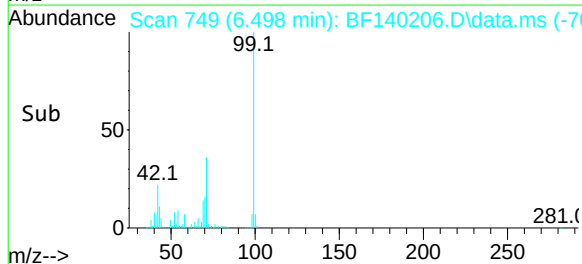
Tgt Ion: 99 Resp: 483636

Ion Ratio Lower Upper

99 100

42 21.7 16.7 25.1

71 35.6 27.7 41.5



#21

Naphthalene-d8

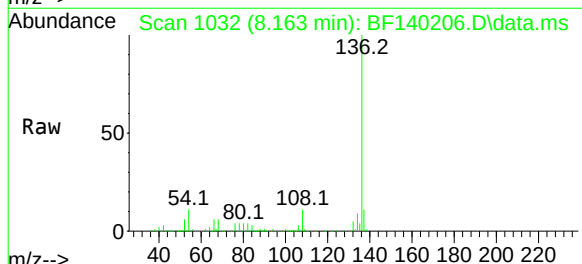
Concen: 20.000 ng

RT: 8.163 min Scan# 1032

Delta R.T. -0.012 min

Lab File: BF140206.D

Acq: 01 Nov 2024 12:07



Tgt Ion: 136 Resp: 874676

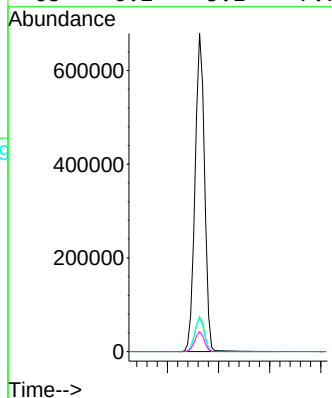
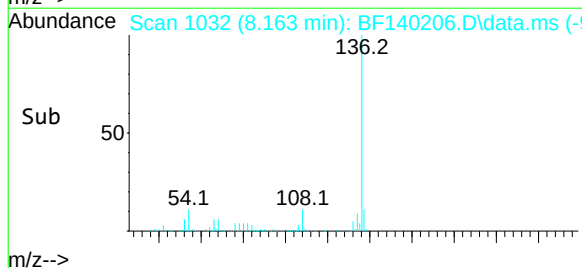
Ion Ratio Lower Upper

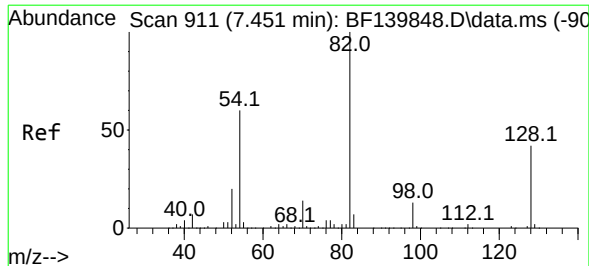
136 100

137 11.0 8.6 12.8

54 10.6 8.4 12.6

68 6.2 5.1 7.7





#23

Nitrobenzene-d5

Concen: 34.575 ng

RT: 7.439 min Scan# 90

Delta R.T. -0.012 min

Lab File: BF140206.D

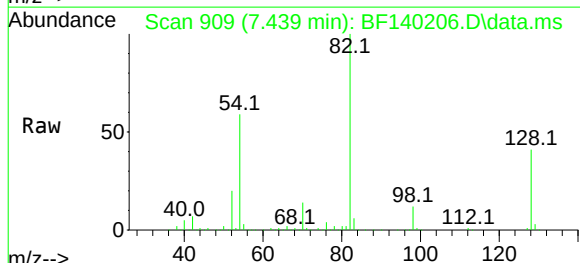
Acq: 01 Nov 2024 12:07

Instrument :

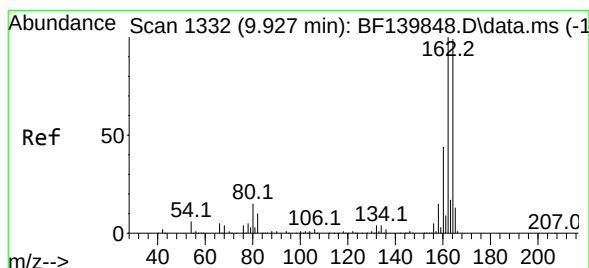
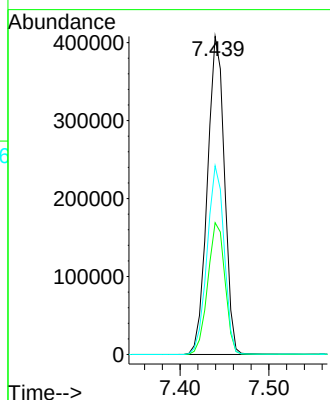
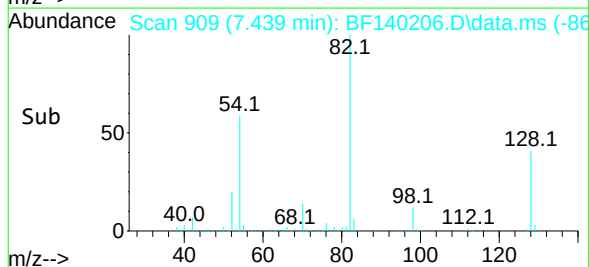
BNA_F

ClientSampleId :

WB-305-SWRE



Tgt Ion:	82	Resp:	545652
Ion	Ratio	Lower	Upper
82	100		
128	41.4	33.4	50.0
54	59.3	47.8	71.8



#39

Acenaphthene-d10

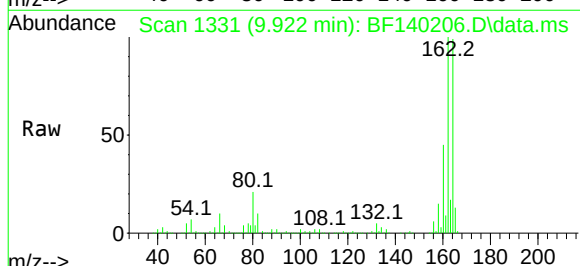
Concen: 20.000 ng

RT: 9.922 min Scan# 1331

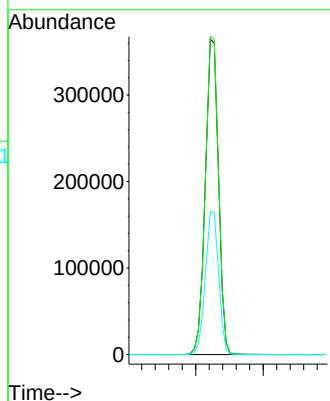
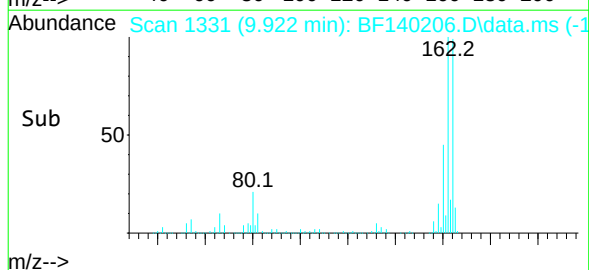
Delta R.T. -0.005 min

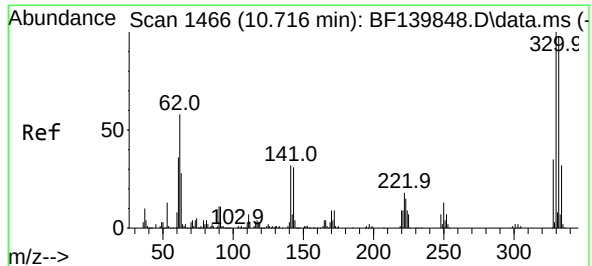
Lab File: BF140206.D

Acq: 01 Nov 2024 12:07



Tgt Ion:	164	Resp:	496865
Ion	Ratio	Lower	Upper
164	100		
162	100.8	81.0	121.4
160	45.3	35.4	53.0





#42

2,4,6-Tribromophenol

Concen: 67.921 ng

RT: 10.716 min Scan# 1466

Delta R.T. 0.000 min

Lab File: BF140206.D

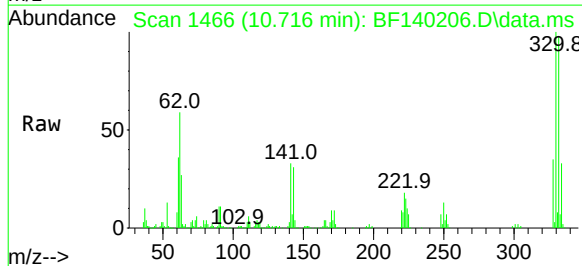
Acq: 01 Nov 2024 12:07

Instrument :

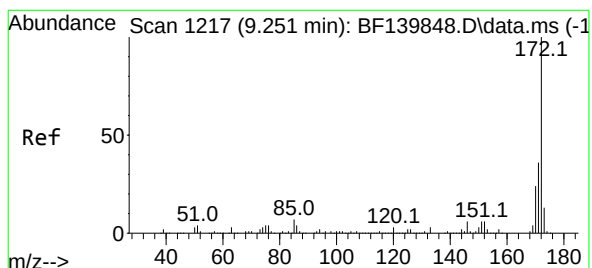
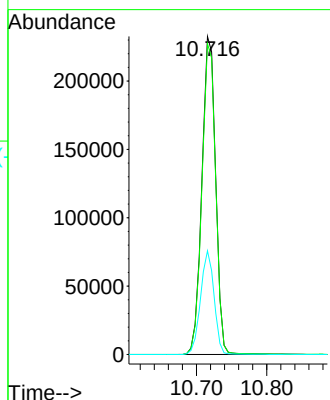
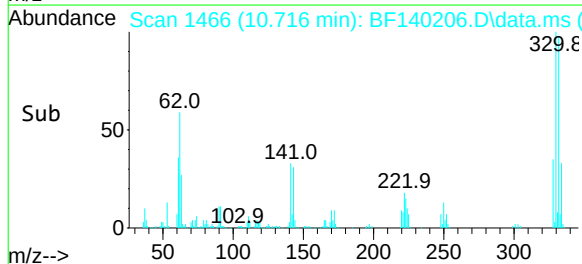
BNA_F

ClientSampleId :

WB-305-SWRE



Tgt Ion:	330	Resp:	315662
Ion Ratio	Lower	Upper	
330	100		
332	97.7	78.1	117.1
141	32.1	26.6	39.8



#45

2-Fluorobiphenyl

Concen: 34.164 ng

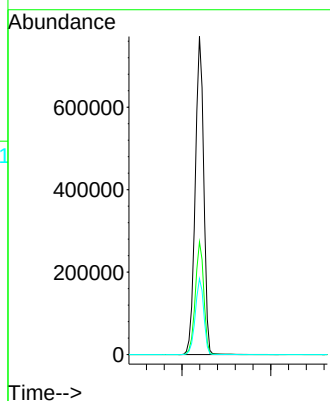
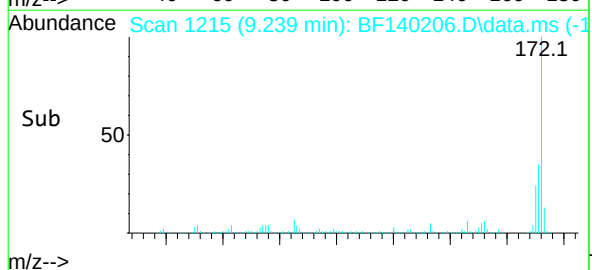
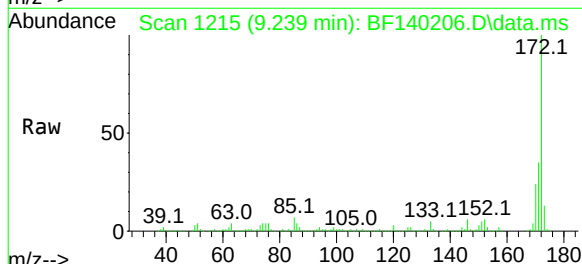
RT: 9.239 min Scan# 1215

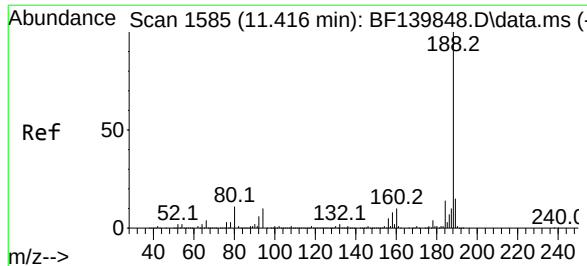
Delta R.T. -0.012 min

Lab File: BF140206.D

Acq: 01 Nov 2024 12:07

Tgt Ion:	172	Resp:	1027093
Ion Ratio	Lower	Upper	
172	100		
171	35.4	28.6	43.0
170	23.9	19.1	28.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.416 min Scan# 15

Delta R.T. 0.000 min

Lab File: BF140206.D

Acq: 01 Nov 2024 12:07

Instrument :

BNA_F

ClientSampleId :

WB-305-SWRE

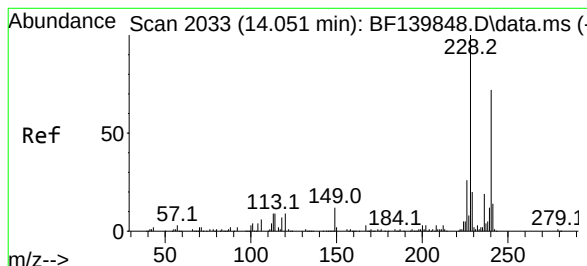
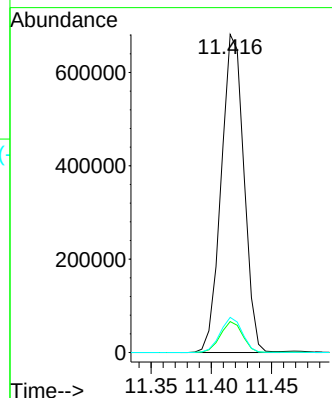
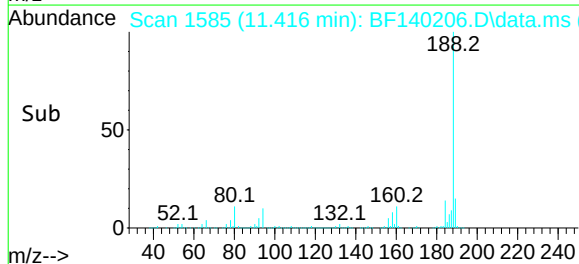
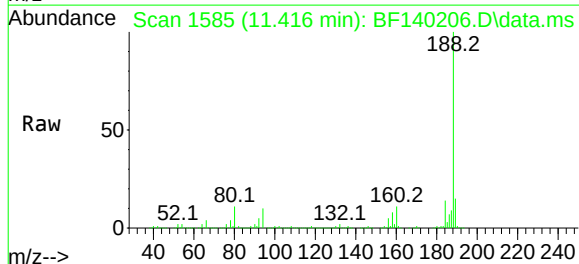
Tgt Ion:188 Resp: 893182

Ion Ratio Lower Upper

188 100

94 9.7 7.9 11.9

80 11.0 9.0 13.4



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.068 min Scan# 2036

Delta R.T. 0.018 min

Lab File: BF140206.D

Acq: 01 Nov 2024 12:07

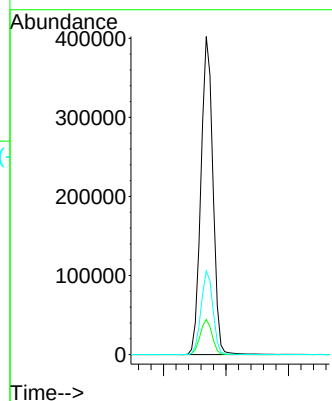
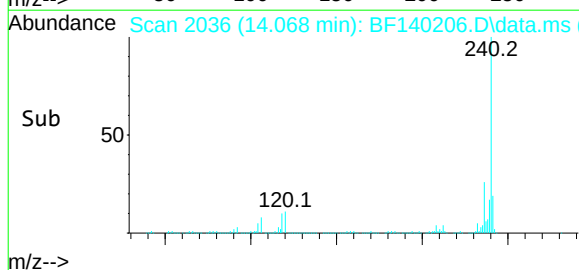
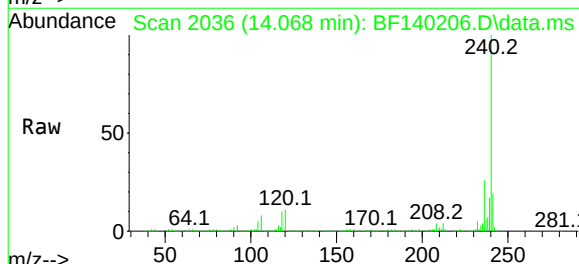
Tgt Ion:240 Resp: 535712

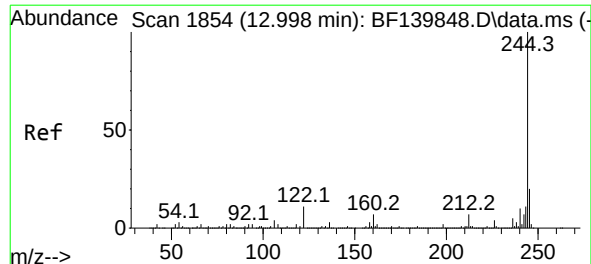
Ion Ratio Lower Upper

240 100

120 11.0 9.4 14.2

236 26.3 20.9 31.3





#79

Terphenyl-d14

Concen: 47.791 ng

RT: 13.016 min Scan# 18

Delta R.T. 0.018 min

Lab File: BF140206.D

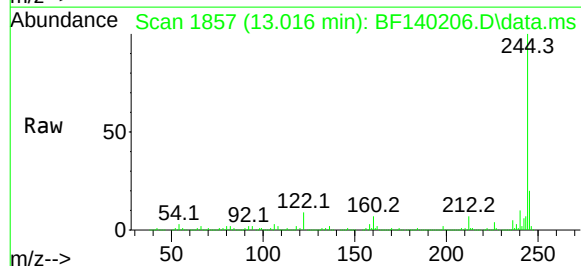
Acq: 01 Nov 2024 12:07

Instrument :

BNA_F

ClientSampleId :

WB-305-SWRE



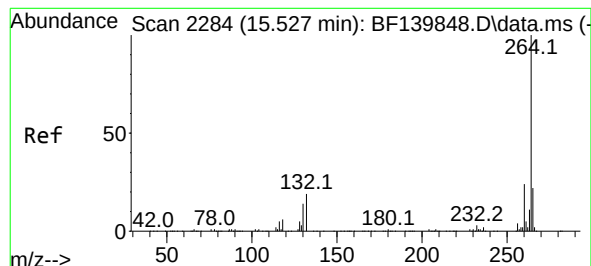
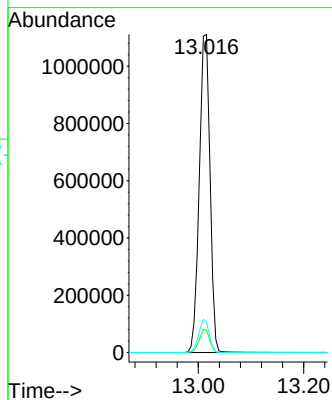
Tgt Ion:244 Resp: 1571178

Ion Ratio Lower Upper

244 100

212 7.0 5.7 8.5

122 9.5 8.6 13.0



#86

Perylene-d12

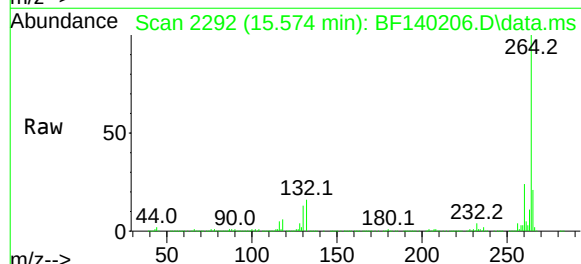
Concen: 20.000 ng

RT: 15.574 min Scan# 2292

Delta R.T. 0.047 min

Lab File: BF140206.D

Acq: 01 Nov 2024 12:07



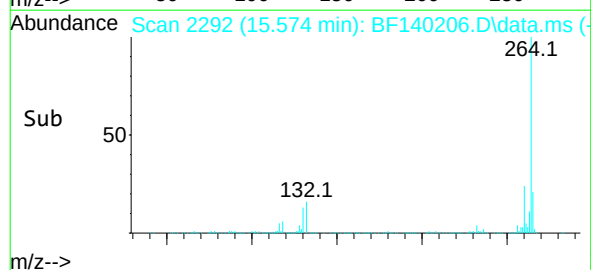
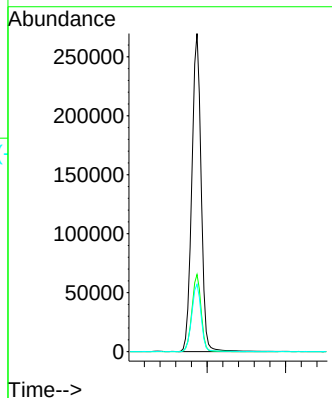
Tgt Ion:264 Resp: 445221

Ion Ratio Lower Upper

264 100

260 24.2 19.4 29.2

265 21.2 17.4 26.0



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 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
BE101433.D	1	10/30/24 08:50	10/31/24 15:14	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.10	U	4.10	10.2	ug/L
108-95-2	Phenol	0.95	U	0.95	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.10	ug/L
95-57-8	2-Chlorophenol	0.72	U	0.72	5.10	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.10	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.10	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.10	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.10	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.10	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.90	U	0.90	5.10	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.10	ug/L
106-47-8	4-Chloroaniline	1.30	UQ	1.30	5.10	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.10	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	0.86	U	0.86	5.10	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	5.10	UQ	5.10	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	0.91	U	0.91	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.10	ug/L
92-52-4	1,1-Biphenyl	0.93	U	0.93	5.10	ug/L
91-58-7	2-Chloronaphthalene	0.99	U	0.99	5.10	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.10	ug/L
131-11-3	Dimethylphthalate	0.95	U	0.95	5.10	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 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
BE101433.D	1	10/30/24 08:50	10/31/24 15:14	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.10	U	1.10	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.10	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.10	ug/L
83-32-9	Acenaphthene	0.83	U	0.83	5.10	ug/L
51-28-5	2,4-Dinitrophenol	6.60	U	6.60	10.2	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.2	ug/L
132-64-9	Dibenzofuran	0.95	U	0.95	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.10	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	1.00	5.10	ug/L
86-73-7	Fluorene	0.98	U	0.98	5.10	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	0.91	U	0.91	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	0.97	U	0.97	5.10	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.10	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.10	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.2	ug/L
85-01-8	Phenanthrene	0.91	U	0.91	5.10	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.10	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.10	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.10	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.10	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.2	ug/L
56-55-3	Benzo(a)anthracene	0.96	U	0.96	5.10	ug/L
218-01-9	Chrysene	0.88	U	0.88	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.10	ug/L
117-84-0	Di-n-octyl phthalate	2.60	U	2.60	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.10	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 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
BE101433.D	1	10/30/24 08:50	10/31/24 15:14	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.10	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.10	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.81	U	0.81	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	22.4		15 (10) - 110 (139)	30%	SPK: 75
13127-88-3	Phenol-d6	18.1		15 (10) - 110 (134)	24%	SPK: 75
4165-60-0	Nitrobenzene-d5	21.6		30 (49) - 130 (133)	43%	SPK: 50
321-60-8	2-Fluorobiphenyl	22.9		30 (52) - 130 (132)	46%	SPK: 50
118-79-6	2,4,6-Tribromophenol	43.4		15 (44) - 110 (137)	58%	SPK: 75
1718-51-0	Terphenyl-d14	26.5		30 (48) - 130 (125)	53%	SPK: 50
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	150000	7.571			
1146-65-2	Naphthalene-d8	662000	10.338			
15067-26-2	Acenaphthene-d10	470000	14.175			
1517-22-2	Phenanthrene-d10	1210000	16.913			
1719-03-5	Chrysene-d12	1600000	21.072			
1520-96-3	Perylene-d12	2060000	23.364			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	110	J		2.87	ug/L
000119-61-9	Benzophenone	7.30	J		15.5	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 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
BE101433.D	1	10/30/24 08:50	10/31/24 15:14	PB164533

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_E\Data\BE103124\
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Quant Time: Oct 31 16:41:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.571	152	150057	20.000	ng	0.00
21) Naphthalene-d8	10.338	136	662069	20.000	ng	0.00
39) Acenaphthene-d10	14.175	164	470146	20.000	ng	0.00
64) Phenanthrene-d10	16.913	188	1206173	20.000	ng	0.00
76) Chrysene-d12	21.072	240	1598005	20.000	ng	0.00
86) Perylene-d12	23.364	264	2061054	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.314	112	383093	44.745	ng	0.00
7) Phenol-d6	6.942	99	429715	36.197	ng	0.00
23) Nitrobenzene-d5	8.781	82	456426	43.300	ng	0.00
42) 2,4,6-Tribromophenol	15.685	330	715545	86.836	ng	0.00
45) 2-Fluorobiphenyl	12.800	172	1268778	45.703	ng	0.00
79) Terphenyl-d14	19.509	244	3678322	52.978	ng	0.00

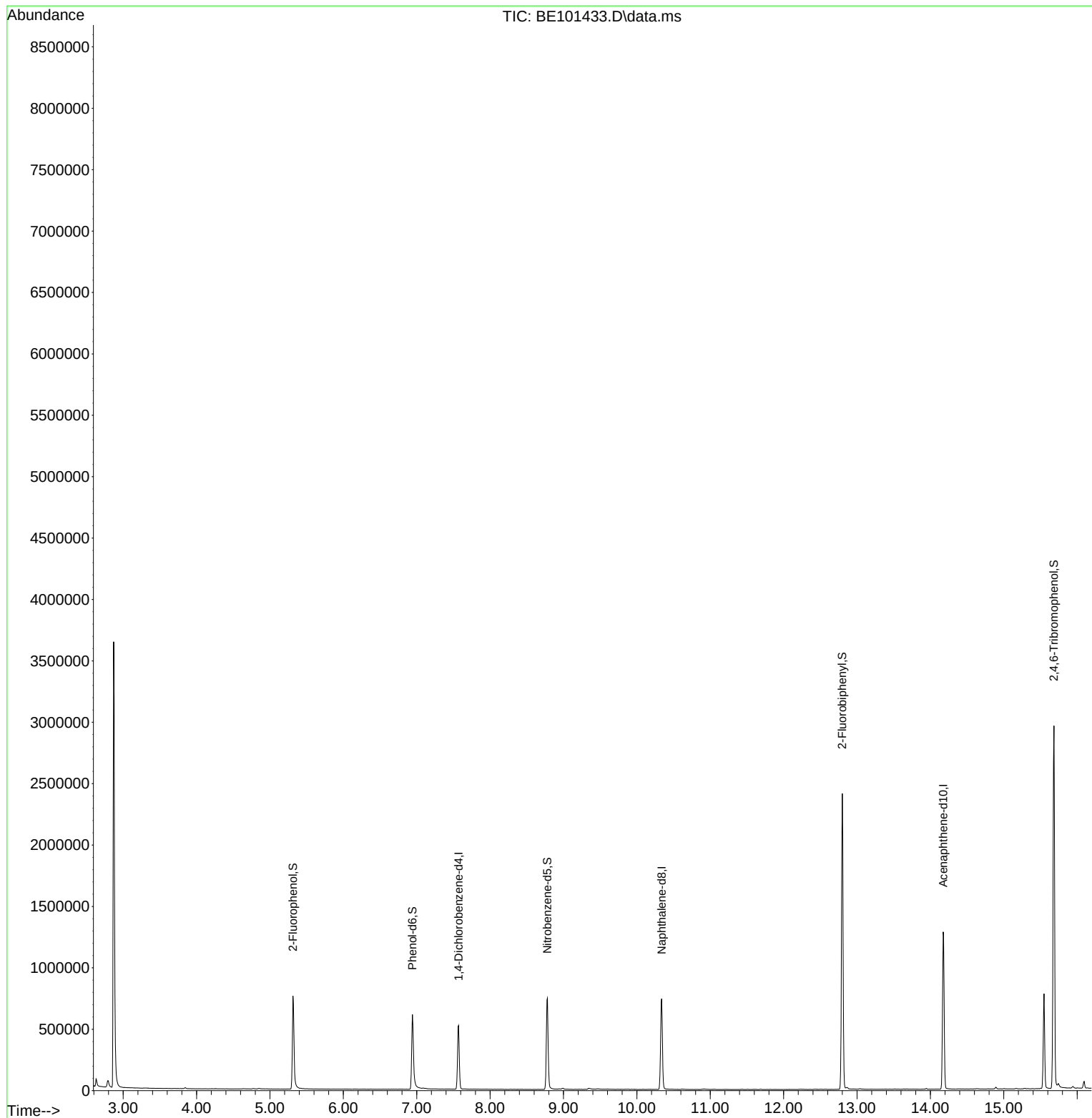
Target Compounds	Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

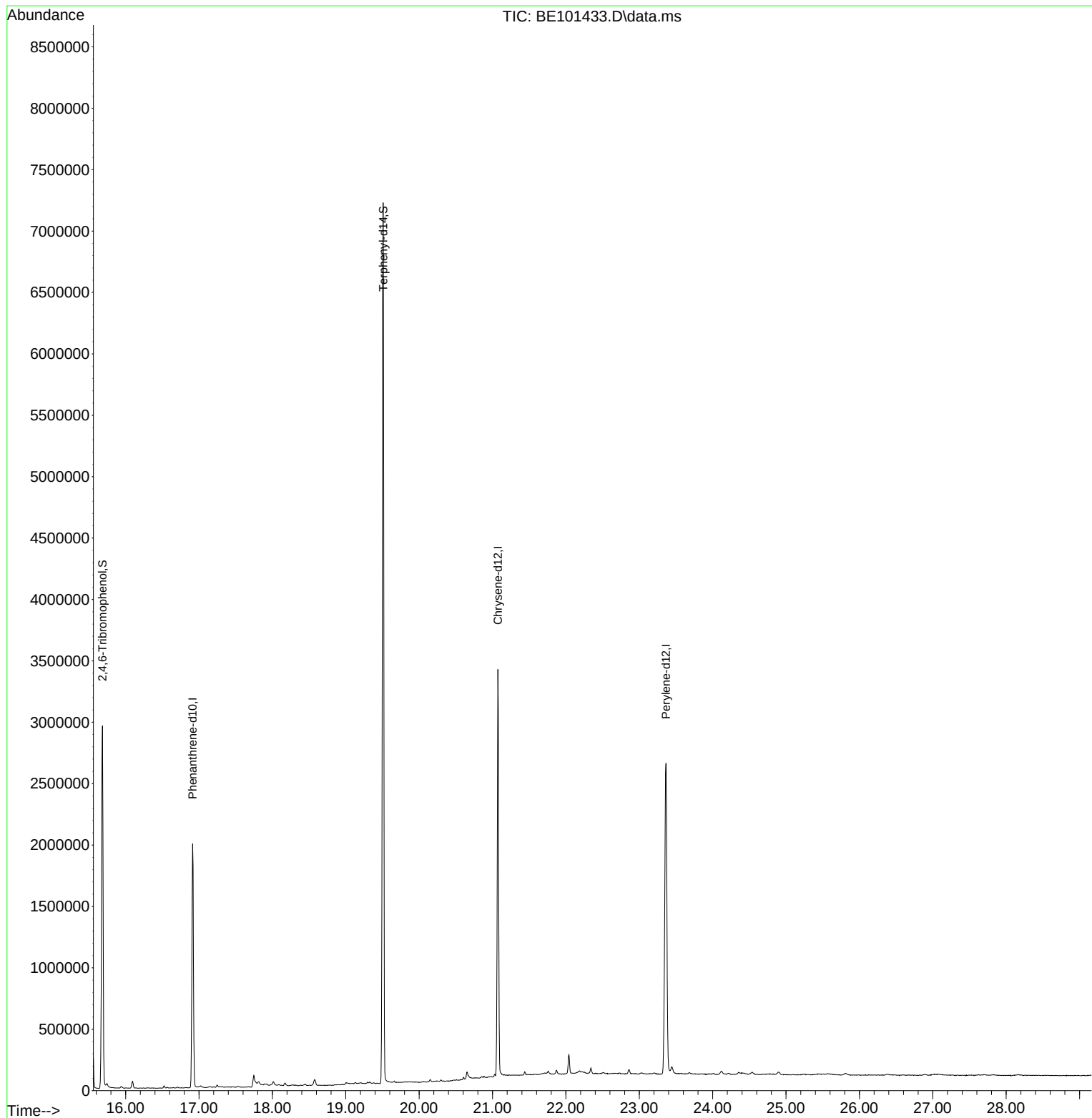
Quant Time: Oct 31 16:41:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

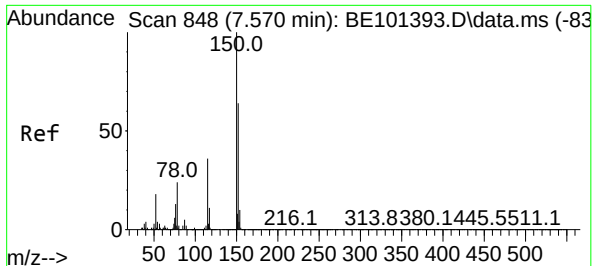


Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Quant Time: Oct 31 16:41:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

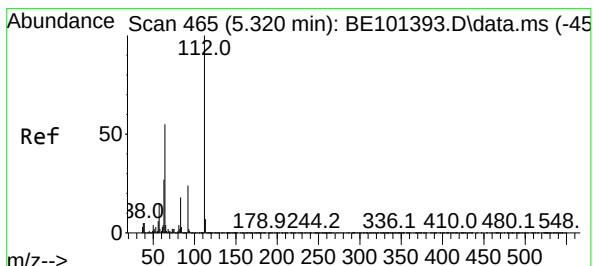
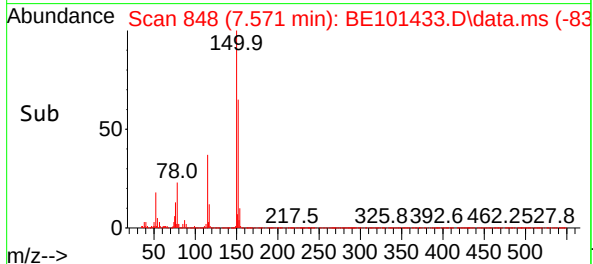
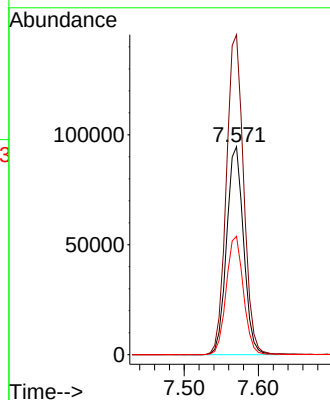
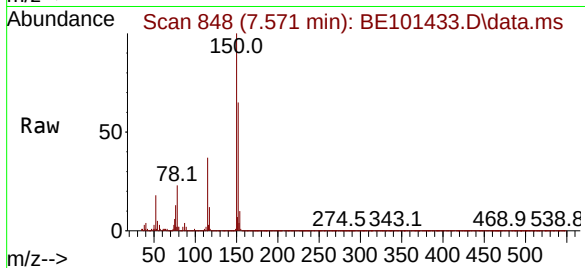




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.571 min Scan# 84
Delta R.T. 0.001 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

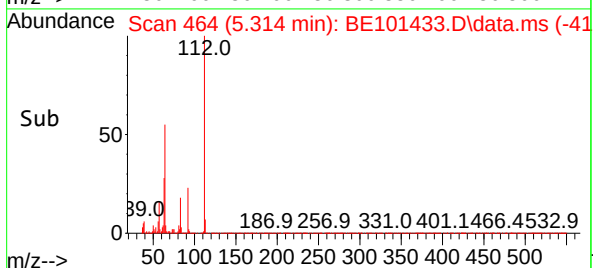
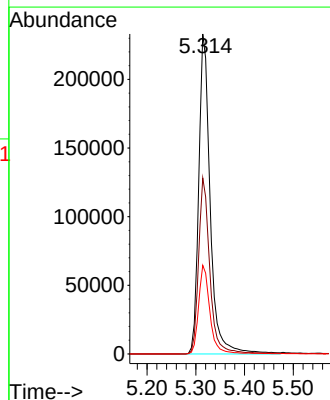
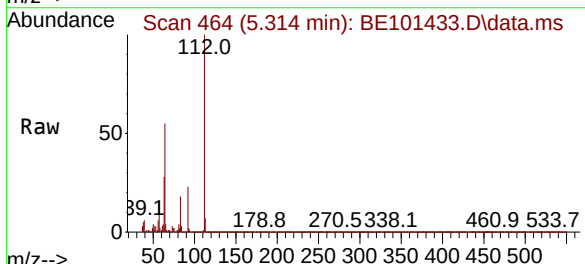
Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

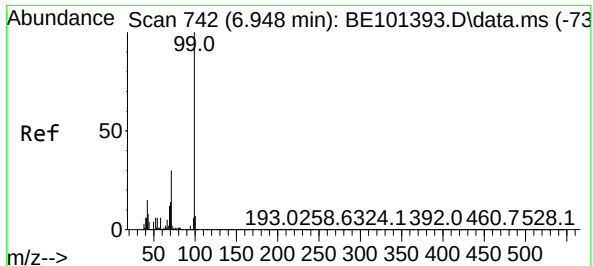
Tgt Ion:152 Resp: 150057
Ion Ratio Lower Upper
152 100
150 153.9 124.2 186.4
115 57.0 45.3 67.9



#5
2-Fluorophenol
Concen: 44.745 ng
RT: 5.314 min Scan# 464
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Tgt Ion:112 Resp: 383093
Ion Ratio Lower Upper
112 100
64 55.0 43.7 65.5
63 27.7 21.4 32.2





#7

Phenol-d6

Concen: 36.197 ng

RT: 6.942 min Scan# 742

Delta R.T. -0.006 min

Lab File: BE101433.D

Acq: 31 Oct 2024 15:14

Instrument :

BNA_E

ClientSampleId :

WB-305-SW-1

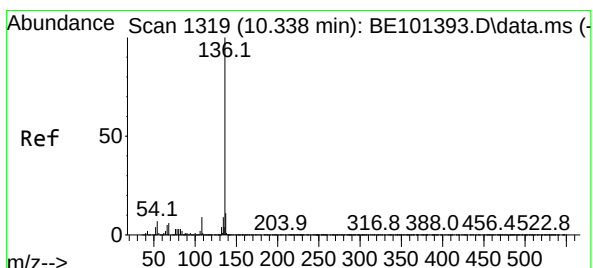
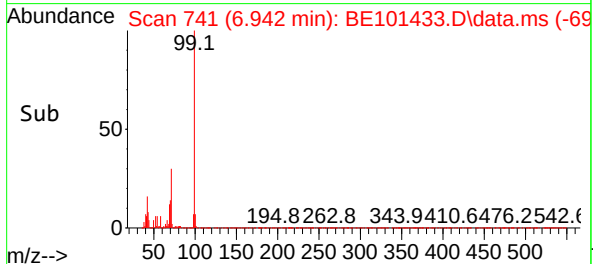
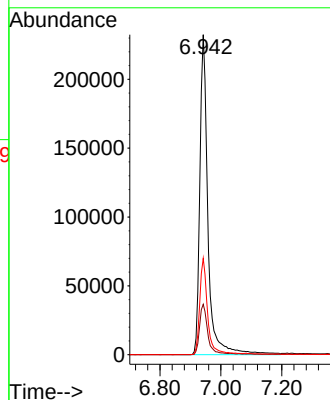
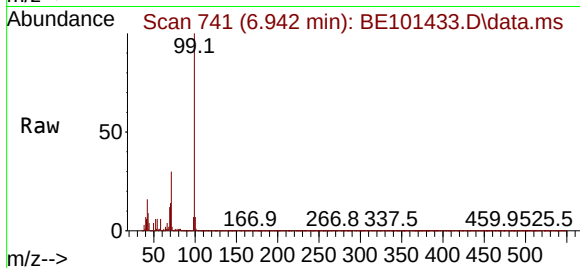
Tgt Ion: 99 Resp: 429715

Ion Ratio Lower Upper

99 100

42 15.7 12.3 18.5

71 30.1 23.8 35.8



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.338 min Scan# 1319

Delta R.T. 0.000 min

Lab File: BE101433.D

Acq: 31 Oct 2024 15:14

Tgt Ion:136 Resp: 662069

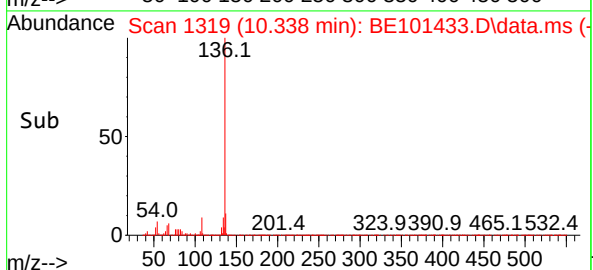
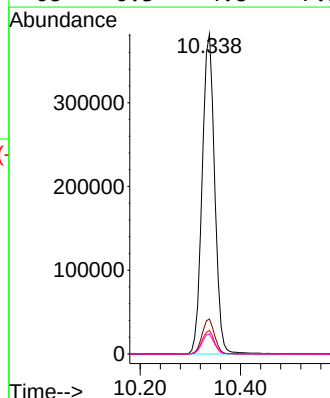
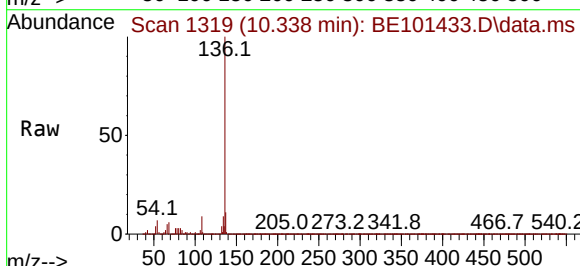
Ion Ratio Lower Upper

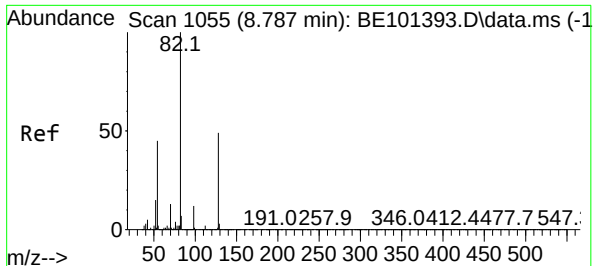
136 100

137 10.9 9.0 13.6

54 7.3 5.9 8.9

68 6.3 4.8 7.2

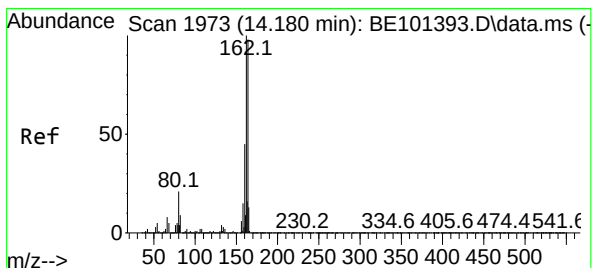
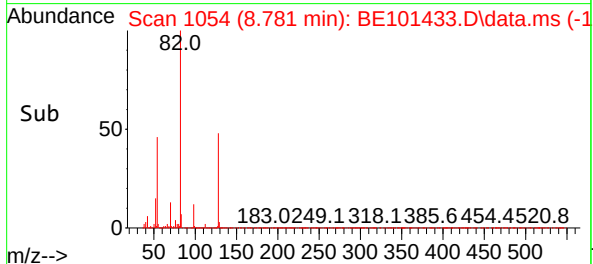
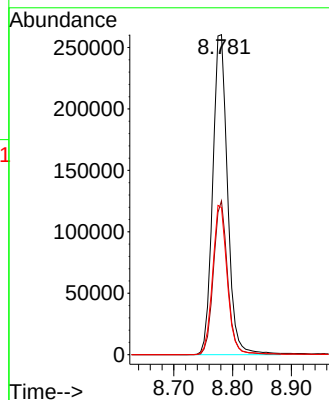
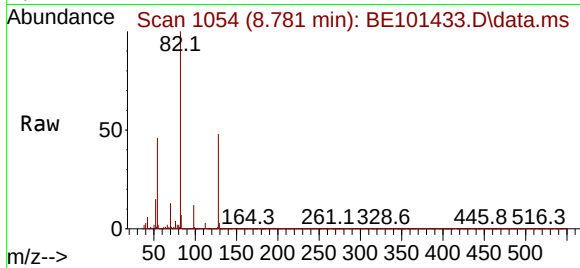




#23
Nitrobenzene-d5
Concen: 43.300 ng
RT: 8.781 min Scan# 1055
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

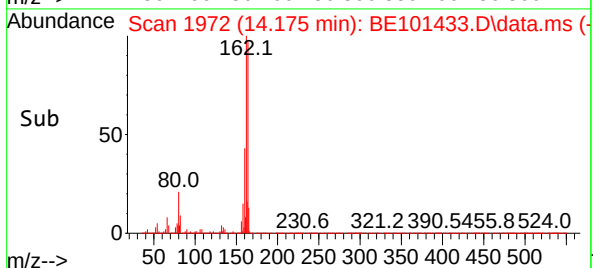
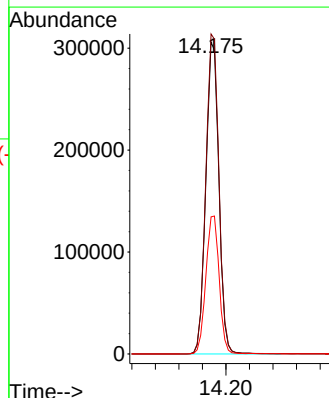
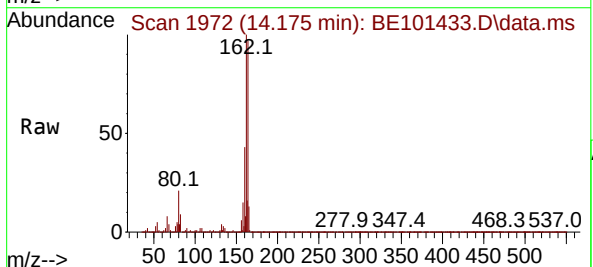
Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

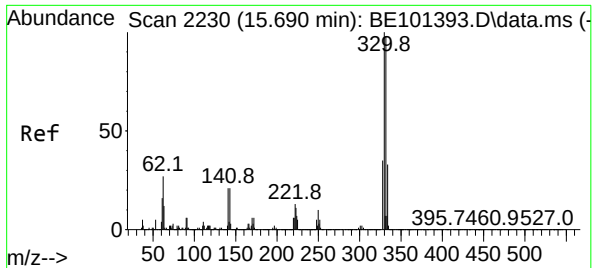
Tgt Ion: 82 Resp: 456426
Ion Ratio Lower Upper
82 100
128 48.1 38.9 58.3
54 46.0 36.2 54.4



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.175 min Scan# 1972
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Tgt Ion: 164 Resp: 470146
Ion Ratio Lower Upper
164 100
162 102.7 81.3 121.9
160 44.0 36.4 54.6

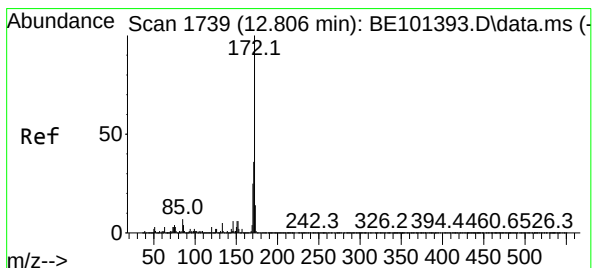
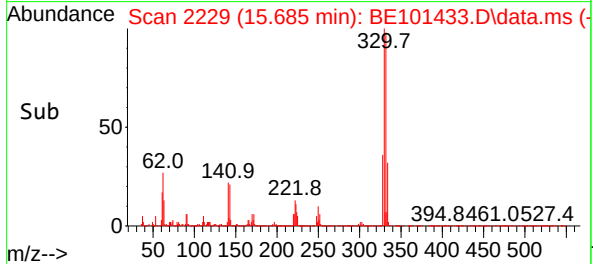
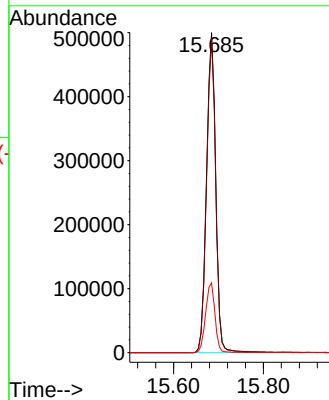
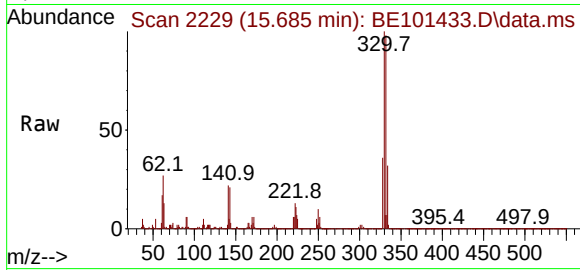




#42
2,4,6-Tribromophenol
Concen: 86.836 ng
RT: 15.685 min Scan# 21
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

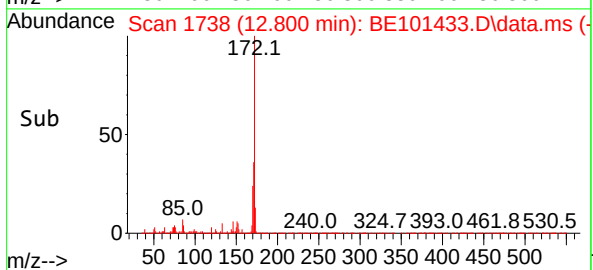
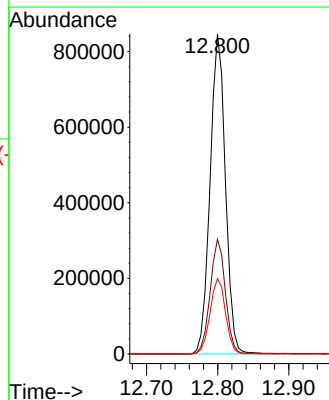
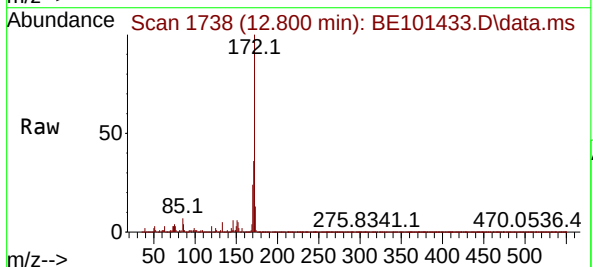
Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

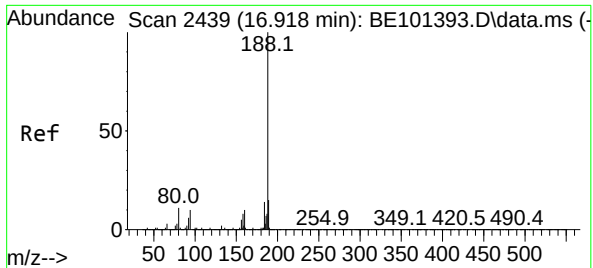
Tgt Ion: 330 Resp: 715545
Ion Ratio Lower Upper
330 100
332 96.9 78.2 117.2
141 22.3 18.3 27.5



#45
2-Fluorobiphenyl
Concen: 45.703 ng
RT: 12.800 min Scan# 1738
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Tgt Ion: 172 Resp: 1268778
Ion Ratio Lower Upper
172 100
171 35.8 29.2 43.8
170 23.6 19.8 29.6

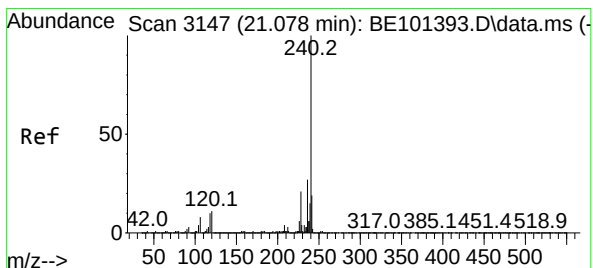
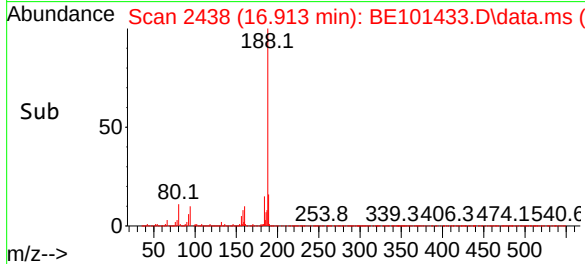
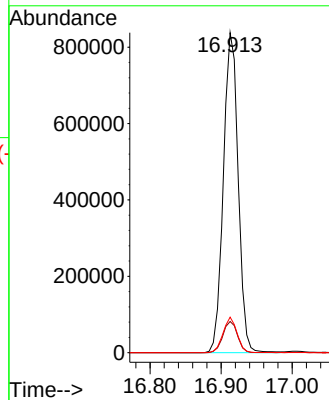
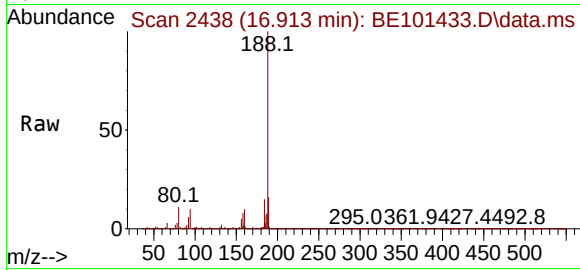




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.913 min Scan# 2438
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

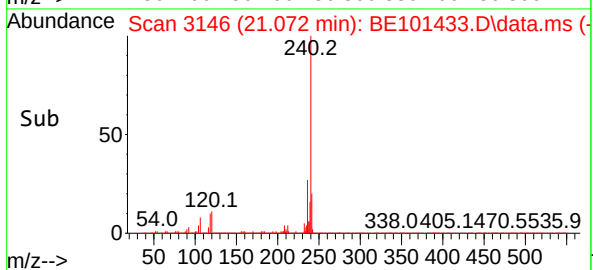
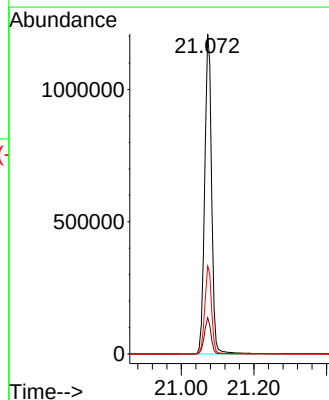
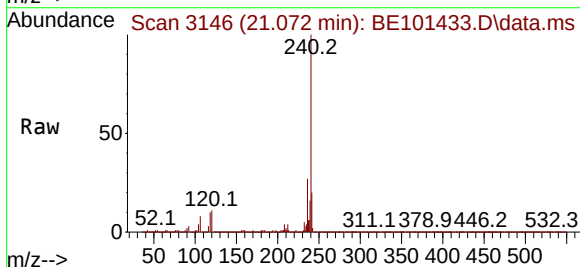
Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

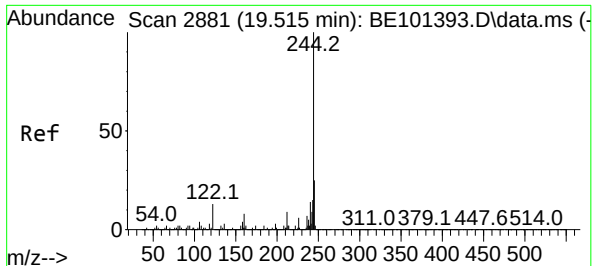
Tgt Ion:188 Resp: 1206173
Ion Ratio Lower Upper
188 100
94 9.8 7.8 11.8
80 11.1 8.6 12.8



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.072 min Scan# 3146
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Tgt Ion:240 Resp: 1598005
Ion Ratio Lower Upper
240 100
120 11.3 9.0 13.4
236 27.4 21.4 32.0

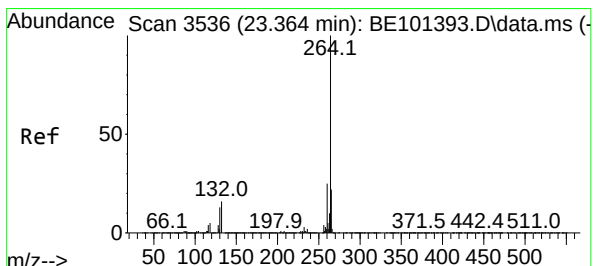
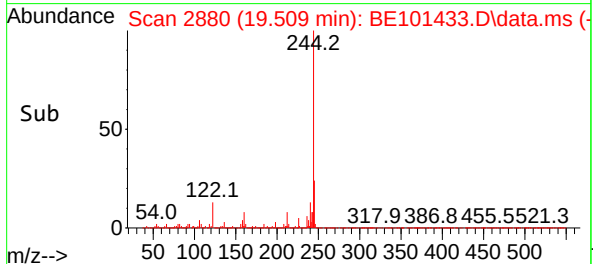
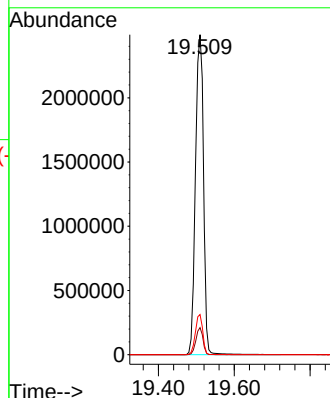
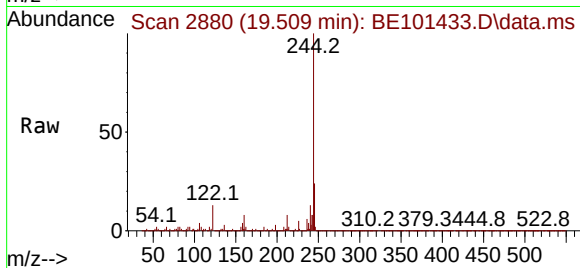




#79
 Terphenyl-d14
 Concen: 52.978 ng
 RT: 19.509 min Scan# 2880
 Delta R.T. -0.006 min
 Lab File: BE101433.D
 Acq: 31 Oct 2024 15:14

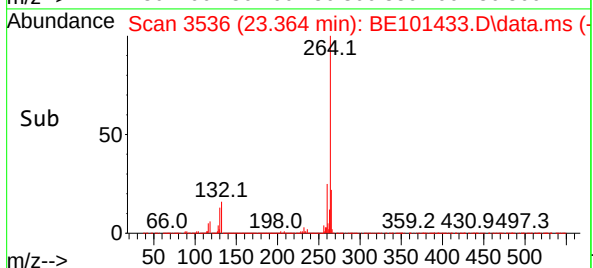
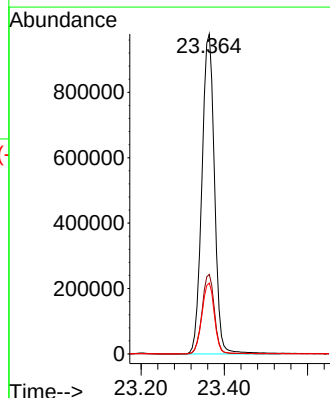
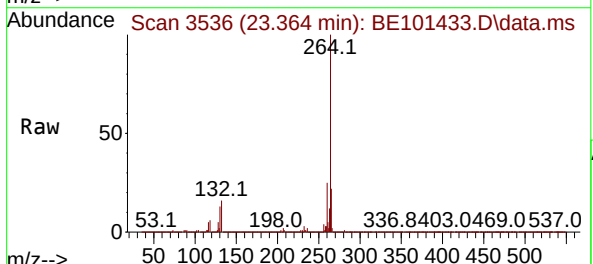
Instrument :
 BNA_E
 ClientSampleId :
 WB-305-SW-1

Tgt Ion:244 Resp: 3678322
 Ion Ratio Lower Upper
 244 100
 212 8.5 7.2 10.8
 122 12.6 10.4 15.6



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 23.364 min Scan# 3536
 Delta R.T. 0.000 min
 Lab File: BE101433.D
 Acq: 31 Oct 2024 15:14

Tgt Ion:264 Resp: 2061054
 Ion Ratio Lower Upper
 264 100
 260 24.8 19.8 29.8
 265 22.2 17.6 26.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
 Data File : BE101433.D
 Acq On : 31 Oct 2024 15:14
 Operator : RC/JU
 Sample : P4578-02
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 WB-305-SW-1

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_E\Methods\8270-BE102824.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BE101433.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.870	44	48	72	rVB	3630862	4594554	46.45%	10.445%
2	5.314	458	464	486	rBV	758572	1240275	12.54%	2.820%
3	6.942	734	741	763	rBV	609108	1151228	11.64%	2.617%
4	7.571	840	848	859	rBV	518309	841149	8.50%	1.912%
5	8.781	1046	1054	1072	rBV	742963	1292362	13.07%	2.938%
6	10.338	1309	1319	1331	rBV	739119	1290144	13.04%	2.933%
7	12.800	1731	1738	1746	rBV	2409668	3577692	36.17%	8.133%
8	14.175	1964	1972	1987	rBV	1281212	1995234	20.17%	4.536%
9	15.549	2200	2206	2220	rVB	770293	1018673	10.30%	2.316%
10	15.685	2222	2229	2236	rBV	2951375	4247174	42.94%	9.655%
11	16.913	2432	2438	2448	rBV	1986401	2847391	28.79%	6.473%
12	17.747	2574	2580	2587	rBV2	95443	209975	2.12%	0.477%
13	19.509	2874	2880	2892	rBV	7167847	9891069	100.00%	22.486%
14	20.649	3071	3074	3082	rBV2	53357	100576	1.02%	0.229%
15	21.072	3141	3146	3156	rBV	3307247	4286208	43.33%	9.744%
16	22.042	3307	3311	3317	rVB	148943	199046	2.01%	0.453%
17	23.364	3527	3536	3545	rBV	2528901	5205262	52.63%	11.833%

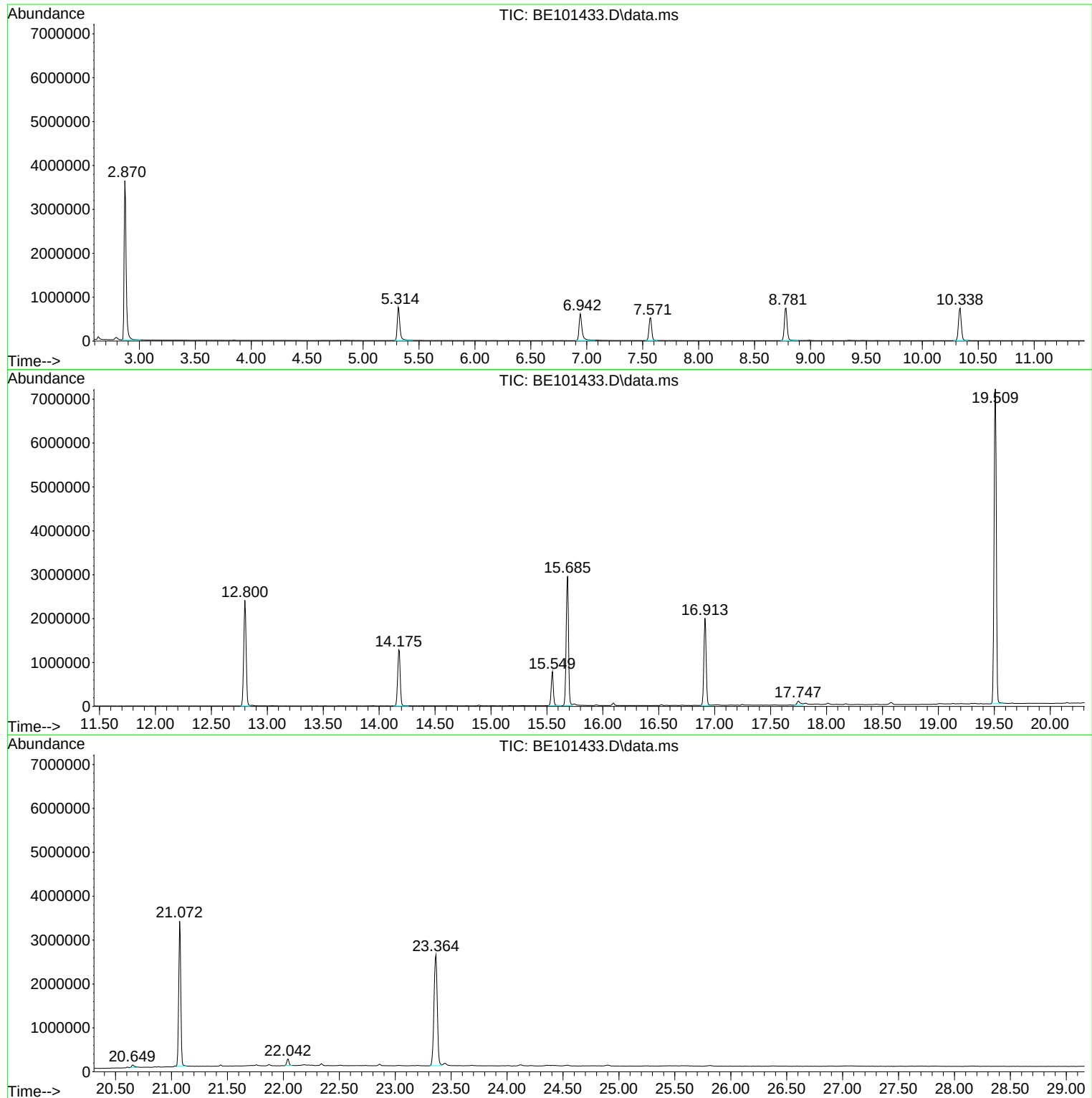
Sum of corrected areas: 43988012

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.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_E\Data\BE103124\
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

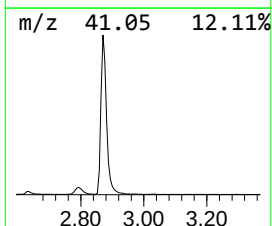
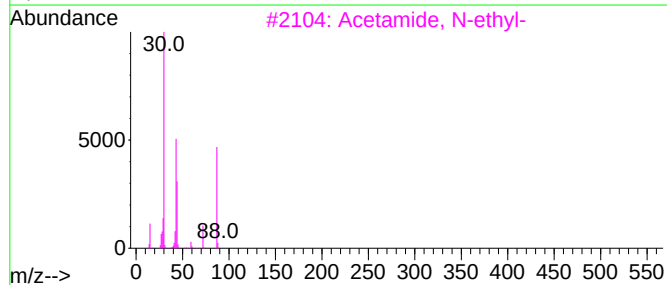
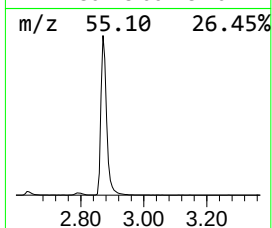
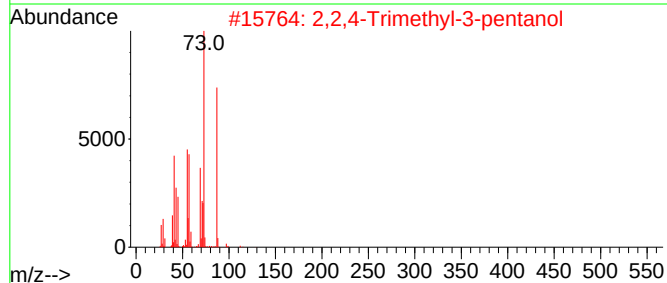
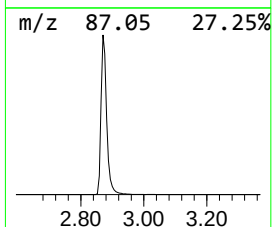
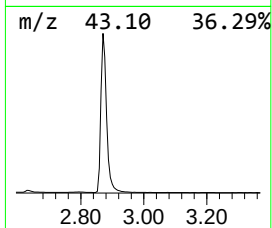
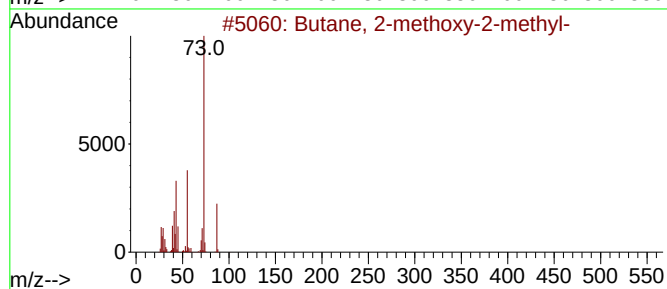
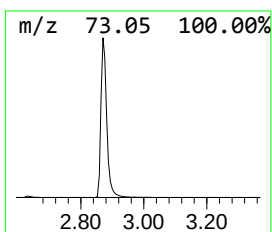
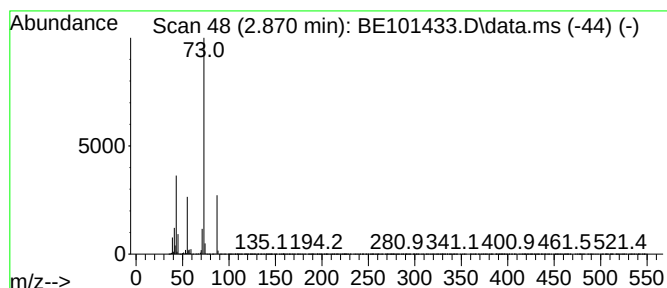
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.870	109.25 ng	4594550	1,4-Dichlorobenzene-d4	7.571

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			Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
4			Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
5			N-Ethylformamide	73	C3H7NO	000627-45-2	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE101433.D
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

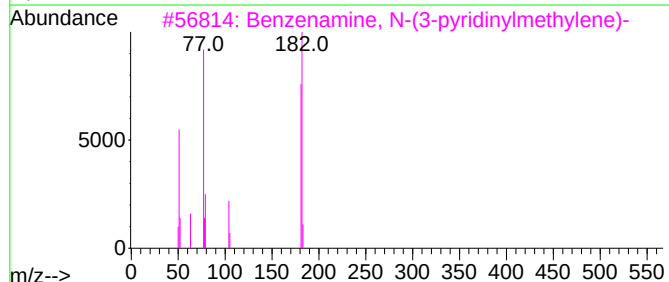
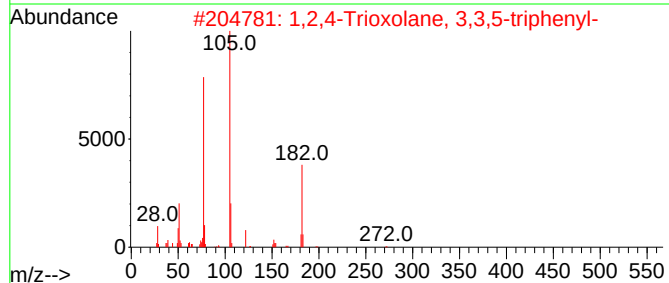
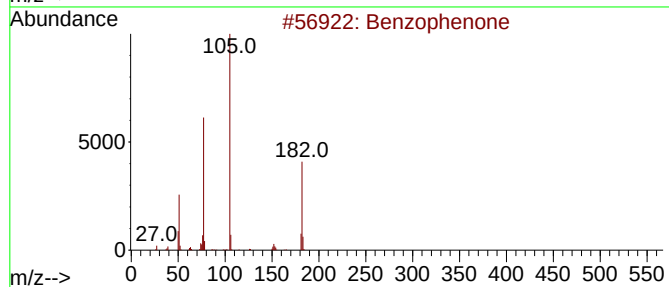
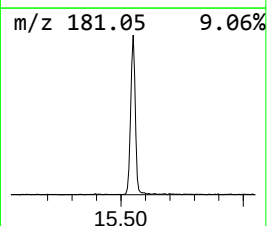
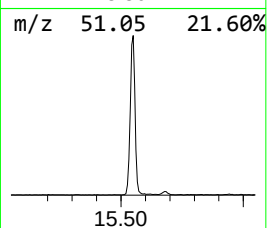
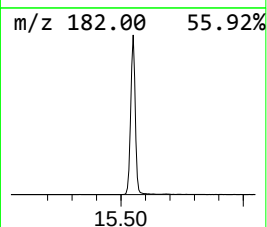
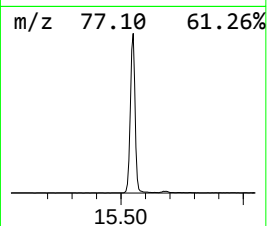
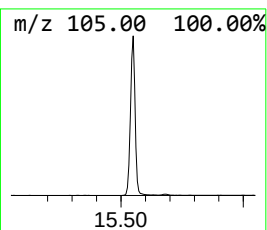
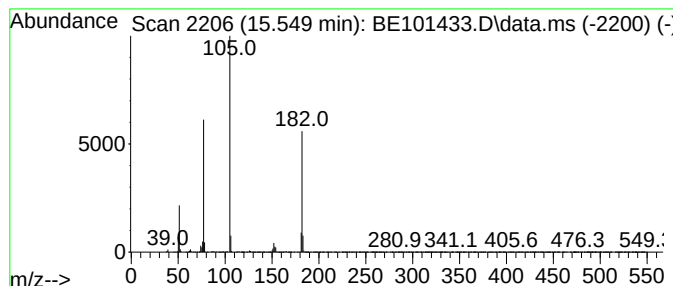
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.549	7.16 ng	1018670	Phenanthrene-d10	16.913

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	97
2			1,2,4-Trioxolane, 3,3,5-triphenyl-	304	C20H16O3	023246-12-0	64
3			Benzenamine, N-(3-pyridinylmethy...	182	C12H10N2	029722-97-2	42
4			1,2,4-Triazolo[4,3-b]pyridazine,...	182	C7H7ClN4	028593-26-2	38
5			Azobenzene	182	C12H10N2	000103-33-3	37



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.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...	2.870	109.3	ng	4594550	1	7.571	841149	20.0
Benzophenone	15.549	7.2	ng	1018670	4	16.913	2847390	20.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1RE	SDG No.:	P4578
Lab Sample ID:	P4578-02RE	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 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
BF140207.D	1	10/30/24 08:50	11/01/24 12:33	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.10	U	4.10	10.2	ug/L
108-95-2	Phenol	0.95	U	0.95	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.10	ug/L
95-57-8	2-Chlorophenol	0.72	U	0.72	5.10	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.10	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.10	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.10	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.10	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.10	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.90	U	0.90	5.10	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.10	ug/L
106-47-8	4-Chloroaniline	1.30	UQ	1.30	5.10	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.10	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	0.86	U	0.86	5.10	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	5.10	UQ	5.10	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	0.91	U	0.91	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.10	ug/L
92-52-4	1,1-Biphenyl	0.93	U	0.93	5.10	ug/L
91-58-7	2-Chloronaphthalene	0.99	U	0.99	5.10	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.10	ug/L
131-11-3	Dimethylphthalate	0.95	U	0.95	5.10	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1RE	SDG No.:	P4578
Lab Sample ID:	P4578-02RE	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 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
BF140207.D	1	10/30/24 08:50	11/01/24 12:33	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.10	U	1.10	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.10	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.10	ug/L
83-32-9	Acenaphthene	0.83	U	0.83	5.10	ug/L
51-28-5	2,4-Dinitrophenol	6.60	U	6.60	10.2	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.2	ug/L
132-64-9	Dibenzofuran	0.95	U	0.95	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.10	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	1.00	5.10	ug/L
86-73-7	Fluorene	0.98	U	0.98	5.10	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	0.91	U	0.91	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	0.97	U	0.97	5.10	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.10	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.10	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.2	ug/L
85-01-8	Phenanthrene	0.91	U	0.91	5.10	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.10	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.10	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.10	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.10	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.2	ug/L
56-55-3	Benzo(a)anthracene	0.96	U	0.96	5.10	ug/L
218-01-9	Chrysene	0.88	U	0.88	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.10	ug/L
117-84-0	Di-n-octyl phthalate	2.60	U	2.60	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.10	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1RE	SDG No.:	P4578
Lab Sample ID:	P4578-02RE	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 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
BF140207.D	1	10/30/24 08:50	11/01/24 12:33	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.10	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.10	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.81	U	0.81	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	20.4	*	15 (10) - 110 (139)	14%	SPK: 150
13127-88-3	Phenol-d6	17.7	*	15 (10) - 110 (134)	12%	SPK: 150
4165-60-0	Nitrobenzene-d5	24.2	*	30 (49) - 130 (133)	24%	SPK: 100
321-60-8	2-Fluorobiphenyl	23.2	*	30 (52) - 130 (132)	23%	SPK: 100
118-79-6	2,4,6-Tribromophenol	41.6		15 (44) - 110 (137)	28%	SPK: 150
1718-51-0	Terphenyl-d14	27.1	*	30 (48) - 130 (125)	27%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	187000	6.881			
1146-65-2	Naphthalene-d8	733000	8.163			
15067-26-2	Acenaphthene-d10	416000	9.922			
1517-22-2	Phenanthrene-d10	750000	11.416			
1719-03-5	Chrysene-d12	460000	14.068			
1520-96-3	Perylene-d12	382000	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\BF110124\
Data File : BF140207.D
Acq On : 01 Nov 2024 12:33
Operator : RC/JU
Sample : P4578-02RE
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW-1RE

Quant Time: Nov 01 13:16:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	186612	20.000	ng	-0.01
21) Naphthalene-d8	8.163	136	733188	20.000	ng	-0.01
39) Acenaphthene-d10	9.922	164	415849	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	750159	20.000	ng	0.00
76) Chrysene-d12	14.068	240	460215	20.000	ng	0.02
86) Perylene-d12	15.580	264	381772	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	486703	40.830	ng	0.00
7) Phenol-d6	6.504	99	545169	35.312	ng	0.00
23) Nitrobenzene-d5	7.439	82	639007	48.304	ng	-0.01
42) 2,4,6-Tribromophenol	10.716	330	323842	83.256	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1165500	46.320	ng	-0.01
79) Terphenyl-d14	13.010	244	1531195	54.215	ng	0.01

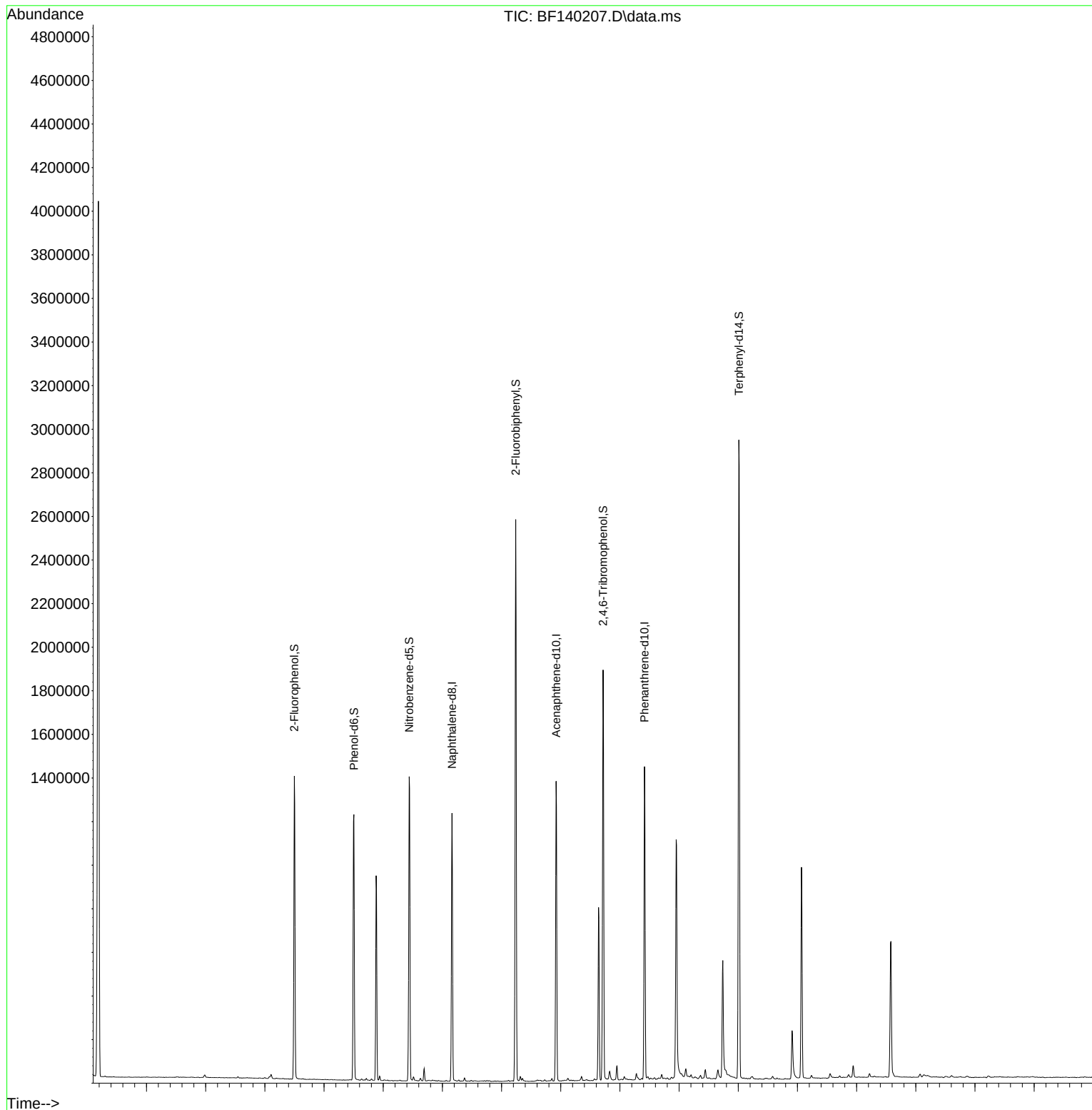
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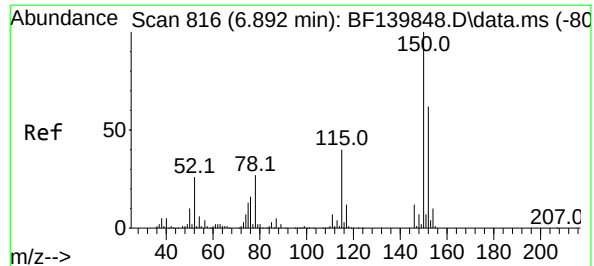
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140207.D
Acq On : 01 Nov 2024 12:33
Operator : RC/JU
Sample : P4578-02RE
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW-1RE

Quant Time: Nov 01 13:16:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.881 min Scan# 81

Delta R.T. -0.011 min

Lab File: BF140207.D

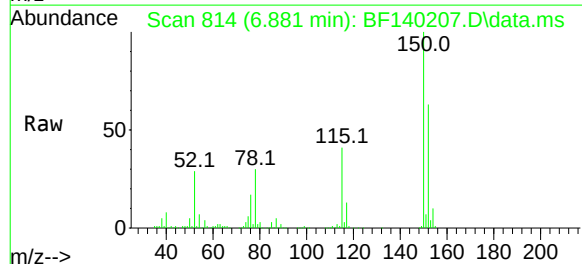
Acq: 01 Nov 2024 12:33

Instrument :

BNA_F

ClientSampleId :

WB-305-SW-1RE



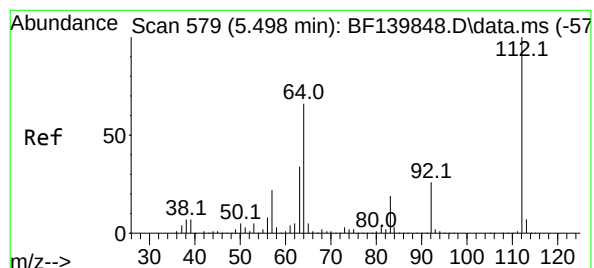
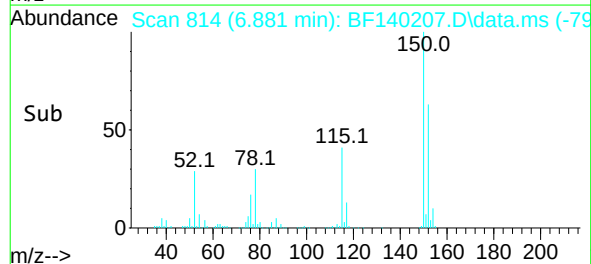
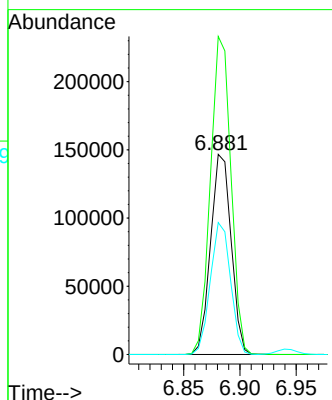
Tgt Ion:152 Resp: 186612

Ion Ratio Lower Upper

152 100

150 158.9 130.2 195.2

115 65.9 51.4 77.2



#5

2-Fluorophenol

Concen: 40.830 ng

RT: 5.498 min Scan# 579

Delta R.T. 0.000 min

Lab File: BF140207.D

Acq: 01 Nov 2024 12:33

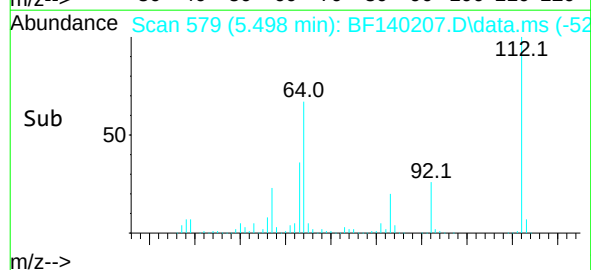
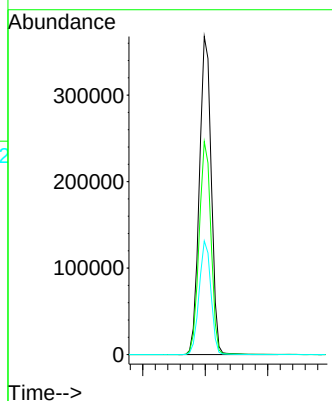
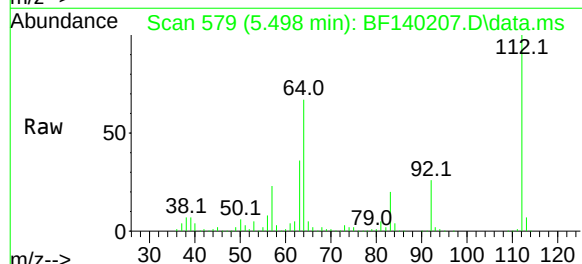
Tgt Ion:112 Resp: 486703

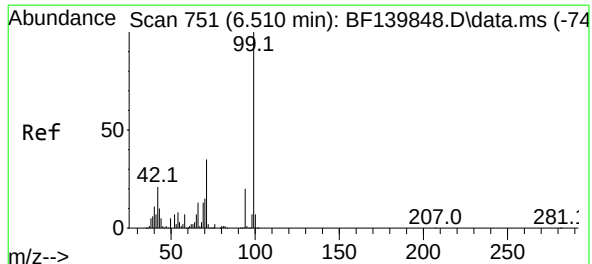
Ion Ratio Lower Upper

112 100

64 67.0 53.0 79.6

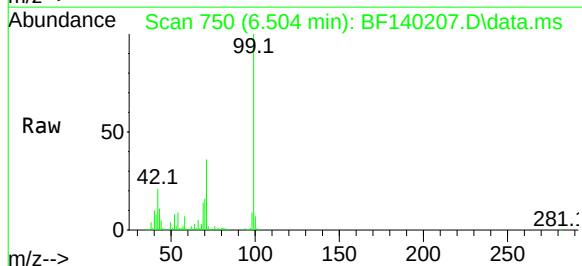
63 35.7 27.0 40.4



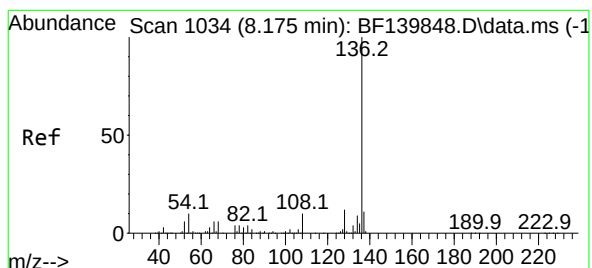
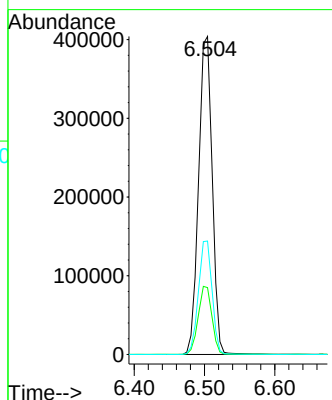
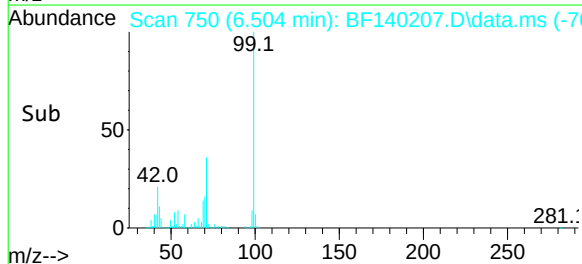


#7
Phenol-d6
Concen: 35.312 ng
RT: 6.504 min Scan# 751
Delta R.T. -0.006 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Instrument :
BNA_F
ClientSampleId :
WB-305-SW-1RE

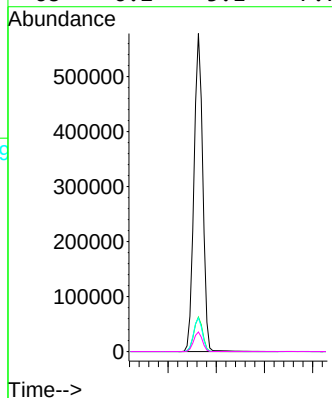
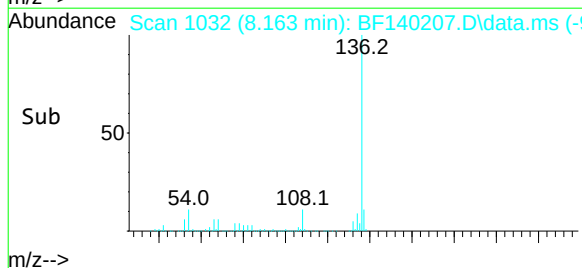
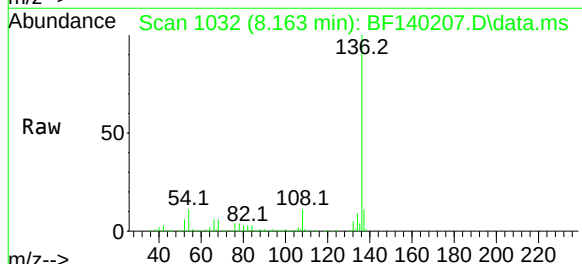


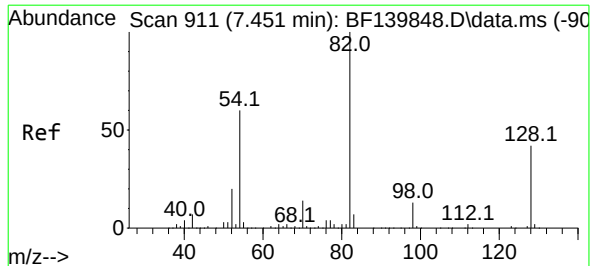
Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.0	16.7	25.1
71	35.7	27.7	41.5



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Tgt Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	10.6	8.4	12.6
68	6.2	5.1	7.7





#23

Nitrobenzene-d5

Concen: 48.304 ng

RT: 7.439 min Scan# 90

Delta R.T. -0.012 min

Lab File: BF140207.D

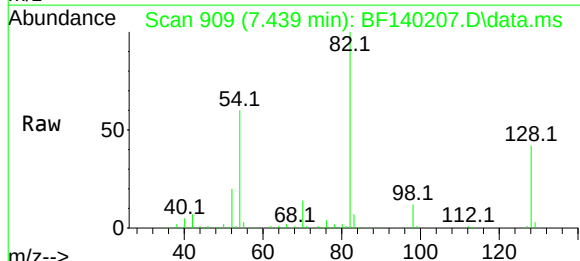
Acq: 01 Nov 2024 12:33

Instrument :

BNA_F

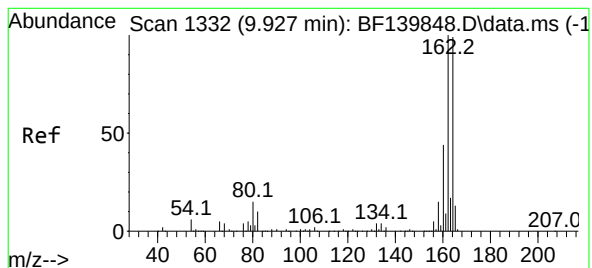
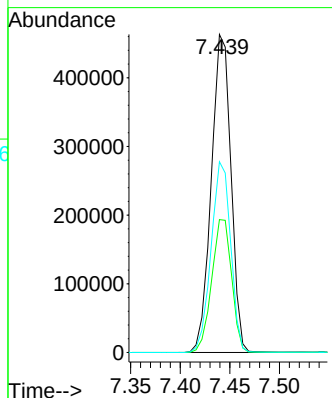
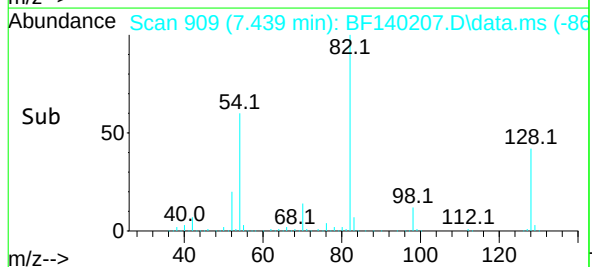
ClientSampleId :

WB-305-SW-1RE



Tgt Ion: 82 Resp: 639007

Ion	Ratio	Lower	Upper
82	100		
128	41.8	33.4	50.0
54	60.0	47.8	71.8



#39

Acenaphthene-d10

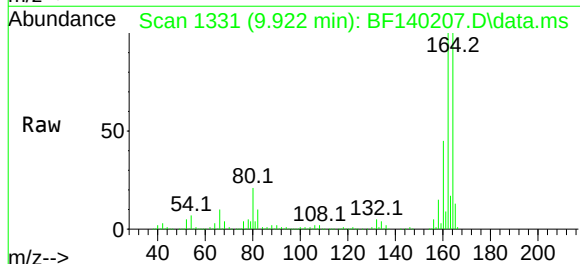
Concen: 20.000 ng

RT: 9.922 min Scan# 1331

Delta R.T. -0.005 min

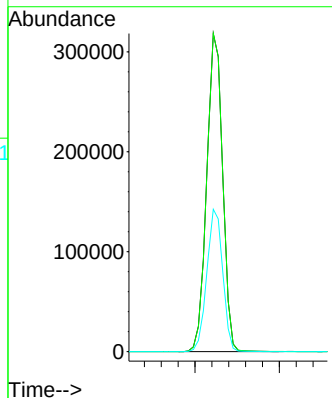
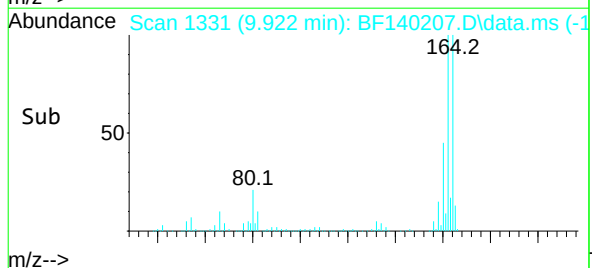
Lab File: BF140207.D

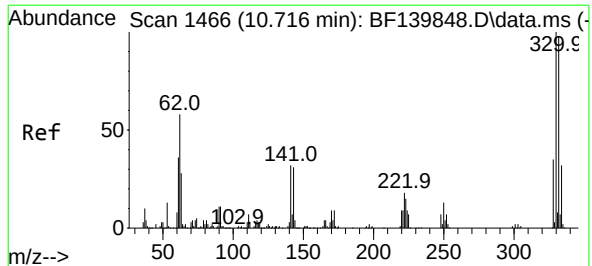
Acq: 01 Nov 2024 12:33



Tgt Ion: 164 Resp: 415849

Ion	Ratio	Lower	Upper
164	100		
162	99.9	81.0	121.4
160	44.8	35.4	53.0





#42

2,4,6-Tribromophenol

Concen: 83.256 ng

RT: 10.716 min Scan# 1466

Delta R.T. 0.000 min

Lab File: BF140207.D

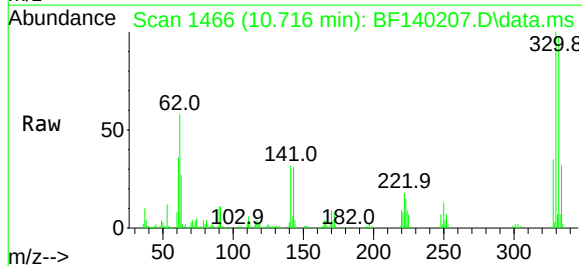
Acq: 01 Nov 2024 12:33

Instrument :

BNA_F

ClientSampleId :

WB-305-SW-1RE



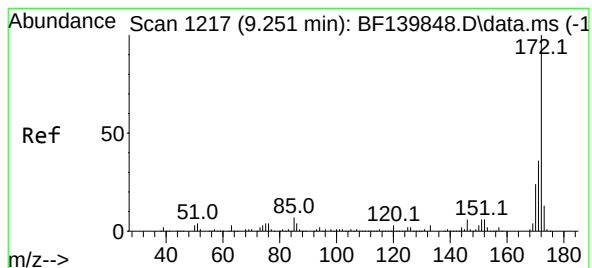
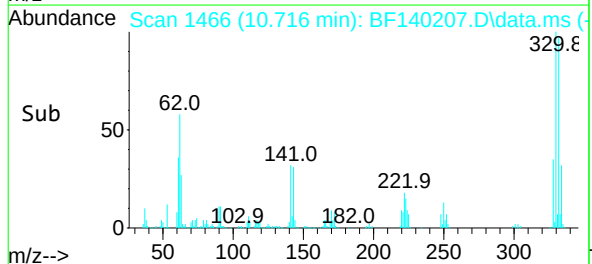
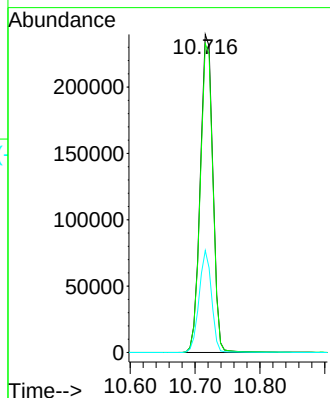
Tgt Ion:330 Resp: 323842

Ion Ratio Lower Upper

330 100

332 97.3 78.1 117.1

141 31.7 26.6 39.8



#45

2-Fluorobiphenyl

Concen: 46.320 ng

RT: 9.239 min Scan# 1215

Delta R.T. -0.012 min

Lab File: BF140207.D

Acq: 01 Nov 2024 12:33

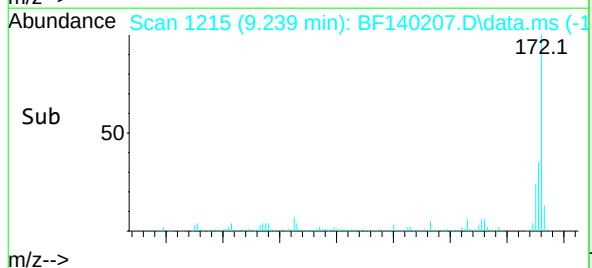
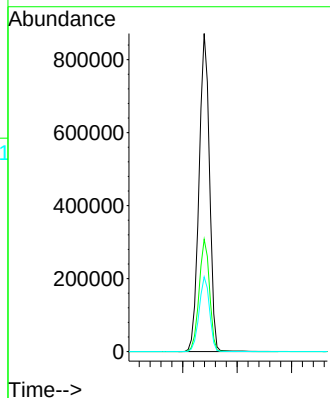
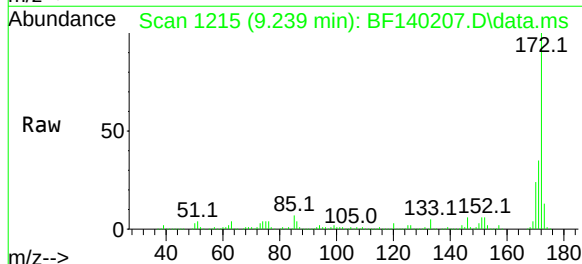
Tgt Ion:172 Resp: 1165500

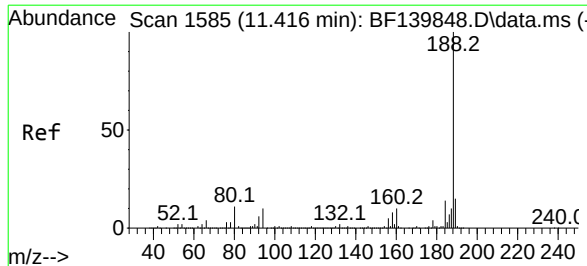
Ion Ratio Lower Upper

172 100

171 35.3 28.6 43.0

170 23.5 19.1 28.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.416 min Scan# 15

Delta R.T. 0.000 min

Lab File: BF140207.D

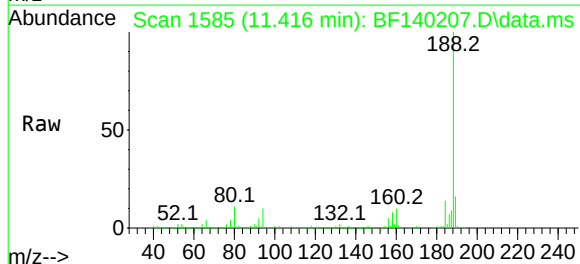
Acq: 01 Nov 2024 12:33

Instrument :

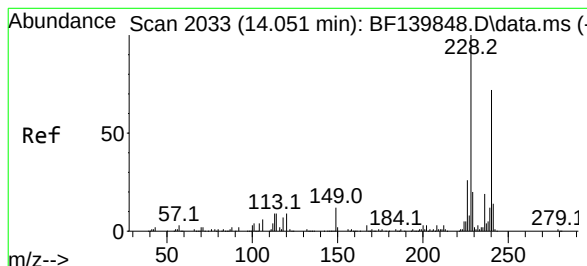
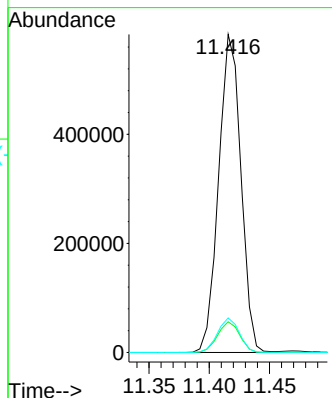
BNA_F

ClientSampleId :

WB-305-SW-1RE



Tgt Ion:	188	Resp:	750159
Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.9	11.9
80	10.9	9.0	13.4



#76

Chrysene-d12

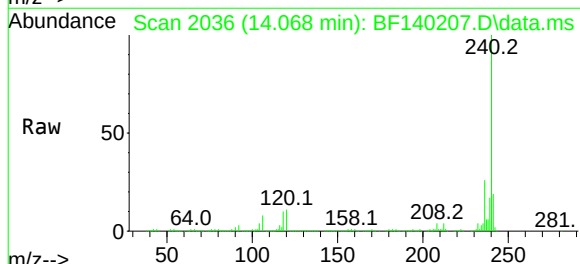
Concen: 20.000 ng

RT: 14.068 min Scan# 2036

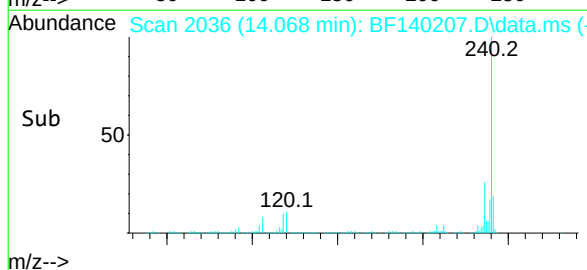
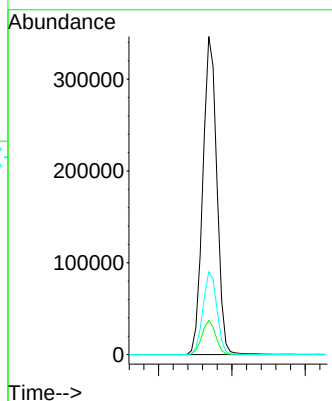
Delta R.T. 0.018 min

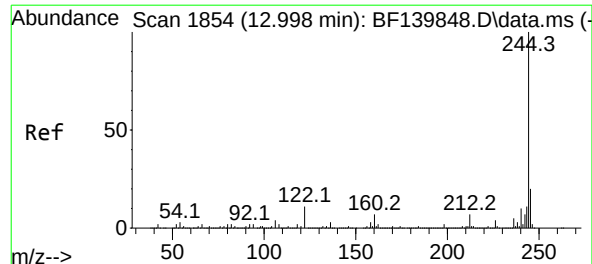
Lab File: BF140207.D

Acq: 01 Nov 2024 12:33



Tgt Ion:	240	Resp:	460215
Ion	Ratio	Lower	Upper
240	100		
120	10.7	9.4	14.2
236	26.0	20.9	31.3





#79

Terphenyl-d14

Concen: 54.215 ng

RT: 13.010 min Scan# 18

Delta R.T. 0.012 min

Lab File: BF140207.D

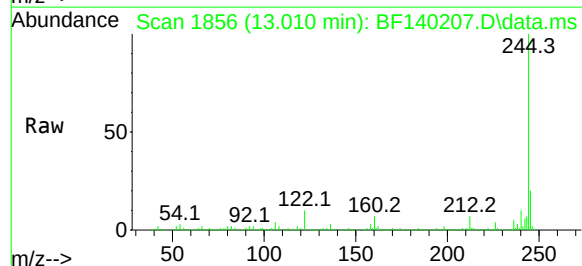
Acq: 01 Nov 2024 12:33

Instrument :

BNA_F

ClientSampleId :

WB-305-SW-1RE



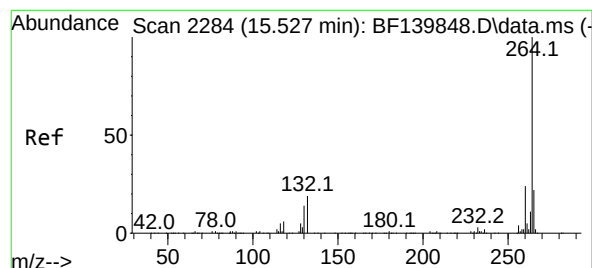
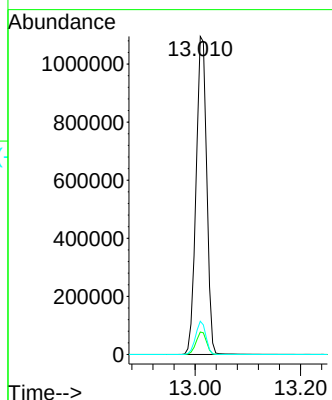
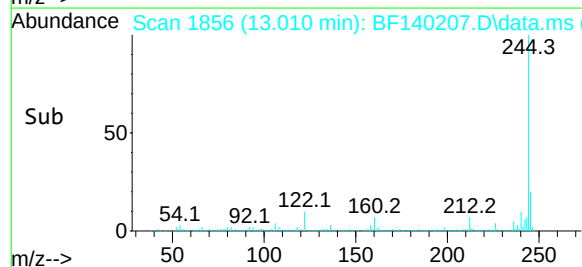
Tgt Ion:244 Resp: 1531195

Ion Ratio Lower Upper

244 100

212 7.1 5.7 8.5

122 10.5 8.6 13.0



#86

Perylene-d12

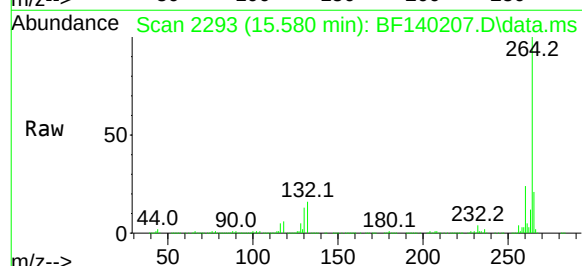
Concen: 20.000 ng

RT: 15.580 min Scan# 2293

Delta R.T. 0.053 min

Lab File: BF140207.D

Acq: 01 Nov 2024 12:33



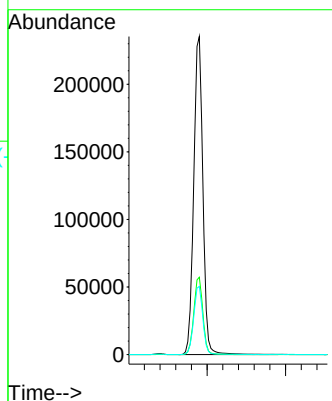
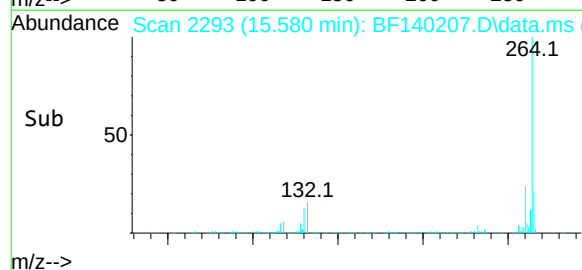
Tgt Ion:264 Resp: 381772

Ion Ratio Lower Upper

264 100

260 24.3 19.4 29.2

265 21.4 17.4 26.0



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	53.8
Sample Wt/Vol:	30.06 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
BF140156.D	1	10/28/24 09:00	10/30/24 14:41	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	340	U	340	610	ug/Kg
108-95-2	Phenol	150	U	150	320	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	160	U	160	320	ug/Kg
95-57-8	2-Chlorophenol	150	U	150	320	ug/Kg
95-48-7	2-Methylphenol	150	U	150	320	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	170	U	170	320	ug/Kg
98-86-2	Acetophenone	160	U	160	320	ug/Kg
65794-96-9	3+4-Methylphenols	150	U	150	610	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	74.8	U	74.8	150	ug/Kg
67-72-1	Hexachloroethane	150	U	150	320	ug/Kg
98-95-3	Nitrobenzene	170	U	170	320	ug/Kg
78-59-1	Isophorone	160	U	160	320	ug/Kg
88-75-5	2-Nitrophenol	180	U	180	320	ug/Kg
105-67-9	2,4-Dimethylphenol	170	U	170	320	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	160	U	160	320	ug/Kg
120-83-2	2,4-Dichlorophenol	140	U	140	320	ug/Kg
91-20-3	Naphthalene	210	J	150	320	ug/Kg
106-47-8	4-Chloroaniline	150	UQ	150	320	ug/Kg
87-68-3	Hexachlorobutadiene	150	U	150	320	ug/Kg
105-60-2	Caprolactam	160	U	160	610	ug/Kg
59-50-7	4-Chloro-3-methylphenol	140	U	140	320	ug/Kg
91-57-6	2-Methylnaphthalene	190	J	150	320	ug/Kg
77-47-4	Hexachlorocyclopentadiene	290	UQ	290	610	ug/Kg
88-06-2	2,4,6-Trichlorophenol	130	U	130	320	ug/Kg
95-95-4	2,4,5-Trichlorophenol	140	U	140	320	ug/Kg
92-52-4	1,1-Biphenyl	160	U	160	320	ug/Kg
91-58-7	2-Chloronaphthalene	150	U	150	320	ug/Kg
88-74-4	2-Nitroaniline	180	U	180	320	ug/Kg
131-11-3	Dimethylphthalate	150	U	150	320	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	53.8
Sample Wt/Vol:	30.06 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
BF140156.D	1	10/28/24 09:00	10/30/24 14:41	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	160	U	160	320	ug/Kg
606-20-2	2,6-Dinitrotoluene	150	U	150	320	ug/Kg
99-09-2	3-Nitroaniline	170	UQ	170	320	ug/Kg
83-32-9	Acenaphthene	190	J	150	320	ug/Kg
51-28-5	2,4-Dinitrophenol	450	U	450	610	ug/Kg
100-02-7	4-Nitrophenol	220	U	220	610	ug/Kg
132-64-9	Dibenzofuran	160	U	160	320	ug/Kg
121-14-2	2,4-Dinitrotoluene	160	U	160	320	ug/Kg
84-66-2	Diethylphthalate	150	U	150	320	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	160	U	160	320	ug/Kg
86-73-7	Fluorene	160	J	160	320	ug/Kg
100-01-6	4-Nitroaniline	200	U	200	320	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	220	U	220	610	ug/Kg
86-30-6	n-Nitrosodiphenylamine	150	U	150	320	ug/Kg
101-55-3	4-Bromophenyl-phenylether	150	U	150	320	ug/Kg
118-74-1	Hexachlorobenzene	160	U	160	320	ug/Kg
1912-24-9	Atrazine	170	U	170	320	ug/Kg
87-86-5	Pentachlorophenol	140	U	140	610	ug/Kg
85-01-8	Phenanthrene	640		160	320	ug/Kg
120-12-7	Anthracene	270	J	160	320	ug/Kg
86-74-8	Carbazole	150	U	150	320	ug/Kg
84-74-2	Di-n-butylphthalate	160	U	160	320	ug/Kg
206-44-0	Fluoranthene	610		150	320	ug/Kg
129-00-0	Pyrene	850		150	320	ug/Kg
85-68-7	Butylbenzylphthalate	180	U	180	320	ug/Kg
91-94-1	3,3-Dichlorobenzidine	180	UQ	180	610	ug/Kg
56-55-3	Benzo(a)anthracene	550		150	320	ug/Kg
218-01-9	Chrysene	580		150	320	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	170	U	170	320	ug/Kg
117-84-0	Di-n-octyl phthalate	200	U	200	610	ug/Kg
205-99-2	Benzo(b)fluoranthene	400		150	320	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	53.8
Sample Wt/Vol:	30.06 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
BF140156.D	1	10/28/24 09:00	10/30/24 14:41	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	160	J	150	320	ug/Kg
50-32-8	Benzo(a)pyrene	530		170	320	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	180	J	140	320	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	150	U	150	320	ug/Kg
191-24-2	Benzo(g,h,i)perylene	230	J	150	320	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	160	U	160	320	ug/Kg
123-91-1	1,4-Dioxane	200	U	200	320	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	140	U	140	320	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	80.3		30 (18) - 130 (112)	54%	SPK: 150
13127-88-3	Phenol-d6	78.7		30 (15) - 130 (107)	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	62.2		30 (18) - 130 (107)	62%	SPK: 100
321-60-8	2-Fluorobiphenyl	58.2		30 (20) - 130 (109)	58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	78.7		30 (10) - 130 (116)	52%	SPK: 150
1718-51-0	Terphenyl-d14	60.6		30 (10) - 130 (105)	61%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	111000	6.881
1146-65-2	Naphthalene-d8	423000	8.163
15067-26-2	Acenaphthene-d10	224000	9.922
1517-22-2	Phenanthrene-d10	363000	11.416
1719-03-5	Chrysene-d12	172000	14.069
1520-96-3	Perylene-d12	221000	15.58

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	3200	JB	2.18	ug/Kg
000527-84-4	o-Cymene	260	J	7.67	ug/Kg
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	240	J	7.90	ug/Kg
000544-76-3	Hexadecane	230	J	8.75	ug/Kg
90-12-0	1-Methylnaphthalene	210	J	8.97	ug/Kg
000112-04-9	Silane, trichlorooctadecyl-	280	J	9.32	ug/Kg
000581-40-8	Naphthalene, 2,3-dimethyl-	230	J	9.57	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	53.8
Sample Wt/Vol:	30.06 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
BF140156.D	1	10/28/24 09:00	10/30/24 14:41	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
1000309-20-2	Sulfurous acid, 2-ethylhexyl hexyl	180	J		9.85	ug/Kg
000119-61-9	Benzophenone	600	J		10.6	ug/Kg
000613-12-7	Anthracene, 2-methyl-	230	J		11.9	ug/Kg
000057-10-3	n-Hexadecanoic acid	540	J		11.9	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	190	J		12.0	ug/Kg
004701-17-1	5-Bromo-2-thiophenecarboxaldehyde	670	J		12.0	ug/Kg
003674-66-6	Phenanthrene, 2,5-dimethyl-	200	J		12.5	ug/Kg
	unknown12.510	180	J		12.5	ug/Kg
002381-21-7	Pyrene, 1-methyl-	170	J		13.1	ug/Kg
000243-17-4	11H-Benzo[b]fluorene	320	J		13.2	ug/Kg
000238-84-6	11H-Benzo[a]fluorene	220	J		13.3	ug/Kg
000192-97-2	Benzo[e]pyrene	250	J		15.5	ug/Kg
	unknown17.380	420	J		17.4	ug/Kg
	unknown18.345	270	J		18.3	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\BF103024\
 Data File : BF140156.D
 Acq On : 30 Oct 2024 14:41
 Operator : RC/JU
 Sample : P4578-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WB-305-TOP

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/04/2024
 Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 30 15:07:37 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	110861	20.000	ng	-0.01
21) Naphthalene-d8	8.163	136	423380	20.000	ng	-0.01
39) Acenaphthene-d10	9.922	164	224222	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	363381	20.000	ng	0.00
76) Chrysene-d12	14.069	240	172346	20.000	ng	0.02
86) Perylene-d12	15.580	264	220971	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	568333	80.255	ng	0.00
7) Phenol-d6	6.498	99	721823	78.701	ng	-0.01
23) Nitrobenzene-d5	7.440	82	475473	62.243	ng	-0.01
42) 2,4,6-Tribromophenol	10.716	330	165073	78.707	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	788942	58.151	ng	-0.01
79) Terphenyl-d14	13.010	244	641093	60.613	ng	0.01
Target Compounds						Qvalue
31) Naphthalene	8.181	128	75308	3.449	ng	99
37) 2-Methylnaphthalene	8.875	142	41754	3.122	ng	96
38) 1-Methylnaphthalene	8.975	142	44934	3.425	ng	98
52) Acenaphthene	9.957	154	35905	3.054	ng	94
58) Fluorene	10.469	166	33528	2.610	ng	# 95
71) Phenanthrene	11.439	178	177240	10.326	ng	100
72) Anthracene	11.492	178	73441	4.385	ng	98
75) Fluoranthene	12.633	202	169924	9.793	ng	98
78) Pyrene	12.863	202	207813	13.775	ng	99
81) Benzo(a)anthracene	14.057	228	100152	8.927	ng	# 78
83) Chrysene	14.092	228	95672	9.301	ng	# 94
87) Indeno(1,2,3-cd)pyrene	17.098	276	42053	2.958	ng	97
88) Benzo(b)fluoranthene	15.139	252	86587m	6.433	ng	
89) Benzo(k)fluoranthene	15.157	252	29472m	2.539	ng	
90) Benzo(a)pyrene	15.515	252	94161	8.501	ng	96
92) Benzo(g,h,i)perylene	17.551	276	43282	3.654	ng	97

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

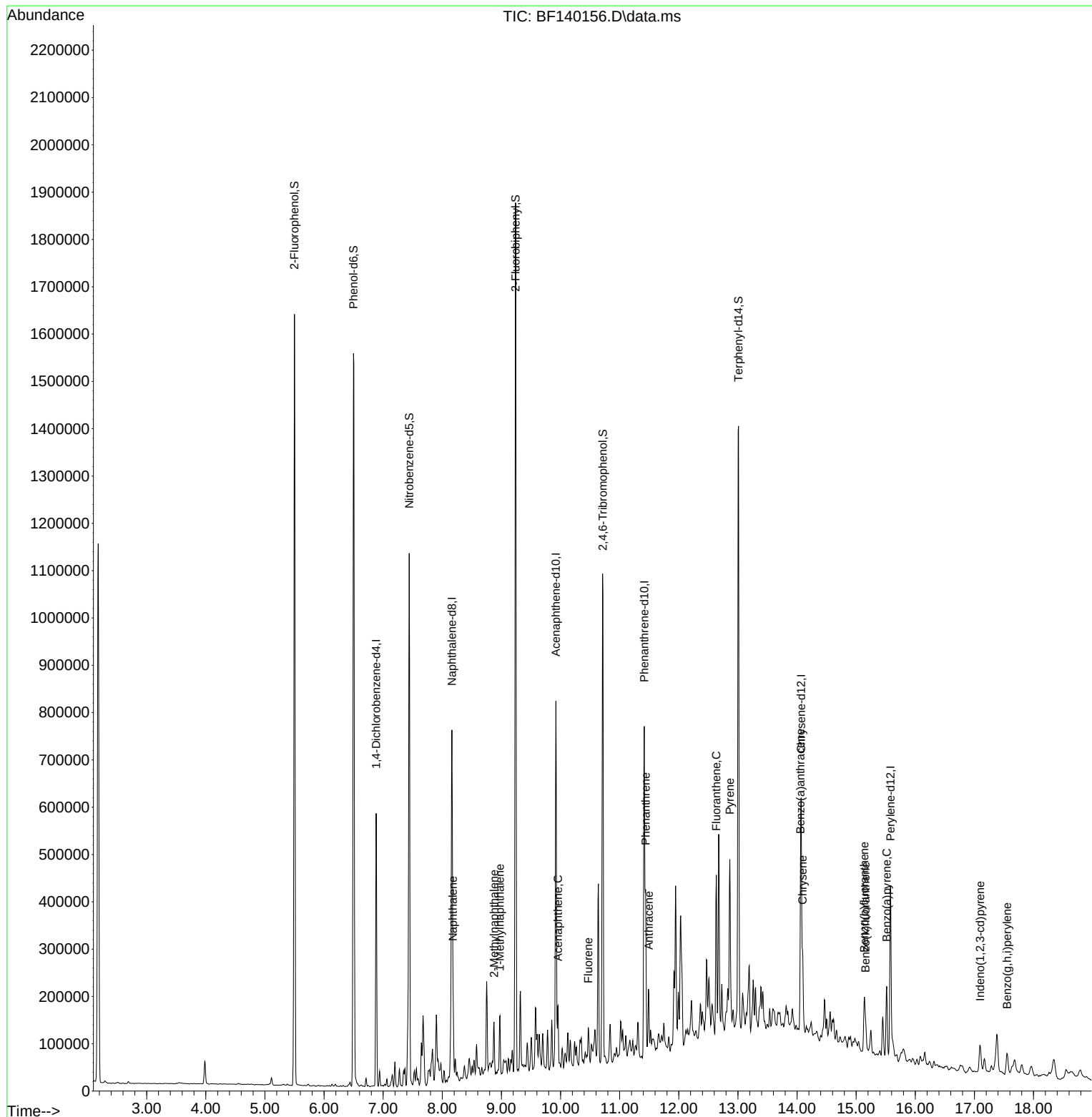
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Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

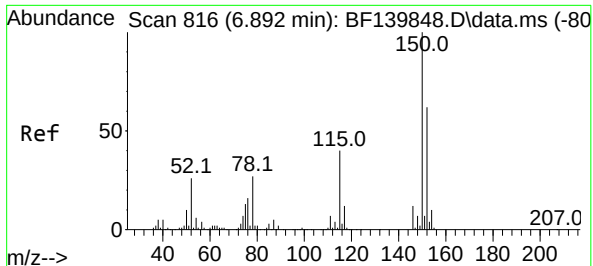
Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Quant Time: Oct 30 15:07:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

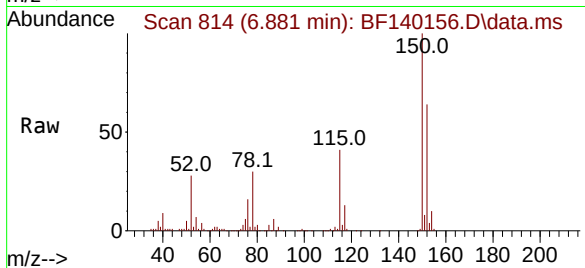
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 816
Delta R.T. -0.011 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

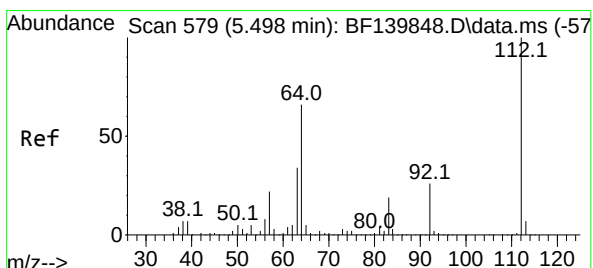
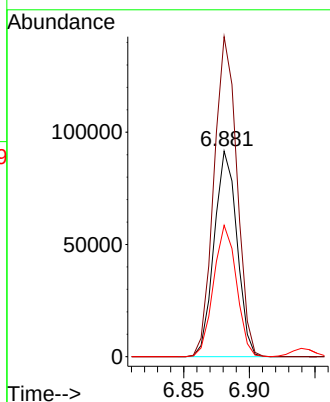
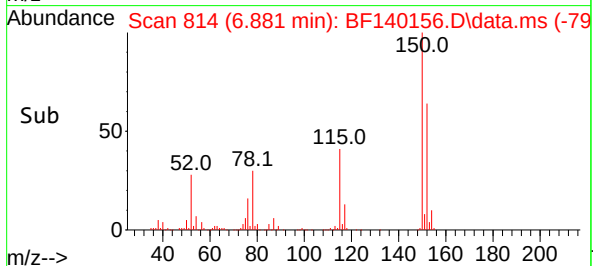
Instrument :
BNA_F
ClientSampleId :
WB-305-TOP



Tgt Ion:152 Resp: 11086
Ion Ratio Lower Upper
152 100
150 155.6 130.2 195.2
115 63.9 51.4 77.2

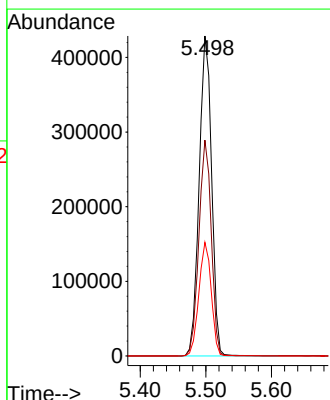
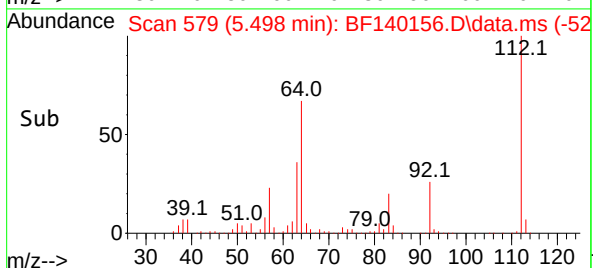
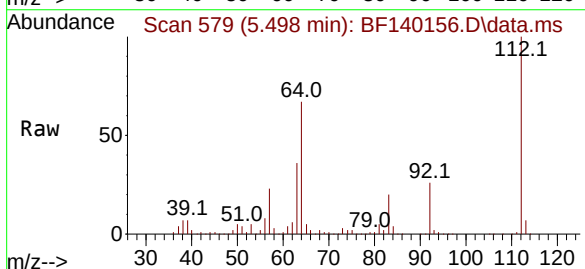
Manual Integrations
APPROVED

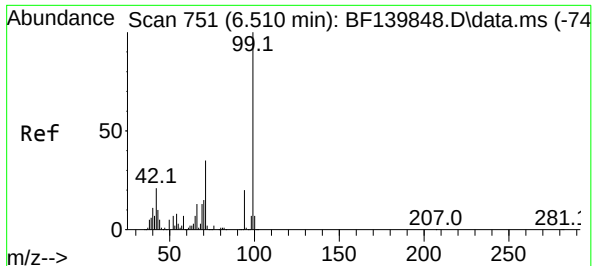
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



#5
2-Fluorophenol
Concen: 80.255 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.000 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

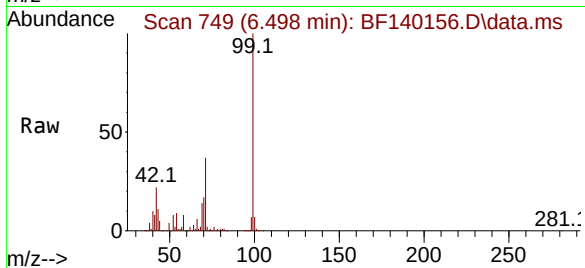
Tgt Ion:112 Resp: 568333
Ion Ratio Lower Upper
112 100
64 67.4 53.0 79.6
63 35.5 27.0 40.4





#7
Phenol-d6
Concen: 78.701 ng
RT: 6.498 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

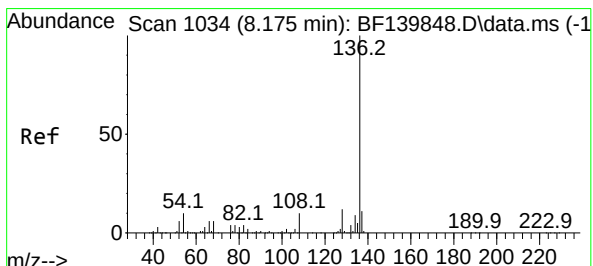
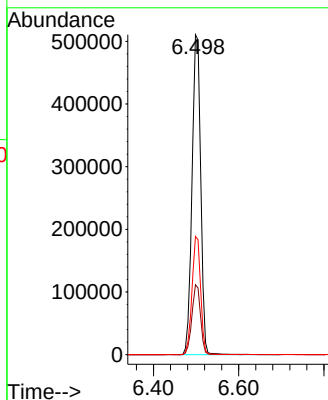
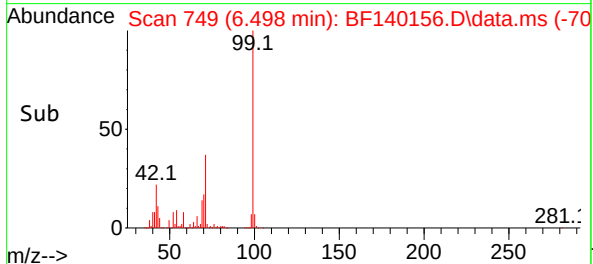
Instrument :
BNA_F
ClientSampleId :
WB-305-TOP



Tgt Ion: 99 Resp: 72182
Ion Ratio Lower Upper
99 100
42 21.9 16.7 25.1
71 36.9 27.7 41.5

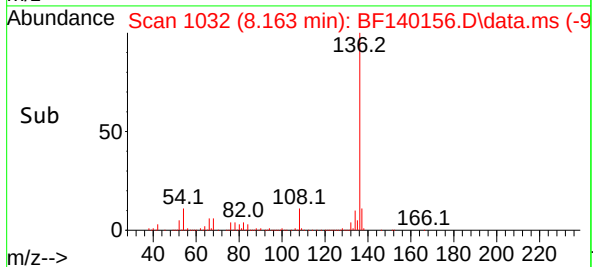
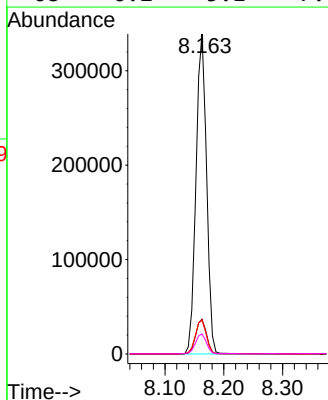
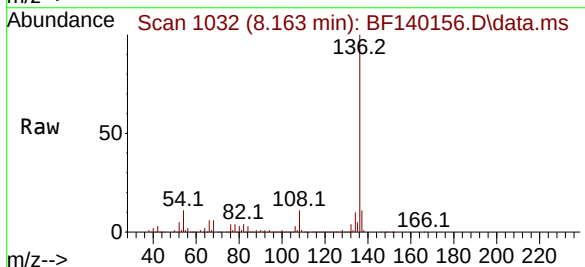
Manual Integrations
APPROVED

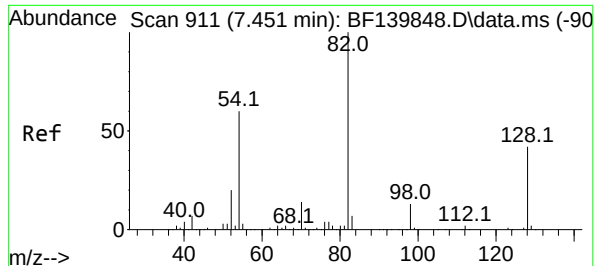
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:136 Resp: 423380
Ion Ratio Lower Upper
136 100
137 10.9 8.6 12.8
54 10.5 8.4 12.6
68 6.2 5.1 7.7





#23

Nitrobenzene-d5

Concen: 62.243 ng

RT: 7.440 min Scan# 90

Delta R.T. -0.012 min

Lab File: BF140156.D

Acq: 30 Oct 2024 14:41

Instrument :

BNA_F

ClientSampleId :

WB-305-TOP

Tgt Ion: 82 Resp: 47547

Ion Ratio Lower Upper

82 100

128 41.9 33.4 50.0

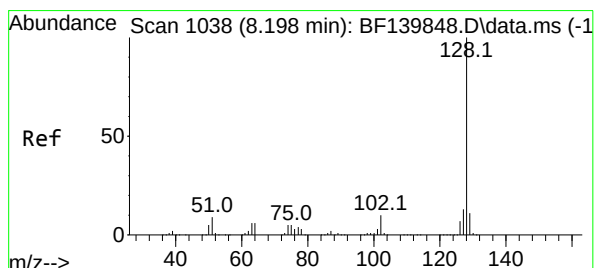
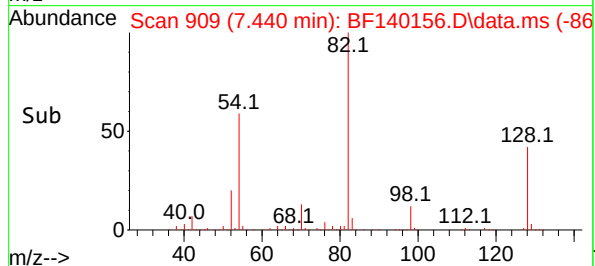
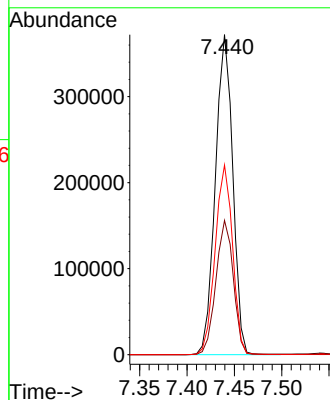
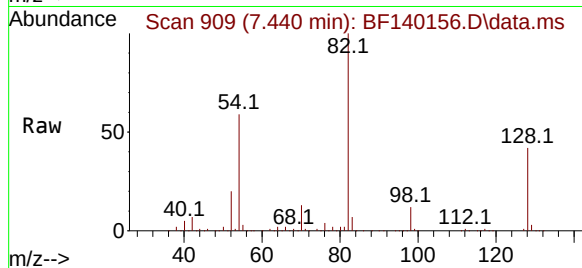
54 59.2 47.8 71.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :mohammad ahmed 11/04/2024



#31

Naphthalene

Concen: 3.449 ng

RT: 8.181 min Scan# 1035

Delta R.T. -0.017 min

Lab File: BF140156.D

Acq: 30 Oct 2024 14:41

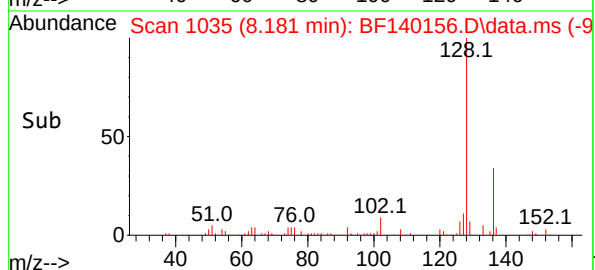
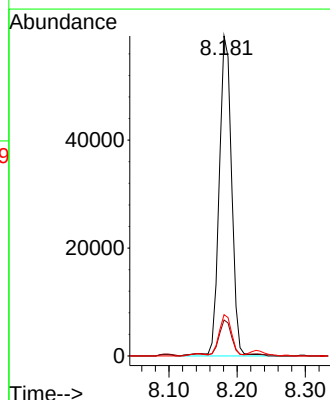
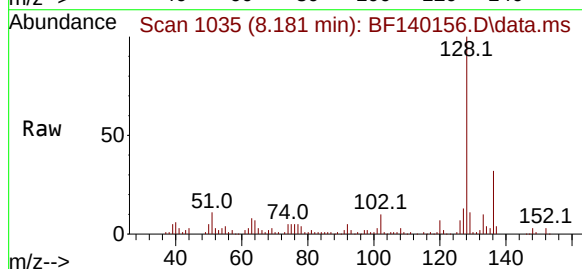
Tgt Ion:128 Resp: 75308

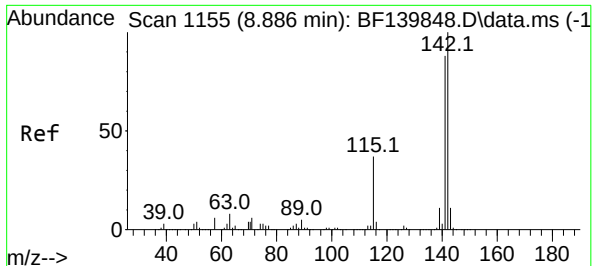
Ion Ratio Lower Upper

128 100

129 11.3 8.9 13.3

127 12.9 10.6 16.0





#37
2-Methylnaphthalene
Concen: 3.122 ng
RT: 8.875 min Scan# 1155
Delta R.T. -0.012 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Instrument :

BNA_F

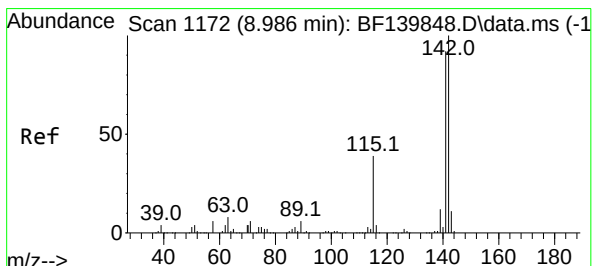
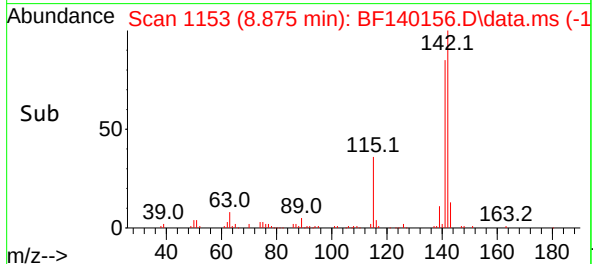
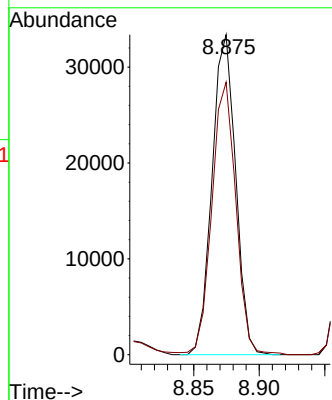
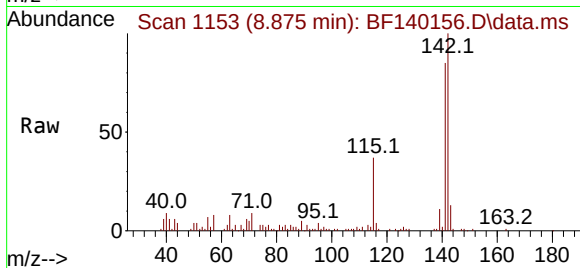
ClientSampleId :

WB-305-TOP

Tgt Ion:142 Resp: 41754
Ion Ratio Lower Upper
142 100
141 85.2 70.8 106.2

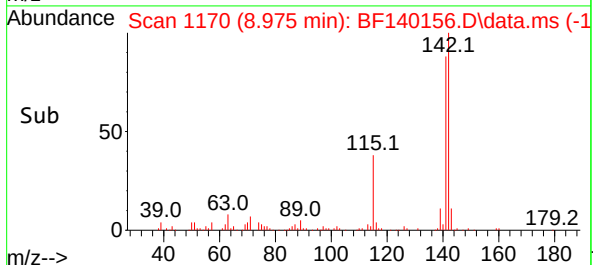
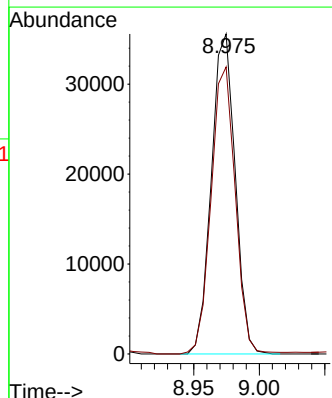
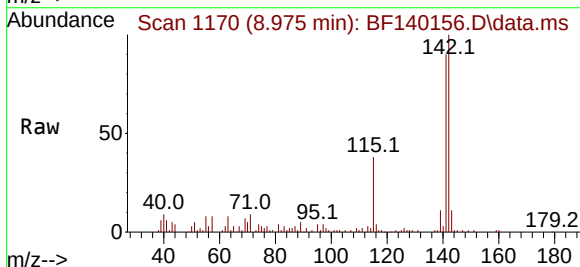
Manual Integrations
APPROVED

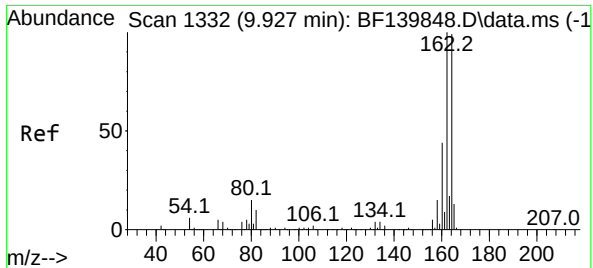
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



#38
1-Methylnaphthalene
Concen: 3.425 ng
RT: 8.975 min Scan# 1170
Delta R.T. -0.012 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:142 Resp: 44934
Ion Ratio Lower Upper
142 100
141 89.7 73.5 110.3





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 11

Delta R.T. -0.005 min

Lab File: BF140156.D

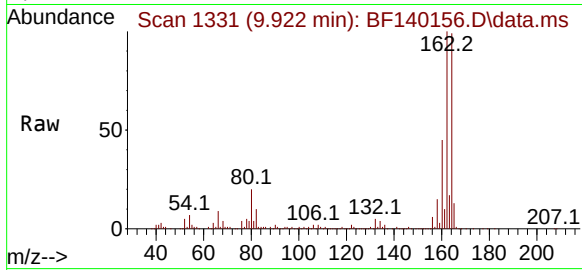
Acq: 30 Oct 2024 14:41

Instrument :

BNA_F

ClientSampleId :

WB-305-TOP



Tgt Ion:164 Resp: 22422

Ion Ratio Lower Upper

164 100

162 100.9 81.0 121.4

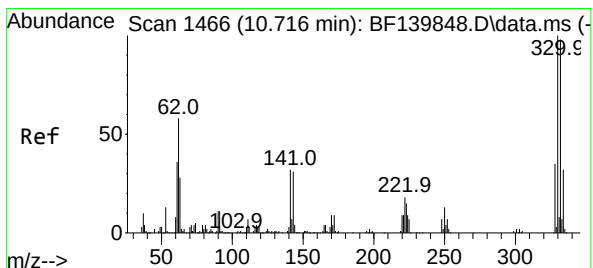
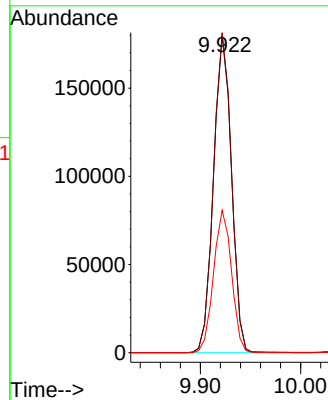
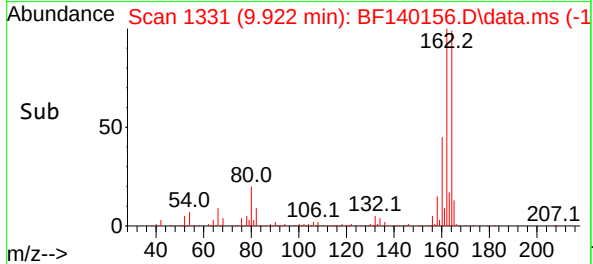
160 44.9 35.4 53.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :mohammad ahmed 11/04/2024



#42

2,4,6-Tribromophenol

Concen: 78.707 ng

RT: 10.716 min Scan# 1466

Delta R.T. 0.000 min

Lab File: BF140156.D

Acq: 30 Oct 2024 14:41

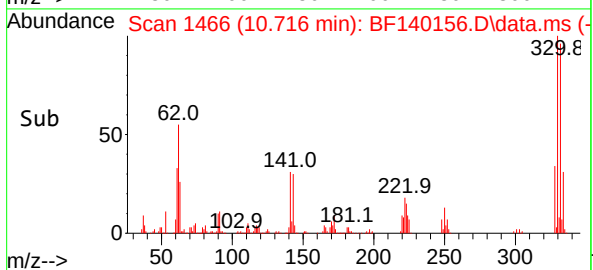
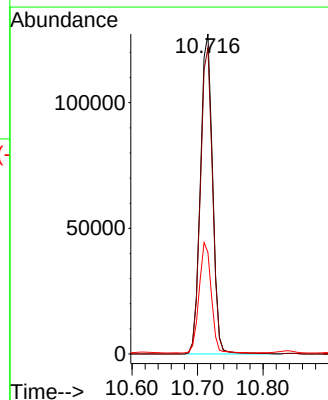
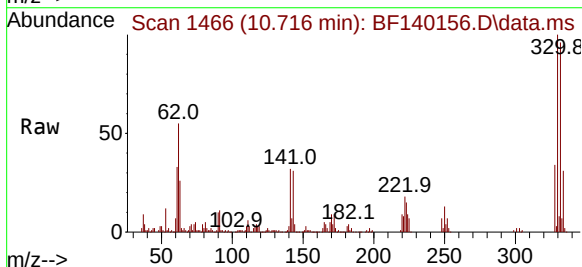
Tgt Ion:330 Resp: 165073

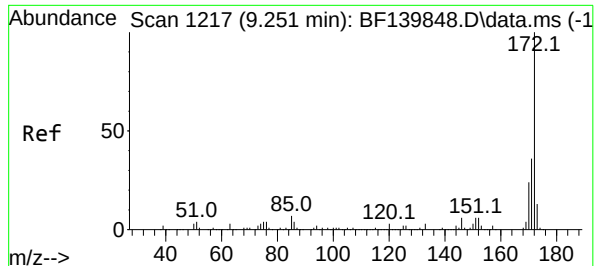
Ion Ratio Lower Upper

330 100

332 95.5 78.1 117.1

141 34.2 26.6 39.8





#45

2-Fluorobiphenyl

Concen: 58.151 ng

RT: 9.239 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF140156.D

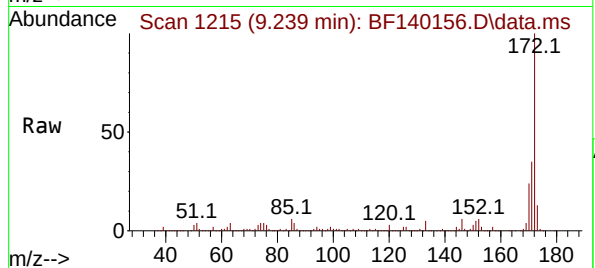
Acq: 30 Oct 2024 14:41

Instrument :

BNA_F

ClientSampleId :

WB-305-TOP



Tgt Ion:172 Resp: 78894

Ion Ratio Lower Upper

172 100

171 35.3 28.6 43.0

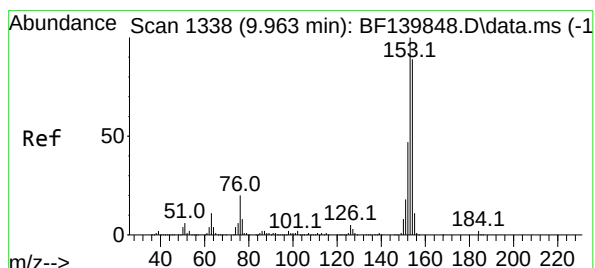
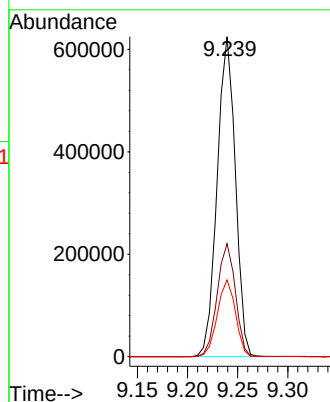
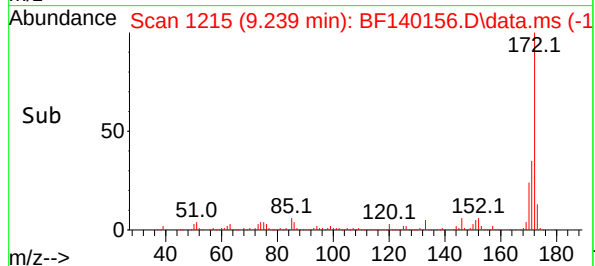
170 24.0 19.1 28.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :mohammad ahmed 11/04/2024



#52

Acenaphthene

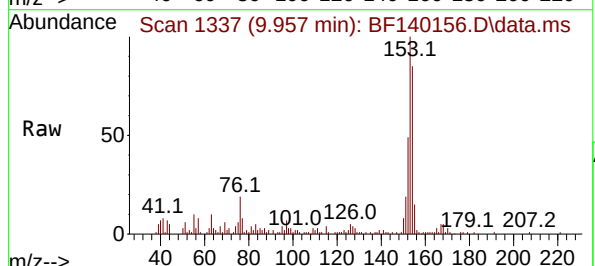
Concen: 3.054 ng

RT: 9.957 min Scan# 1337

Delta R.T. -0.006 min

Lab File: BF140156.D

Acq: 30 Oct 2024 14:41



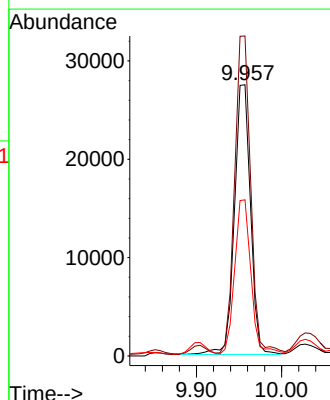
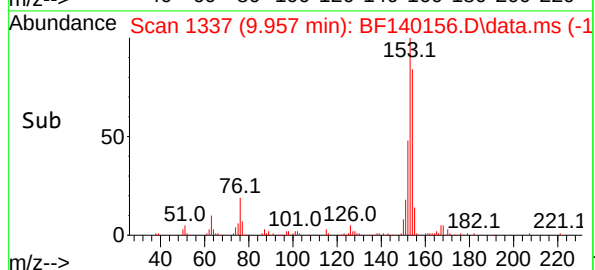
Tgt Ion:154 Resp: 35905

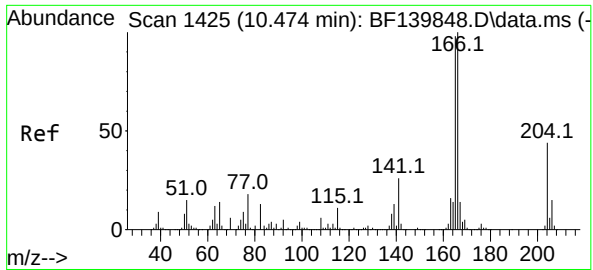
Ion Ratio Lower Upper

154 100

153 118.0 89.8 134.6

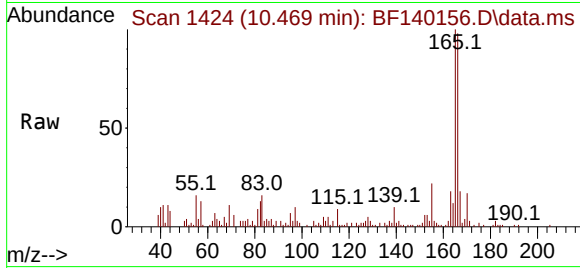
152 57.6 42.4 63.6





#58
Fluorene
Concen: 2.610 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

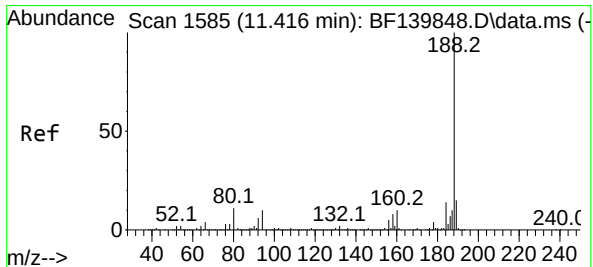
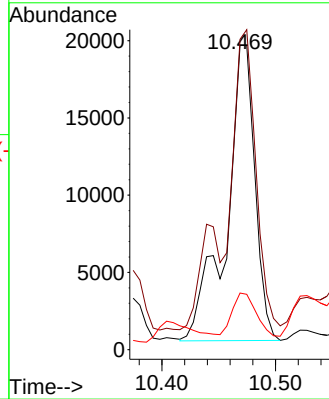
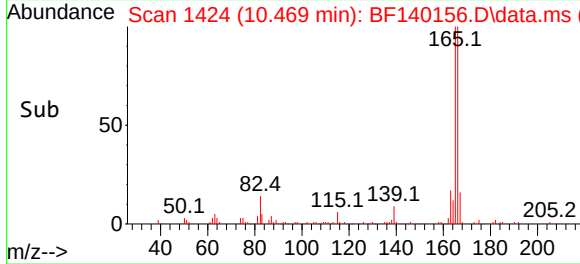
Instrument :
BNA_F
ClientSampleId :
WB-305-TOP



Tgt Ion:166 Resp: 33528
Ion Ratio Lower Upper
166 100
165 102.0 78.5 117.7
167 18.6 10.9 16.3

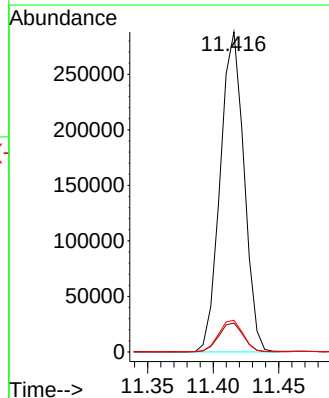
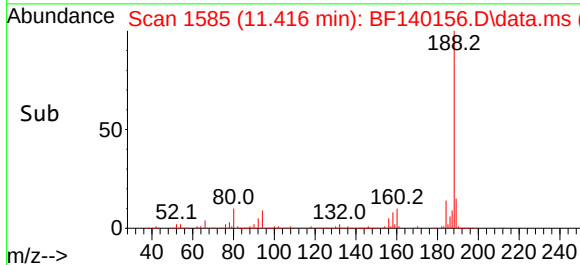
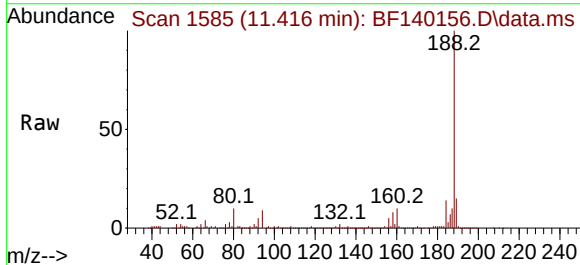
Manual Integrations
APPROVED

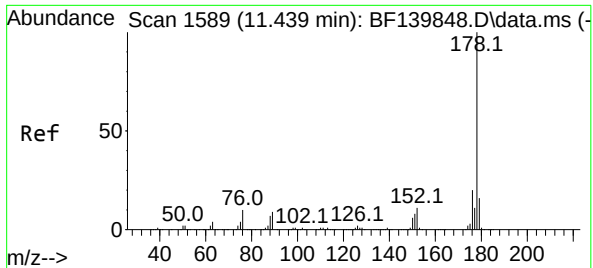
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1585
Delta R.T. 0.000 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

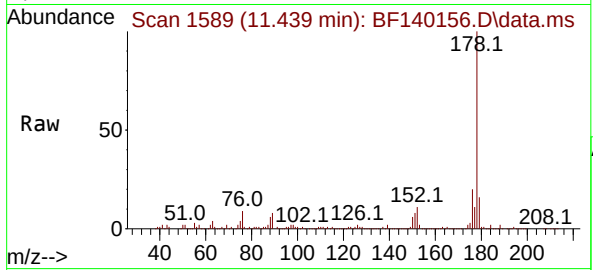
Tgt Ion:188 Resp: 363381
Ion Ratio Lower Upper
188 100
94 9.0 7.9 11.9
80 9.9 9.0 13.4





#71
Phenanthrene
Concen: 10.326 ng
RT: 11.439 min Scan# 1589
Delta R.T. 0.000 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

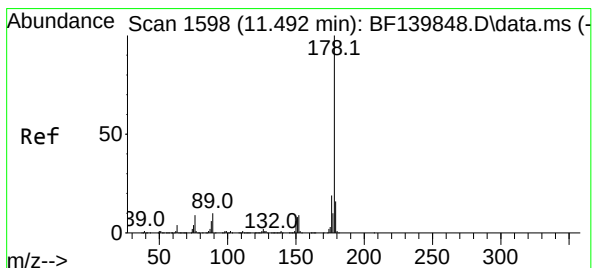
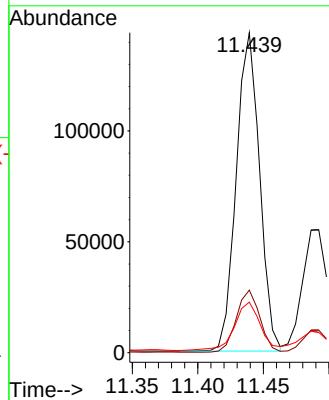
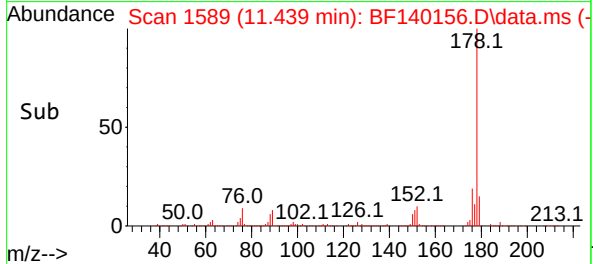
Instrument :
BNA_F
ClientSampleId :
WB-305-TOP



Tgt Ion:178 Resp: 177240
Ion Ratio Lower Upper
178 100
176 19.6 15.8 23.6
179 15.8 12.6 18.8

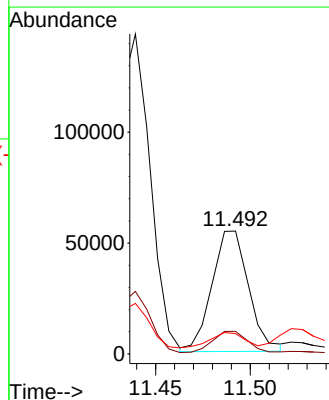
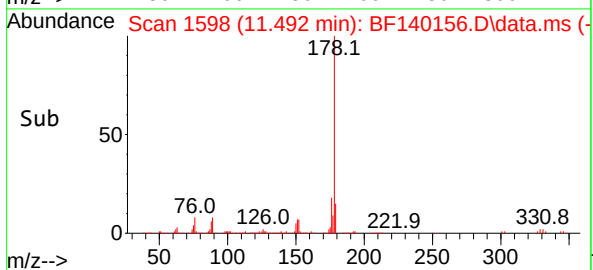
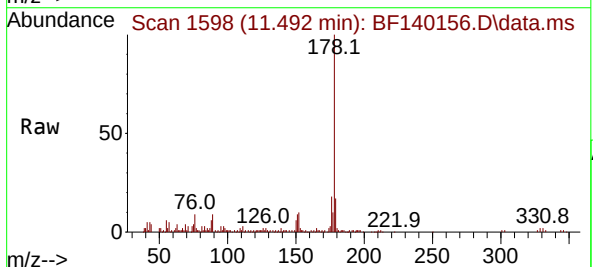
Manual Integrations
APPROVED

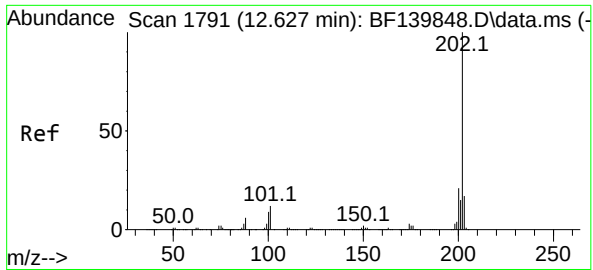
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



#72
Anthracene
Concen: 4.385 ng
RT: 11.492 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

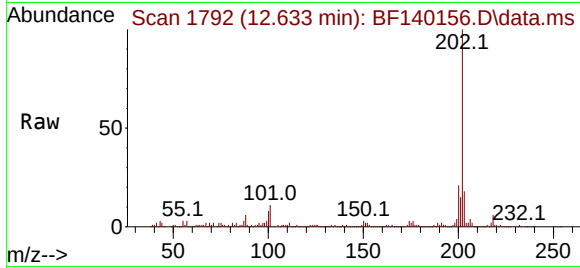
Tgt Ion:178 Resp: 73441
Ion Ratio Lower Upper
178 100
176 18.4 15.3 22.9
179 16.6 12.4 18.6





#75
Fluoranthene
Concen: 9.793 ng
RT: 12.633 min Scan# 1791
Delta R.T. 0.006 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

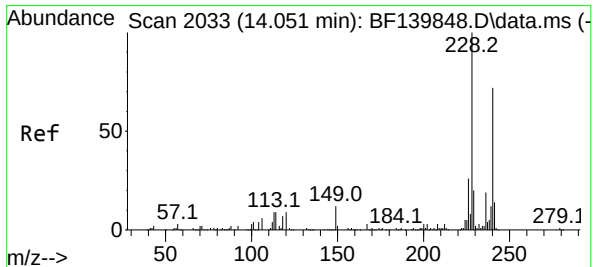
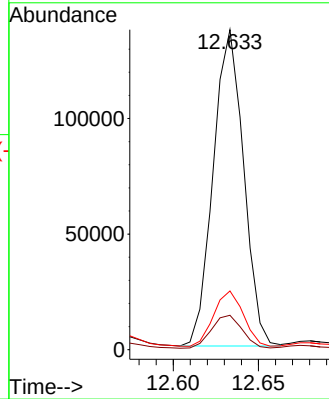
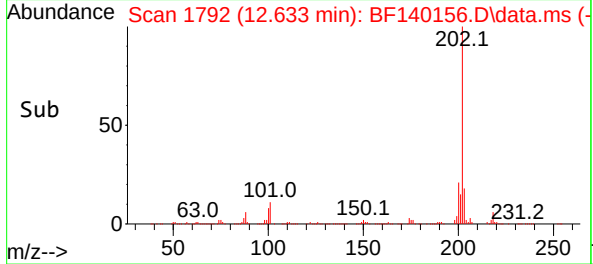
Instrument :
BNA_F
ClientSampleId :
WB-305-TOP



Tgt Ion:202 Resp: 169924
Ion Ratio Lower Upper
202 100
101 10.7 0.0 31.9
203 18.4 0.0 37.5

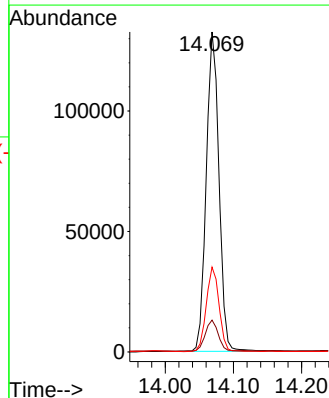
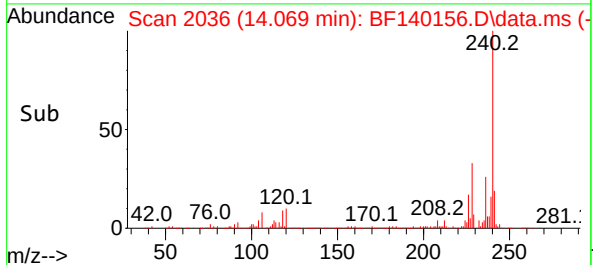
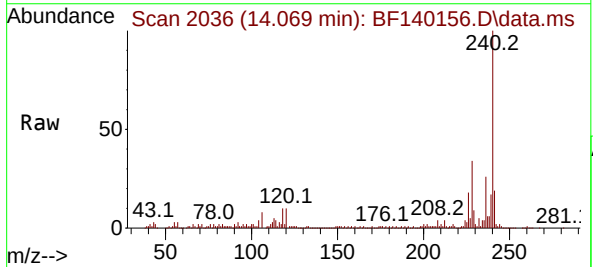
Manual Integrations
APPROVED

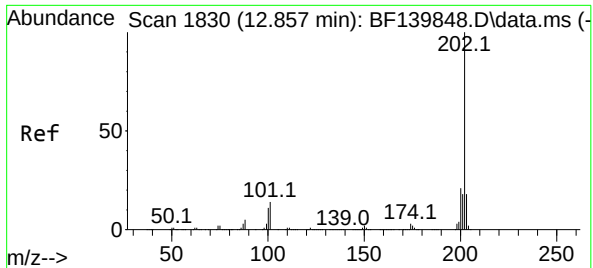
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 2036
Delta R.T. 0.018 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

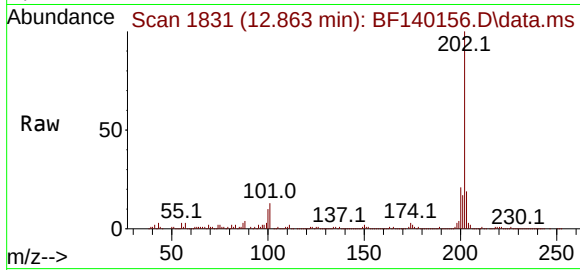
Tgt Ion:240 Resp: 172346
Ion Ratio Lower Upper
240 100
120 9.9 9.4 14.2
236 26.5 20.9 31.3





#78
Pyrene
Concen: 13.775 ng
RT: 12.863 min Scan# 1831
Delta R.T. 0.006 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

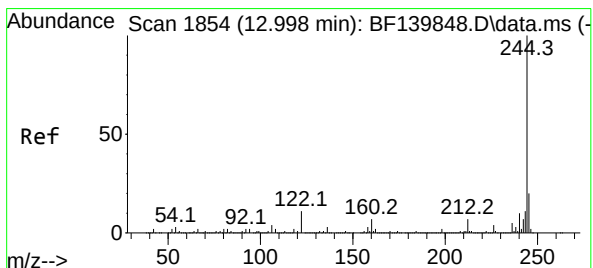
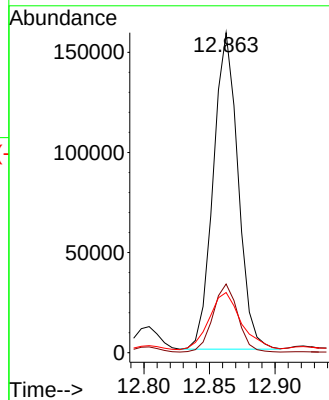
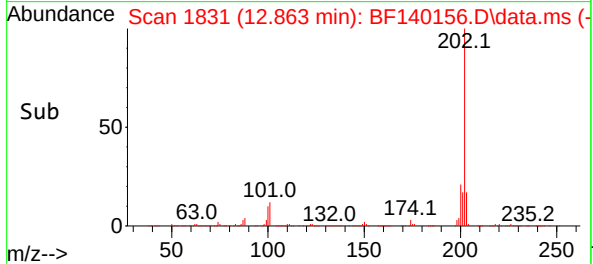
Instrument :
BNA_F
ClientSampleId :
WB-305-TOP



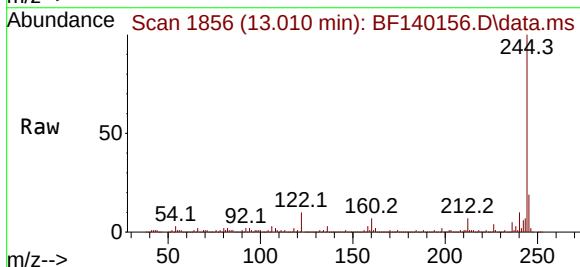
Tgt Ion:202 Resp: 207811
Ion Ratio Lower Upper
202 100
200 21.4 17.2 25.8
203 18.8 14.2 21.4

Manual Integrations
APPROVED

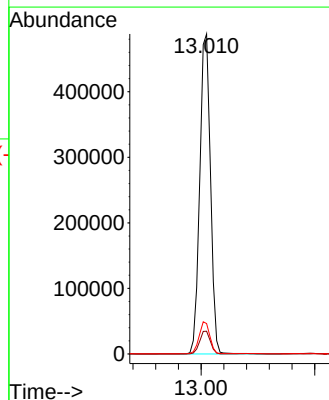
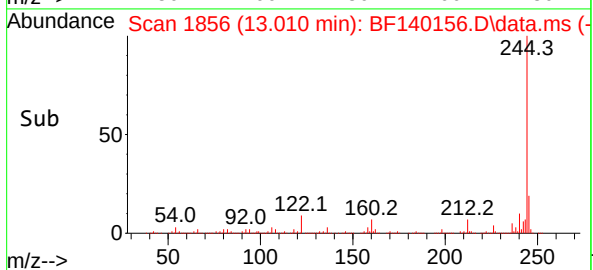
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

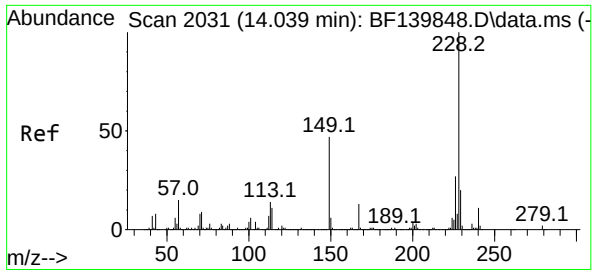


#79
Terphenyl-d14
Concen: 60.613 ng
RT: 13.010 min Scan# 1856
Delta R.T. 0.012 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41



Tgt Ion:244 Resp: 641093
Ion Ratio Lower Upper
244 100
212 7.1 5.7 8.5
122 9.5 8.6 13.0





#81

Benzo(a)anthracene

Concen: 8.927 ng

RT: 14.057 min Scan# 2031

Delta R.T. 0.018 min

Lab File: BF140156.D

Acq: 30 Oct 2024 14:41

Instrument :

BNA_F

ClientSampleId :

WB-305-TOP

Tgt Ion:228 Resp: 100152

Ion Ratio Lower Upper

228 100

226 44.1 21.6 32.4

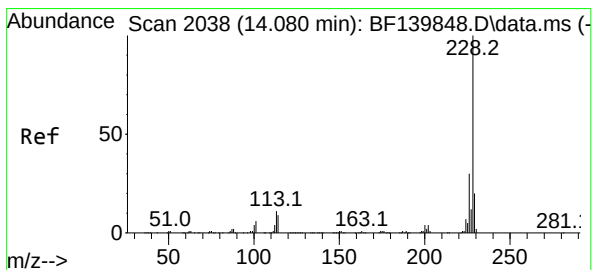
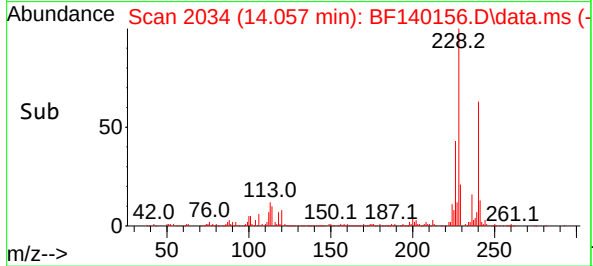
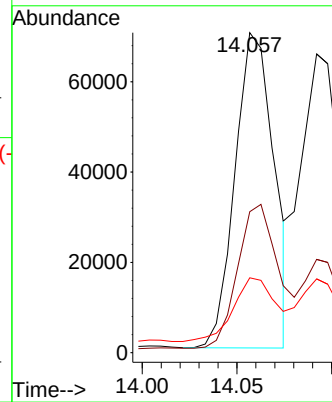
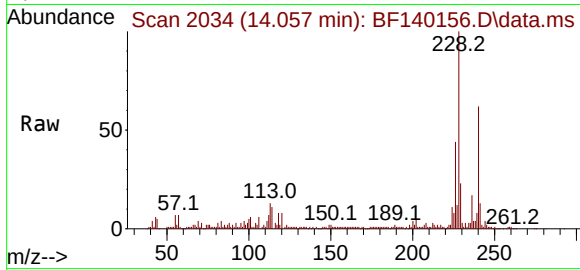
229 23.4 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :mohammad ahmed 11/04/2024



#83

Chrysene

Concen: 9.301 ng

RT: 14.092 min Scan# 2040

Delta R.T. 0.012 min

Lab File: BF140156.D

Acq: 30 Oct 2024 14:41

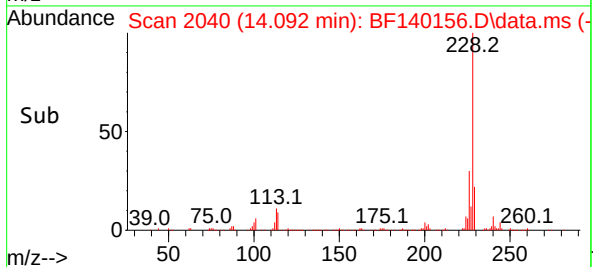
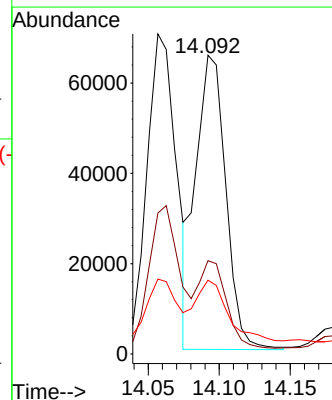
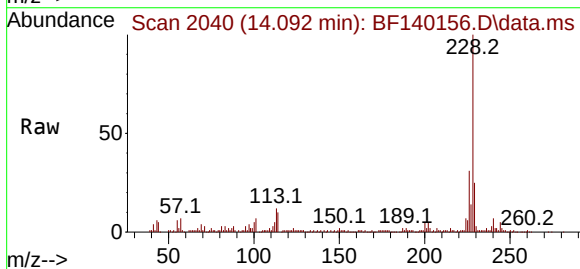
Tgt Ion:228 Resp: 95672

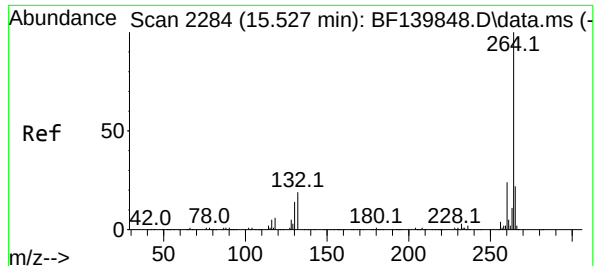
Ion Ratio Lower Upper

228 100

226 31.2 24.1 36.1

229 24.7 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.580 min Scan# 21

Delta R.T. 0.053 min

Lab File: BF140156.D

Acq: 30 Oct 2024 14:41

Instrument :

BNA_F

ClientSampleId :

WB-305-TOP

Tgt Ion:264 Resp: 22097

Ion Ratio Lower Upper

264 100

260 23.2 19.4 29.2

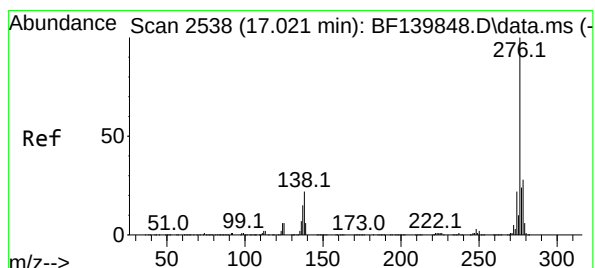
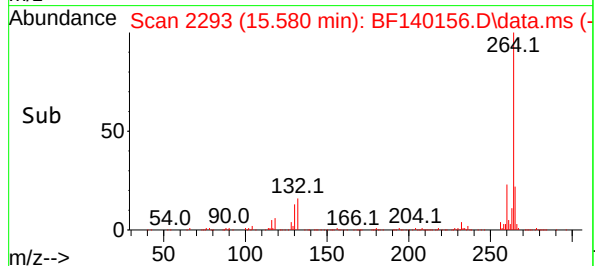
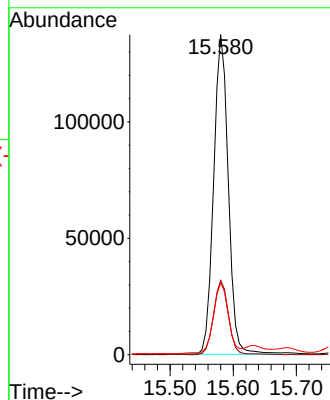
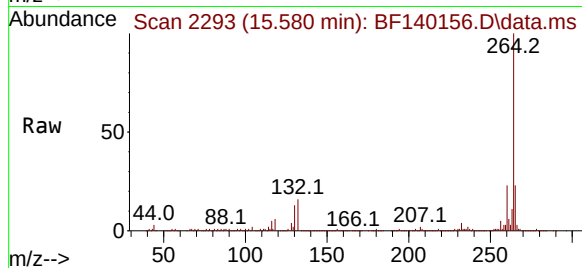
265 22.5 17.4 26.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :mohammad ahmed 11/04/2024



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.958 ng

RT: 17.098 min Scan# 2551

Delta R.T. 0.077 min

Lab File: BF140156.D

Acq: 30 Oct 2024 14:41

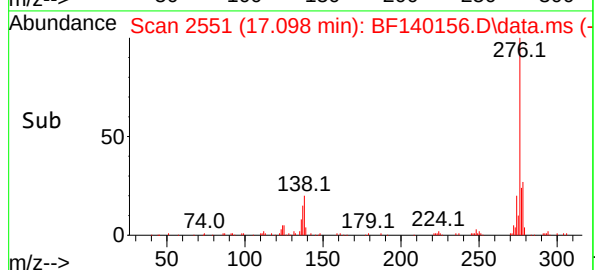
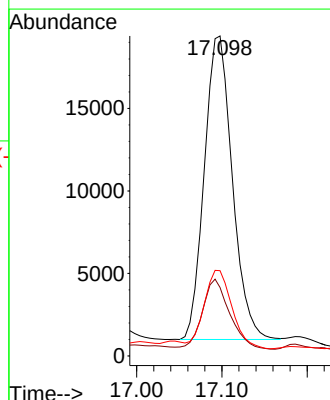
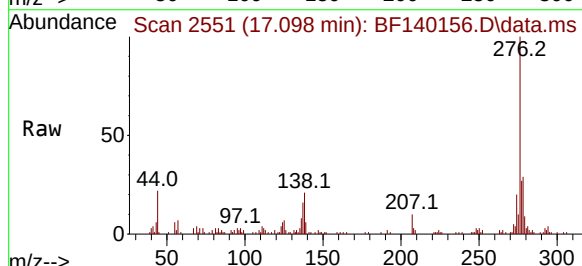
Tgt Ion:276 Resp: 42053

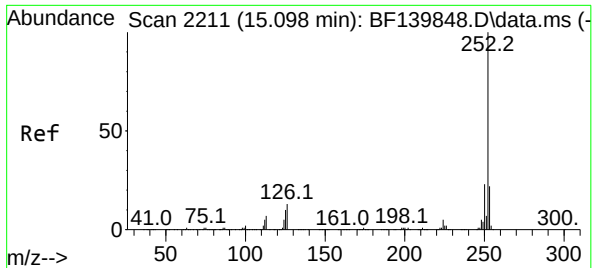
Ion Ratio Lower Upper

276 100

138 22.6 20.4 30.6

277 25.7 20.2 30.4





#88

Benzo(b)fluoranthene

Concen: 6.433 ng m

RT: 15.139 min Scan# 2218

Delta R.T. 0.041 min

Lab File: BF140156.D

Acq: 30 Oct 2024 14:41

Instrument :

BNA_F

ClientSampleId :

WB-305-TOP

Tgt Ion:252 Resp: 8658

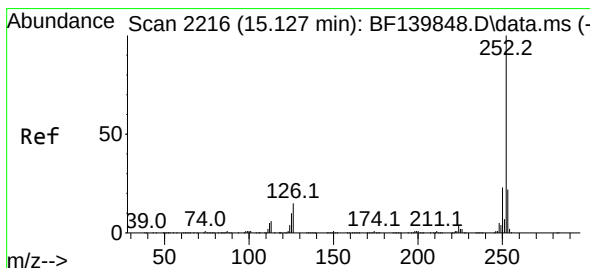
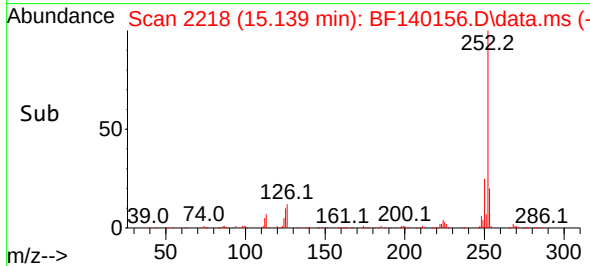
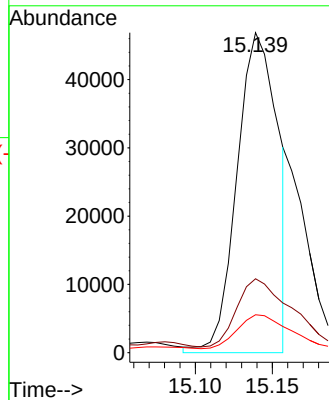
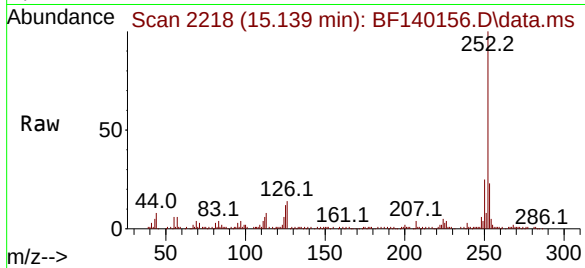
Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.6	26.4
125	11.9	7.9	11.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :mohammad ahmed 11/04/2024



#89

Benzo(k)fluoranthene

Concen: 2.539 ng m

RT: 15.157 min Scan# 2221

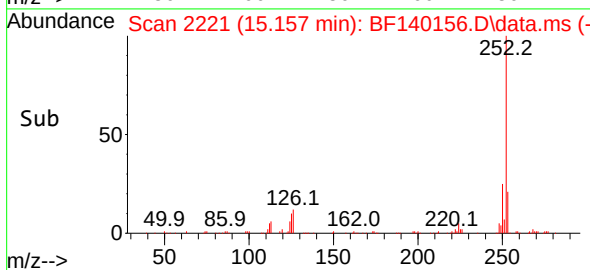
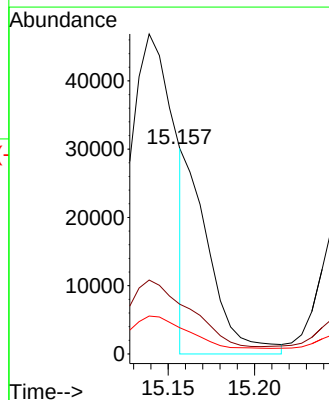
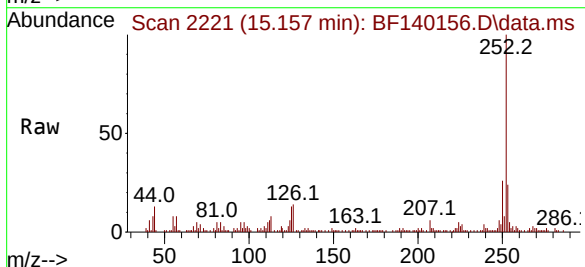
Delta R.T. 0.030 min

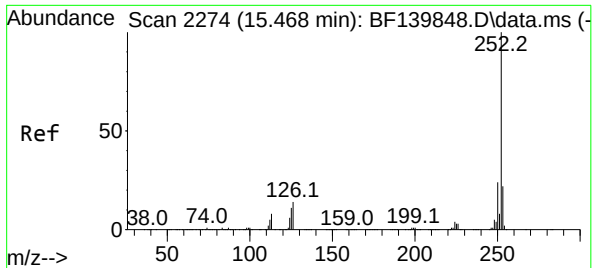
Lab File: BF140156.D

Acq: 30 Oct 2024 14:41

Tgt Ion:252 Resp: 29472

Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.6	26.4
125	12.8	7.9	11.9





#90

Benzo(a)pyrene

Concen: 8.501 ng

RT: 15.515 min Scan# 21

Delta R.T. 0.047 min

Lab File: BF140156.D

Acq: 30 Oct 2024 14:41

Instrument :

BNA_F

ClientSampleId :

WB-305-TOP

Tgt Ion:252 Resp: 9416

Ion Ratio Lower Upper

252 100

253 24.4 17.3 25.9

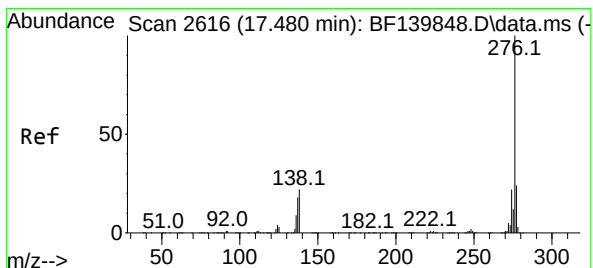
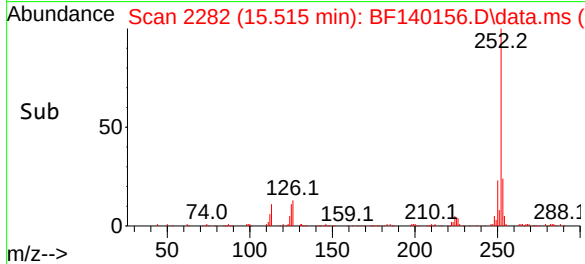
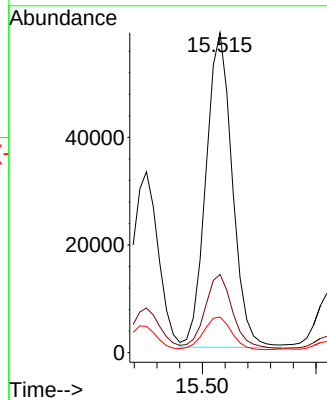
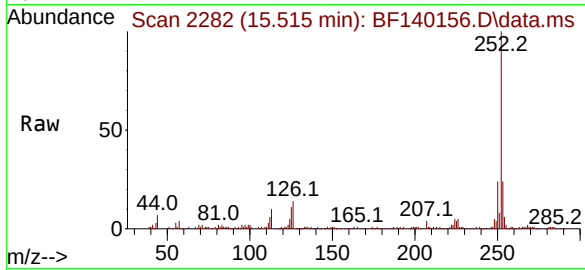
125 11.2 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :mohammad ahmed 11/04/2024



#92

Benzo(g,h,i)perylene

Concen: 3.654 ng

RT: 17.551 min Scan# 2628

Delta R.T. 0.071 min

Lab File: BF140156.D

Acq: 30 Oct 2024 14:41

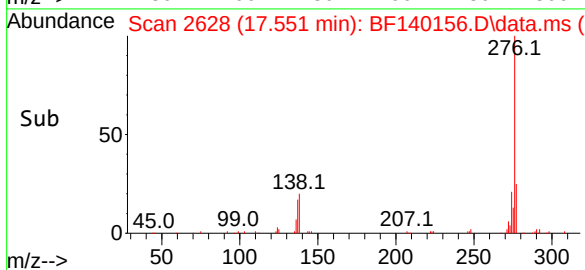
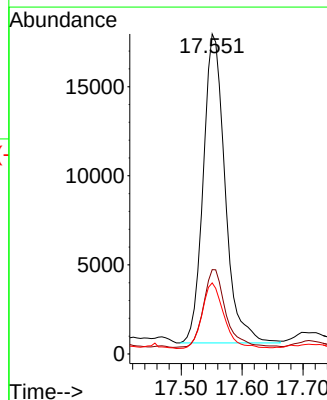
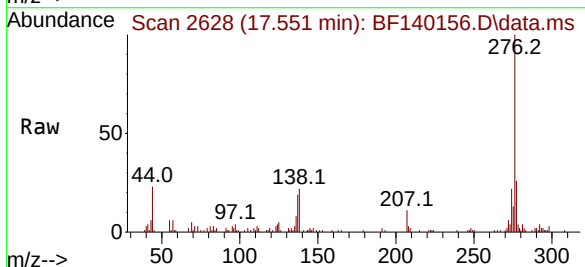
Tgt Ion:276 Resp: 43282

Ion Ratio Lower Upper

276 100

277 26.4 19.0 28.6

138 22.2 17.4 26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
 Data File : BF140156.D
 Acq On : 30 Oct 2024 14:41
 Operator : RC/JU
 Sample : P4578-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WB-305-TOP

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-BF101824.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140156.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.181	7	15	26	rVB	1139608	1813109	78.14%	5.927%
2	3.981	316	321	333	rVB	48257	79826	3.44%	0.261%
3	5.498	573	579	584	rBV	1629989	2148736	92.61%	7.024%
4	6.498	743	749	755	rBV	1549152	2219830	95.67%	7.256%
5	6.881	809	814	819	rBV	575806	696360	30.01%	2.276%
6	6.940	820	824	828	rBV	31671	38222	1.65%	0.125%
7	7.151	850	860	864	rBV3	24936	45790	1.97%	0.150%
8	7.198	864	868	874	rVB	52983	66791	2.88%	0.218%
9	7.275	874	881	889	rBV	37299	56356	2.43%	0.184%
10	7.345	889	893	895	rBV	31648	44372	1.91%	0.145%
11	7.440	900	909	914	rBV	1124707	1568450	67.60%	5.127%
12	7.528	919	924	927	rBV4	30086	46647	2.01%	0.152%
13	7.645	938	944	946	rBV	89646	121968	5.26%	0.399%
14	7.675	946	949	958	rVB2	148143	258406	11.14%	0.845%
15	7.763	958	964	965	rBV2	31487	40037	1.73%	0.131%
16	7.834	970	976	980	rVB3	66133	122806	5.29%	0.401%
17	7.898	980	987	991	rBV2	138606	234344	10.10%	0.766%
18	7.975	997	1000	1006	rVB2	40914	63277	2.73%	0.207%
19	8.163	1024	1032	1039	rBV2	735066	1211555	52.22%	3.960%
20	8.216	1039	1041	1045	rVV	43451	56713	2.44%	0.185%
21	8.375	1063	1068	1074	rVB4	26733	44966	1.94%	0.147%
22	8.457	1074	1082	1087	rBV5	42929	89434	3.85%	0.292%
23	8.581	1099	1103	1108	rBV	61934	87960	3.79%	0.288%
24	8.751	1127	1132	1136	rVV	187480	224222	9.66%	0.733%
25	8.810	1136	1142	1145	rVV7	18763	45121	1.94%	0.147%
26	8.875	1149	1153	1157	rVB	109572	138694	5.98%	0.453%
27	8.975	1165	1170	1174	rVB	122813	161448	6.96%	0.528%
28	9.039	1177	1181	1184	rBV3	28492	51062	2.20%	0.167%
29	9.186	1203	1206	1209	rVB	45507	54440	2.35%	0.178%
30	9.239	1209	1215	1220	rBV	1836985	2320319	100.00%	7.584%
31	9.322	1224	1229	1234	rBV	167587	233406	10.06%	0.763%
32	9.439	1244	1249	1254	rVB	58606	93637	4.04%	0.306%
33	9.504	1254	1260	1264	rBV	70816	112777	4.86%	0.369%
34	9.575	1268	1272	1275	rVV	129258	191144	8.24%	0.625%
35	9.604	1275	1277	1280	rVV	72033	85638	3.69%	0.280%
36	9.639	1280	1283	1289	rVV3	70631	118034	5.09%	0.386%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
 Data File : BF140156.D
 Acq On : 30 Oct 2024 14:41
 Operator : RC/JU
 Sample : P4578-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WB-305-TOP

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-BF101824.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	9.698	1289	1293	1302	rVB	73504	109800	4.73%	0.359%
38	9.781	1303	1307	1312	rVB	84935	110176	4.75%	0.360%
39	9.851	1312	1319	1323	rBV	105735	149389	6.44%	0.488%
40	9.922	1324	1331	1335	rBV	772335	1030064	44.39%	3.367%
41	9.957	1335	1337	1340	rVB	122211	117815	5.08%	0.385%
42	10.028	1345	1349	1353	rVB	40626	59065	2.55%	0.193%
43	10.081	1353	1358	1361	rBV3	30741	54759	2.36%	0.179%
44	10.122	1361	1365	1369	rBV2	61261	78573	3.39%	0.257%
45	10.163	1369	1372	1381	rVB3	55047	81383	3.51%	0.266%
46	10.239	1381	1385	1387	rBV2	51574	66883	2.88%	0.219%
47	10.269	1387	1390	1396	rVB2	38529	50624	2.18%	0.165%
48	10.328	1396	1400	1402	rBV	52812	77476	3.34%	0.253%
49	10.469	1421	1424	1430	rVB2	73573	103046	4.44%	0.337%
50	10.522	1430	1433	1437	rBV	37659	66415	2.86%	0.217%
51	10.581	1440	1443	1447	rVV2	61651	88605	3.82%	0.290%
52	10.639	1448	1453	1459	rVB	378572	498736	21.49%	1.630%
53	10.710	1459	1465	1470	rBV	1033895	1388483	59.84%	4.539%
54	10.839	1482	1487	1493	rVB2	80570	126022	5.43%	0.412%
55	11.016	1513	1517	1520	rVV2	74019	117349	5.06%	0.384%
56	11.051	1520	1523	1526	rVV2	54680	74916	3.23%	0.245%
57	11.104	1529	1532	1536	rVB	42980	51972	2.24%	0.170%
58	11.310	1563	1567	1574	rVB2	74826	113685	4.90%	0.372%
59	11.416	1580	1585	1588	rBV	701627	1059810	45.68%	3.464%
60	11.486	1593	1597	1601	rVV	125535	164549	7.09%	0.538%
61	11.657	1622	1626	1630	rBV5	31113	59778	2.58%	0.195%
62	11.745	1638	1641	1652	rVB	52247	82686	3.56%	0.270%
63	11.833	1653	1656	1659	rVB2	30049	37450	1.61%	0.122%
64	11.916	1666	1670	1672	rBV	154515	199659	8.60%	0.653%
65	11.945	1672	1675	1680	rVV	335354	462993	19.95%	1.513%
66	11.992	1680	1683	1686	rVV	110757	164391	7.08%	0.537%
67	12.033	1686	1690	1698	rVB	273277	575319	24.79%	1.881%
68	12.216	1717	1721	1725	rVB	64028	89567	3.86%	0.293%
69	12.363	1741	1746	1749	rBV2	68325	112158	4.83%	0.367%
70	12.469	1761	1764	1768	rBV	124084	170078	7.33%	0.556%
71	12.510	1768	1771	1776	rVB2	98688	152420	6.57%	0.498%
72	12.563	1777	1780	1788	rVB3	62383	132003	5.69%	0.431%
73	12.633	1788	1792	1795	rBV	335956	423354	18.25%	1.384%
74	12.675	1795	1799	1805	rVV	408029	525065	22.63%	1.716%
75	12.727	1805	1808	1815	rVB	97115	134610	5.80%	0.440%
76	12.827	1822	1825	1827	rBV2	50774	62484	2.69%	0.204%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

77	12.863	1827	1831	1837	rVB	341847	492129	21.21%	1.609%
78	13.010	1851	1856	1863	rVB	1272155	1735511	74.80%	5.673%
79	13.080	1864	1868	1875	rBV2	73263	137069	5.91%	0.448%
80	13.192	1881	1887	1891	rVB2	138075	262986	11.33%	0.860%
81	13.257	1892	1898	1902	rVV2	103090	183318	7.90%	0.599%
82	13.298	1902	1905	1912	rVB	83710	121628	5.24%	0.398%
83	13.386	1918	1920	1923	rVV2	47227	52889	2.28%	0.173%
84	13.422	1923	1926	1935	rVB	77620	132826	5.72%	0.434%
85	13.539	1943	1946	1949	rBV	38329	41290	1.78%	0.135%
86	14.069	2030	2036	2047	rVB2	496086	1020451	43.98%	3.336%
87	14.463	2100	2103	2107	rVB	60889	81254	3.50%	0.266%
88	14.563	2117	2120	2123	rVB2	41837	51113	2.20%	0.167%
89	15.139	2213	2218	2229	rVV	113691	271135	11.69%	0.886%
90	15.245	2233	2236	2242	rVB	47967	76857	3.31%	0.251%
91	15.451	2266	2271	2276	rVV	81181	128470	5.54%	0.420%
92	15.515	2277	2282	2287	rVV	145895	227402	9.80%	0.743%
93	15.580	2287	2293	2306	rVB	360785	636013	27.41%	2.079%
94	17.092	2545	2550	2558	rBV2	52397	115123	4.96%	0.376%
95	17.168	2558	2563	2571	rVB9	26750	57065	2.46%	0.187%
96	17.380	2591	2599	2610	rVB4	78214	213657	9.21%	0.698%
97	17.551	2621	2628	2636	rBV	44577	107127	4.62%	0.350%
98	17.804	2666	2671	2678	rVB	17705	41383	1.78%	0.135%
99	17.968	2693	2699	2707	rVB	19614	57836	2.49%	0.189%
100	18.345	2756	2763	2775	rVB9	40378	139161	6.00%	0.455%

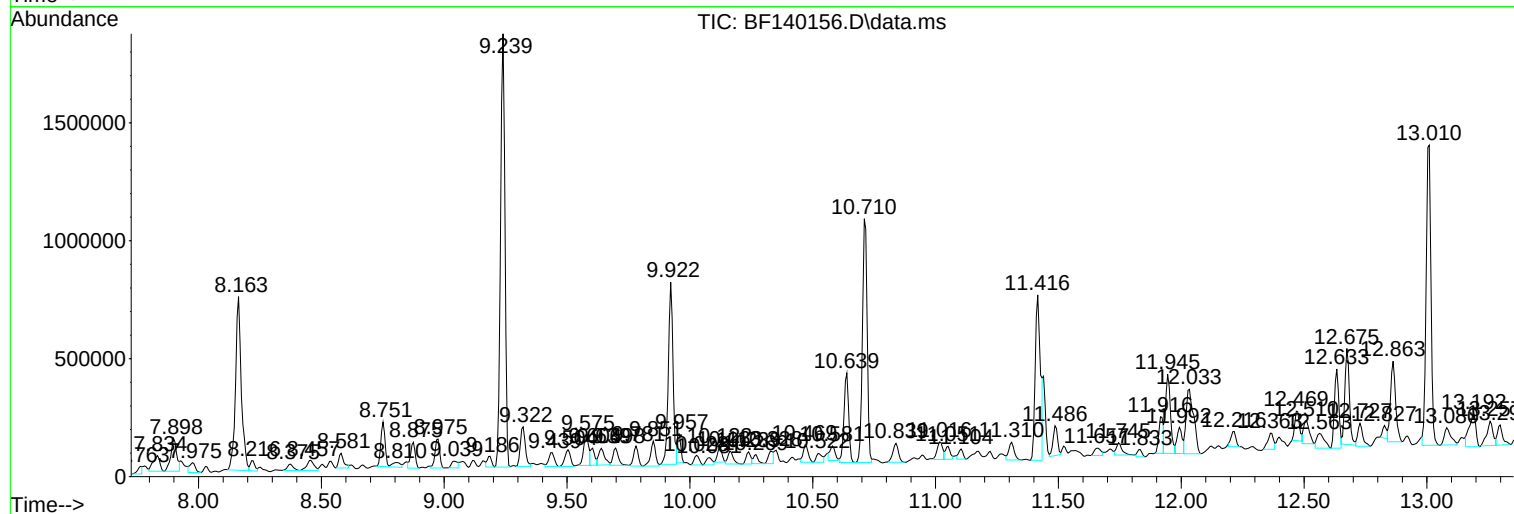
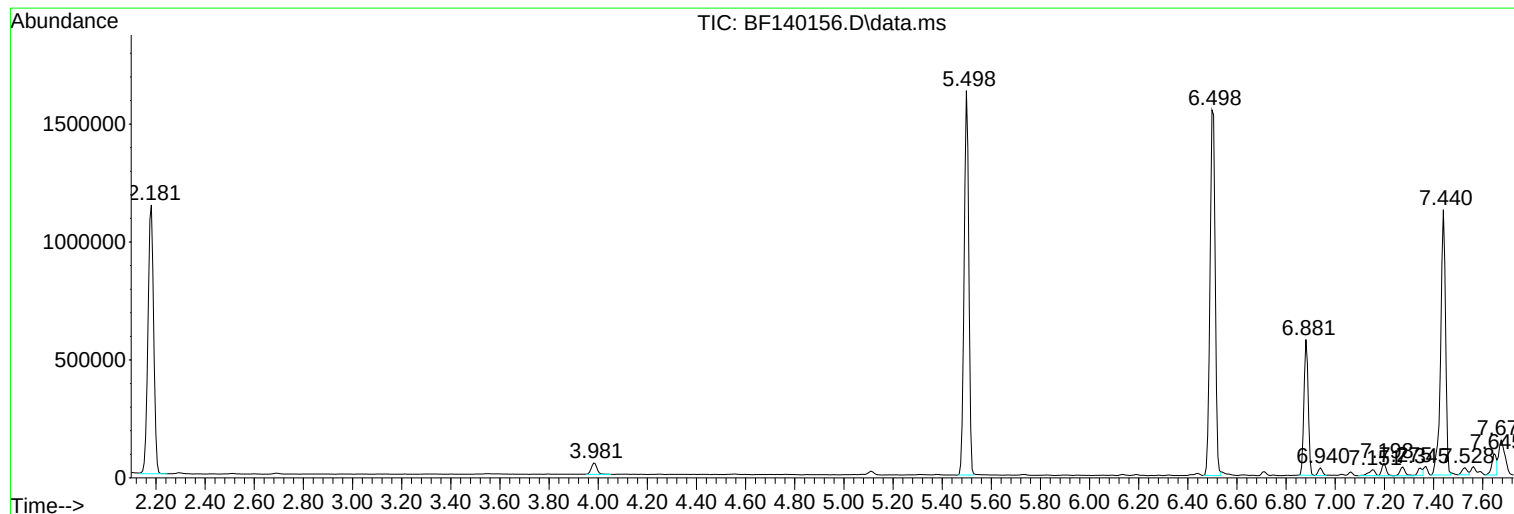
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

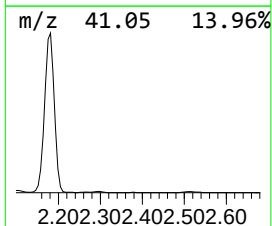
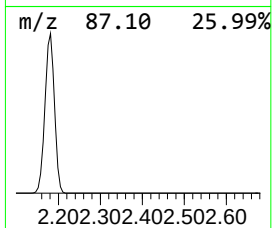
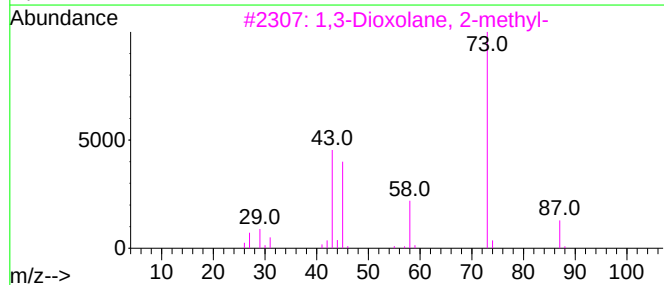
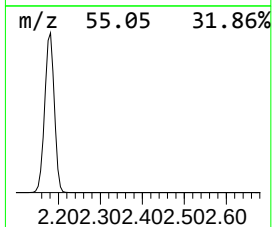
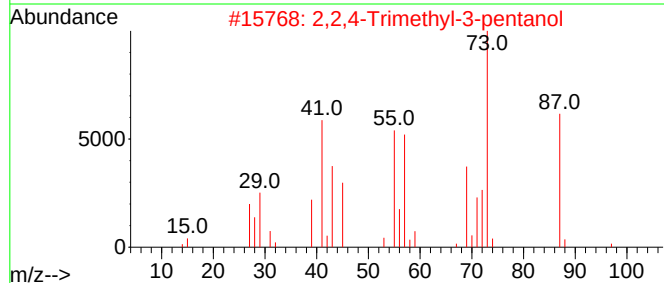
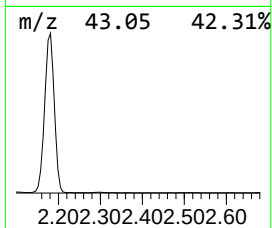
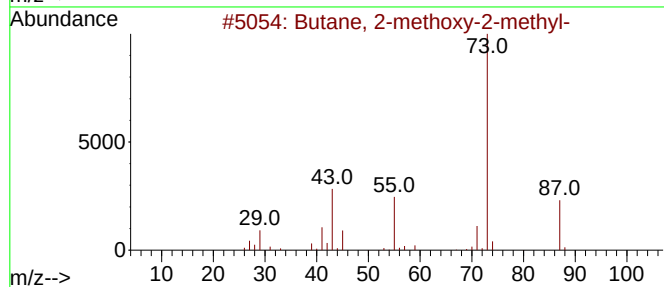
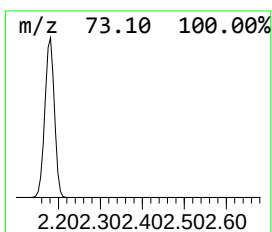
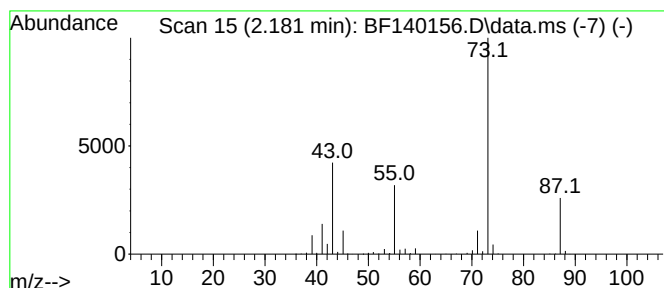
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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.
2.181	52.07 ng	1813110	1,4-Dichlorobenzene-d4	6.881

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			Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12
5			N-Ethylformamide	73	C3H7NO	000627-45-2	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

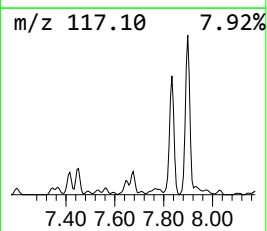
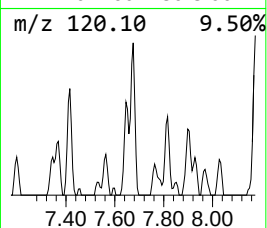
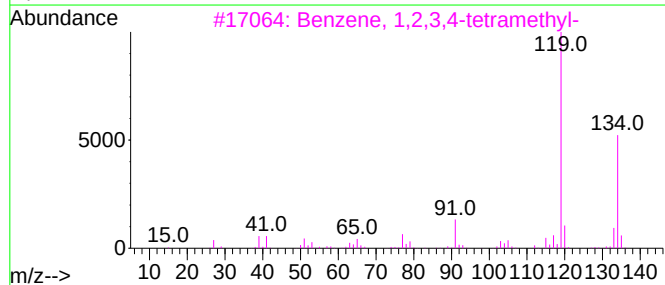
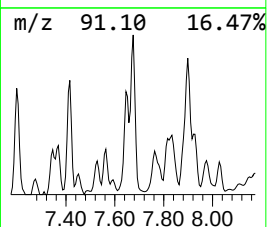
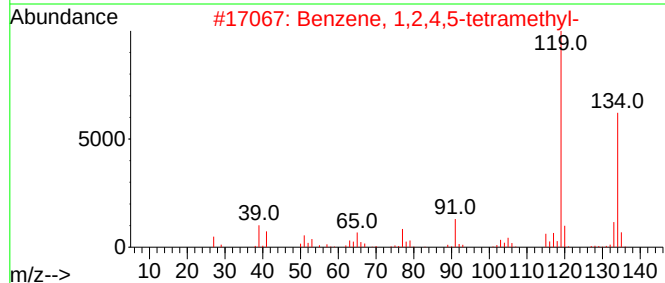
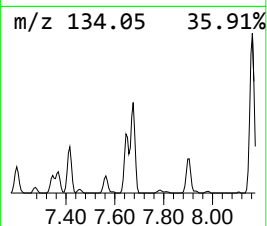
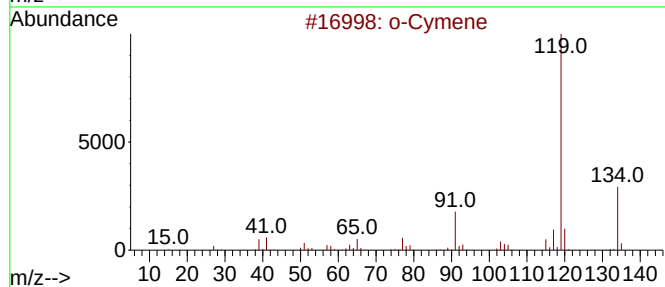
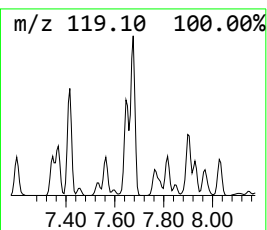
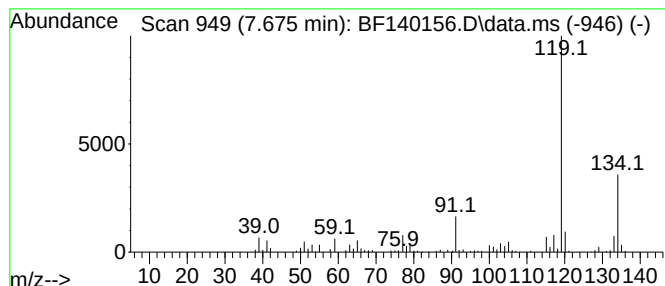
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 o-Cymene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.675	4.27 ng	258406	Naphthalene-d8	8.163

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			o-Cymene	134	C10H14	000527-84-4	94
2			Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	91
3			Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	91
4			Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91
5			Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

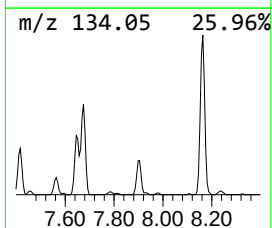
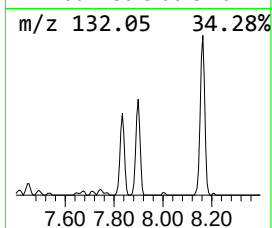
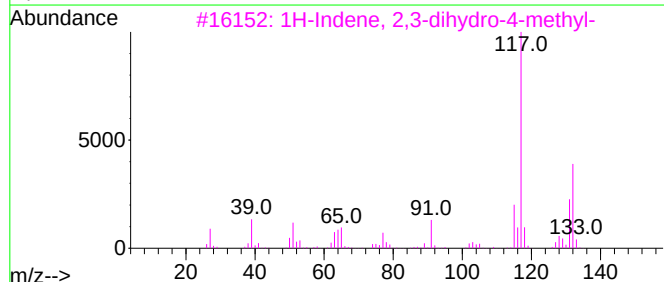
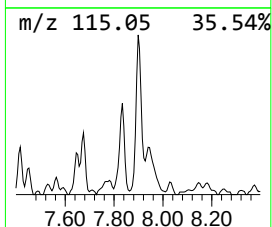
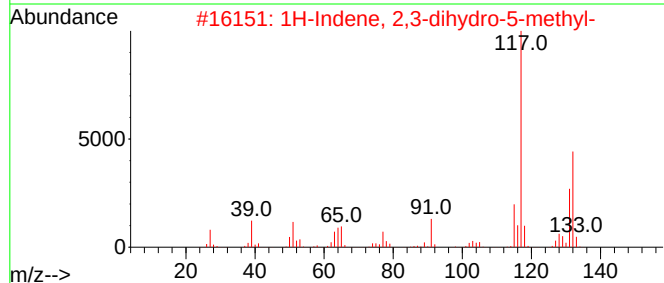
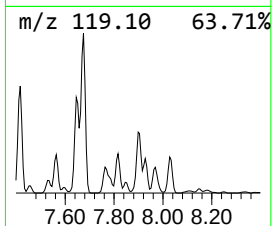
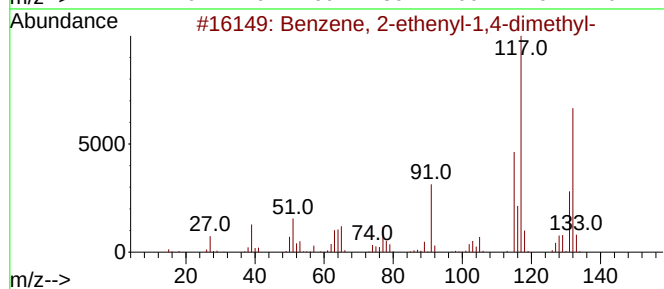
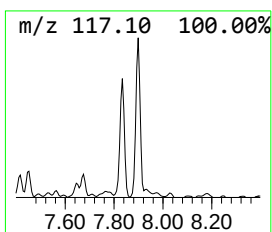
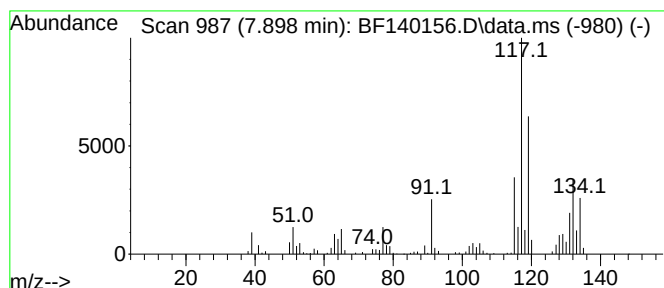
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.898	3.87 ng	234344	Naphthalene-d8	8.163

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	90
2		1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	64
3		1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	64
4		3-Phenylbut-1-ene	132	C10H12	000934-10-1	64
5		Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	60



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

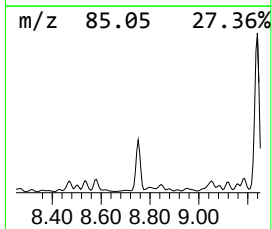
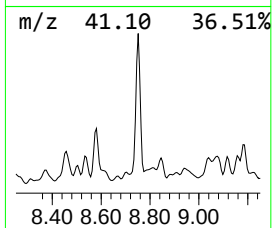
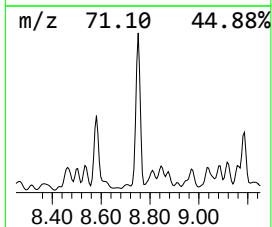
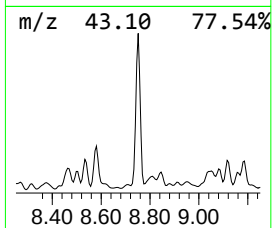
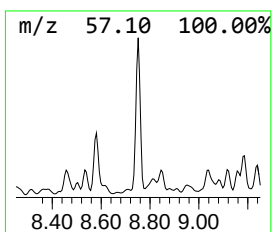
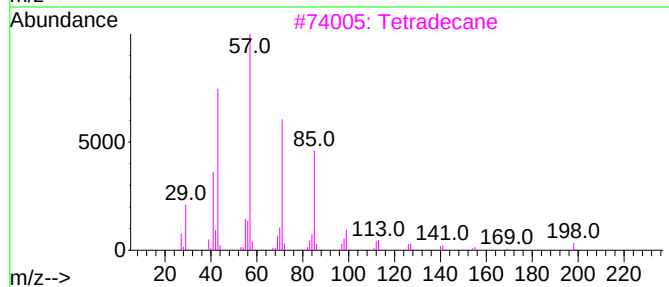
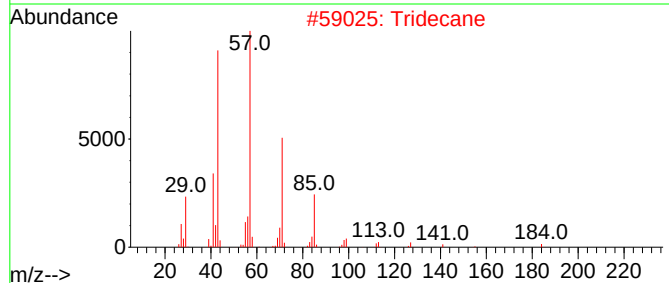
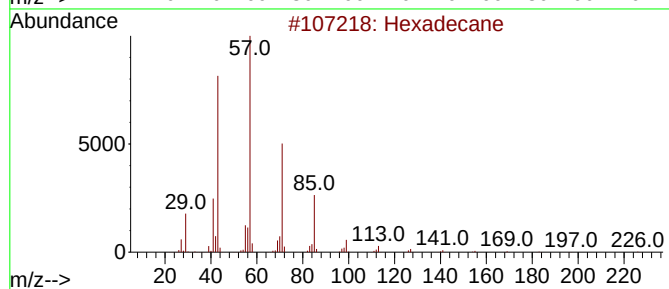
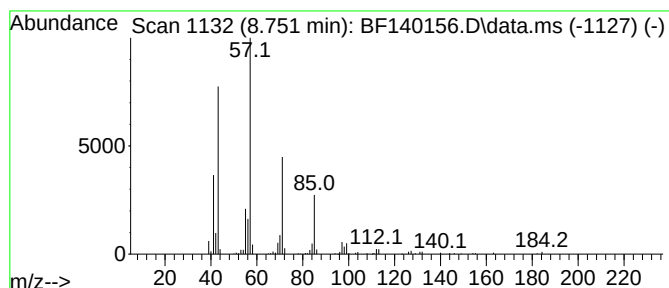
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Hexadecane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.751	3.70 ng	224222	Naphthalene-d8	8.163

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexadecane	226	C16H34	000544-76-3	90
2			Tridecane	184	C13H28	000629-50-5	87
3			Tetradecane	198	C14H30	000629-59-4	83
4			Dodecane	170	C12H26	000112-40-3	72
5			Dodecane, 1-iodo-	296	C12H25I	004292-19-7	72



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
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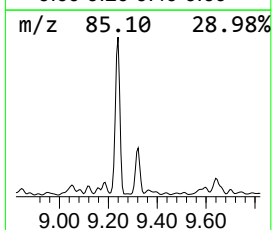
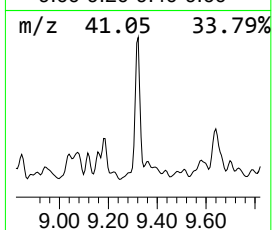
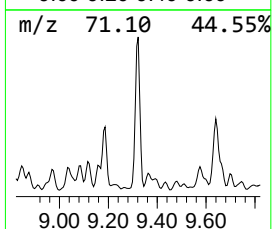
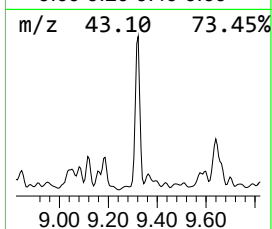
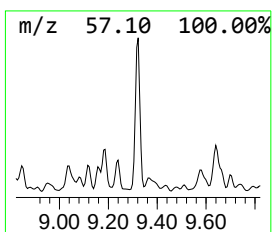
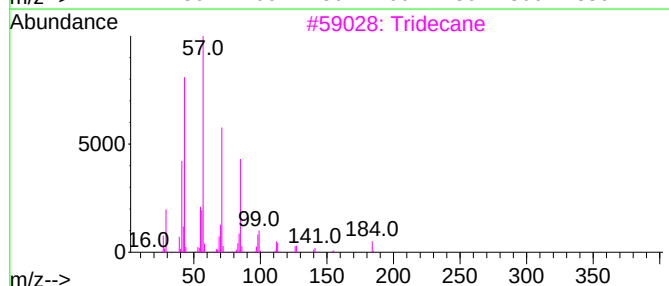
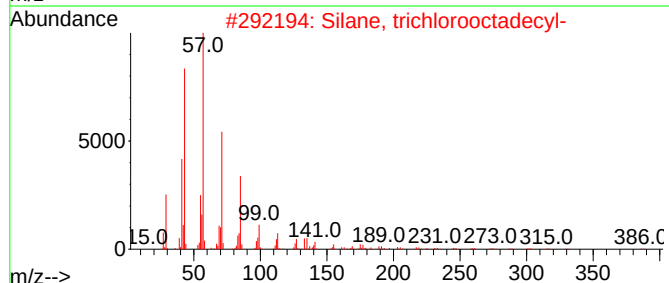
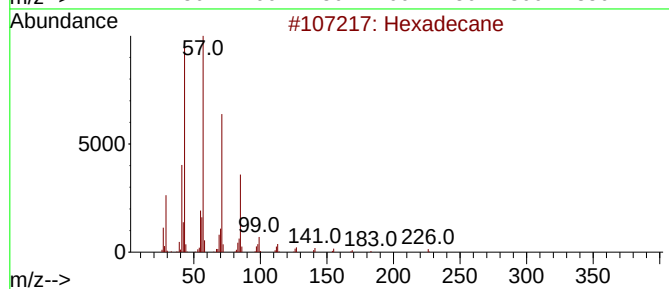
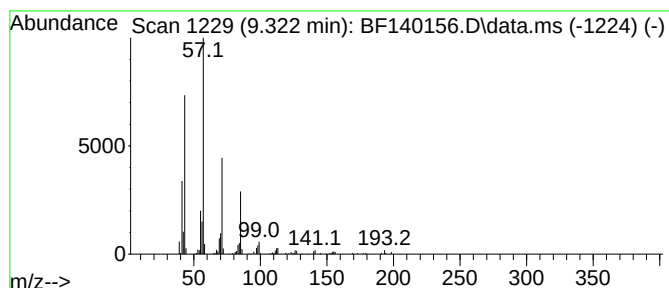
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Silane, trichlorooctadecyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.	
9.322	4.53 ng	233406	Acenaphthene-d10	9.922	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	91
2	Silane, trichlorooctadecyl-	386	C18H37Cl3Si	000112-04-9	90
3	Tridecane	184	C13H28	000629-50-5	90
4	Undecane	156	C11H24	001120-21-4	87
5	Tetradecane	198	C14H30	000629-59-4	87



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
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Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

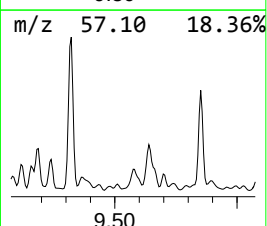
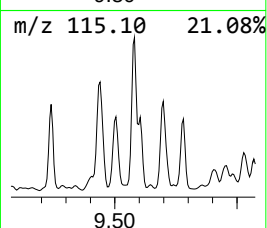
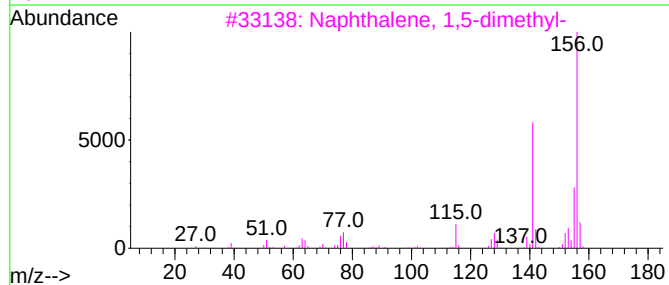
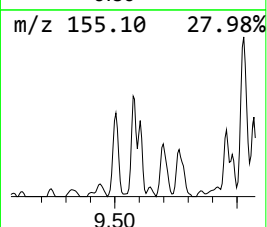
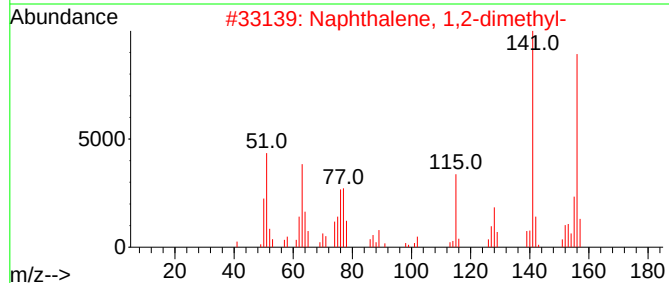
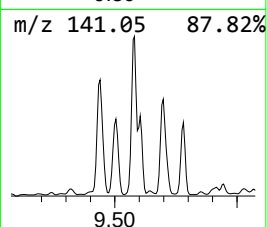
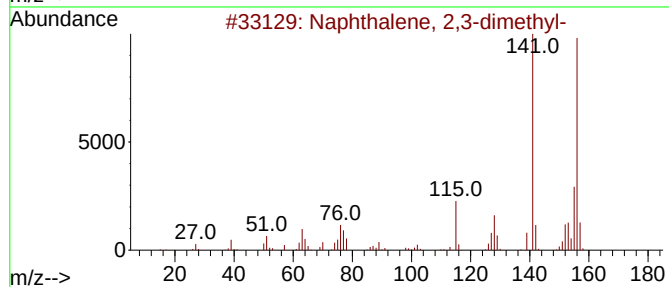
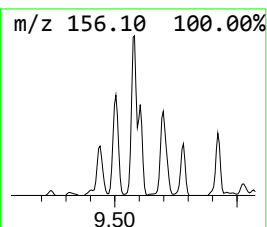
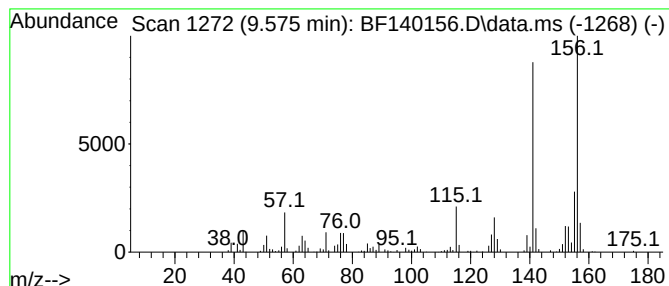
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Naphthalene, 2,3-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.	
9.575	3.71 ng	191144	Acenaphthene-d10	9.922	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	97
3	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
4	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

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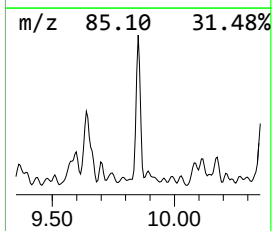
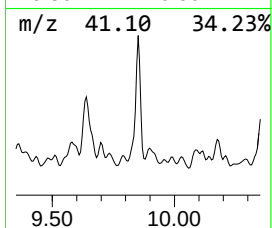
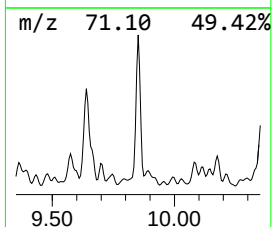
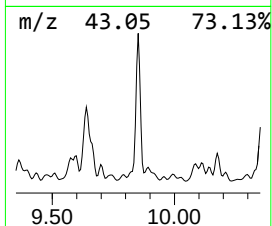
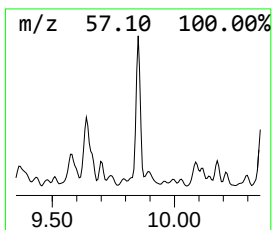
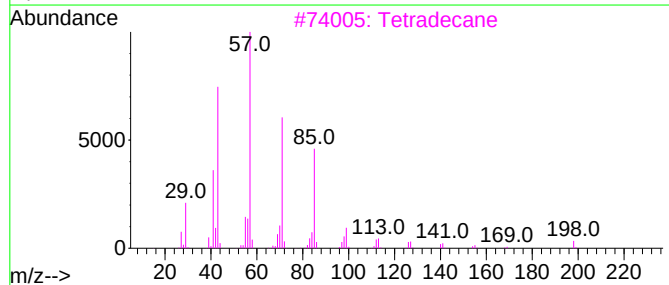
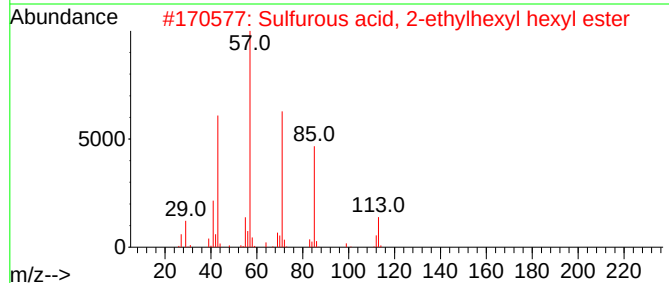
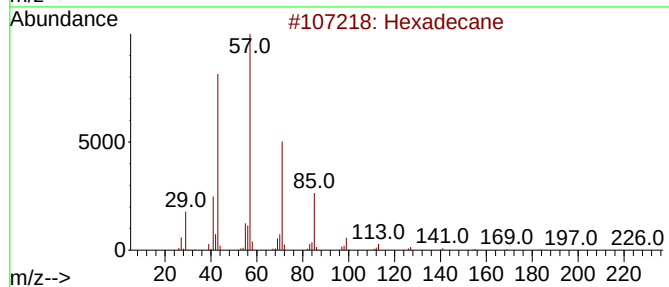
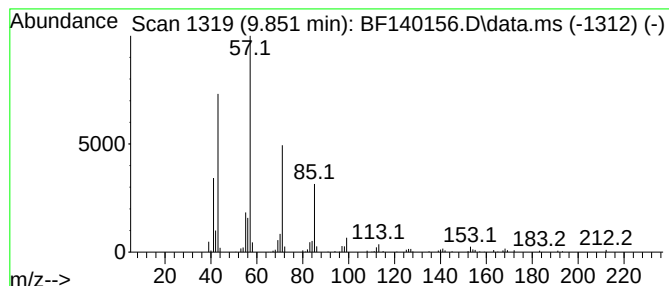
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Sulfurous acid, 2-ethylhexy... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.851	2.90 ng	149389	Acenaphthene-d10	9.922

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexadecane	226	C16H34	000544-76-3	91
2			Sulfurous acid, 2-ethylhexyl hex...	278	C14H30O3S	1000309-20-2	86
3			Tetradecane	198	C14H30	000629-59-4	83
4			Pentadecane	212	C15H32	000629-62-9	81
5			Sulfurous acid, 2-propyl tetrade...	320	C17H36O3S	1010309-12-5	78



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
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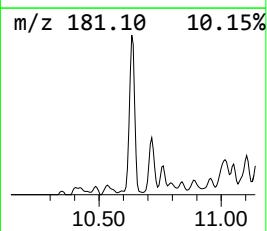
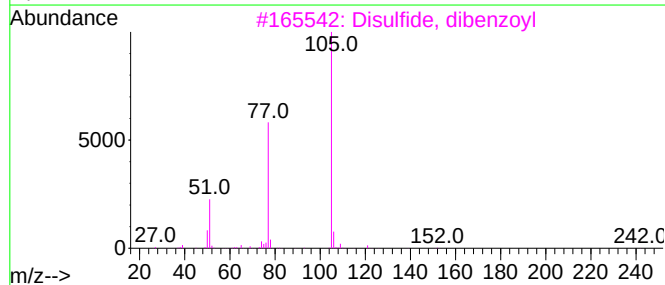
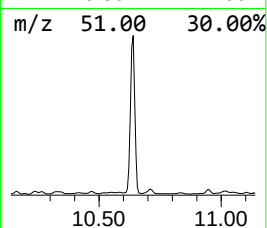
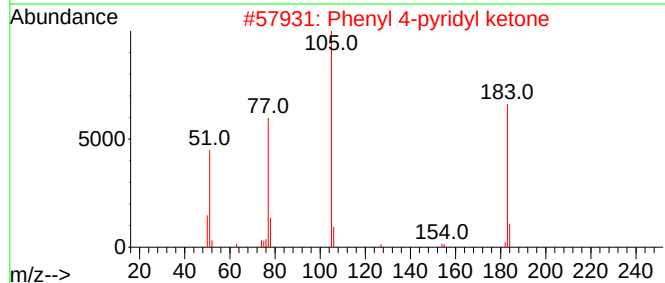
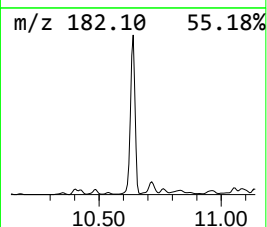
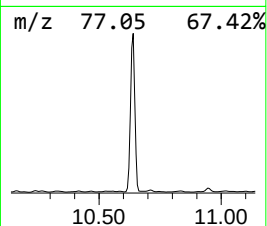
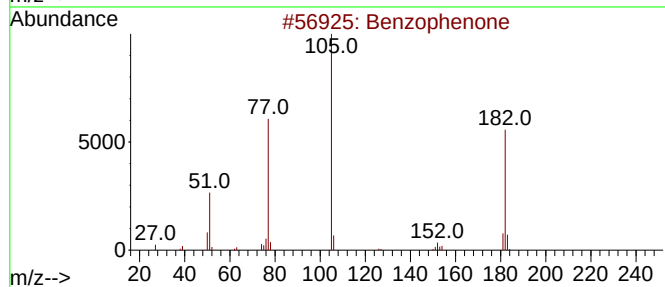
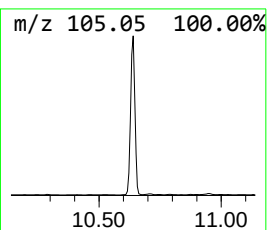
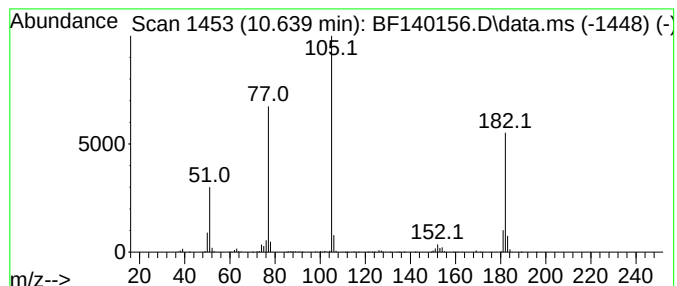
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.639	9.68 ng	498736	Acenaphthene-d10	9.922

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	49
3			Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	49
4			N-Methylbenzamide, N-pentafluoro...	281	C11H8F5NO2	1000446-98-1	47
5			2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
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Acq On : 30 Oct 2024 14:41
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ALS Vial : 6 Sample Multiplier: 1

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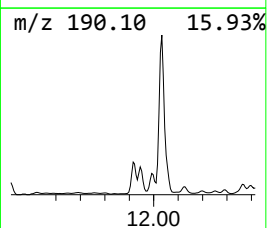
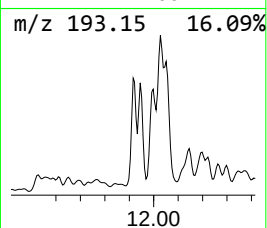
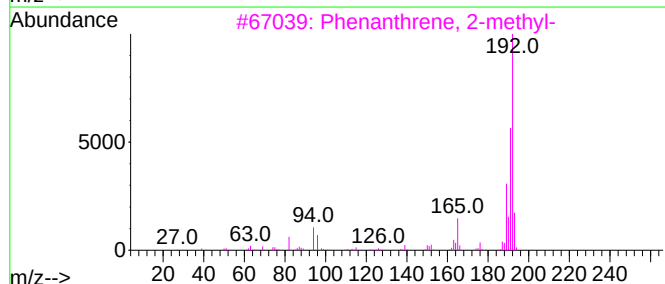
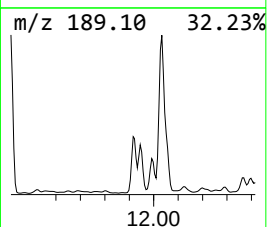
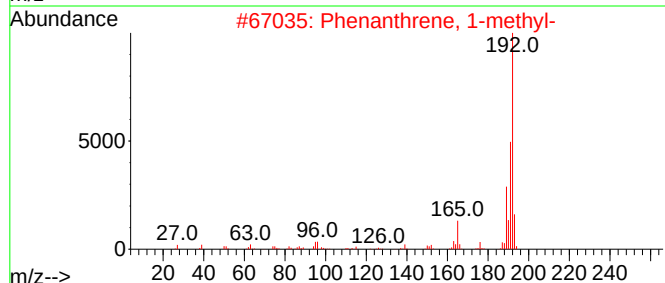
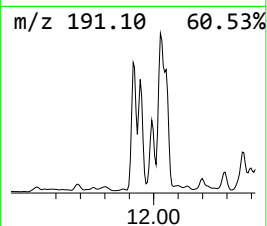
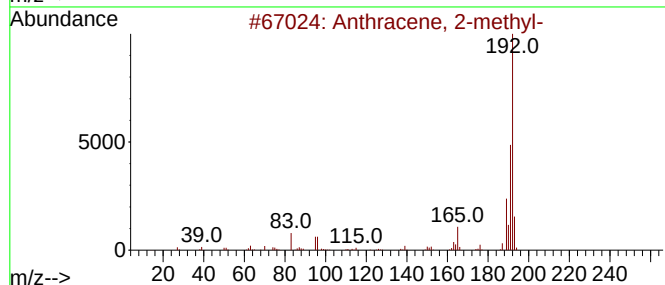
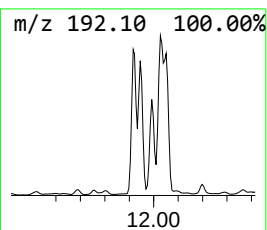
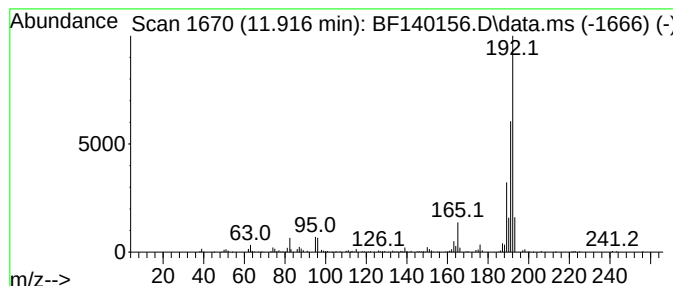
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Anthracene, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.916	3.77 ng	199659	Phenanthrene-d10	11.416

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2			Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3			Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4			1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5			Anthracene, 1-methyl-	192	C15H12	000610-48-0	93



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
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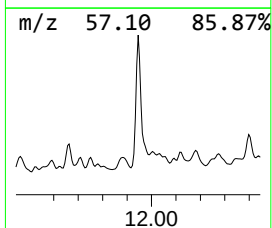
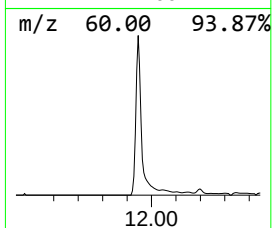
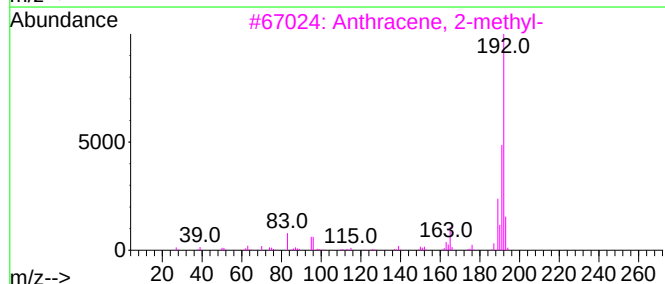
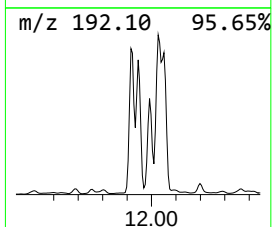
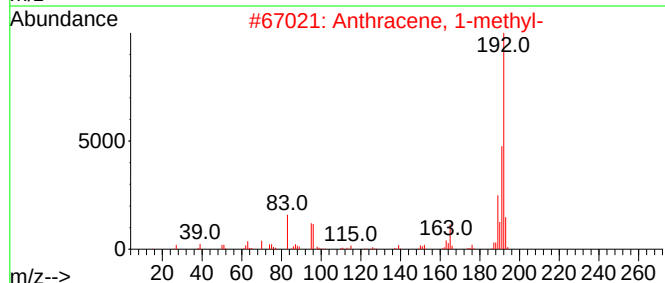
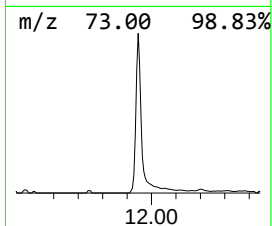
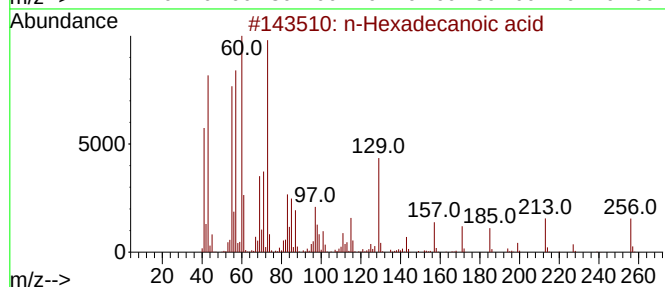
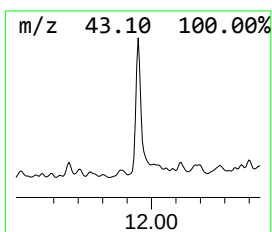
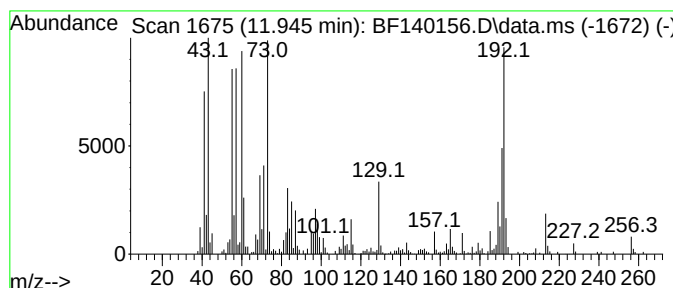
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.945	8.74 ng	462993	Phenanthrene-d10	11.416	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	97
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
5	Tridecanoic acid	214	C13H26O2	000638-53-9	87



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

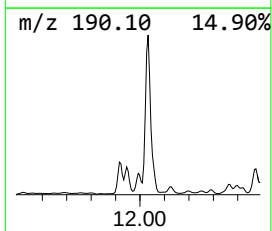
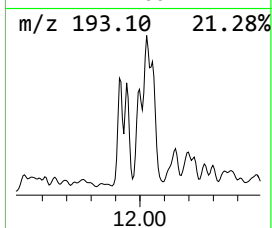
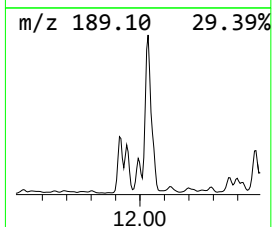
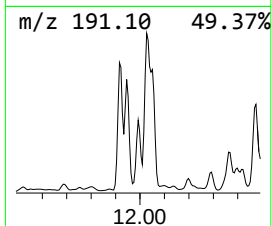
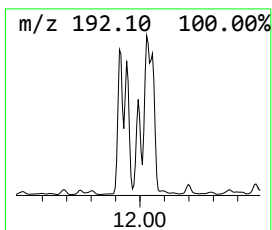
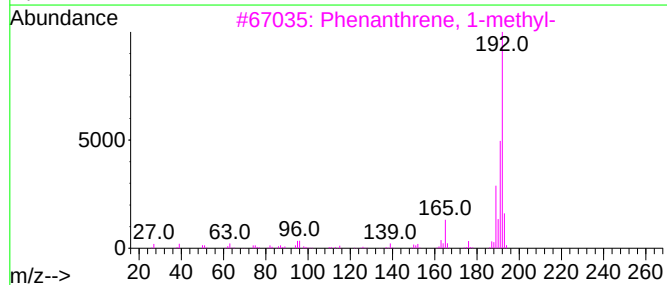
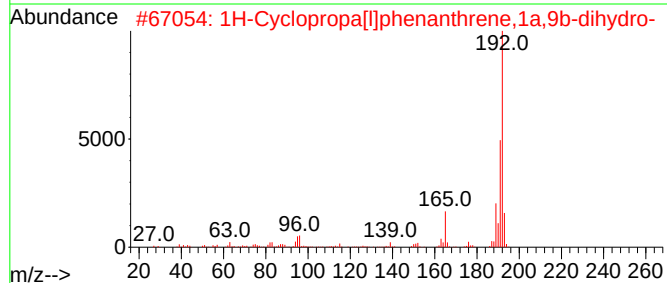
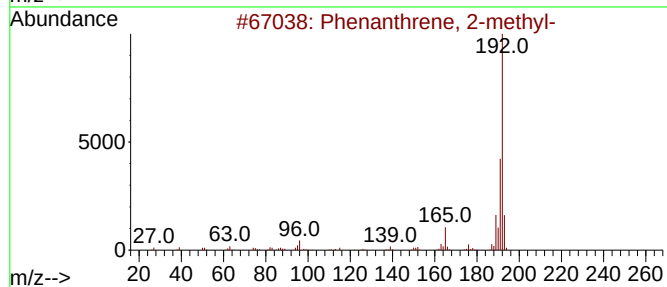
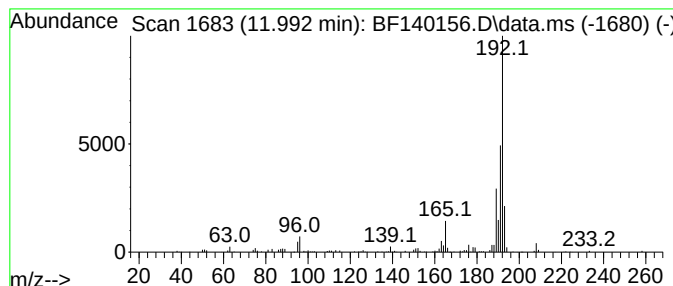
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Phenanthrene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.992	3.10 ng	164391	Phenanthrene-d10	11.416

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2			1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	95
3			Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4			Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
5			Anthracene, 2-methyl-	192	C15H12	000613-12-7	95



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
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Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

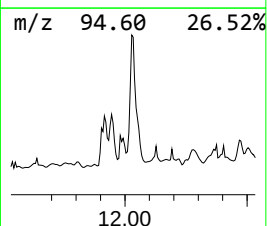
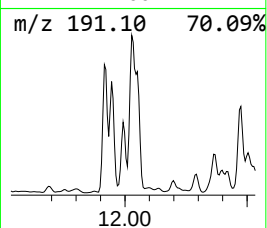
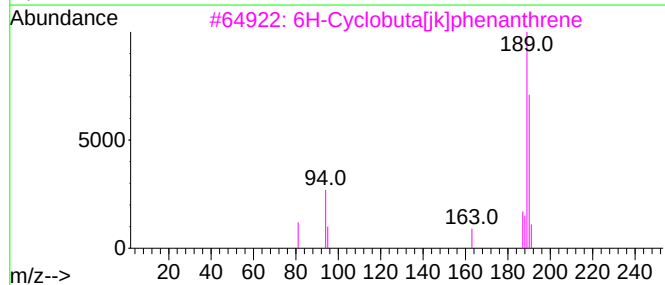
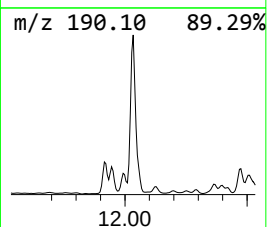
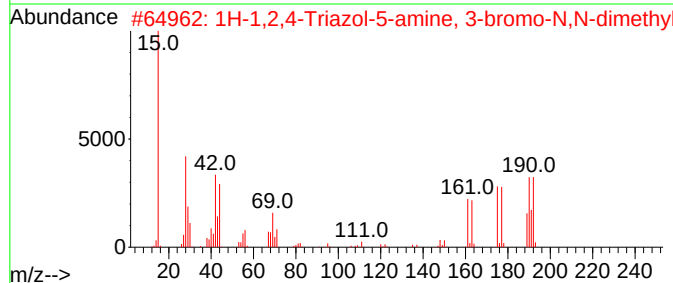
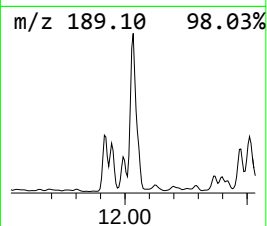
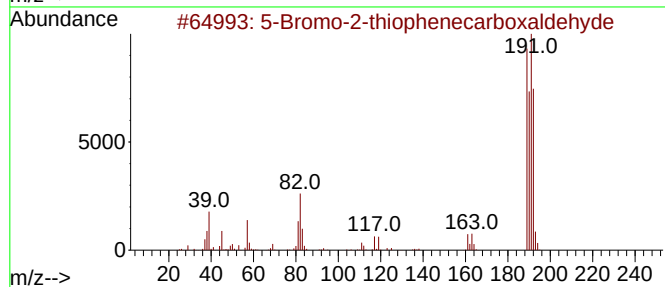
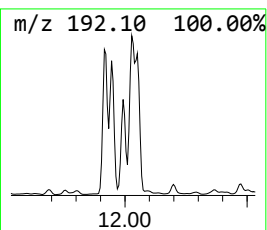
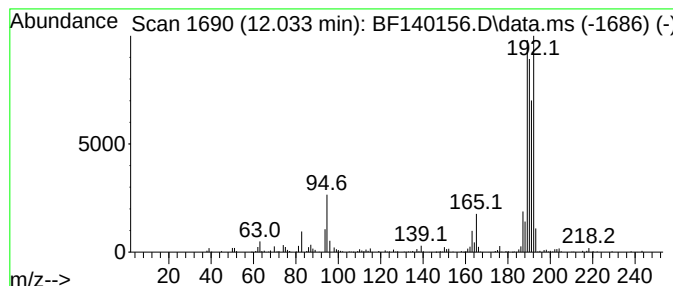
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 5-Bromo-2-thiophenecarboxal... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD		R.T.	
12.033	10.86 ng	575319	Phenanthrene-d10		11.416	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	5-Bromo-2-thiophenecarboxaldehyde		190	C5H3BrOS	004701-17-1	64
2	1H-1,2,4-Triazol-5-amine, 3-brom...		190	C4H7BrN4	1000460-85-7	53
3	6H-Cyclobuta[jk]phenanthrene		190	C15H10	083469-43-6	49
4	4H-Cyclopenta[def]phenanthrene		190	C15H10	000203-64-5	49
5	5H-Dibenzo[a,d]cycloheptene		192	C15H12	000256-81-5	46



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

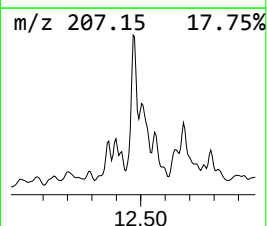
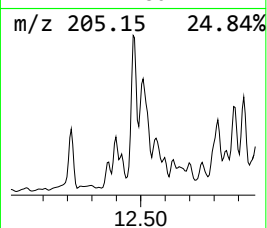
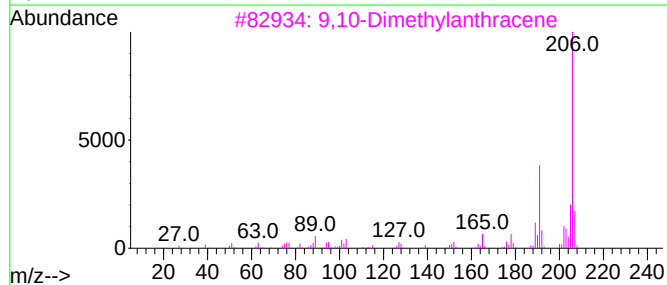
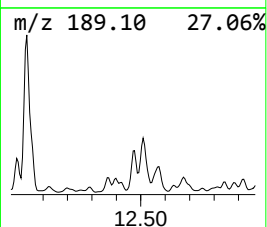
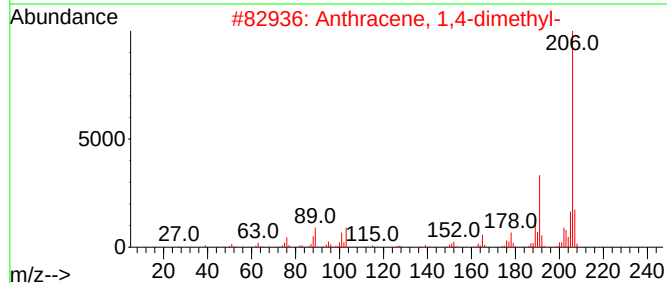
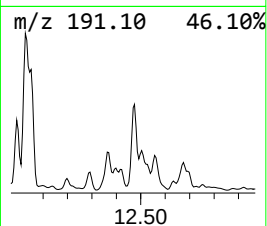
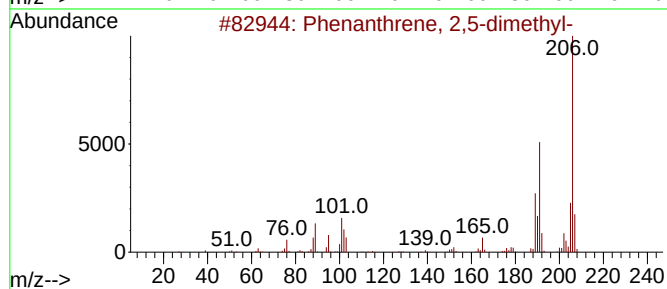
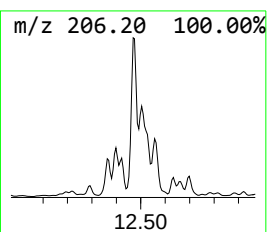
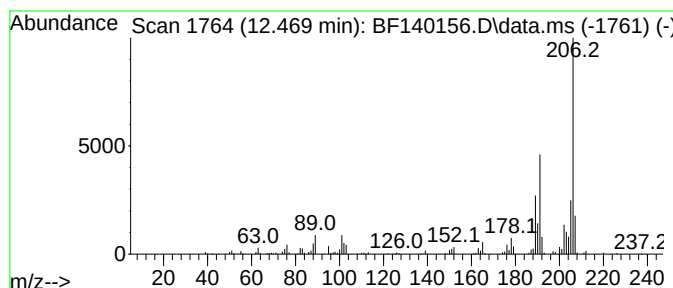
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD		R.T.	
12.469	3.21 ng	170078	Phenanthrene-d10		11.416	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-		206	C16H14	003674-66-6	93
2	Anthracene, 1,4-dimethyl-		206	C16H14	000781-92-0	93
3	9,10-Dimethylanthracene		206	C16H14	000781-43-1	91
4	di-p-Tolylacetylene		206	C16H14	002789-88-0	91
5	Phenanthrene, 1,7-dimethyl-		206	C16H14	000483-87-4	90



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

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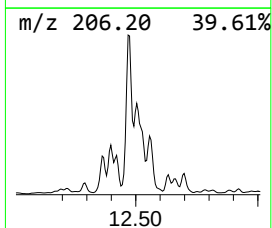
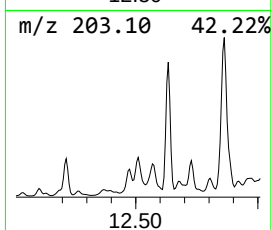
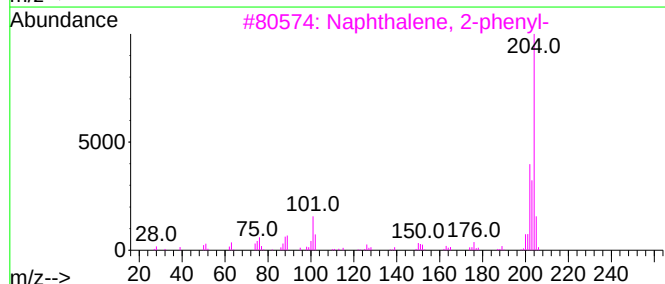
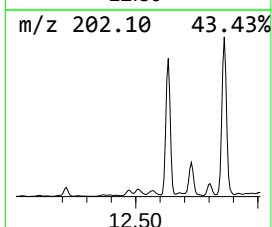
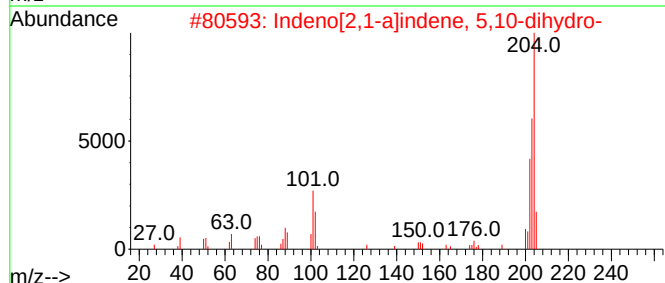
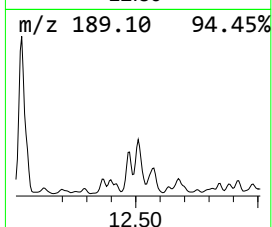
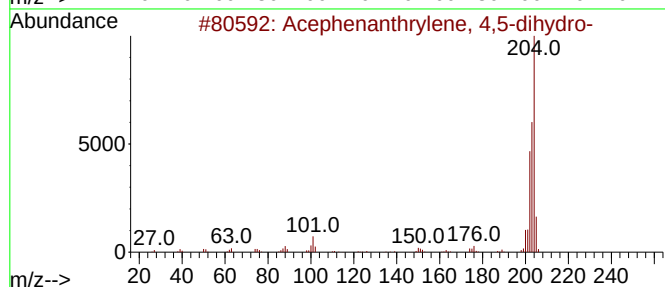
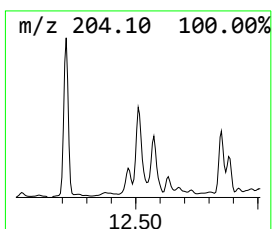
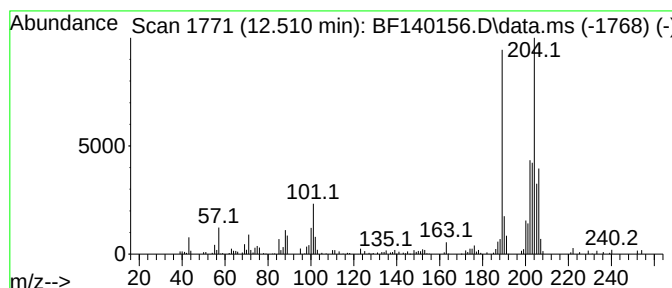
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 unknown12.510 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.510	2.88 ng	152420	Phenanthrene-d10	11.416

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Accephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	46
2			Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	46
3			Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	46
4			1H-Indol-6-ylamine, TMS derivative	204	C11H16N2Si	1000484-86-1	43
5			5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	43



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
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Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

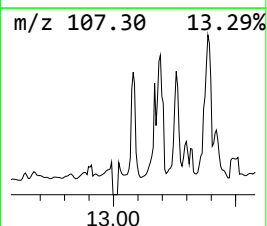
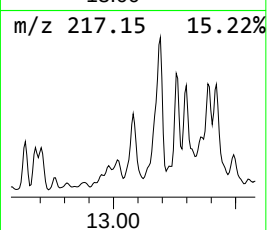
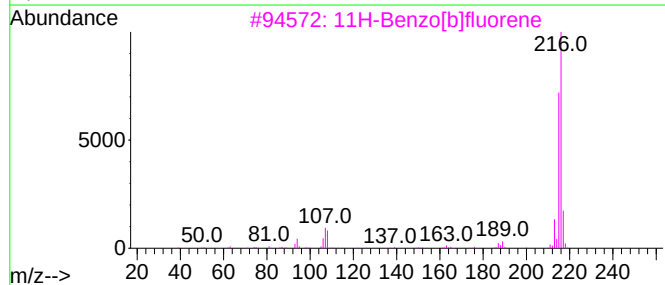
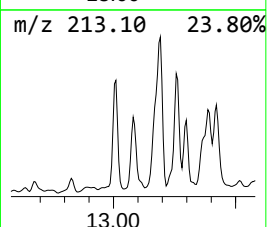
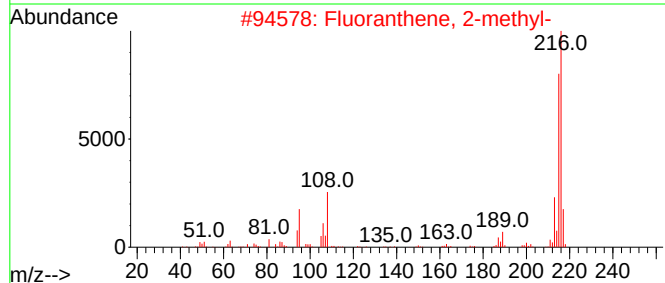
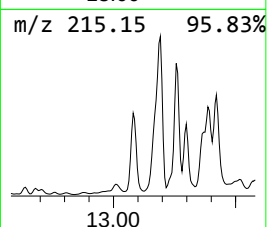
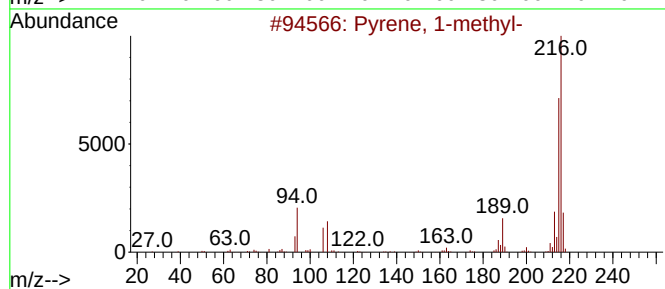
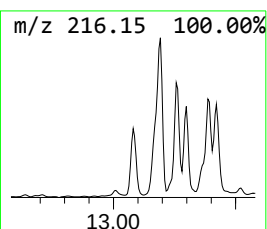
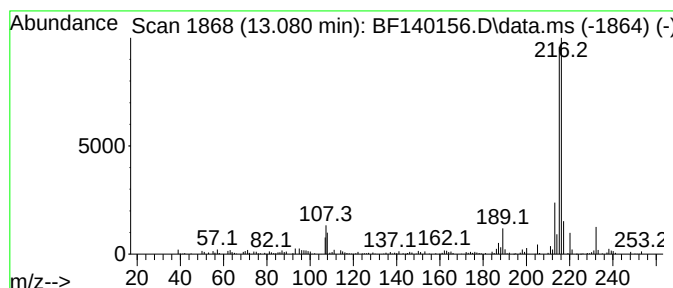
Instrument :
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ClientSampleId :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Pyrene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.080	2.69 ng	137069	Chrysene-d12	14.069	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	89
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	80
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	70
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	68



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
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Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

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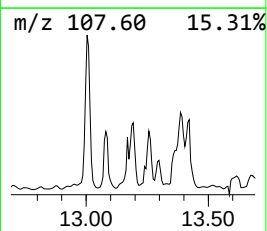
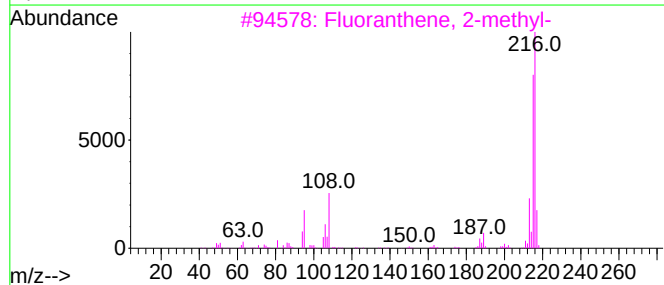
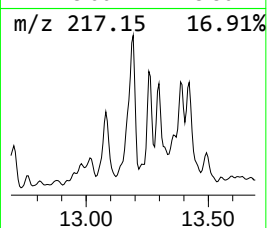
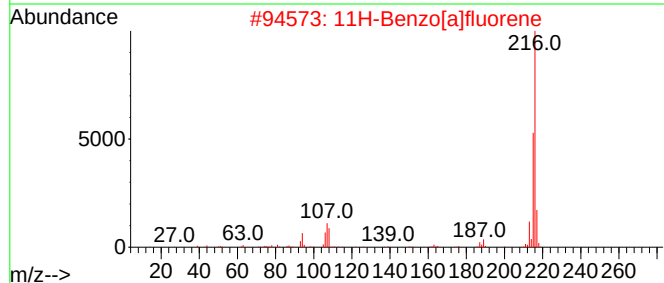
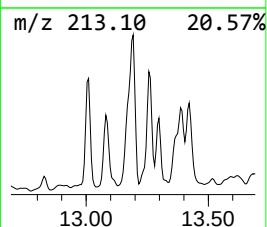
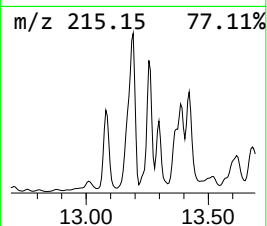
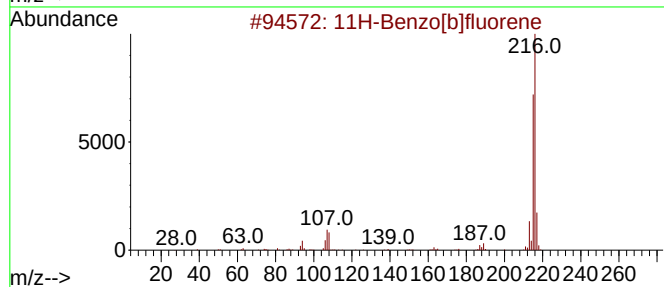
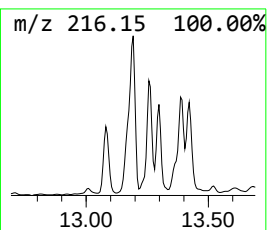
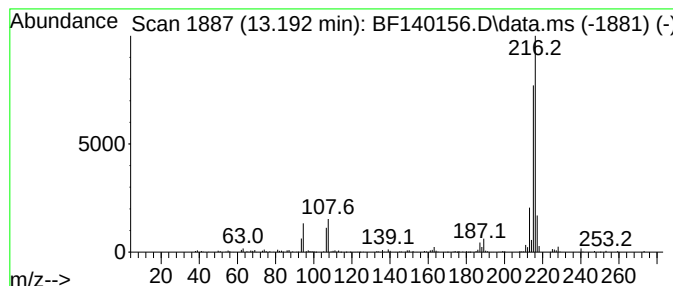
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 11H-Benzo[b]fluorene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.192	5.15 ng	262986	Chrysene-d12	14.069

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			11H-Benzo[b]fluorene	216	C17H12	000243-17-4	97
2			11H-Benzo[a]fluorene	216	C17H12	000238-84-6	95
3			Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
4			Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
5			7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
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Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

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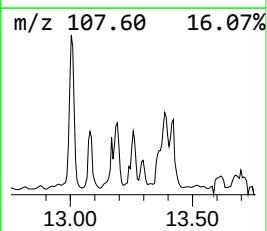
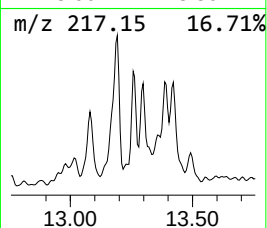
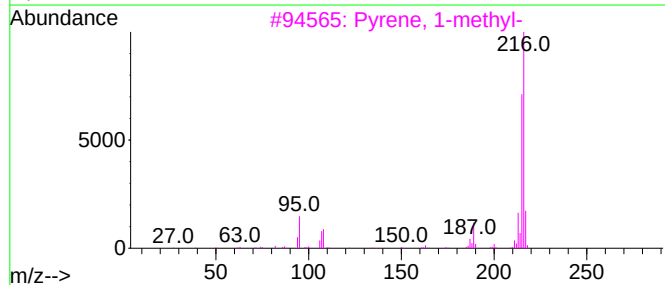
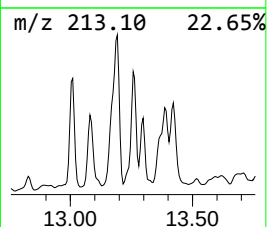
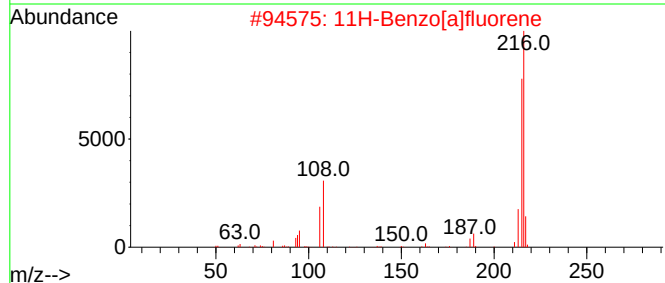
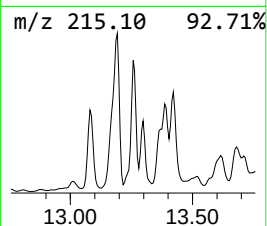
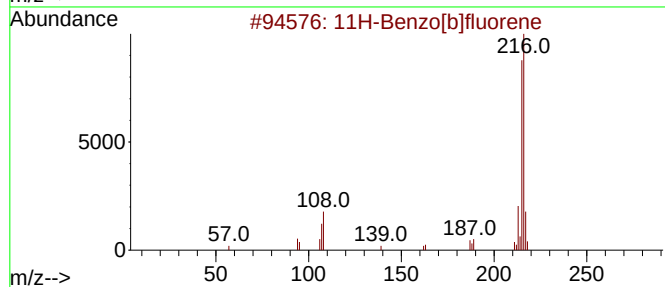
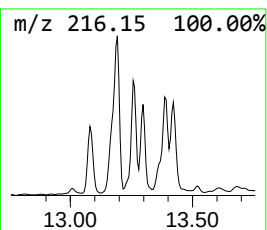
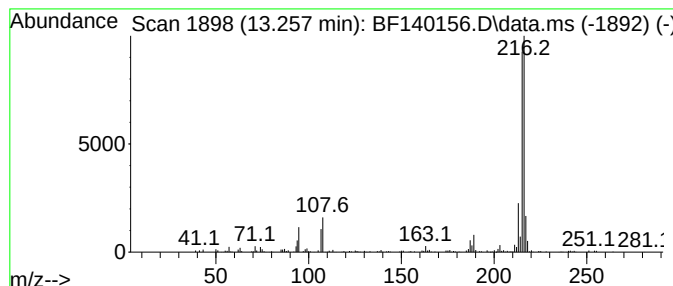
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 11H-Benzo[a]fluorene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.257	3.59 ng	183318	Chrysene-d12	14.069

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2		11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
3		Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
4		Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81
5		Pyrene, 2-methyl-	216	C17H12	003442-78-2	70



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

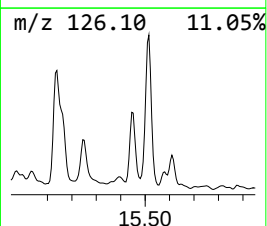
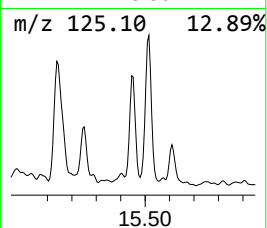
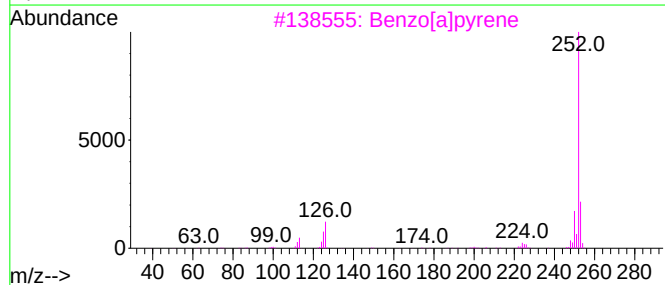
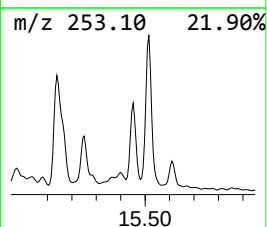
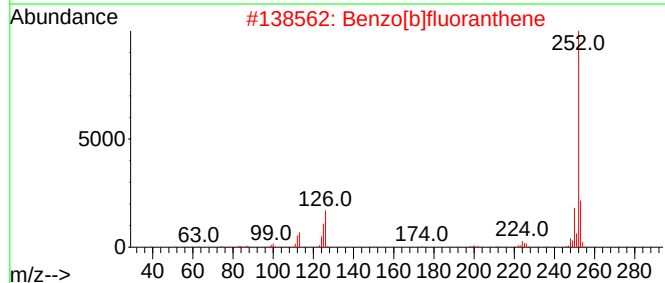
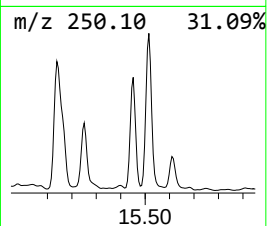
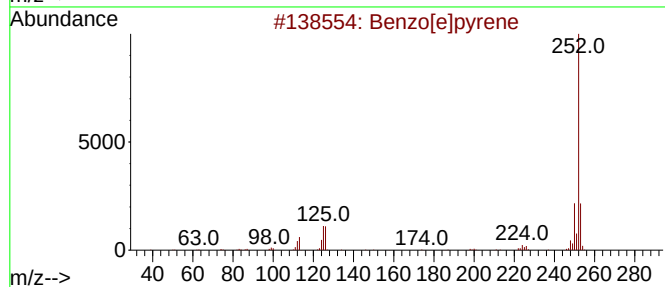
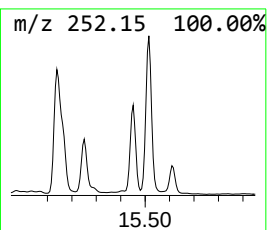
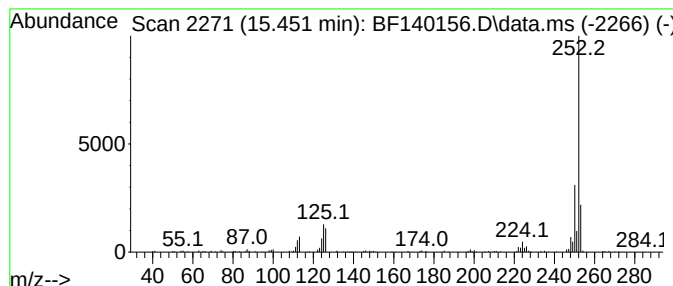
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Benzo[e]pyrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.451	4.04 ng	128470	Perylene-d12	15.580

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzo[e]pyrene	252	C20H12	000192-97-2	93
2			Benzo[b]fluoranthene	252	C20H12	000205-99-2	93
3			Benzo[a]pyrene	252	C20H12	000050-32-8	91
4			Perylene	252	C20H12	000198-55-0	90
5			Benzo[j]fluoranthene	252	C20H12	000205-82-3	90



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

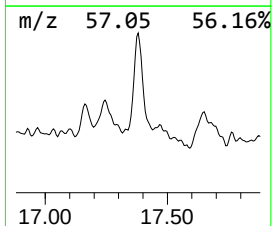
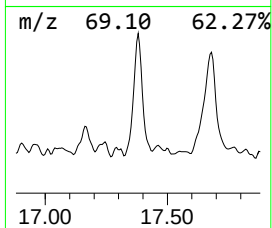
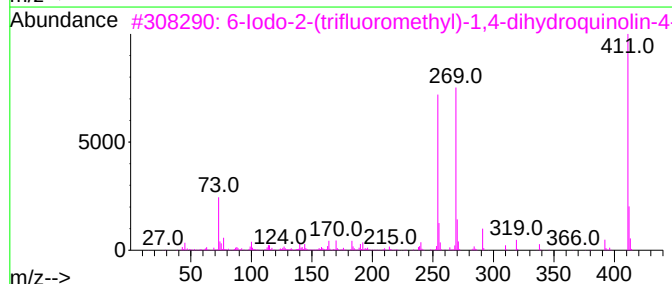
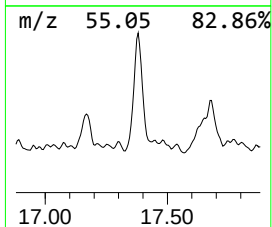
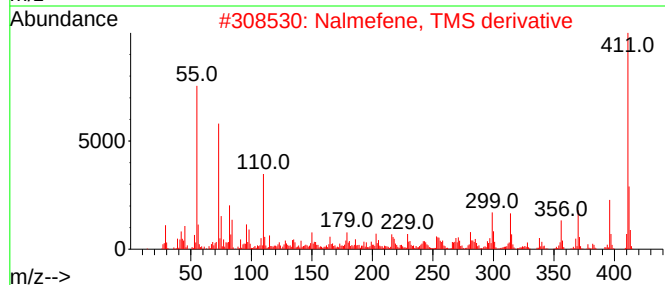
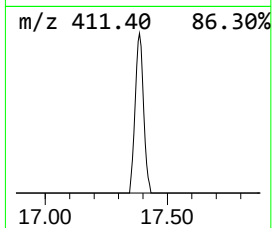
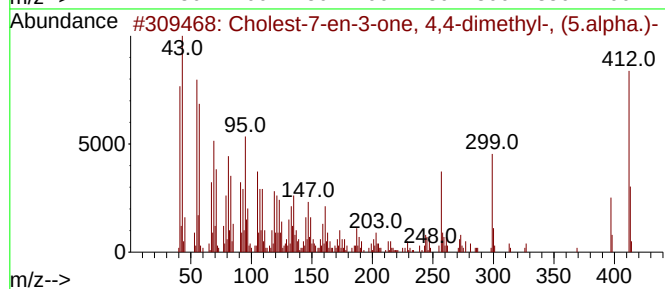
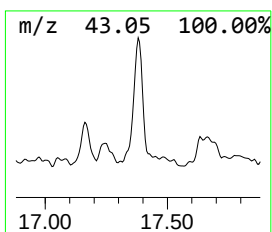
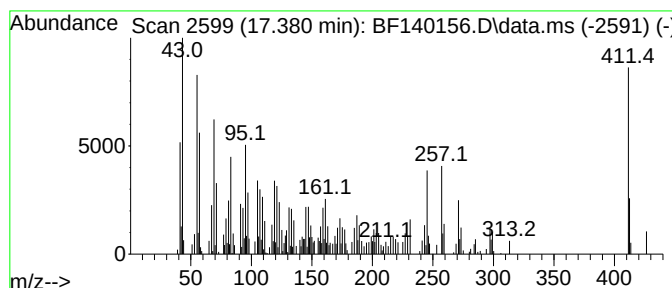
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 unknown17.380 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.380	6.72 ng	213657	Perylene-d12	15.580

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cholest-7-en-3-one, 4,4-dimethyl...	412	C29H48O	002604-90-2	46
2			Nalmefene, TMS derivative	411	C24H33NO3Si	1000333-47-8	27
3			6-Iodo-2-(trifluoromethyl)-1,4-d...	411	C13H13F3INOSi	1000501-52-0	27
4			Tricosanoic acid, TBDMS derivative	468	C29H60O2Si	1000352-40-3	27
5			2-naphthalenecarboxamide, N-hexa...	411	C27H41NO2	1000402-75-9	25



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

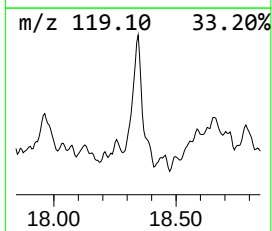
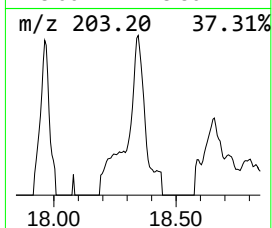
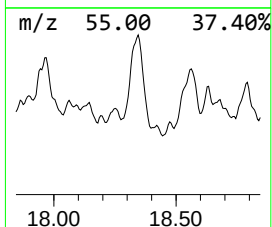
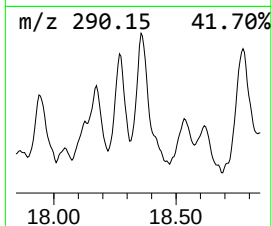
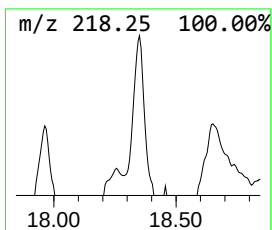
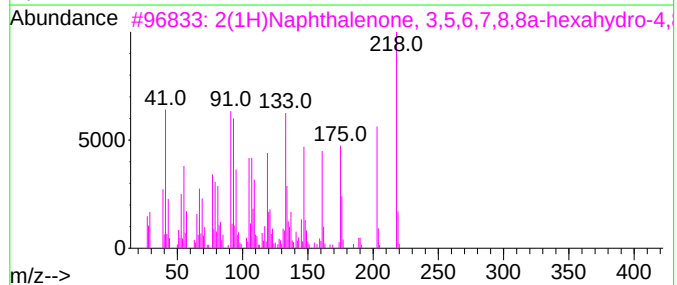
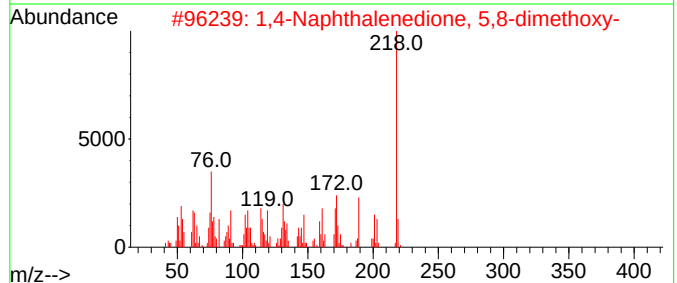
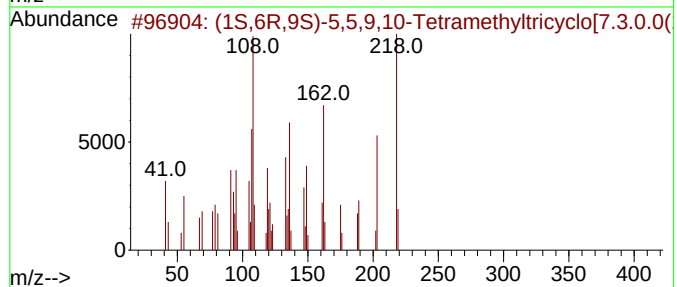
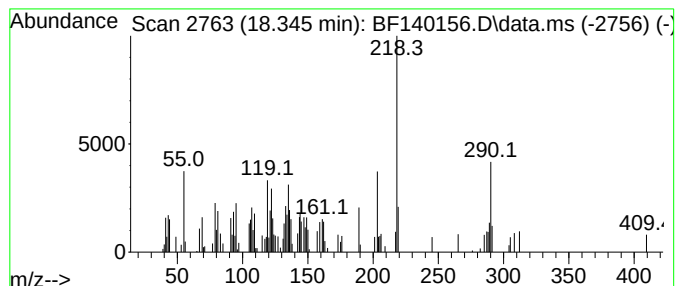
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 unknown18.345 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.345	4.38 ng	139161	Perylene-d12	15.580

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	(1S,6R,9S)-5,5,9,10-Tetramethylt...	218	C16H26	1000298-97-8	49		
2	1,4-Naphthalenedione, 5,8-dimeth...	218	C12H10O4	015013-16-8	46		
3	2(1H)Naphthalenone, 3,5,6,7,8,8a...	218	C15H22O	1000188-66-5	46		
4	Urs-12-en-3-ol, acetate, (3.beta.)-	468	C32H52O2	000863-76-3	46		
5	Urs-12-en-23-oic acid, 3-(acetyl...	512	C33H52O4	1000505-76-4	45		



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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...	2.181	52.1	ng	1813110	1	6.881	696360	20.0
o-Cymene	7.675	4.3	ng	258406	2	8.163	1211560	20.0
Benzene, 2-ethe...	7.898	3.9	ng	234344	2	8.163	1211560	20.0
Hexadecane	8.751	3.7	ng	224222	2	8.163	1211560	20.0
Silane, trichlo...	9.322	4.5	ng	233406	3	9.922	1030060	20.0
Naphthalene, 2,...	9.575	3.7	ng	191144	3	9.922	1030060	20.0
Sulfurous acid,...	9.851	2.9	ng	149389	3	9.922	1030060	20.0
Benzophenone	10.639	9.7	ng	498736	3	9.922	1030060	20.0
Anthracene, 2-m...	11.916	3.8	ng	199659	4	11.416	1059810	20.0
n-Hexadecanoic ...	11.945	8.7	ng	462993	4	11.416	1059810	20.0
Phenanthrene, 2...	11.992	3.1	ng	164391	4	11.416	1059810	20.0
5-Bromo-2-thiop...	12.033	10.9	ng	575319	4	11.416	1059810	20.0
Phenanthrene, 2...	12.469	3.2	ng	170078	4	11.416	1059810	20.0
unknown12.510	12.510	2.9	ng	152420	4	11.416	1059810	20.0
Pyrene, 1-methyl-	13.080	2.7	ng	137069	5	14.069	1020450	20.0
11H-Benzo[b]flu...	13.192	5.2	ng	262986	5	14.069	1020450	20.0
11H-Benzo[a]flu...	13.257	3.6	ng	183318	5	14.069	1020450	20.0
Benzo[e]pyrene	15.451	4.0	ng	128470	6	15.580	636013	20.0
unknown17.380	17.380	6.7	ng	213657	6	15.580	636013	20.0
unknown18.345	18.345	4.4	ng	139161	6	15.580	636013	20.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	58.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140125.D	1	10/28/24 09:00	10/29/24 21:13	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	310	U	310	560	ug/Kg
108-95-2	Phenol	140	U	140	290	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	140	U	140	290	ug/Kg
95-57-8	2-Chlorophenol	140	U	140	290	ug/Kg
95-48-7	2-Methylphenol	140	U	140	290	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	150	U	150	290	ug/Kg
98-86-2	Acetophenone	150	U	150	290	ug/Kg
65794-96-9	3+4-Methylphenols	140	U	140	560	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	68.5	U	68.5	140	ug/Kg
67-72-1	Hexachloroethane	140	U	140	290	ug/Kg
98-95-3	Nitrobenzene	150	U	150	290	ug/Kg
78-59-1	Isophorone	140	U	140	290	ug/Kg
88-75-5	2-Nitrophenol	160	U	160	290	ug/Kg
105-67-9	2,4-Dimethylphenol	160	U	160	290	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	150	U	150	290	ug/Kg
120-83-2	2,4-Dichlorophenol	130	U	130	290	ug/Kg
91-20-3	Naphthalene	140	U	140	290	ug/Kg
106-47-8	4-Chloroaniline	140	UQ	140	290	ug/Kg
87-68-3	Hexachlorobutadiene	140	U	140	290	ug/Kg
105-60-2	Caprolactam	150	U	150	560	ug/Kg
59-50-7	4-Chloro-3-methylphenol	130	U	130	290	ug/Kg
91-57-6	2-Methylnaphthalene	140	U	140	290	ug/Kg
77-47-4	Hexachlorocyclopentadiene	270	UQ	270	560	ug/Kg
88-06-2	2,4,6-Trichlorophenol	120	U	120	290	ug/Kg
95-95-4	2,4,5-Trichlorophenol	130	U	130	290	ug/Kg
92-52-4	1,1-Biphenyl	150	U	150	290	ug/Kg
91-58-7	2-Chloronaphthalene	140	U	140	290	ug/Kg
88-74-4	2-Nitroaniline	160	U	160	290	ug/Kg
131-11-3	Dimethylphthalate	140	U	140	290	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	58.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140125.D	1	10/28/24 09:00	10/29/24 21:13	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	150	U	150	290	ug/Kg
606-20-2	2,6-Dinitrotoluene	140	U	140	290	ug/Kg
99-09-2	3-Nitroaniline	150	UQ	150	290	ug/Kg
83-32-9	Acenaphthene	140	U	140	290	ug/Kg
51-28-5	2,4-Dinitrophenol	410	U	410	560	ug/Kg
100-02-7	4-Nitrophenol	200	U	200	560	ug/Kg
132-64-9	Dibenzofuran	140	U	140	290	ug/Kg
121-14-2	2,4-Dinitrotoluene	150	U	150	290	ug/Kg
84-66-2	Diethylphthalate	140	U	140	290	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	150	U	150	290	ug/Kg
86-73-7	Fluorene	150	U	150	290	ug/Kg
100-01-6	4-Nitroaniline	180	U	180	290	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	200	U	200	560	ug/Kg
86-30-6	n-Nitrosodiphenylamine	140	U	140	290	ug/Kg
101-55-3	4-Bromophenyl-phenylether	130	U	130	290	ug/Kg
118-74-1	Hexachlorobenzene	140	U	140	290	ug/Kg
1912-24-9	Atrazine	160	U	160	290	ug/Kg
87-86-5	Pentachlorophenol	130	U	130	560	ug/Kg
85-01-8	Phenanthrene	200	J	140	290	ug/Kg
120-12-7	Anthracene	140	U	140	290	ug/Kg
86-74-8	Carbazole	140	U	140	290	ug/Kg
84-74-2	Di-n-butylphthalate	140	U	140	290	ug/Kg
206-44-0	Fluoranthene	180	J	140	290	ug/Kg
129-00-0	Pyrene	190	J	140	290	ug/Kg
85-68-7	Butylbenzylphthalate	160	U	160	290	ug/Kg
91-94-1	3,3-Dichlorobenzidine	170	UQ	170	560	ug/Kg
56-55-3	Benzo(a)anthracene	140	J	140	290	ug/Kg
218-01-9	Chrysene	140	U	140	290	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	150	U	150	290	ug/Kg
117-84-0	Di-n-octyl phthalate	190	U	190	560	ug/Kg
205-99-2	Benzo(b)fluoranthene	140	U	140	290	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	58.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140125.D	1	10/28/24 09:00	10/29/24 21:13	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	140	U	140	290	ug/Kg
50-32-8	Benzo(a)pyrene	160	U	160	290	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	130	U	130	290	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	140	U	140	290	ug/Kg
191-24-2	Benzo(g,h,i)perylene	140	U	140	290	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	150	U	150	290	ug/Kg
123-91-1	1,4-Dioxane	190	U	190	290	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	130	U	130	290	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	78.6		30 (18) - 130 (112)	52%	SPK: 150
13127-88-3	Phenol-d6	77.4		30 (15) - 130 (107)	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	58.7		30 (18) - 130 (107)	59%	SPK: 100
321-60-8	2-Fluorobiphenyl	59.3		30 (20) - 130 (109)	59%	SPK: 100
118-79-6	2,4,6-Tribromophenol	63.6		30 (10) - 130 (116)	42%	SPK: 150
1718-51-0	Terphenyl-d14	42.4		30 (10) - 130 (105)	42%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	122000	6.887
1146-65-2	Naphthalene-d8	474000	8.169
15067-26-2	Acenaphthene-d10	241000	9.922
1517-22-2	Phenanthrene-d10	346000	11.41
1719-03-5	Chrysene-d12	236000	14.051
1520-96-3	Perylene-d12	245000	15.545

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	2600	JB	2.19	ug/Kg
001119-40-0	Pentanedioic acid, dimethyl ester	120	J	7.70	ug/Kg
000119-61-9	Benzophenone	540	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	430	J	11.9	ug/Kg
000090-60-8	Benzaldehyde, 3,5-dichloro-2-hydro	200	J	12.0	ug/Kg
1000351-75-1	Tricosyl trifluoroacetate	180	J	13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	140	J	15.1	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	58.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140125.D	1	10/28/24 09:00	10/29/24 21:13	PB164461

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\BF102924\
 Data File : BF140125.D
 Acq On : 29 Oct 2024 21:13
 Operator : RC/JU
 Sample : P4578-04
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WB-305-TOP-1

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
 Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 30 01:04:47 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	121877	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	473789	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	240944	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	345918	20.000	ng	0.00
76) Chrysene-d12	14.051	240	236214	20.000	ng	0.00
86) Perylene-d12	15.545	264	244867	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	612161	78.631	ng	0.01
7) Phenol-d6	6.510	99	780620	77.418	ng	0.00
23) Nitrobenzene-d5	7.445	82	501867	58.708	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	143293	63.581	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	864050	59.267	ng	0.00
79) Terphenyl-d14	12.998	244	614896	42.418	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.433	178	56966	3.486	ng	99
75) Fluoranthene	12.622	202	51573	3.122	ng	99
78) Pyrene	12.851	202	67980	3.288	ng	98
81) Benzo(a)anthracene	14.045	228	39061m	2.540	ng	
83) Chrysene	14.080	228	32076	2.275	ng	96
90) Benzo(a)pyrene	15.480	252	28489	2.321	ng	95

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

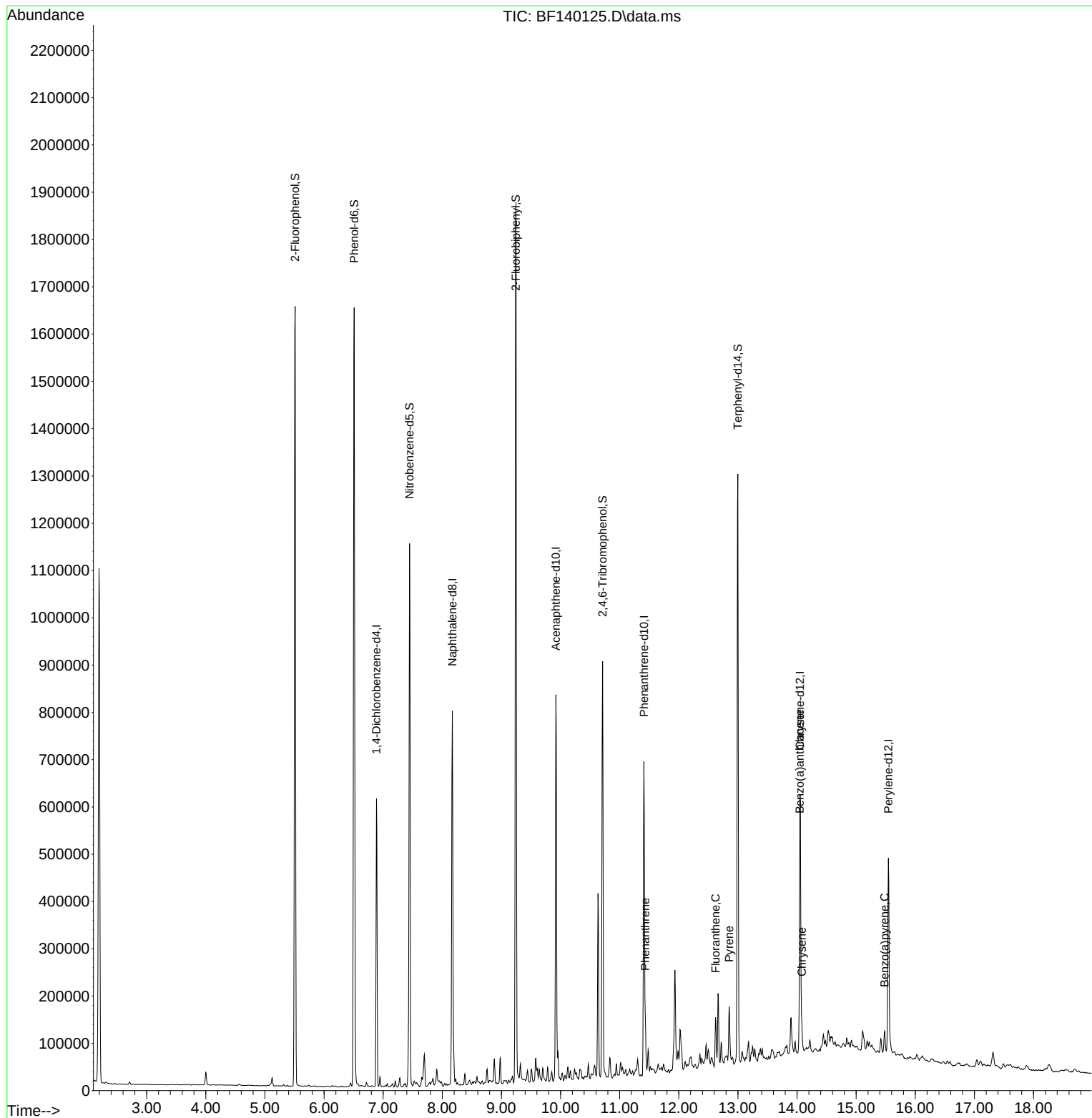
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Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

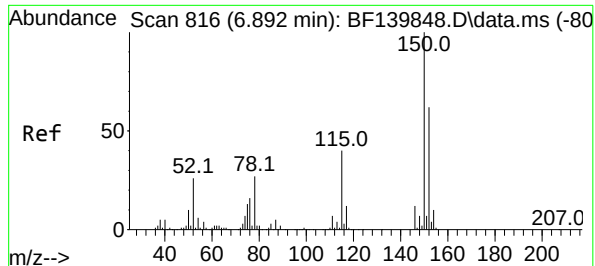
Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Quant Time: Oct 30 01:04:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

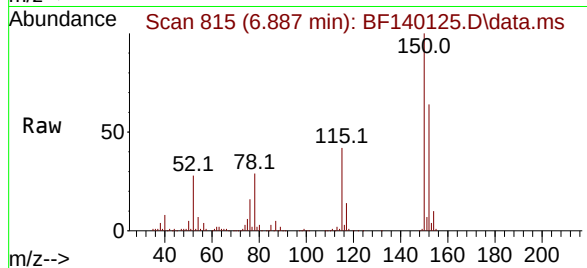
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 816
Delta R.T. -0.005 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

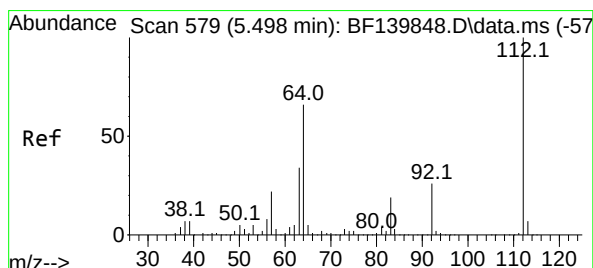
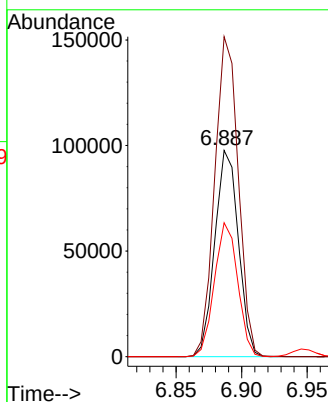
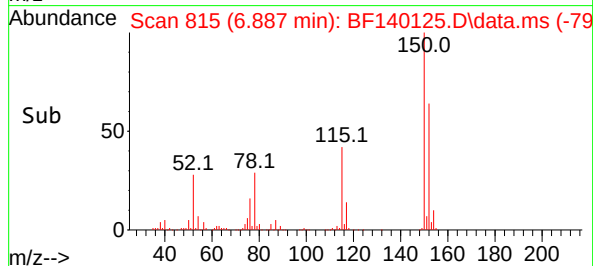
Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1



Tgt Ion:152 Resp: 12187
Ion Ratio Lower Upper
152 100
150 155.1 130.2 195.2
115 64.9 51.4 77.2

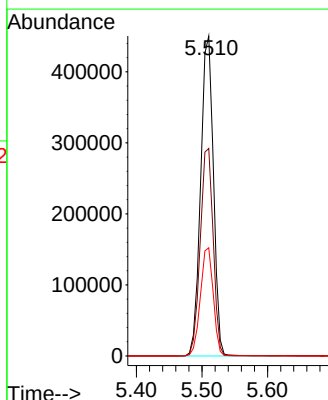
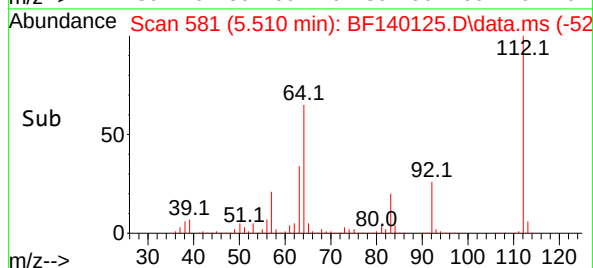
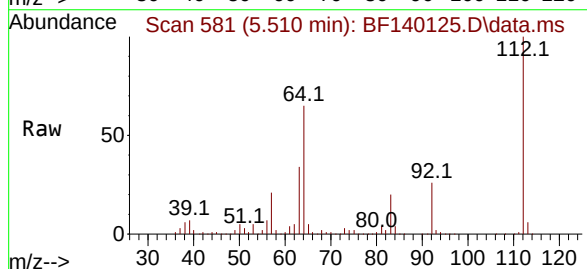
Manual Integrations
APPROVED

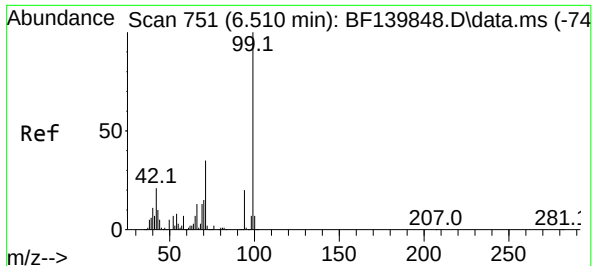
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024



#5
2-Fluorophenol
Concen: 78.631 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.012 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

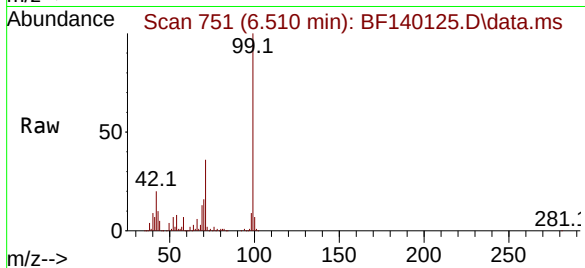
Tgt Ion:112 Resp: 612161
Ion Ratio Lower Upper
112 100
64 64.9 53.0 79.6
63 33.8 27.0 40.4





#7
Phenol-d6
Concen: 77.418 ng
RT: 6.510 min Scan# 751
Delta R.T. 0.000 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

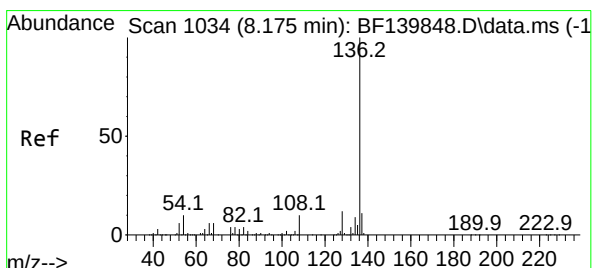
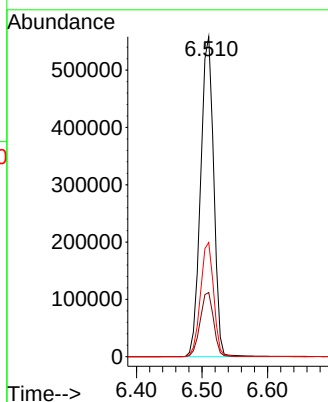
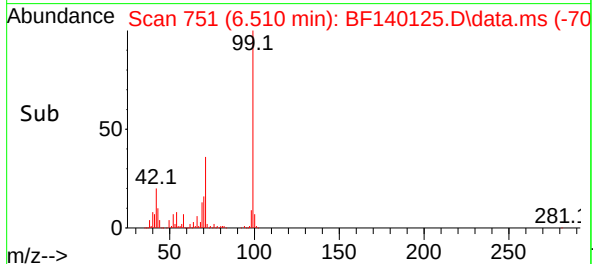
Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1



Tgt Ion: 99 Resp: 780620
Ion Ratio Lower Upper
99 100
42 20.1 16.7 25.1
71 35.7 27.7 41.5

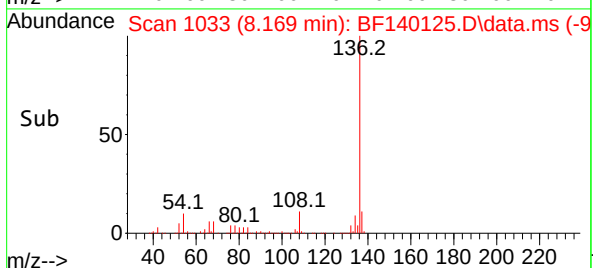
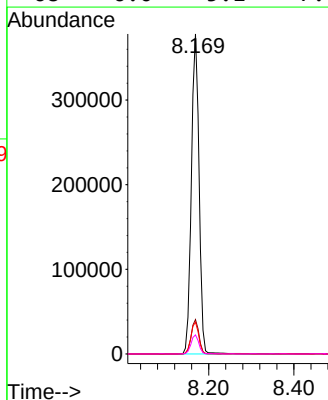
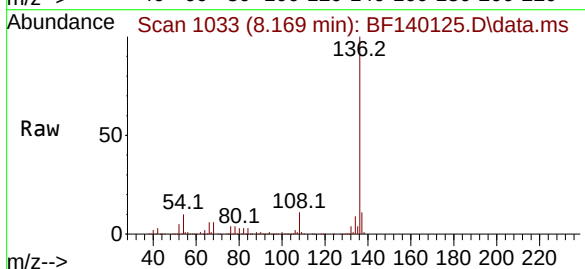
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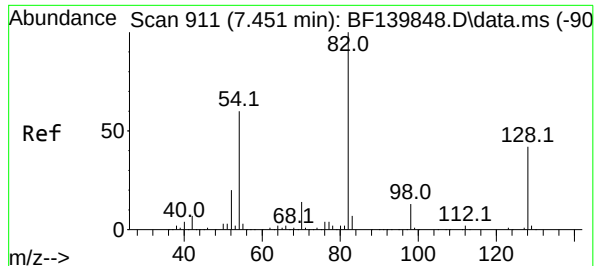
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:136 Resp: 473789
Ion Ratio Lower Upper
136 100
137 10.8 8.6 12.8
54 9.9 8.4 12.6
68 6.0 5.1 7.7





#23

Nitrobenzene-d5

Concen: 58.708 ng

RT: 7.445 min Scan# 911

Delta R.T. -0.006 min

Lab File: BF140125.D

Acq: 29 Oct 2024 21:13

Instrument :

BNA_F

ClientSampleId :

WB-305-TOP-1

Tgt Ion: 82 Resp: 50186

Ion Ratio Lower Upper

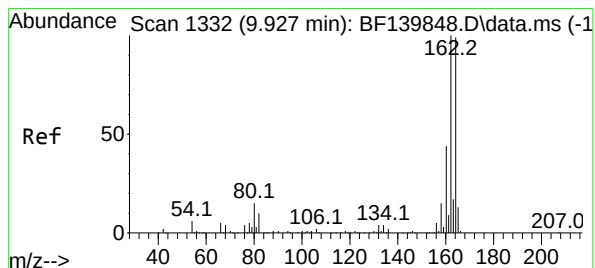
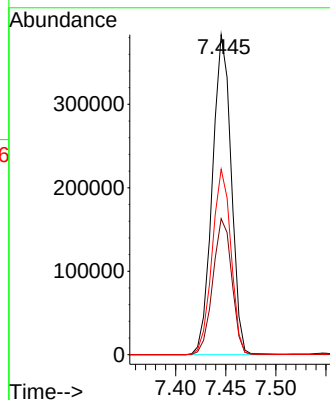
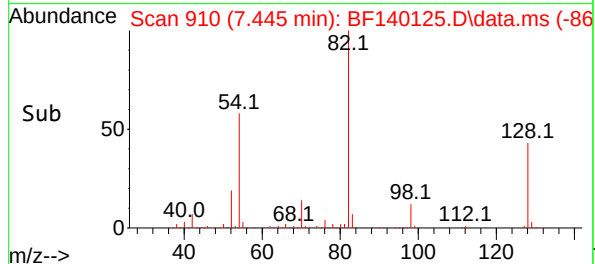
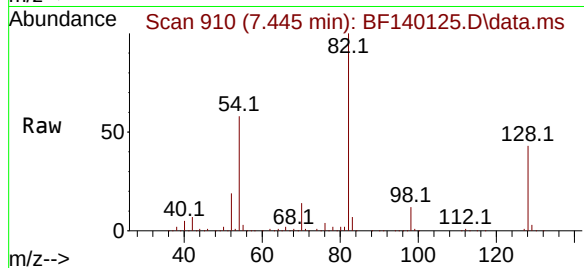
82 100

128 42.5 33.4 50.0

54 57.9 47.8 71.8

Manual Integrations

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Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 1331

Delta R.T. -0.005 min

Lab File: BF140125.D

Acq: 29 Oct 2024 21:13

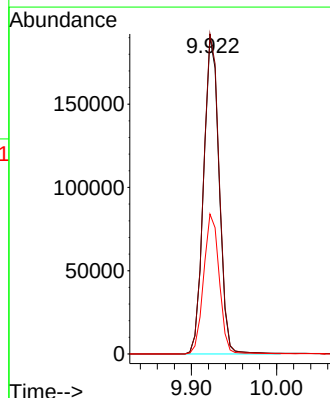
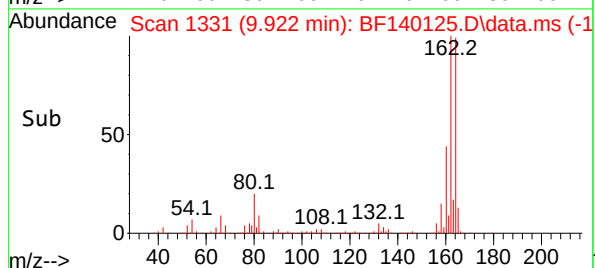
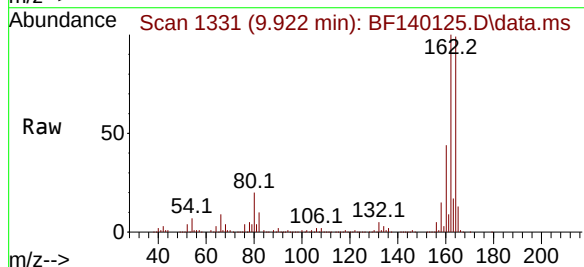
Tgt Ion:164 Resp: 240944

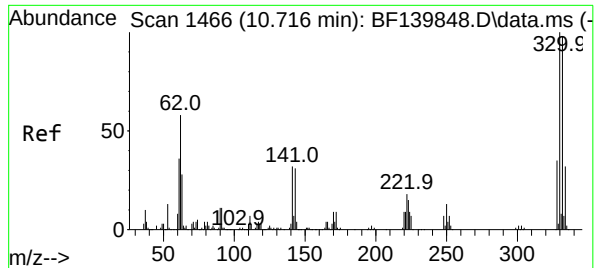
Ion Ratio Lower Upper

164 100

162 101.0 81.0 121.4

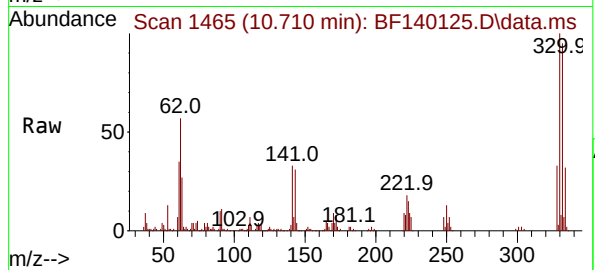
160 44.2 35.4 53.0





#42
2,4,6-Tribromophenol
Concen: 63.581 ng
RT: 10.710 min Scan# 1466
Delta R.T. -0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

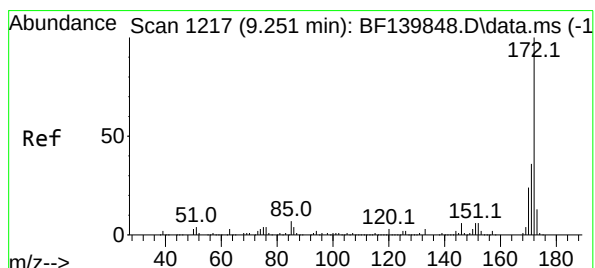
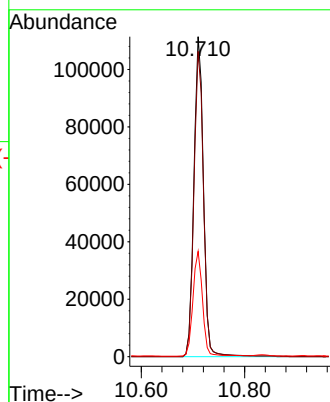
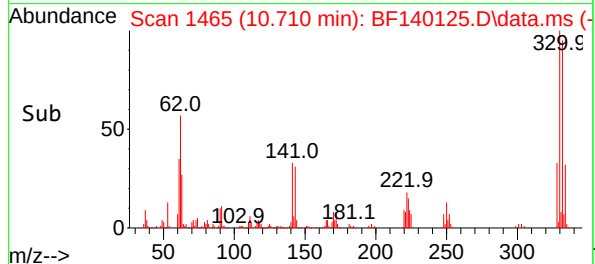
Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1



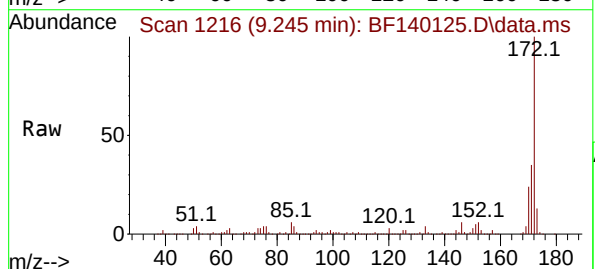
Tgt Ion: 330 Resp: 14329
Ion Ratio Lower Upper
330 100
332 95.6 78.1 117.1
141 32.6 26.6 39.8

Manual Integrations
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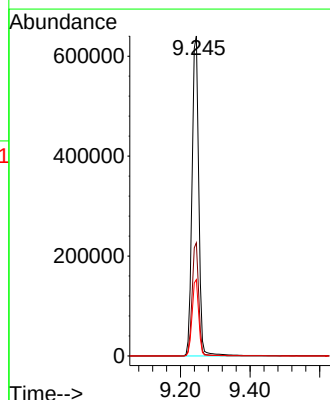
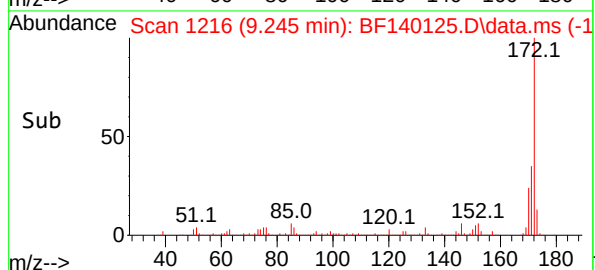
Reviewed By : Jagrut Upadhyay 10/30/2024
Supervised By : mohammad ahmed 11/04/2024

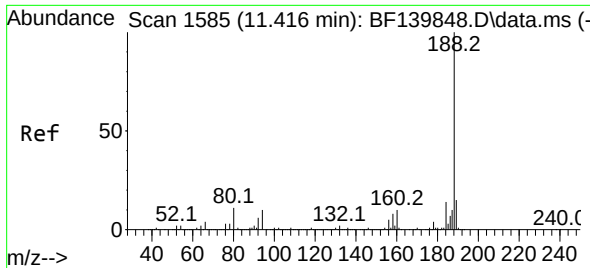


#45
2-Fluorobiphenyl
Concen: 59.267 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13



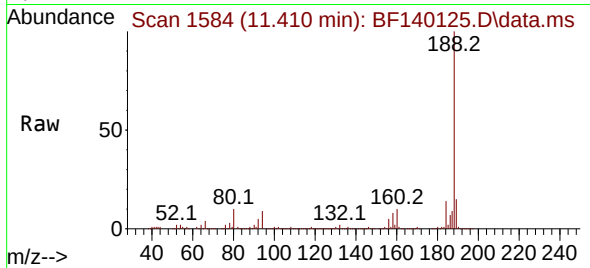
Tgt Ion: 172 Resp: 864050
Ion Ratio Lower Upper
172 100
171 35.3 28.6 43.0
170 23.8 19.1 28.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1585
Delta R.T. -0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

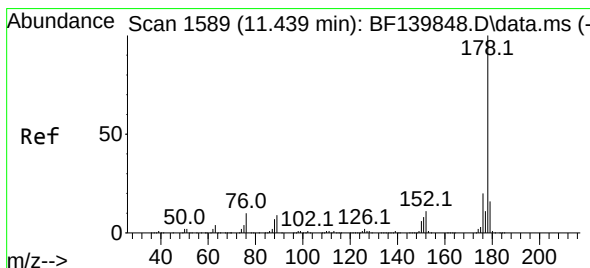
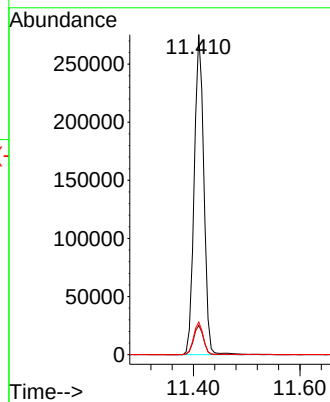
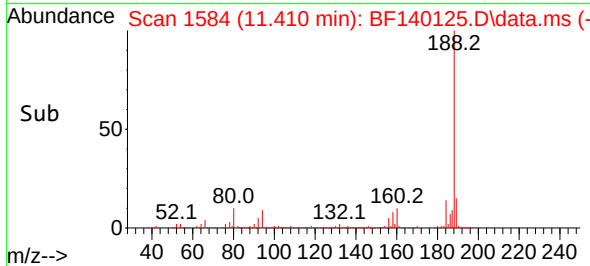
Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1



Tgt Ion:188 Resp: 345918
Ion Ratio Lower Upper
188 100
94 9.2 7.9 11.9
80 10.2 9.0 13.4

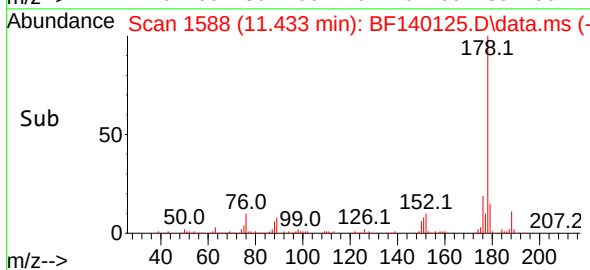
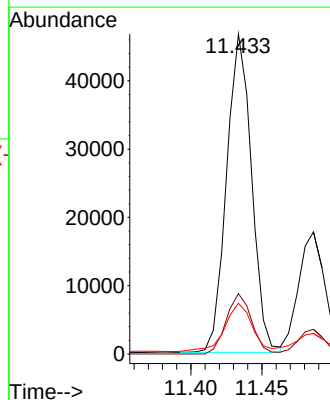
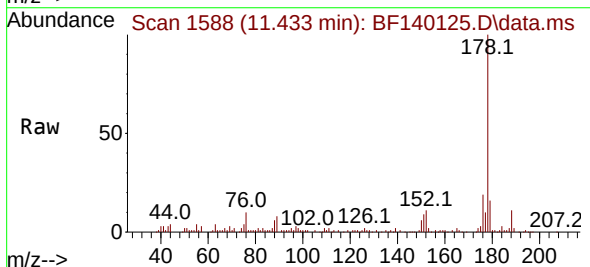
Manual Integrations
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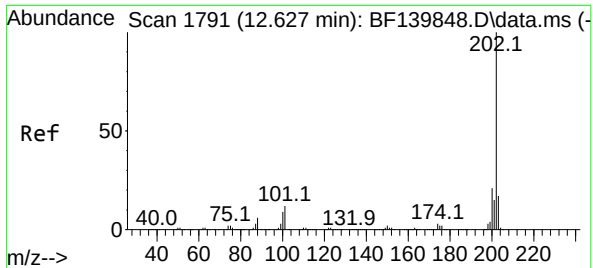
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024



#71
Phenanthrene
Concen: 3.486 ng
RT: 11.433 min Scan# 1588
Delta R.T. -0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

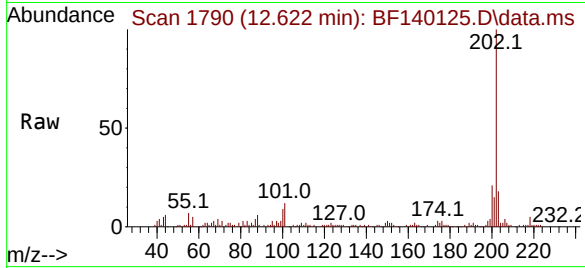
Tgt Ion:178 Resp: 56966
Ion Ratio Lower Upper
178 100
176 18.9 15.8 23.6
179 15.9 12.6 18.8





#75
Fluoranthene
Concen: 3.122 ng
RT: 12.622 min Scan# 1791
Delta R.T. -0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

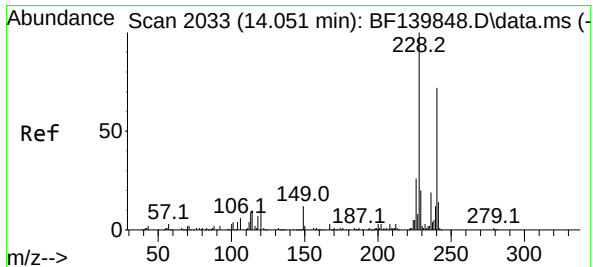
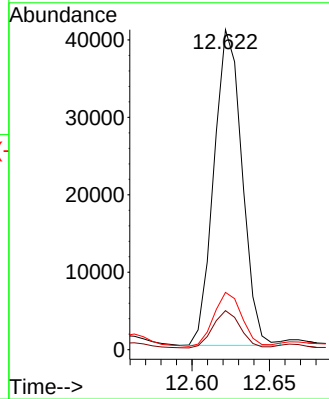
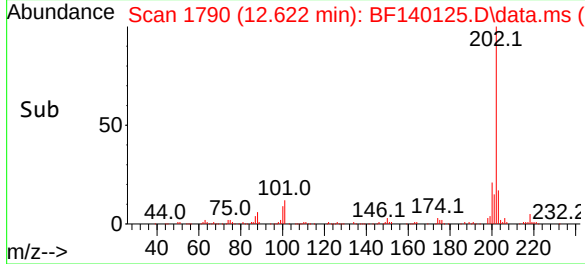
Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1



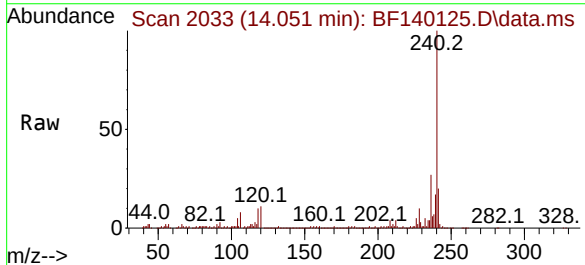
Tgt Ion:202 Resp: 5157
Ion Ratio Lower Upper
202 100
101 12.2 0.0 31.9
203 17.9 0.0 37.5

Manual Integrations
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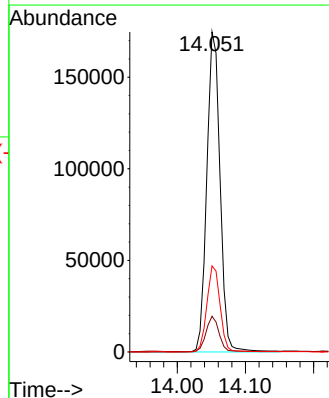
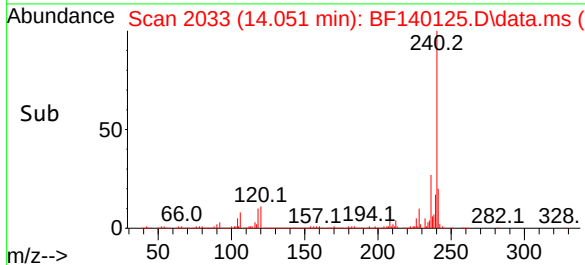
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

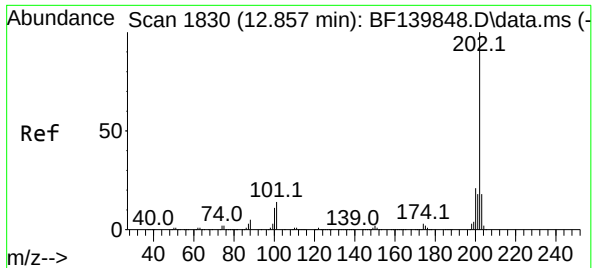


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13



Tgt Ion:240 Resp: 236214
Ion Ratio Lower Upper
240 100
120 11.2 9.4 14.2
236 26.9 20.9 31.3





#78

Pyrene

Concen: 3.288 ng

RT: 12.851 min Scan# 1829

Delta R.T. -0.006 min

Lab File: BF140125.D

Acq: 29 Oct 2024 21:13

Instrument :

BNA_F

ClientSampleId :

WB-305-TOP-1

Tgt Ion:202 Resp: 67980

Ion Ratio Lower Upper

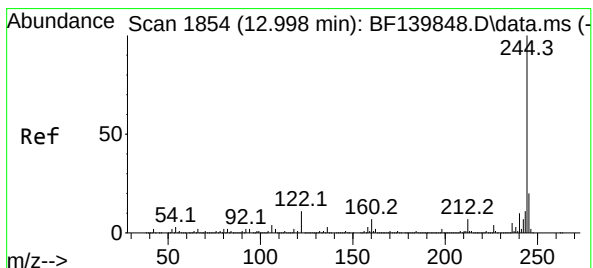
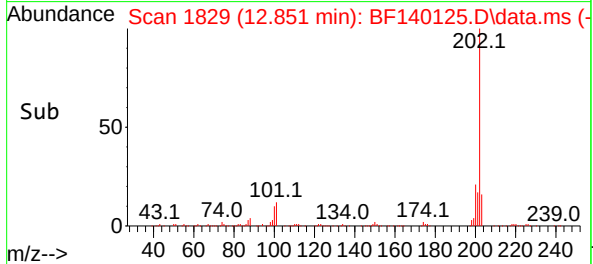
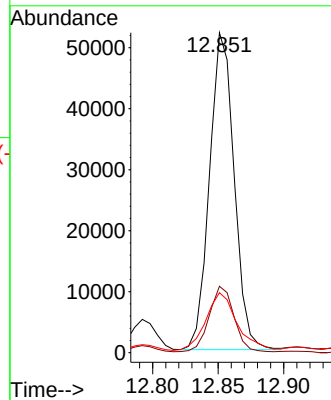
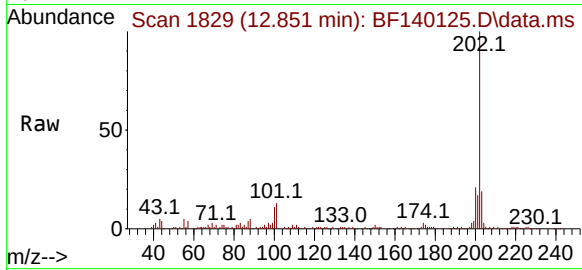
202 100

200 20.7 17.2 25.8

203 18.8 14.2 21.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

#79

Terphenyl-d14

Concen: 42.418 ng

RT: 12.998 min Scan# 1854

Delta R.T. 0.000 min

Lab File: BF140125.D

Acq: 29 Oct 2024 21:13

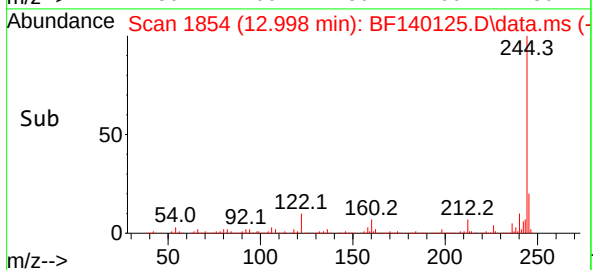
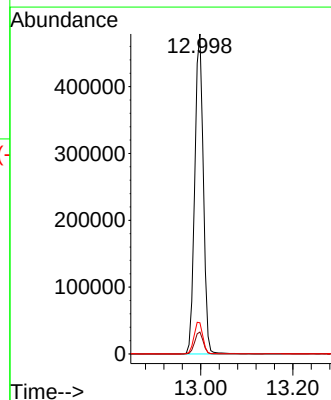
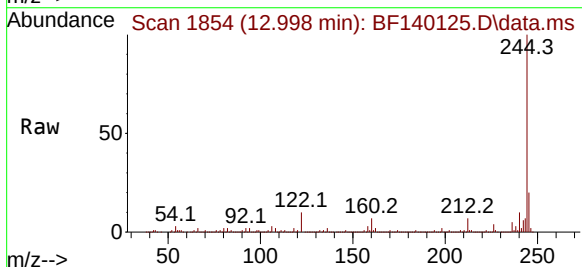
Tgt Ion:244 Resp: 614896

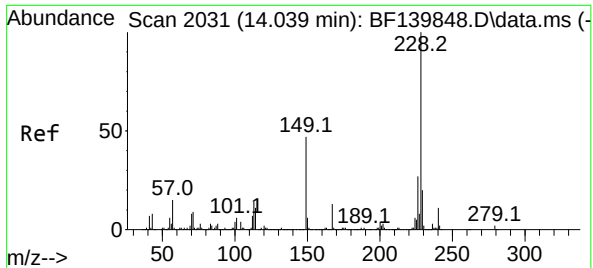
Ion Ratio Lower Upper

244 100

212 6.8 5.7 8.5

122 9.8 8.6 13.0





#81

Benzo(a)anthracene

Concen: 2.540 ng m

RT: 14.045 min Scan# 2031

Delta R.T. 0.006 min

Lab File: BF140125.D

Acq: 29 Oct 2024 21:13

Instrument :

BNA_F

ClientSampleId :

WB-305-TOP-1

Tgt Ion:228 Resp: 3906

Ion Ratio Lower Upper

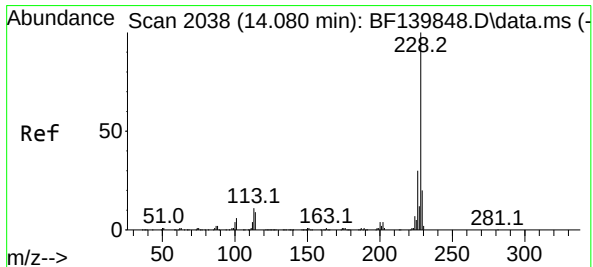
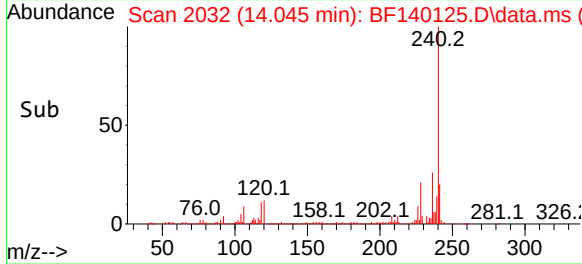
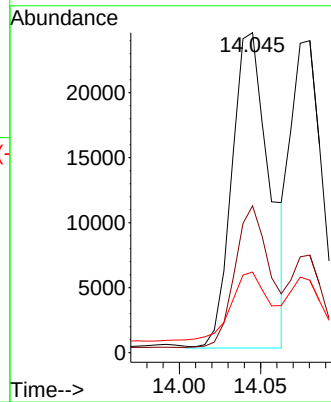
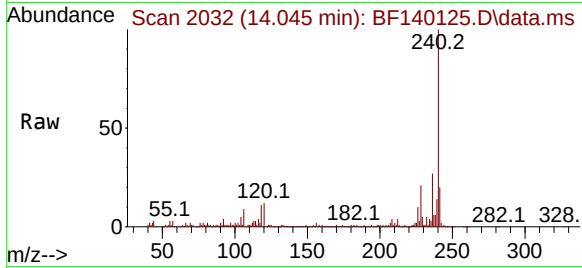
228 100

226 45.9 21.6 32.4

229 25.2 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

#83

Chrysene

Concen: 2.275 ng

RT: 14.080 min Scan# 2038

Delta R.T. 0.000 min

Lab File: BF140125.D

Acq: 29 Oct 2024 21:13

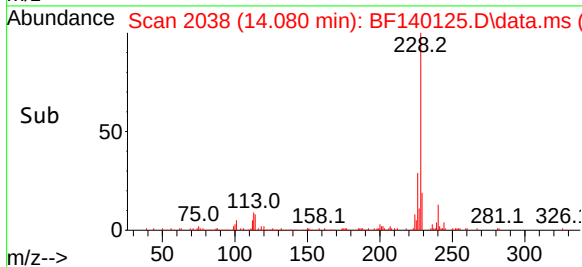
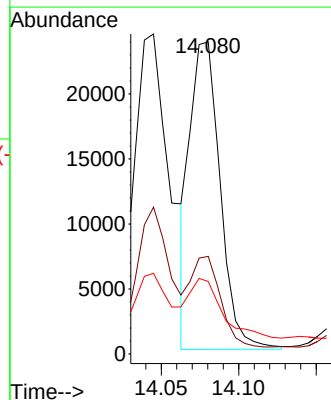
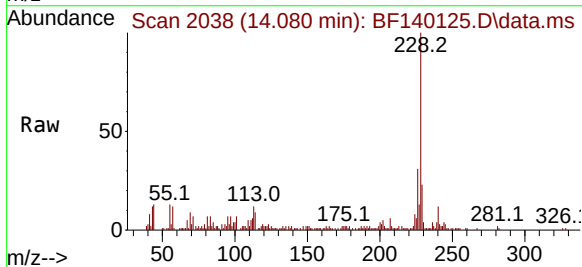
Tgt Ion:228 Resp: 32076

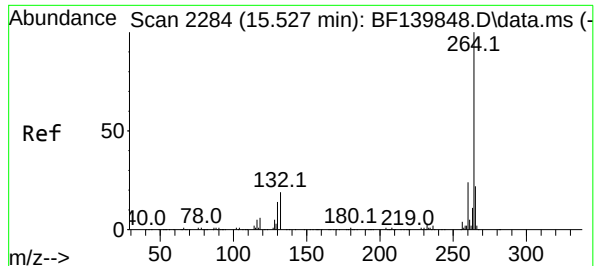
Ion Ratio Lower Upper

228 100

226 31.3 24.1 36.1

229 23.3 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.545 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF140125.D

Acq: 29 Oct 2024 21:13

Instrument :

BNA_F

ClientSampleId :

WB-305-TOP-1

Tgt Ion:264 Resp: 24486

Ion Ratio Lower Upper

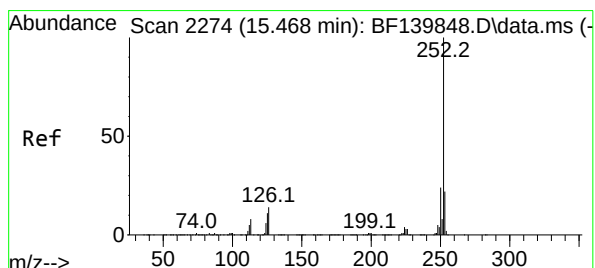
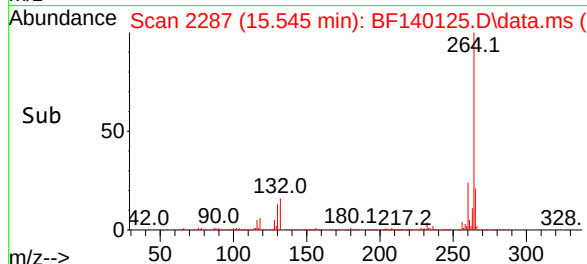
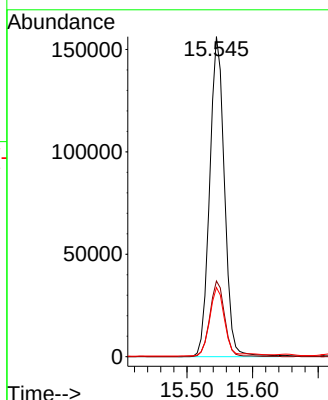
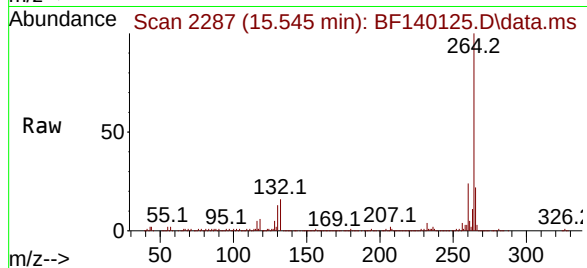
264 100

260 23.7 19.4 29.2

265 21.6 17.4 26.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

#90

Benzo(a)pyrene

Concen: 2.321 ng

RT: 15.480 min Scan# 2276

Delta R.T. 0.012 min

Lab File: BF140125.D

Acq: 29 Oct 2024 21:13

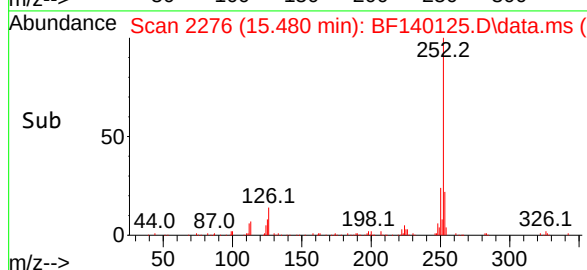
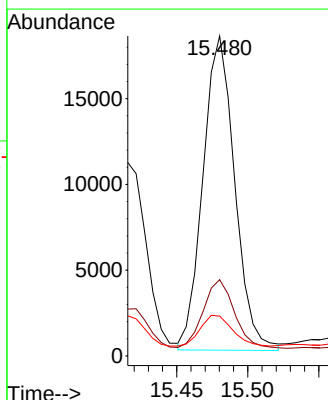
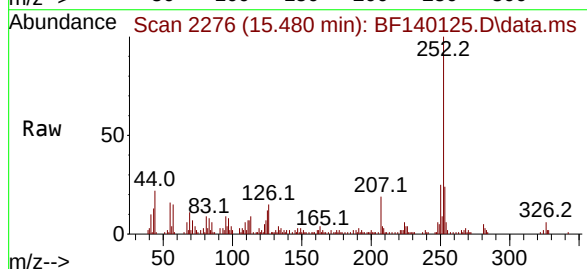
Tgt Ion:252 Resp: 28489

Ion Ratio Lower Upper

252 100

253 23.9 17.3 25.9

125 12.4 8.7 13.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
 Data File : BF140125.D
 Acq On : 29 Oct 2024 21:13
 Operator : RC/JU
 Sample : P4578-04
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WB-305-TOP-1

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-BF101824.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140125.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.193	9	17	25	rVB	1088074	1758043	71.25%	7.928%
2	3.999	318	324	332	rBV	26173	41287	1.67%	0.186%
3	5.122	505	515	520	rVB2	17224	31171	1.26%	0.141%
4	5.510	574	581	586	rBV	1648997	2257782	91.50%	10.182%
5	6.510	744	751	760	rBV	1646359	2345106	95.04%	10.576%
6	6.887	810	815	821	rBV	609379	754398	30.57%	3.402%
7	7.281	876	882	888	rBV2	19713	31166	1.26%	0.141%
8	7.445	901	910	915	rBV	1149031	1535698	62.24%	6.926%
9	7.651	939	945	947	rBV2	19479	29157	1.18%	0.131%
10	7.698	947	953	958	rVB2	68012	117577	4.77%	0.530%
11	7.904	981	988	993	rBV3	32616	57208	2.32%	0.258%
12	8.169	1025	1033	1040	rBV	790526	1086753	44.04%	4.901%
13	8.381	1064	1069	1074	rVB	22820	29587	1.20%	0.133%
14	8.757	1129	1133	1137	rVB	28555	32499	1.32%	0.147%
15	8.881	1150	1154	1158	rVB	52076	61979	2.51%	0.280%
16	8.981	1166	1171	1176	rVB	55762	68391	2.77%	0.308%
17	9.245	1210	1216	1221	rBV	1861894	2467471	100.00%	11.128%
18	9.322	1225	1229	1238	rVB	34980	54911	2.23%	0.248%
19	9.439	1245	1249	1255	rVB	25365	38396	1.56%	0.173%
20	9.504	1255	1260	1265	rBV	27995	43152	1.75%	0.195%
21	9.581	1268	1273	1276	rVV	48747	72916	2.96%	0.329%
22	9.639	1280	1283	1290	rVB3	23533	33547	1.36%	0.151%
23	9.698	1290	1293	1302	rVB	26992	41218	1.67%	0.186%
24	9.781	1303	1307	1311	rVB	29818	38729	1.57%	0.175%
25	9.851	1312	1319	1323	rVB2	20368	30786	1.25%	0.139%
26	9.922	1323	1331	1335	rBV	817926	1056036	42.80%	4.762%
27	9.957	1335	1337	1341	rVB	54373	53837	2.18%	0.243%
28	10.122	1361	1365	1369	rBV3	23629	32062	1.30%	0.145%
29	10.239	1380	1385	1388	rBV2	21928	34086	1.38%	0.154%
30	10.328	1396	1400	1406	rBV4	21879	49834	2.02%	0.225%
31	10.469	1421	1424	1429	rVB2	30697	39082	1.58%	0.176%
32	10.575	1437	1442	1447	rVV3	27728	58376	2.37%	0.263%
33	10.633	1447	1452	1459	rVV	391177	501396	20.32%	2.261%
34	10.710	1459	1465	1477	rVV	881778	1150978	46.65%	5.191%
35	10.833	1481	1486	1493	rVB	42768	71871	2.91%	0.324%
36	10.945	1501	1505	1509	rBV	23217	28240	1.14%	0.127%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	11.016	1512	1517	1520	rBV3	26625	41409	1.68%	0.187%
38	11.304	1563	1566	1572	rVB2	34728	49619	2.01%	0.224%
39	11.410	1579	1584	1592	rBV2	665165	984176	39.89%	4.438%
40	11.480	1592	1596	1600	rVB	45007	62774	2.54%	0.283%
41	11.933	1665	1673	1679	rBV2	211475	375151	15.20%	1.692%
42	12.022	1685	1688	1697	rVB	83676	174038	7.05%	0.785%
43	12.463	1759	1763	1766	rBV	33039	39648	1.61%	0.179%
44	12.498	1766	1769	1775	rVB2	29925	47729	1.93%	0.215%
45	12.557	1775	1779	1786	rVB4	19367	42834	1.74%	0.193%
46	12.622	1786	1790	1794	rBV	104452	145188	5.88%	0.655%
47	12.663	1794	1797	1803	rVB	146157	185046	7.50%	0.835%
48	12.716	1803	1806	1814	rVB	43486	60423	2.45%	0.272%
49	12.851	1825	1829	1835	rVB	111655	155023	6.28%	0.699%
50	12.998	1848	1854	1862	rVB	1243943	1626866	65.93%	7.337%
51	13.074	1863	1867	1874	rVV2	20130	37320	1.51%	0.168%
52	13.180	1879	1885	1889	rVB	41687	72574	2.94%	0.327%
53	13.286	1900	1903	1910	rVB2	25780	38825	1.57%	0.175%
54	13.898	2002	2007	2015	rBV	74421	135355	5.49%	0.610%
55	13.969	2016	2019	2025	rVB4	24151	29976	1.21%	0.135%
56	14.051	2027	2033	2045	rBV2	544721	870255	35.27%	3.925%
57	15.110	2209	2213	2221	rVB	37266	81467	3.30%	0.367%
58	15.416	2262	2265	2271	rVB	29110	43379	1.76%	0.196%
59	15.480	2272	2276	2281	rVV	44652	69894	2.83%	0.315%
60	15.545	2281	2287	2300	rVB	411809	670432	27.17%	3.023%

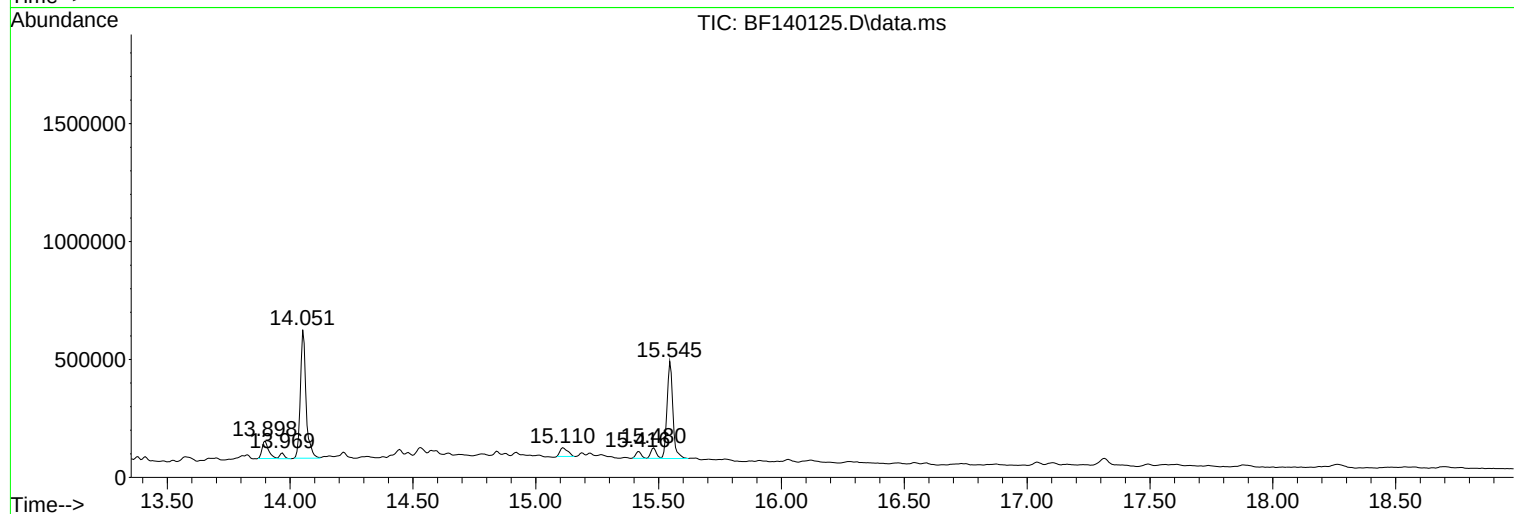
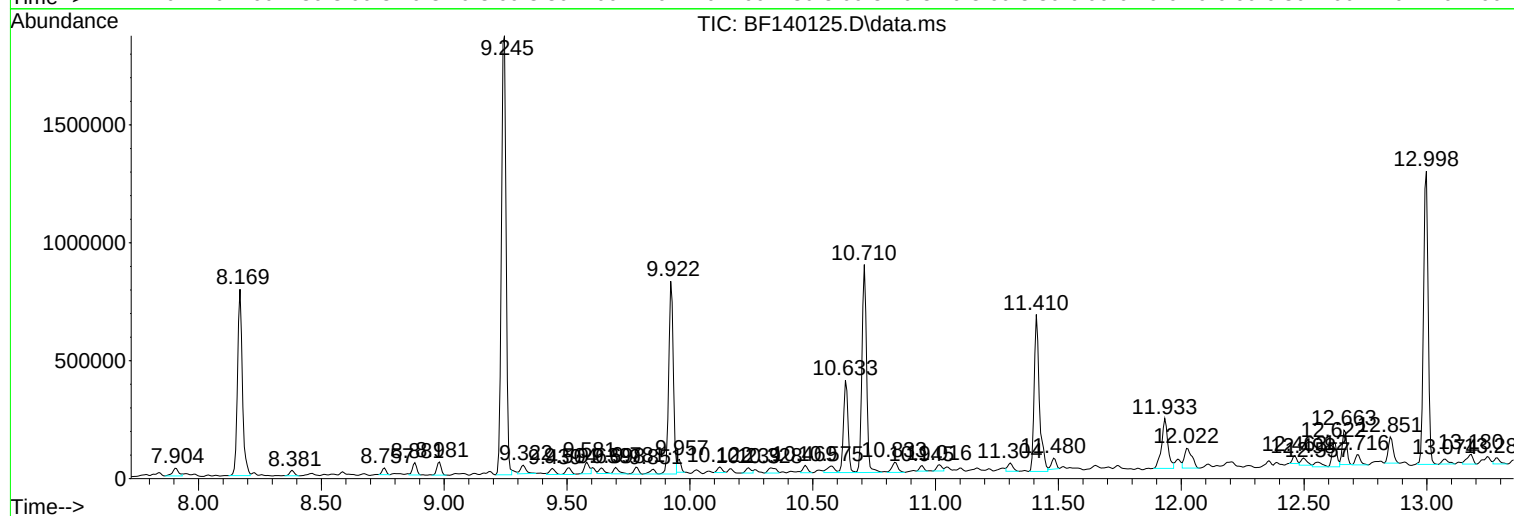
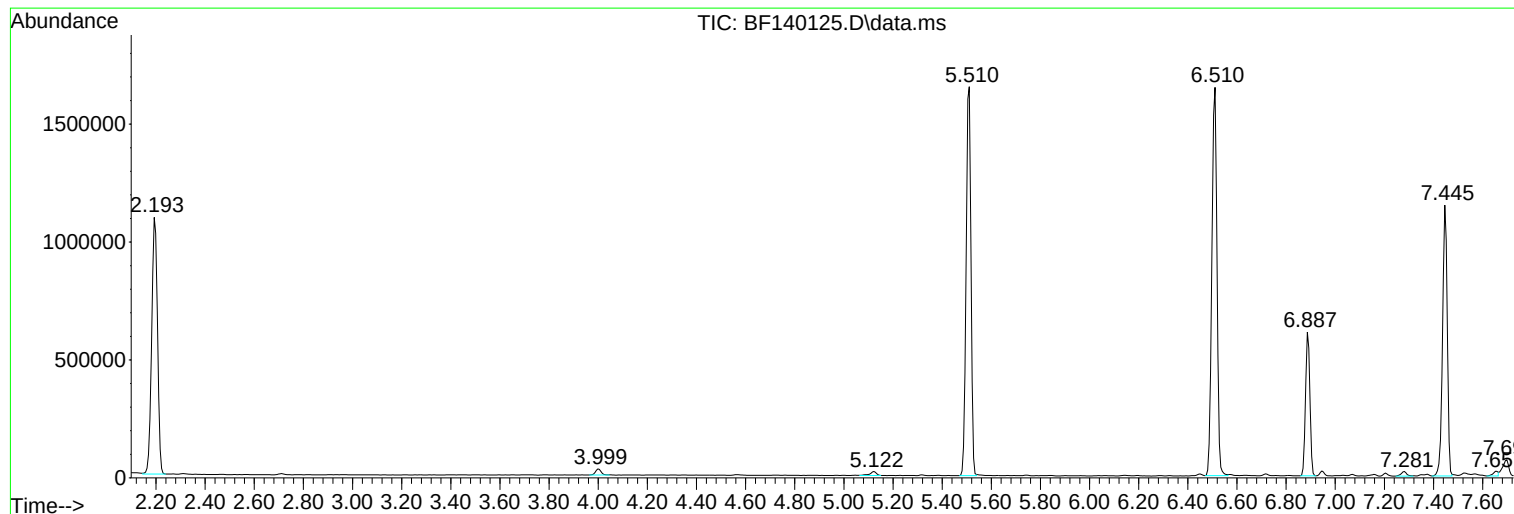
Sum of corrected areas: 22174127

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

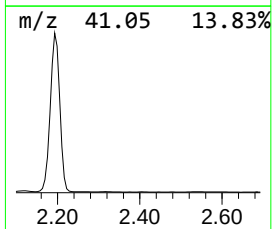
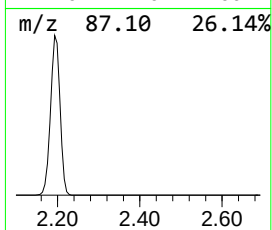
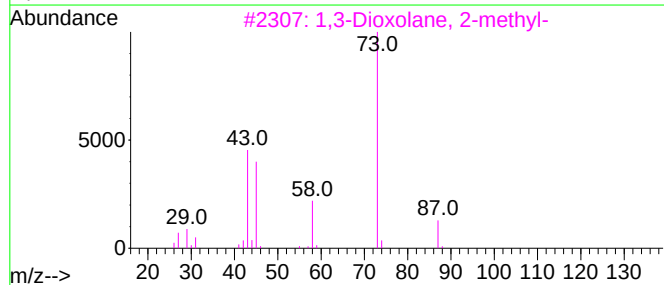
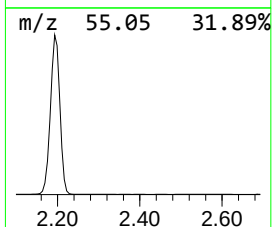
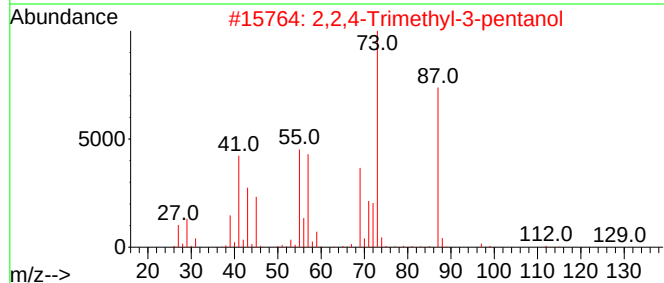
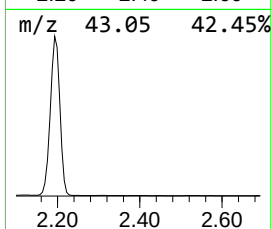
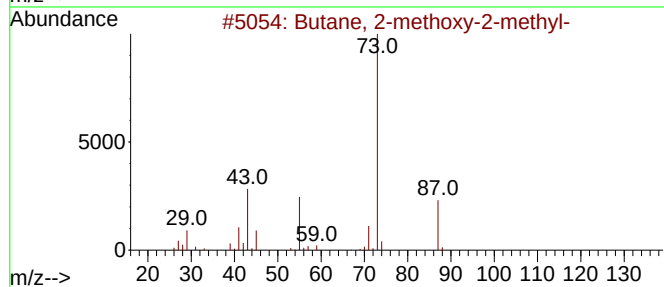
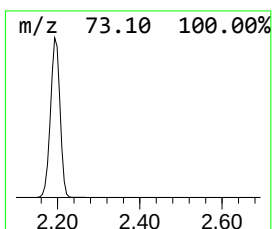
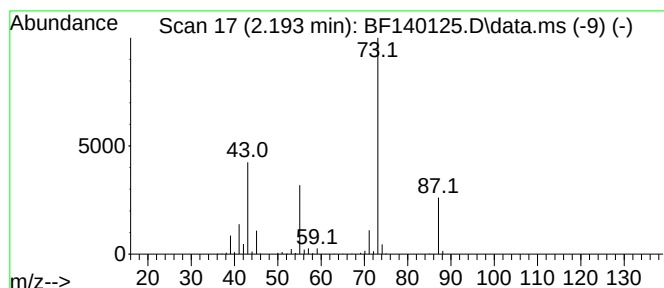
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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.
2.193	46.61 ng	1758040	1,4-Dichlorobenzene-d4	6.887

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			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\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

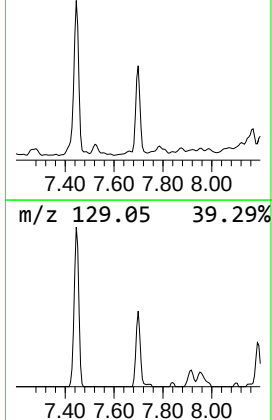
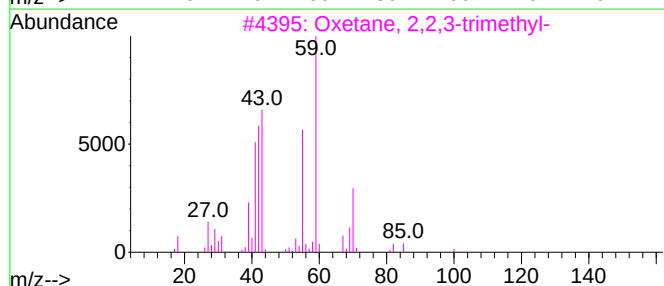
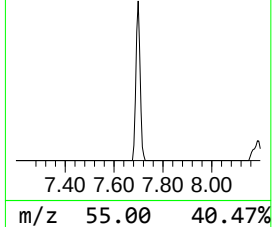
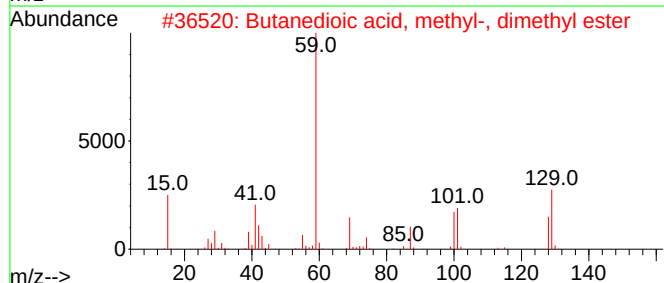
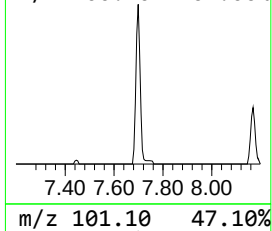
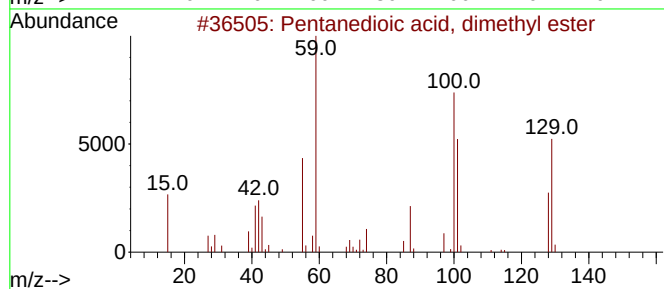
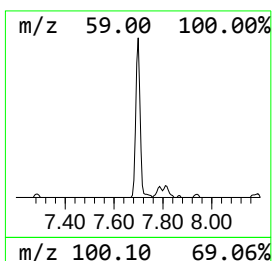
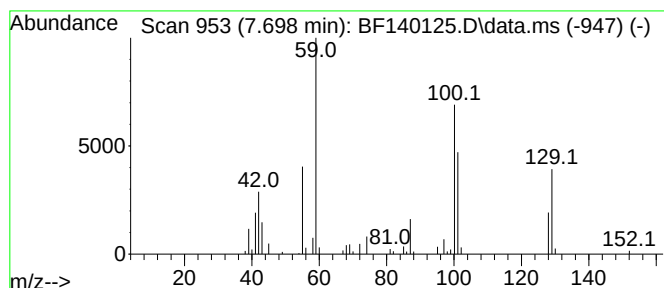
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Pentanedioic acid, dimethyl... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.698	2.16 ng	117577	Naphthalene-d8	8.169

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Pentanedioic acid, dimethyl ester	160	C7H12O4	001119-40-0	91
2		Butanedioic acid, methyl-, dimet...	160	C7H12O4	001604-11-1	45
3		Oxetane, 2,2,3-trimethyl-	100	C6H12O	023120-43-6	27
4		Hydrazine, 1,1-bis(1-methylethyl)-	116	C6H16N2	000921-14-2	23
5		Butyric acid, 3-bromo-, methyl e...	180	C5H9BrO2	021249-59-2	23



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

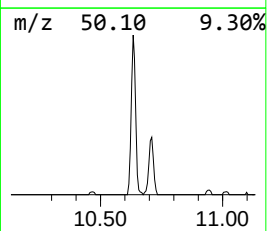
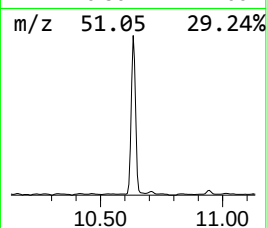
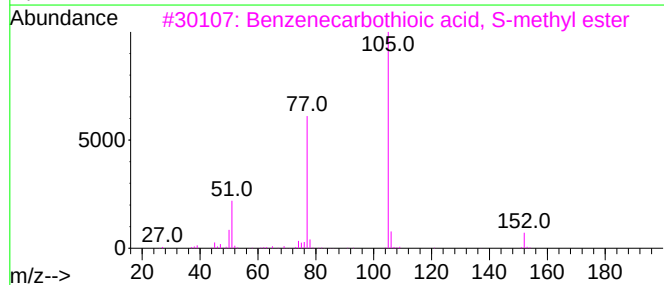
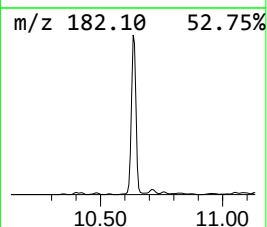
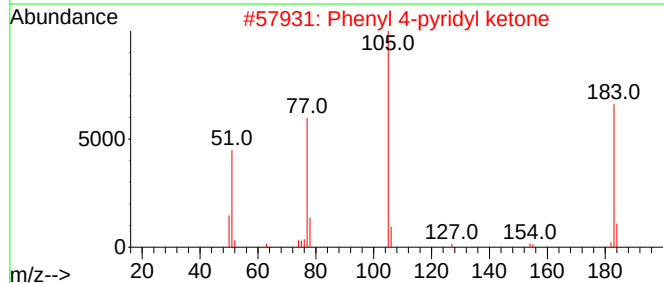
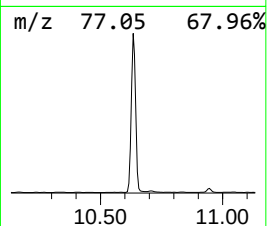
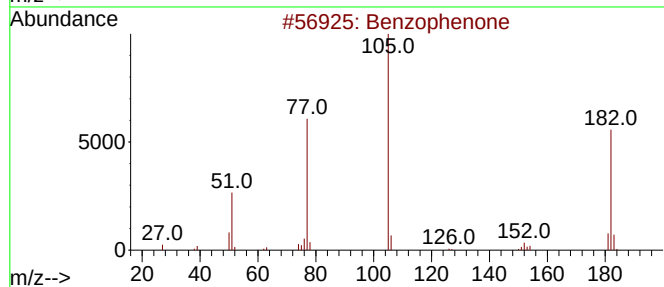
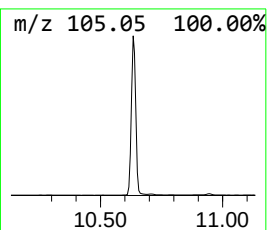
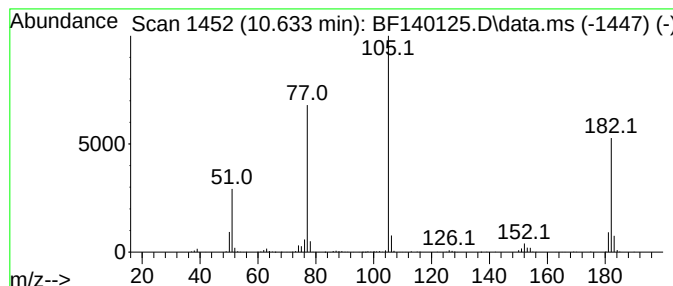
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.634	9.50 ng	501396	Acenaphthene-d10	9.922

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	58
3			Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
4			acetic acid, 2-bromo-, 2-oxo-2-p...	256	C10H9BrO3	1000401-50-0	47
5			Ethanone, 2,2,2-trifluoro-1-phenyl-	174	C8H5F3O	000434-45-7	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

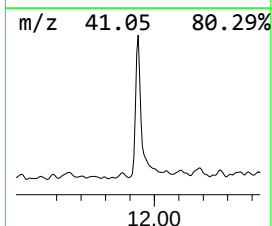
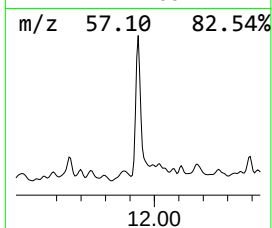
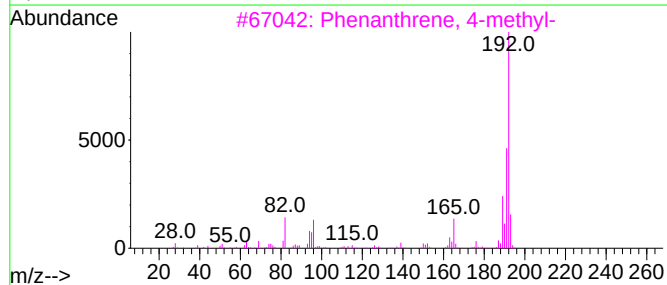
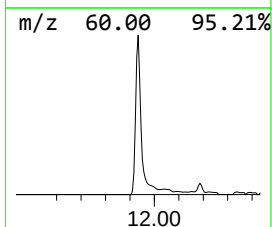
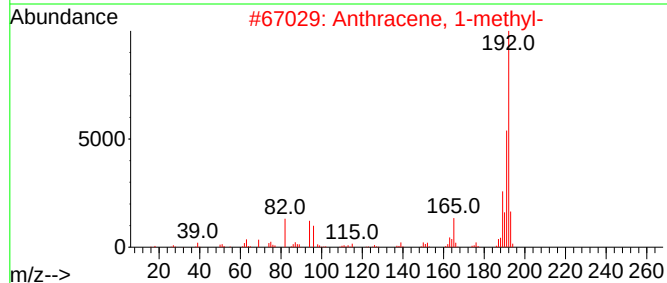
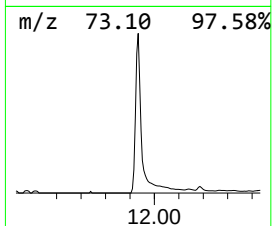
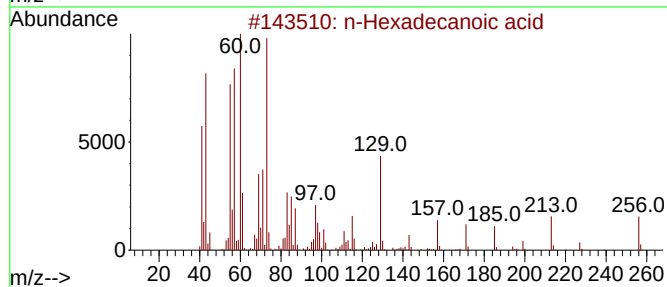
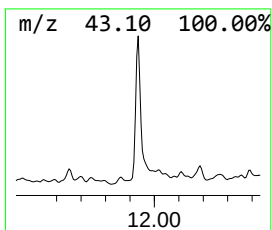
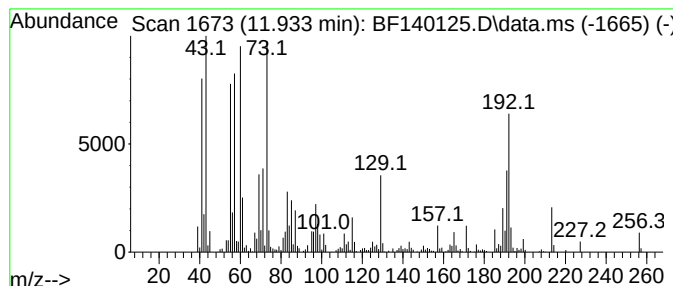
Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.933	7.62 ng	375151	Phenanthrene-d10	11.410	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	90
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	83
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	62



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

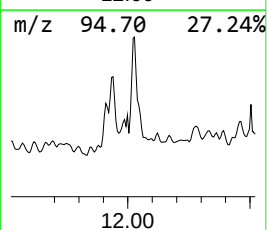
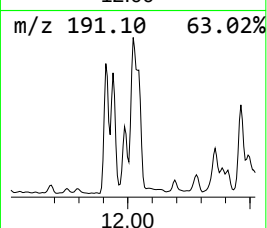
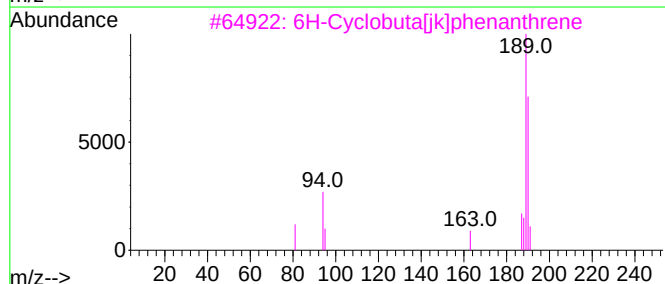
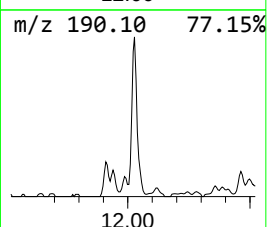
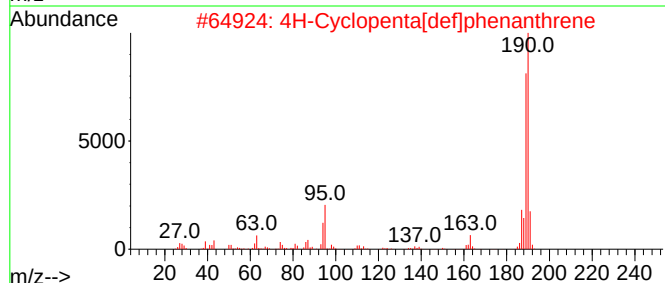
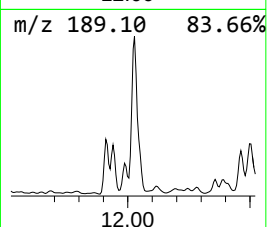
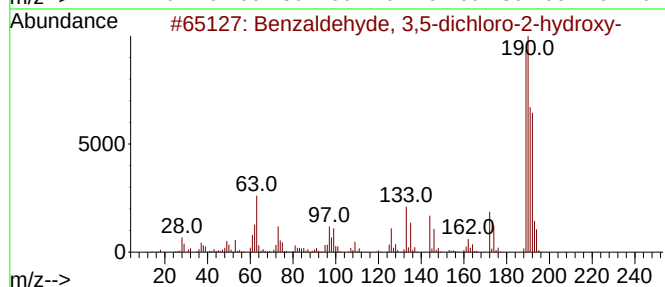
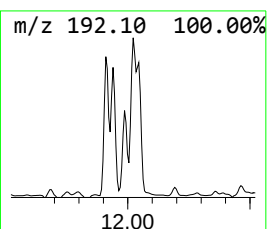
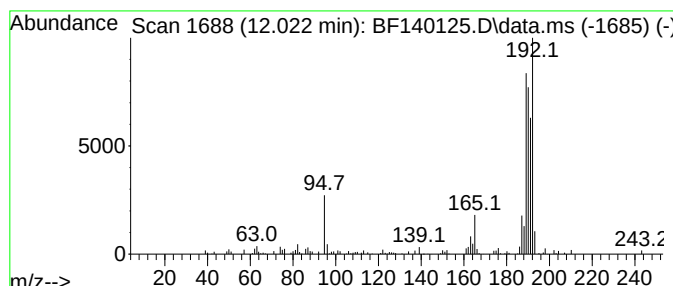
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ClientSampleId :
WB-305-TOP-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Benzaldehyde, 3,5-dichloro-... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD		R.T.	
12.022	3.54 ng	174038	Phenanthrene-d10		11.410	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3,5-dichloro-2-hyd...		190	C7H4Cl2O2	000090-60-8	53
2	4H-Cyclopenta[def]phenanthrene		190	C15H10	000203-64-5	49
3	6H-Cyclobuta[jk]phenanthrene		190	C15H10	083469-43-6	46
4	Naphtho[1,2-b]norbornadiene		192	C15H12	1000210-14-8	41
5	2,2'-Bis(4,5-dimethylimidazole)		190	C10H14N4	069286-06-2	38



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

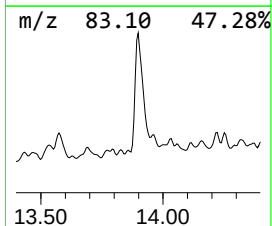
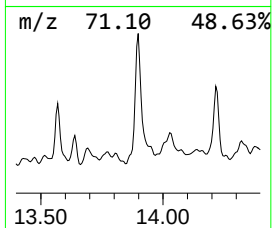
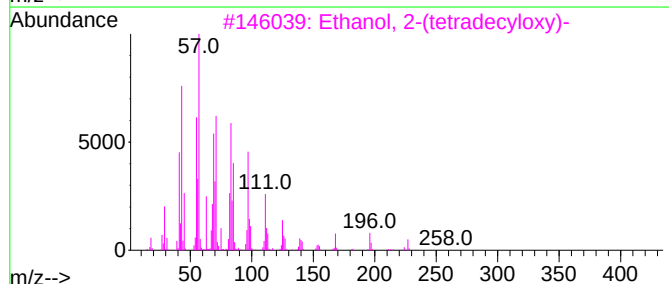
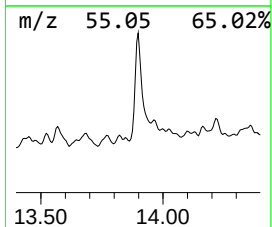
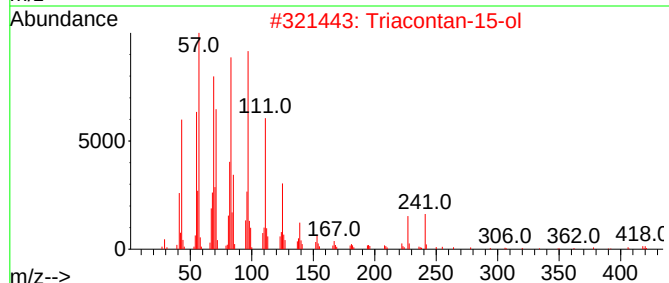
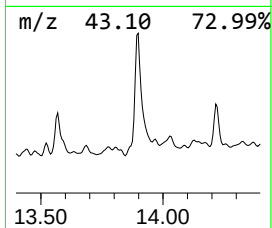
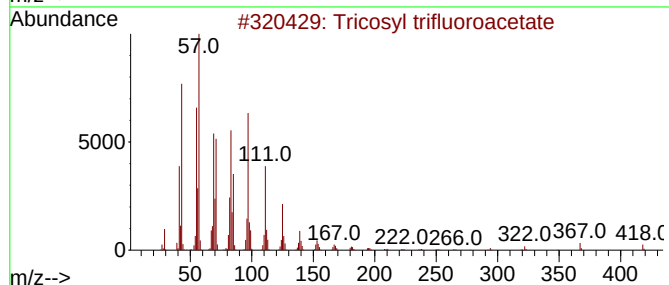
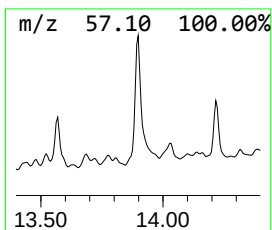
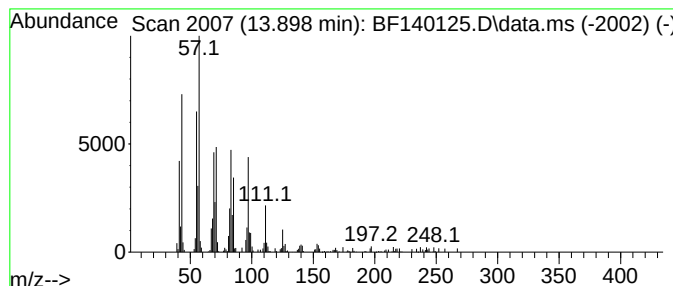
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Tricosyl trifluoroacetate Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.898	3.11 ng	135355	Chrysene-d12	14.051

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Tricosyl trifluoroacetate	436	C25H47F3O2	1000351-75-1	91
2			Triacontan-15-ol	438	C30H62O	031849-26-0	91
3			Ethanol, 2-(tetradecyloxy)-	258	C16H34O2	002136-70-1	91
4			Hexacosyl heptafluorobutyrate	578	C30H53F7O2	1000351-83-3	91
5			Octacosyl trifluoroacetate	506	C30H57F3O2	1000351-74-9	91



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

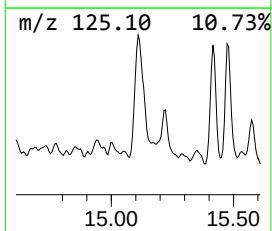
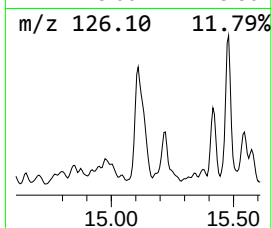
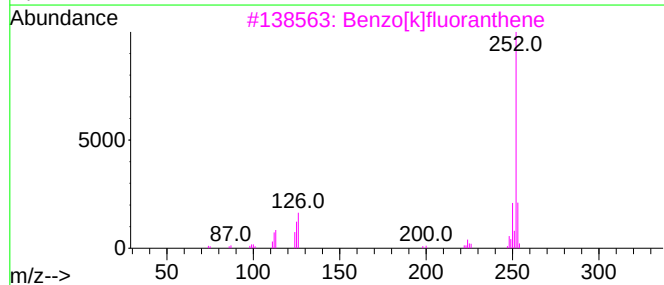
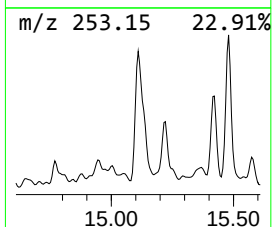
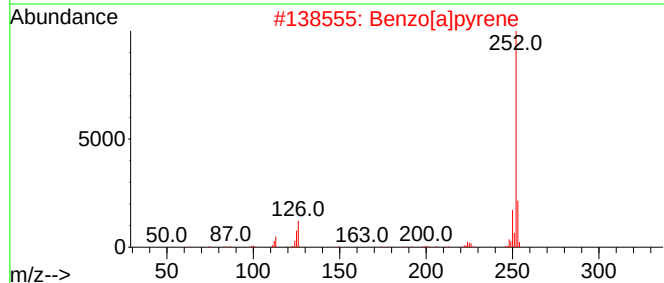
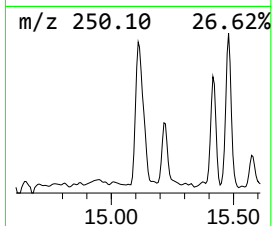
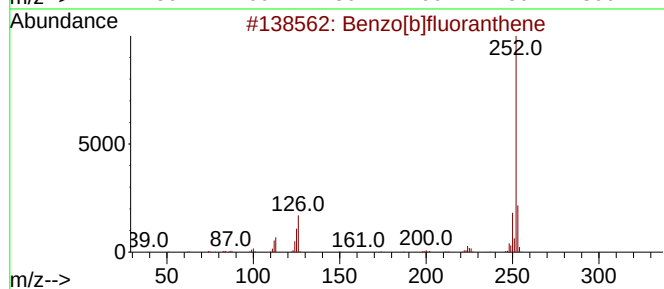
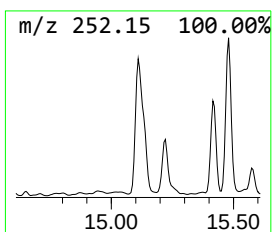
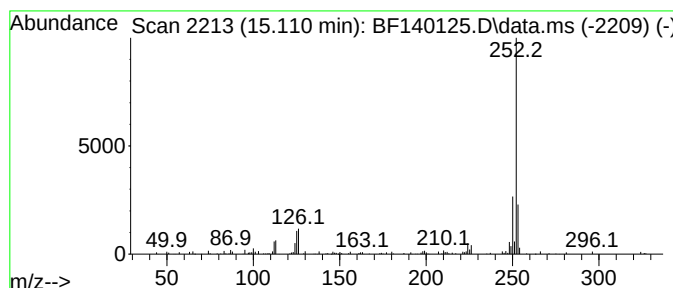
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Benzo[e]pyrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.110	2.43 ng	81467	Perylene-d12	15.545

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzo[b]fluoranthene	252	C20H12	000205-99-2	96
2			Benzo[a]pyrene	252	C20H12	000050-32-8	94
3			Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
4			Benzo[e]pyrene	252	C20H12	000192-97-2	90
5			Benzo[j]fluoranthene	252	C20H12	000205-82-3	90



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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...	2.193	46.6	ng	1758040	1	6.887	754398	20.0
Pentanedioic ac...	7.698	2.2	ng	117577	2	8.169	1086750	20.0
Benzophenone	10.634	9.5	ng	501396	3	9.922	1056040	20.0
n-Hexadecanoic ...	11.933	7.6	ng	375151	4	11.410	984176	20.0
Benzaldehyde, 3...	12.022	3.5	ng	174038	4	11.410	984176	20.0
Tricosyl triflu...	13.898	3.1	ng	135355	5	14.051	870255	20.0
Benzo[e]pyrene	15.110	2.4	ng	81467	6	15.545	670432	20.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.1
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
BF140110.D	1	10/28/24 09:00	10/29/24 14:16	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	220	U	220	400	ug/Kg
108-95-2	Phenol	100	U	100	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	100	U	100	210	ug/Kg
95-57-8	2-Chlorophenol	100	U	100	210	ug/Kg
95-48-7	2-Methylphenol	98.1	U	98.1	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	U	110	210	ug/Kg
98-86-2	Acetophenone	110	U	110	210	ug/Kg
65794-96-9	3+4-Methylphenols	97.1	U	97.1	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	49.1	U	49.1	97.4	ug/Kg
67-72-1	Hexachloroethane	100	U	100	210	ug/Kg
98-95-3	Nitrobenzene	110	U	110	210	ug/Kg
78-59-1	Isophorone	100	U	100	210	ug/Kg
88-75-5	2-Nitrophenol	120	U	120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	100	U	100	210	ug/Kg
120-83-2	2,4-Dichlorophenol	91.9	U	91.9	210	ug/Kg
91-20-3	Naphthalene	100	U	100	210	ug/Kg
106-47-8	4-Chloroaniline	100	UQ	100	210	ug/Kg
87-68-3	Hexachlorobutadiene	100	U	100	210	ug/Kg
105-60-2	Caprolactam	110	U	110	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	94.3	U	94.3	210	ug/Kg
91-57-6	2-Methylnaphthalene	100	U	100	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	190	UQ	190	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	86.9	U	86.9	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	90.1	U	90.1	210	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	100	U	100	210	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	210	ug/Kg
131-11-3	Dimethylphthalate	99.4	U	99.4	210	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.1
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
BF140110.D	1	10/28/24 09:00	10/29/24 14:16	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	110	U	110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	100	U	100	210	ug/Kg
99-09-2	3-Nitroaniline	110	UQ	110	210	ug/Kg
83-32-9	Acenaphthene	98.7	U	98.7	210	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	300	400	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	400	ug/Kg
132-64-9	Dibenzofuran	100	U	100	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	100	U	100	210	ug/Kg
84-66-2	Diethylphthalate	97.5	U	97.5	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	100	U	100	210	ug/Kg
86-73-7	Fluorene	100	U	100	210	ug/Kg
100-01-6	4-Nitroaniline	130	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	U	140	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	99.3	U	99.3	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	96.0	U	96.0	210	ug/Kg
118-74-1	Hexachlorobenzene	100	U	100	210	ug/Kg
1912-24-9	Atrazine	110	U	110	210	ug/Kg
87-86-5	Pentachlorophenol	94.1	U	94.1	400	ug/Kg
85-01-8	Phenanthrene	100	U	100	210	ug/Kg
120-12-7	Anthracene	100	U	100	210	ug/Kg
86-74-8	Carbazole	97.7	U	97.7	210	ug/Kg
84-74-2	Di-n-butylphthalate	100	U	100	210	ug/Kg
206-44-0	Fluoranthene	99.4	U	99.4	210	ug/Kg
129-00-0	Pyrene	100	U	100	210	ug/Kg
85-68-7	Butylbenzylphthalate	120	U	120	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	120	UQ	120	400	ug/Kg
56-55-3	Benzo(a)anthracene	98.2	U	98.2	210	ug/Kg
218-01-9	Chrysene	96.8	U	96.8	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	210	ug/Kg
117-84-0	Di-n-octyl phthalate	130	U	130	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	98.7	U	98.7	210	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.1
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
BF140110.D	1	10/28/24 09:00	10/29/24 14:16	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	100	U	100	210	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	95.1	U	95.1	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	98.8	U	98.8	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	97.5	U	97.5	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	210	ug/Kg
123-91-1	1,4-Dioxane	130	U	130	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	90.9	U	90.9	210	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	89.9		30 (18) - 130 (112)	60%	SPK: 150
13127-88-3	Phenol-d6	88.8		30 (15) - 130 (107)	59%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.2		30 (18) - 130 (107)	66%	SPK: 100
321-60-8	2-Fluorobiphenyl	66.1		30 (20) - 130 (109)	66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	102		30 (10) - 130 (116)	68%	SPK: 150
1718-51-0	Terphenyl-d14	70.9		30 (10) - 130 (105)	71%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	121000	6.887
1146-65-2	Naphthalene-d8	473000	8.169
15067-26-2	Acenaphthene-d10	267000	9.922
1517-22-2	Phenanthrene-d10	461000	11.41
1719-03-5	Chrysene-d12	225000	14.057
1520-96-3	Perylene-d12	272000	15.551

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	2200	JB	2.20	ug/Kg
001119-40-0	Pentanedioic acid, dimethyl ester	83.2	J	7.70	ug/Kg
000119-61-9	Benzophenone	540	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	340	J	11.9	ug/Kg
006385-15-5	Heptafluorobutyric acid, hexadecyl	240	J	13.9	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.1
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
BF140110.D	1	10/28/24 09:00	10/29/24 14:16	PB164461

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\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Quant Time: Oct 29 14:53:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	120686	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	473213	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	267166	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	461039	20.000	ng	0.00
76) Chrysene-d12	14.057	240	224689	20.000	ng	0.00
86) Perylene-d12	15.551	264	271519	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	693174	89.916	ng	0.00
7) Phenol-d6	6.504	99	886850	88.822	ng	0.00
23) Nitrobenzene-d5	7.446	82	564898	66.162	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	255776	102.352	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1068584	66.103	ng	0.00
79) Terphenyl-d14	12.998	244	977691	70.904	ng	0.00

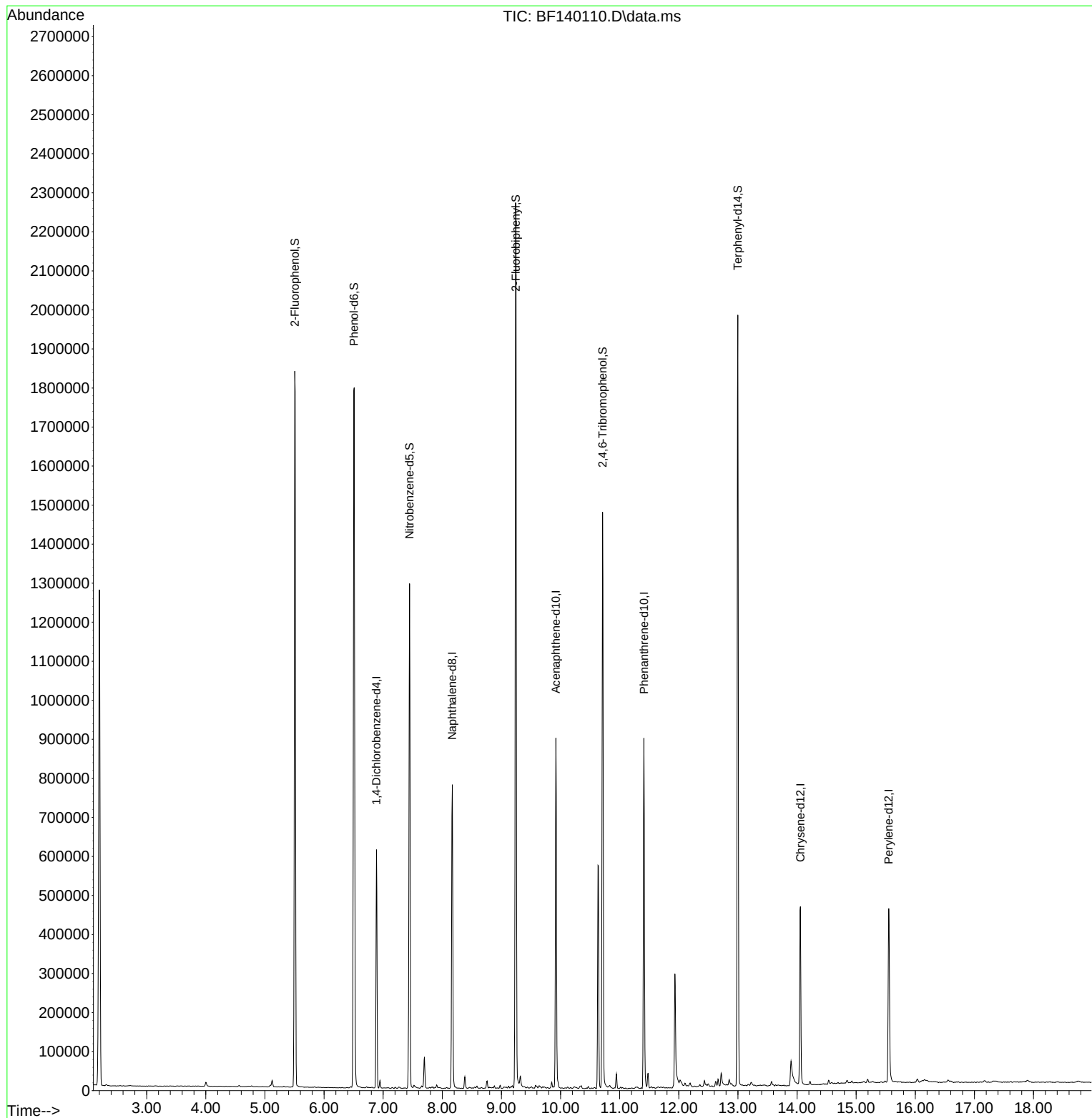
Target Compounds	Qvalue

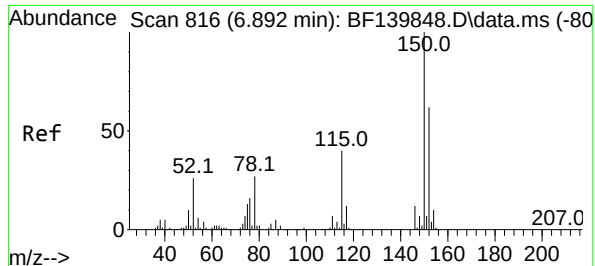
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Quant Time: Oct 29 14:53:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

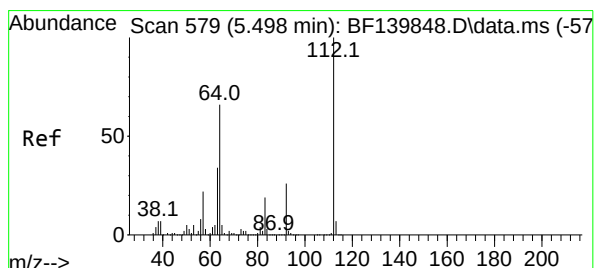
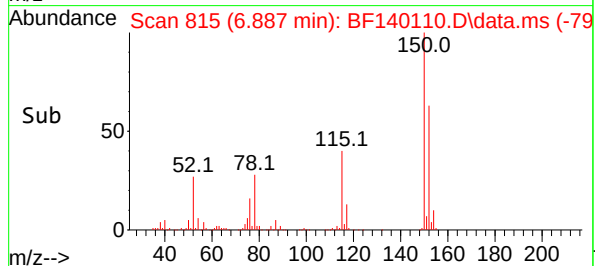
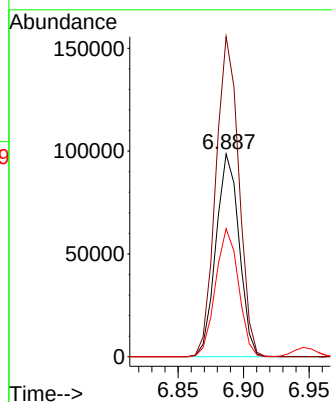
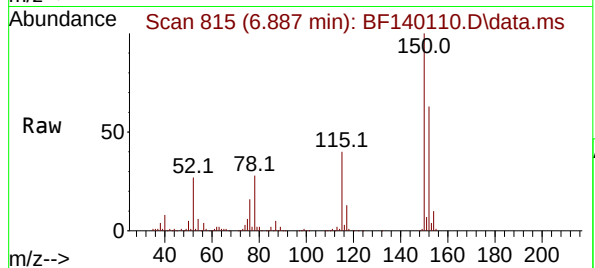




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 816
Delta R.T. -0.005 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

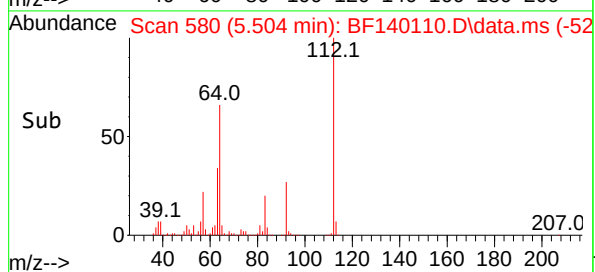
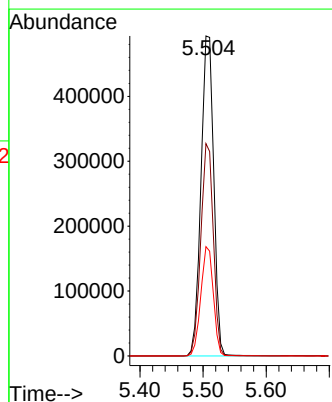
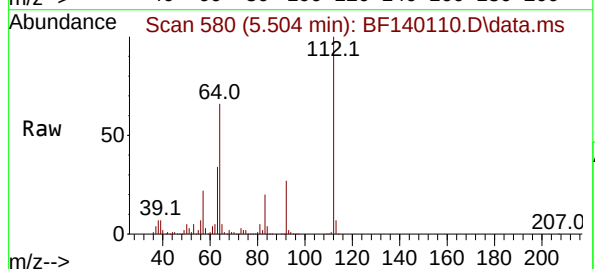
Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

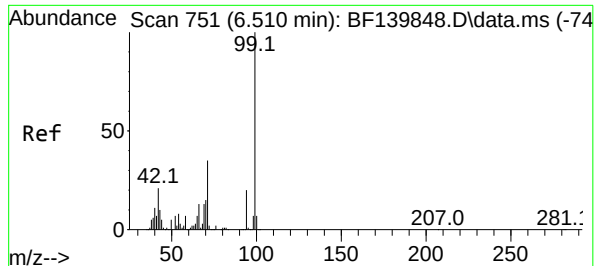
Tgt Ion:152 Resp: 120686
Ion Ratio Lower Upper
152 100
150 157.9 130.2 195.2
115 63.1 51.4 77.2



#5
2-Fluorophenol
Concen: 89.916 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

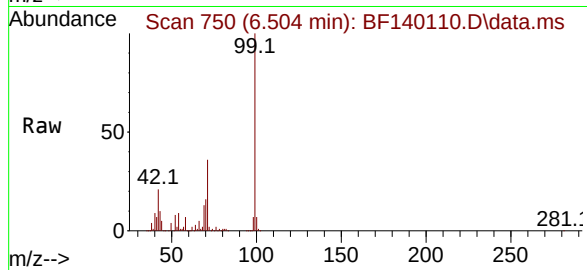
Tgt Ion:112 Resp: 693174
Ion Ratio Lower Upper
112 100
64 66.4 53.0 79.6
63 34.1 27.0 40.4



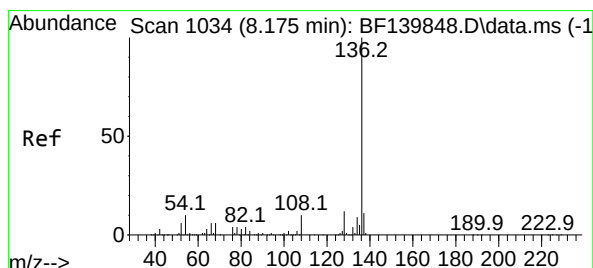
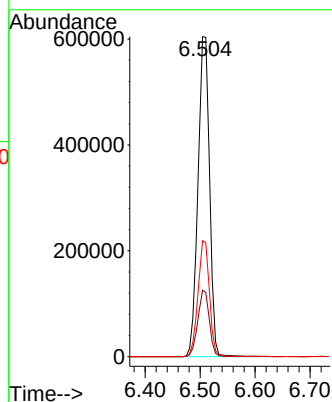
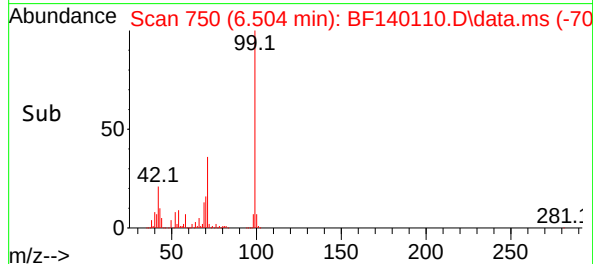


#7
Phenol-d6
Concen: 88.822 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

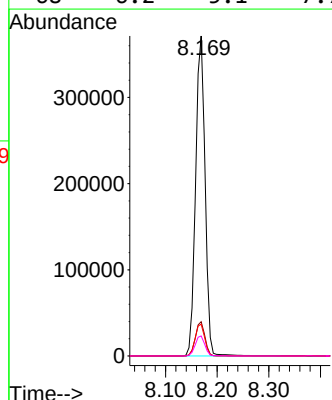
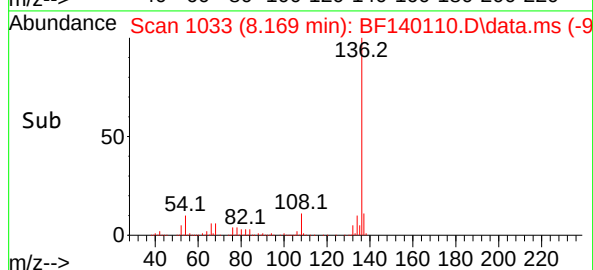
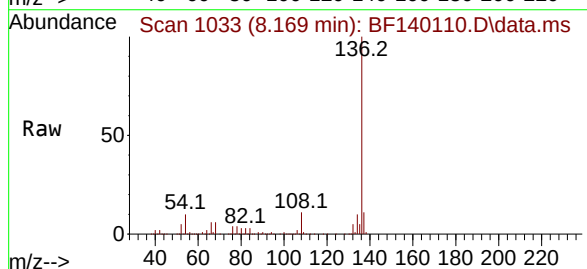


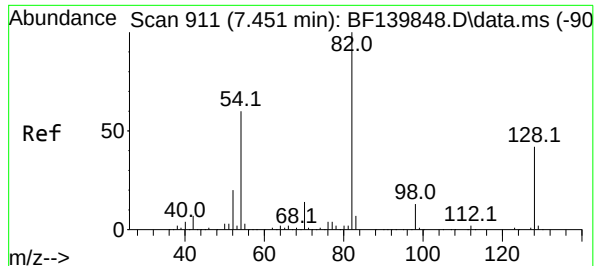
Tgt Ion: 99 Resp: 886850
Ion Ratio Lower Upper
99 100
42 20.8 16.7 25.1
71 36.2 27.7 41.5



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Tgt Ion: 136 Resp: 473213
Ion Ratio Lower Upper
136 100
137 10.7 8.6 12.8
54 9.9 8.4 12.6
68 6.2 5.1 7.7





#23

Nitrobenzene-d5

Concen: 66.162 ng

RT: 7.446 min Scan# 911

Delta R.T. -0.006 min

Lab File: BF140110.D

Acq: 29 Oct 2024 14:16

Instrument :

BNA_F

ClientSampleId :

WB-305-BOT

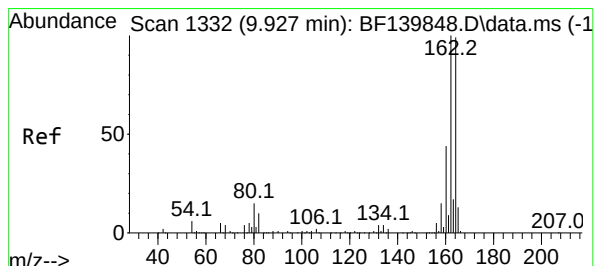
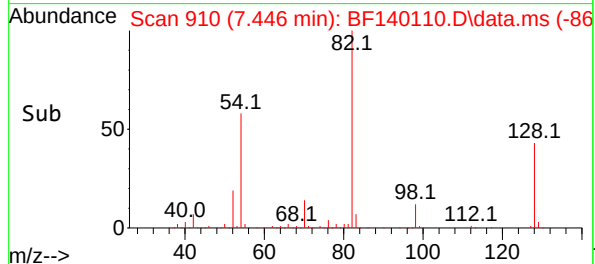
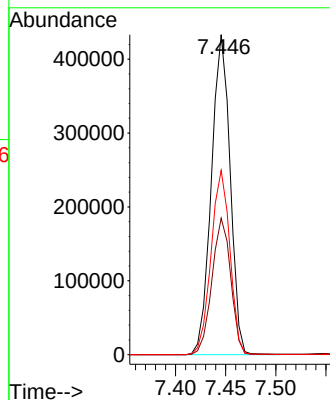
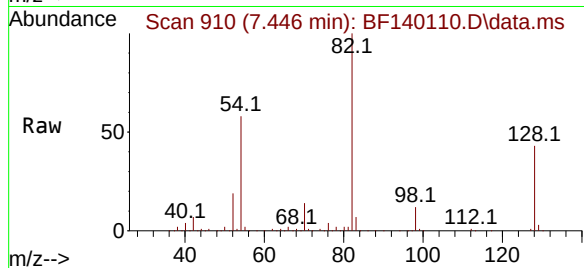
Tgt Ion: 82 Resp: 564898

Ion Ratio Lower Upper

82 100

128 42.7 33.4 50.0

54 57.6 47.8 71.8



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 1331

Delta R.T. -0.005 min

Lab File: BF140110.D

Acq: 29 Oct 2024 14:16

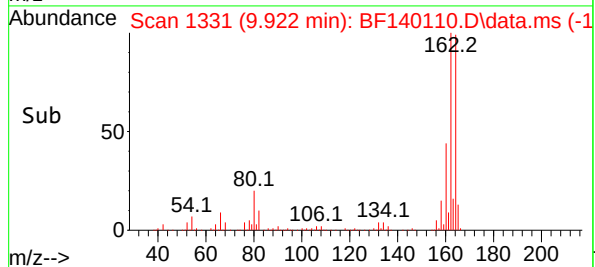
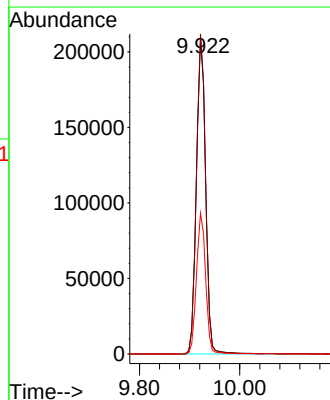
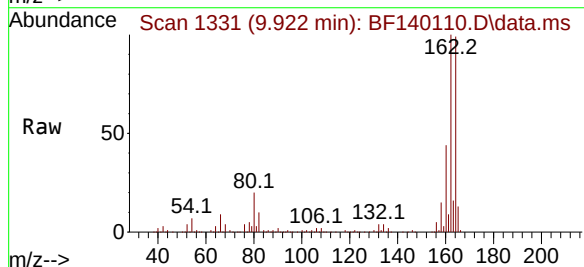
Tgt Ion: 164 Resp: 267166

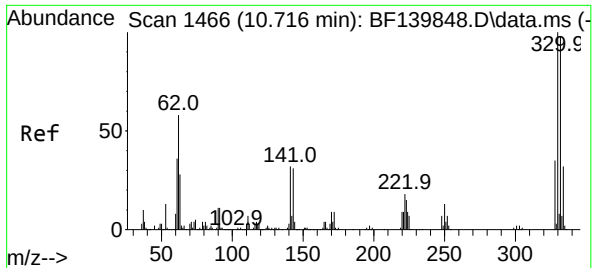
Ion Ratio Lower Upper

164 100

162 101.2 81.0 121.4

160 44.5 35.4 53.0

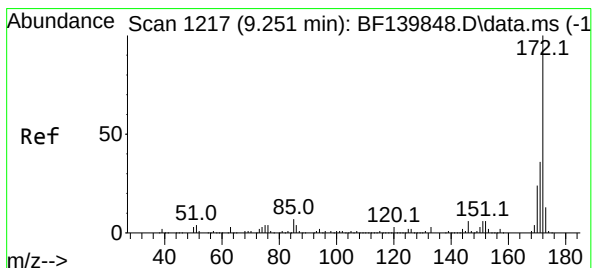
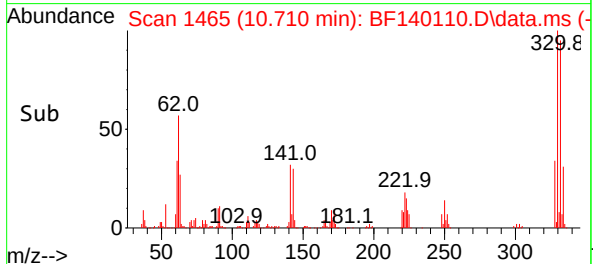
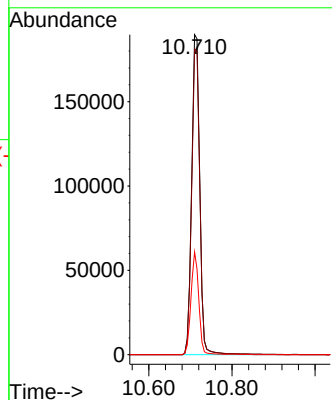
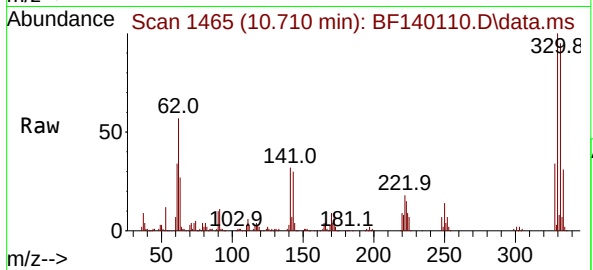




#42
2,4,6-Tribromophenol
Concen: 102.352 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

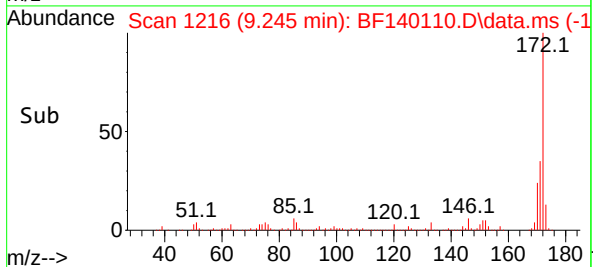
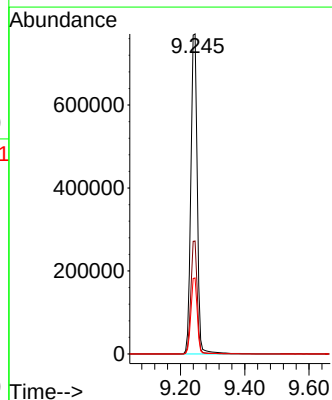
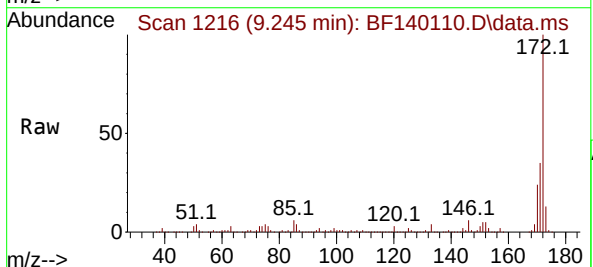
Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

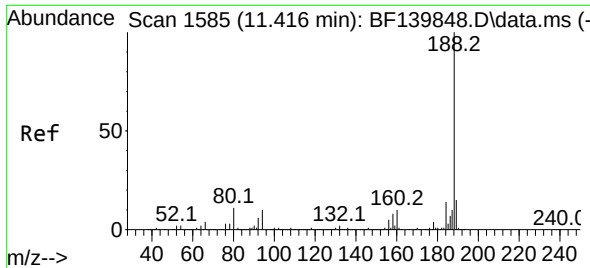
Tgt Ion:330 Resp: 255776
Ion Ratio Lower Upper
330 100
332 96.3 78.1 117.1
141 30.8 26.6 39.8



#45
2-Fluorobiphenyl
Concen: 66.103 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Tgt Ion:172 Resp: 1068584
Ion Ratio Lower Upper
172 100
171 35.3 28.6 43.0
170 23.7 19.1 28.7

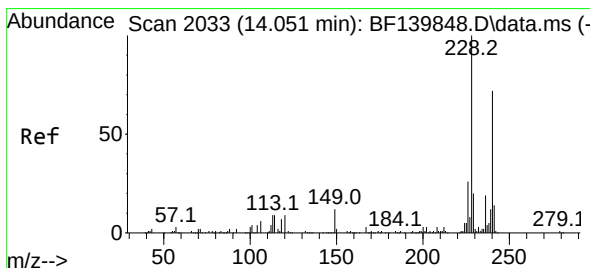
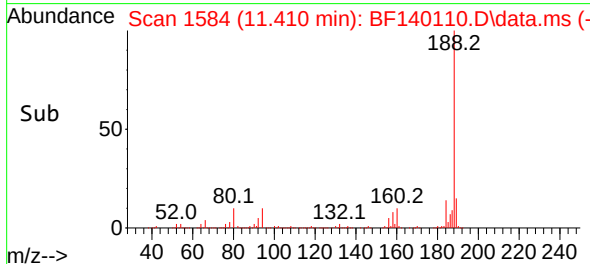
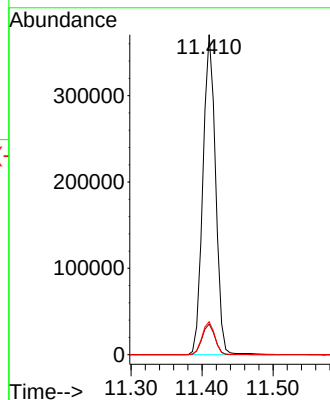
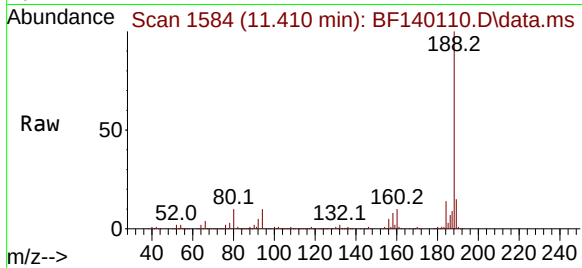




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

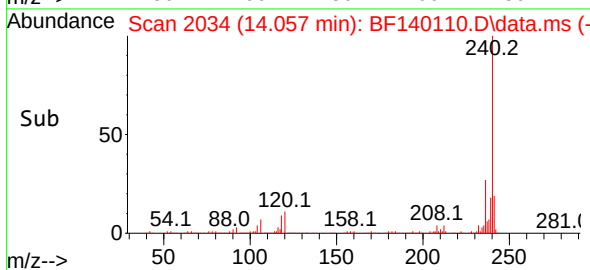
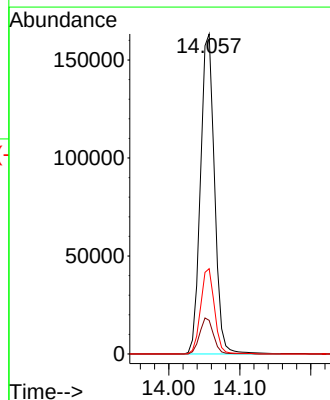
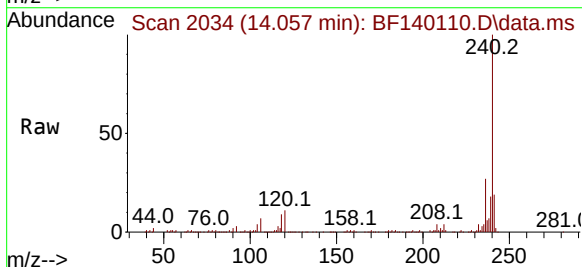
Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

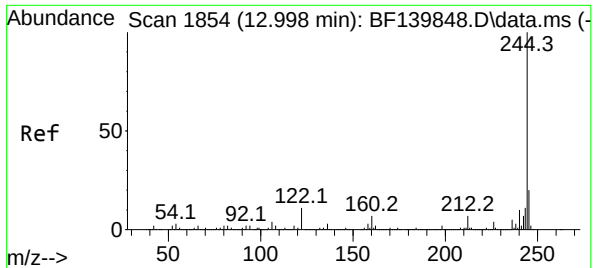
Tgt Ion:188 Resp: 461039
Ion Ratio Lower Upper
188 100
94 9.6 7.9 11.9
80 10.3 9.0 13.4



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2034
Delta R.T. 0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Tgt Ion:240 Resp: 224689
Ion Ratio Lower Upper
240 100
120 10.5 9.4 14.2
236 26.7 20.9 31.3





#79

Terphenyl-d14

Concen: 70.904 ng

RT: 12.998 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF140110.D

Acq: 29 Oct 2024 14:16

Instrument :

BNA_F

ClientSampleId :

WB-305-BOT

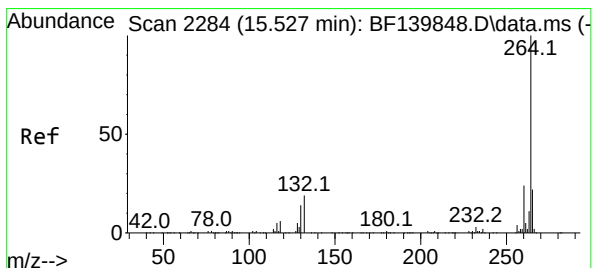
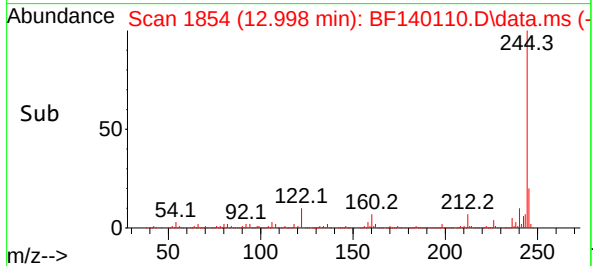
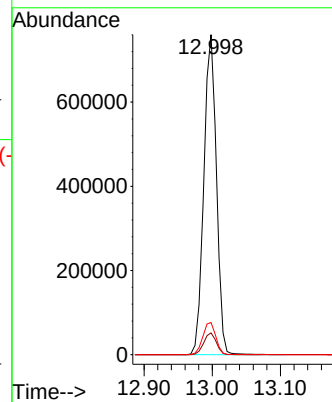
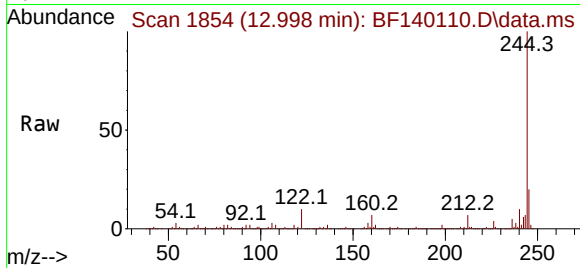
Tgt Ion:244 Resp: 977691

Ion Ratio Lower Upper

244 100

212 6.8 5.7 8.5

122 10.1 8.6 13.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 2288

Delta R.T. 0.024 min

Lab File: BF140110.D

Acq: 29 Oct 2024 14:16

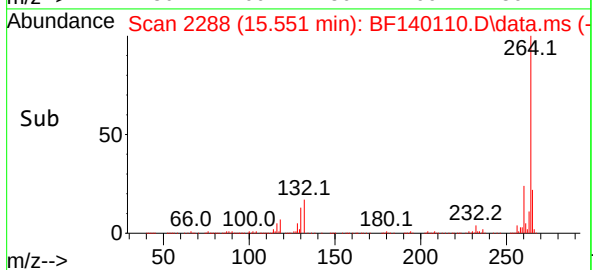
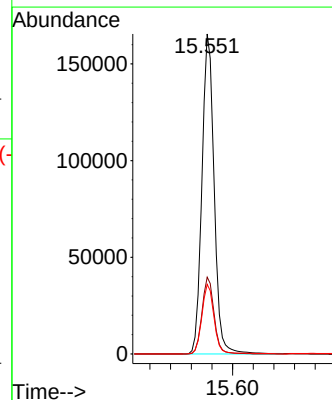
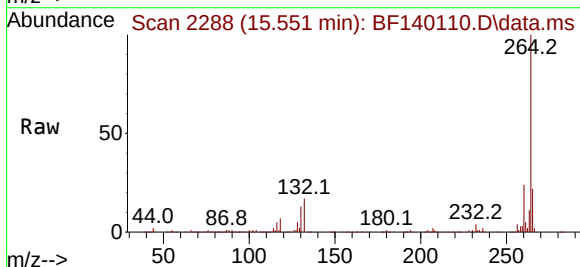
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Ion Ratio Lower Upper

264 100

260 24.0 19.4 29.2

265 21.8 17.4 26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

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-BF101824.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140110.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.199	10	18	26	rVB	1269523	2020418	65.93%	8.537%
2	5.504	574	580	586	rBV	1833415	2533761	82.68%	10.706%
3	6.510	744	751	774	rVB	1793140	2685380	87.63%	11.346%
4	6.887	810	815	820	rBV	610280	741977	24.21%	3.135%
5	7.446	902	910	915	rBV	1292894	1691908	55.21%	7.149%
6	7.698	947	953	960	rVB2	79814	104509	3.41%	0.442%
7	8.169	1024	1033	1041	rBV	778342	1017598	33.21%	4.300%
8	8.381	1065	1069	1077	rBV	29395	39402	1.29%	0.166%
9	9.239	1209	1215	1225	rBV	2267904	3064468	100.00%	12.948%
10	9.322	1225	1229	1238	rVB	27662	46175	1.51%	0.195%
11	9.922	1326	1331	1336	rBV	893536	1120838	36.58%	4.736%
12	10.634	1447	1452	1459	rBV	571886	749452	24.46%	3.167%
13	10.710	1459	1465	1480	rVV	1474510	1933513	63.09%	8.170%
14	10.945	1501	1505	1510	rVB	37265	46017	1.50%	0.194%
15	11.410	1579	1584	1592	rBV	897493	1143972	37.33%	4.834%
16	11.481	1592	1596	1600	rVB3	37179	50038	1.63%	0.211%
17	11.933	1665	1673	1685	rBV	292080	472834	15.43%	1.998%
18	12.022	1685	1688	1698	rVB2	15010	37249	1.22%	0.157%
19	12.716	1802	1806	1820	rBV	32920	63656	2.08%	0.269%
20	12.998	1848	1854	1859	rBV	1974499	2551951	83.28%	10.783%
21	13.898	2001	2007	2027	rBV	63097	189551	6.19%	0.801%
22	14.057	2028	2034	2043	rVB	454752	638333	20.83%	2.697%
23	15.551	2282	2288	2301	rBV	444863	724454	23.64%	3.061%

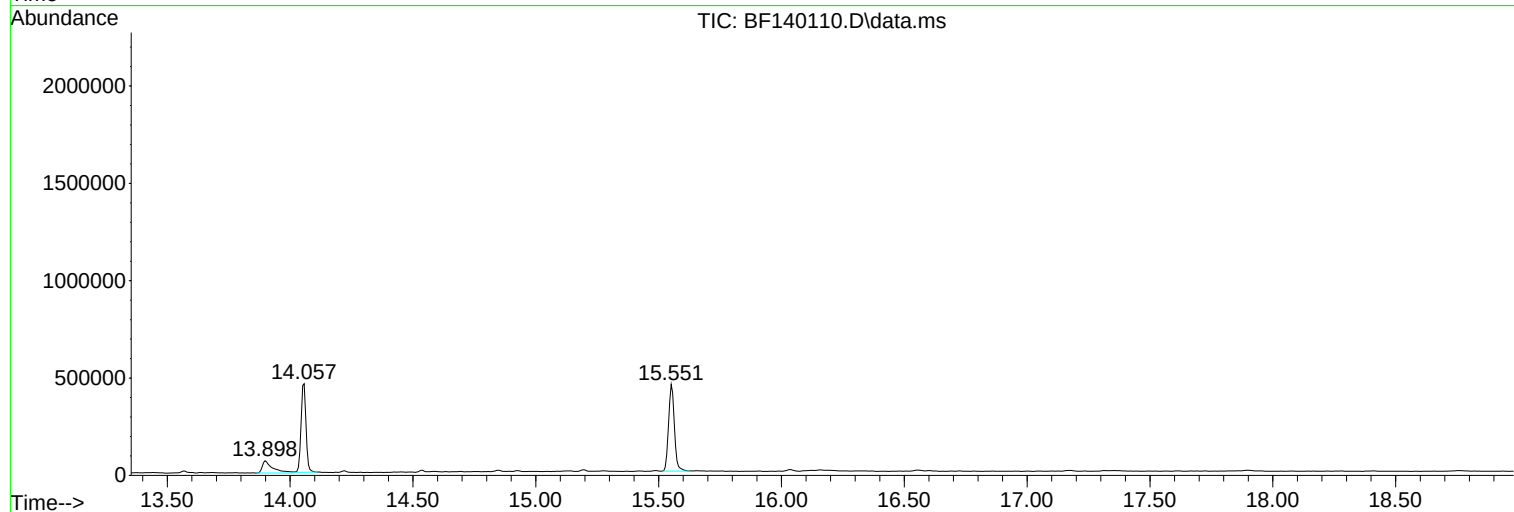
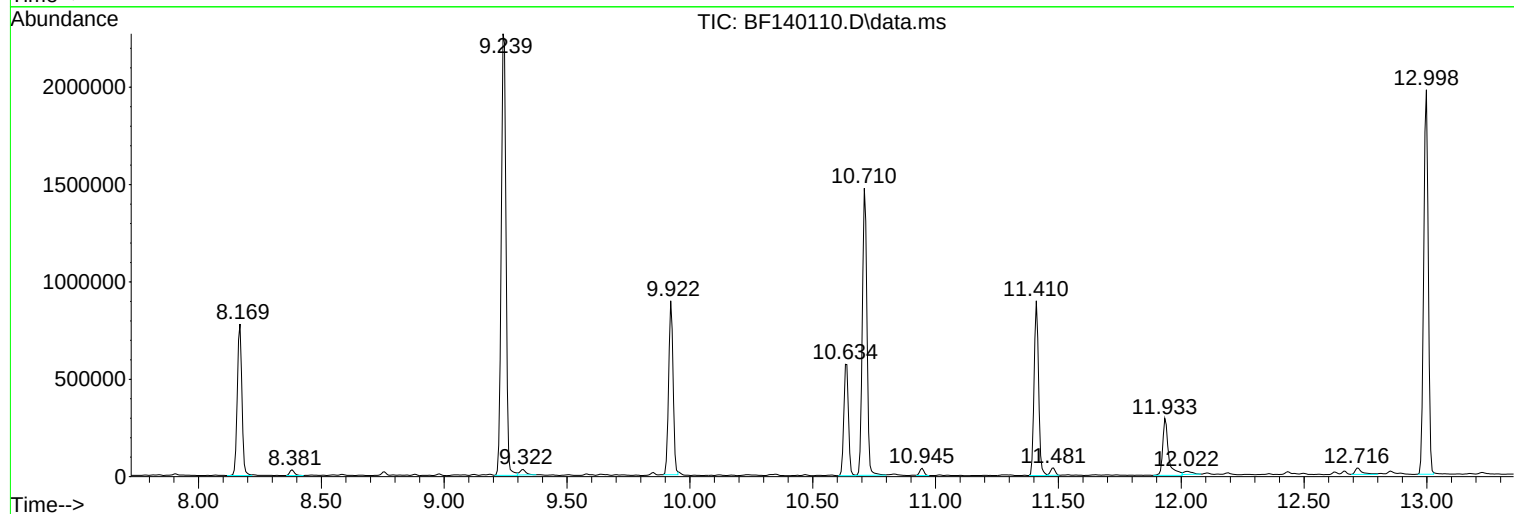
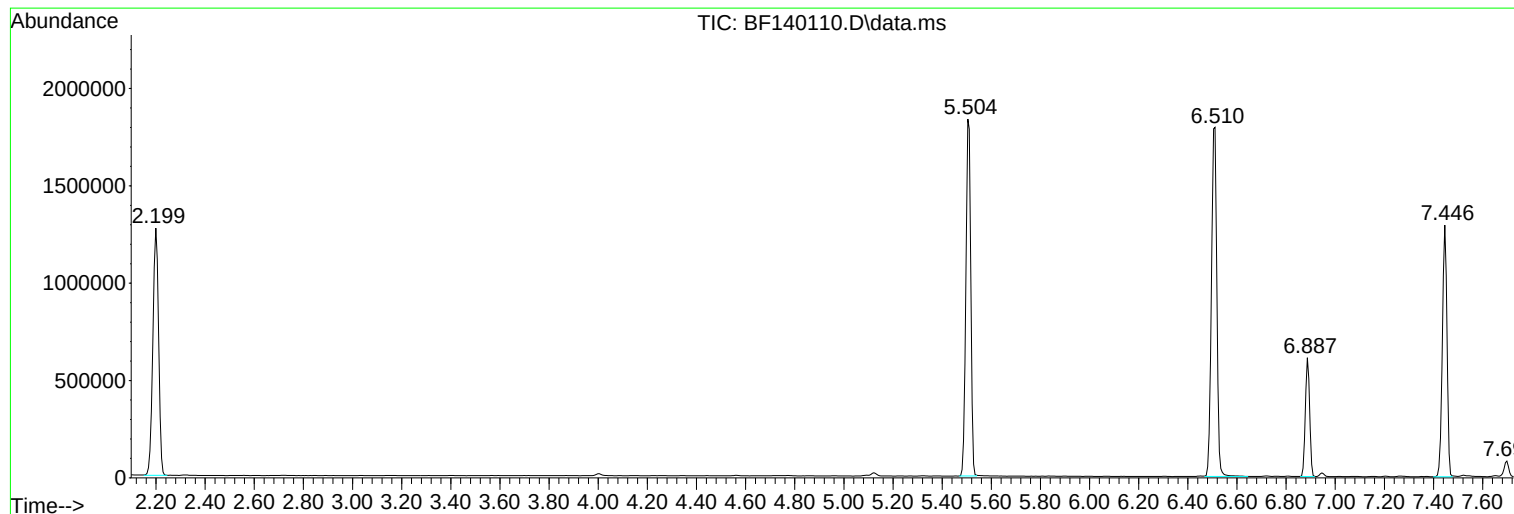
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

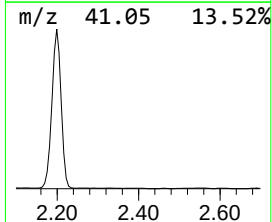
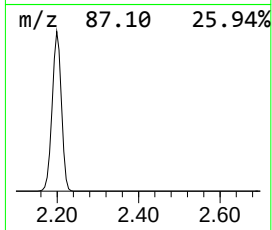
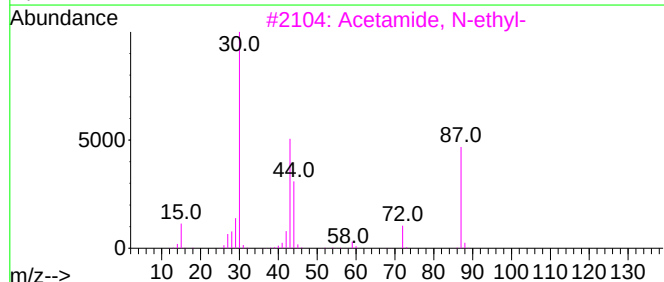
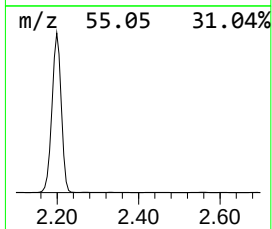
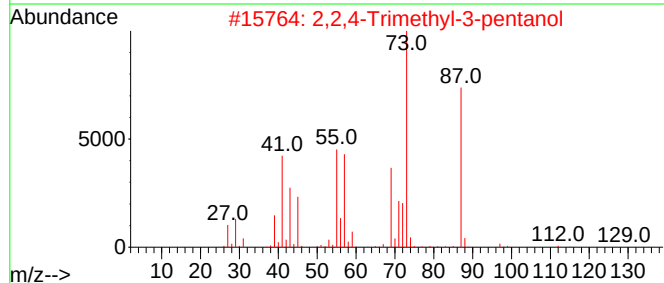
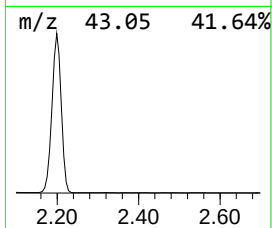
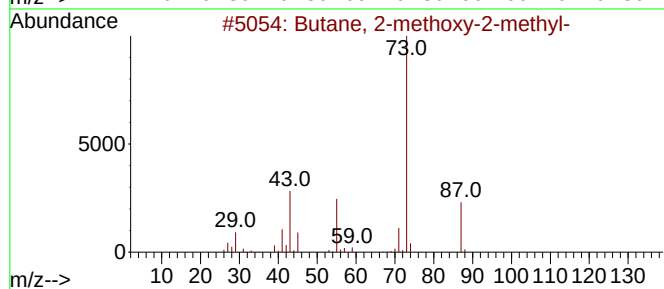
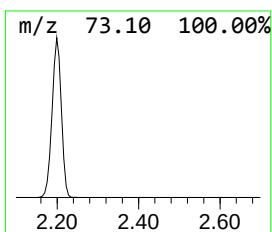
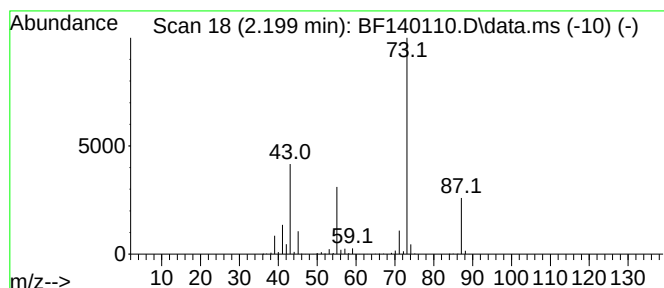
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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.
2.199	54.46 ng	2020420	1,4-Dichlorobenzene-d4	6.887

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\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

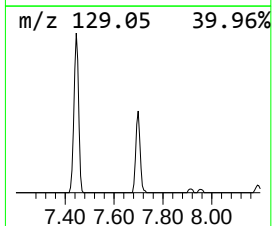
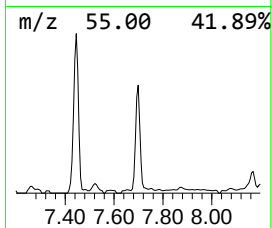
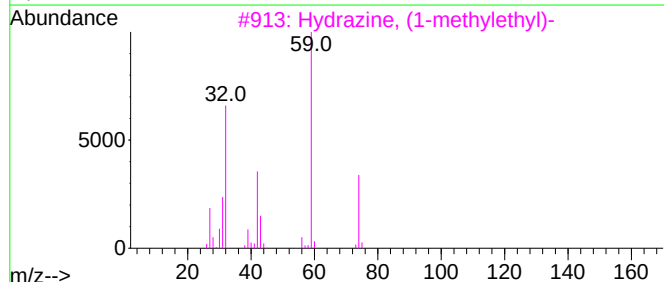
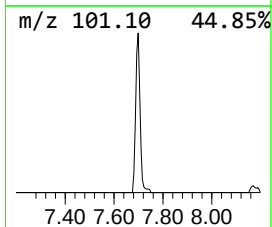
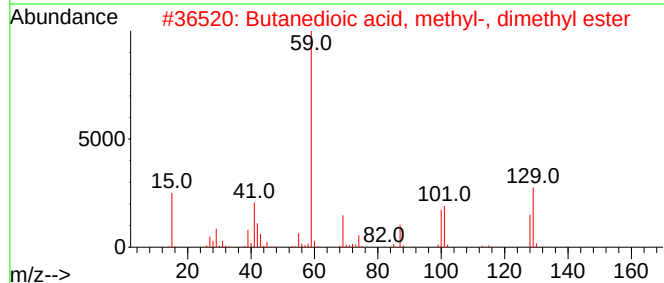
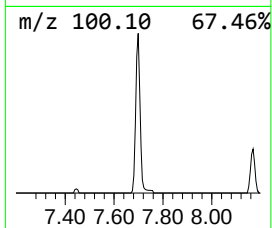
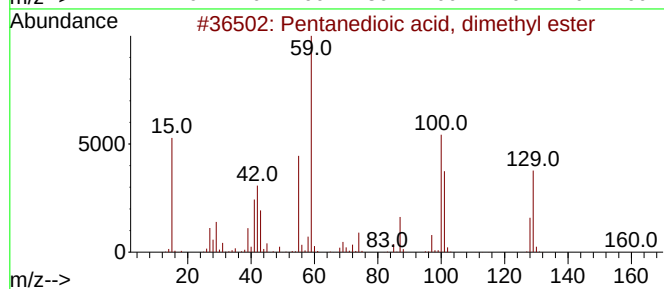
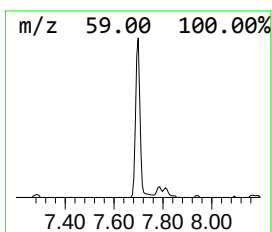
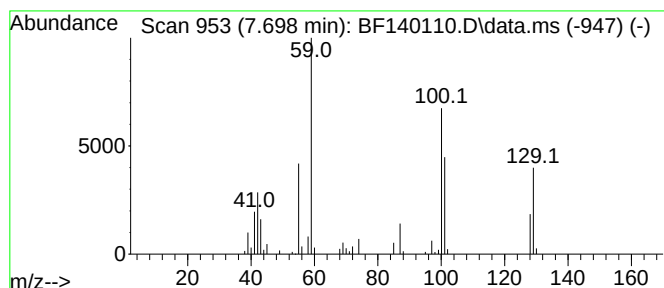
TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 2 Pentanedioic acid, dimethyl... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.698	2.05 ng	104509	Naphthalene-d8	8.169

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentanedioic acid, dimethyl ester	160	C7H12O4	001119-40-0	83
2			Butanedioic acid, methyl-, dimet...	160	C7H12O4	001604-11-1	53
3			Hydrazine, (1-methylethyl)-	74	C3H10N2	002257-52-5	30
4			Hydrazine, trimethyl-	74	C3H10N2	001741-01-1	27
5			Hydrazine, 1,1-bis(1-methylethyl)-	116	C6H16N2	000921-14-2	25



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

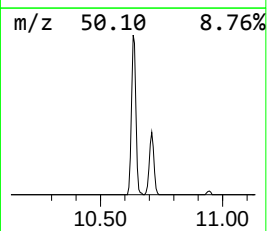
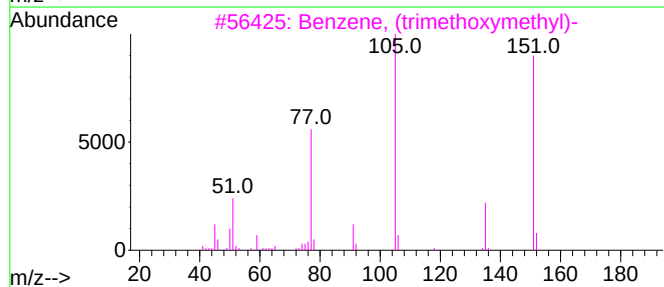
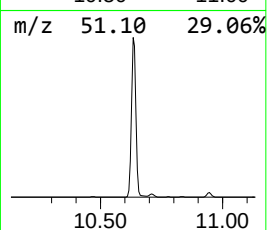
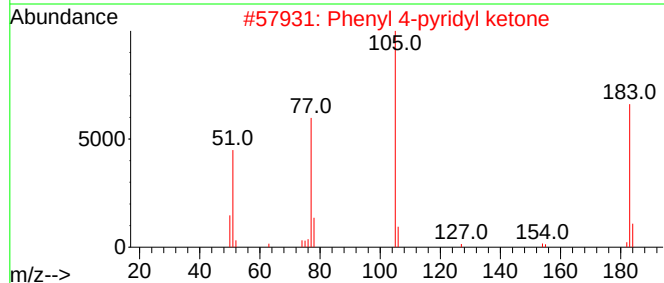
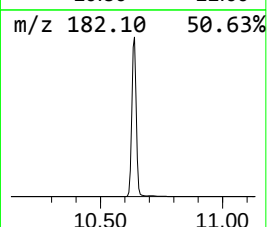
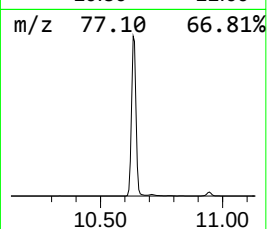
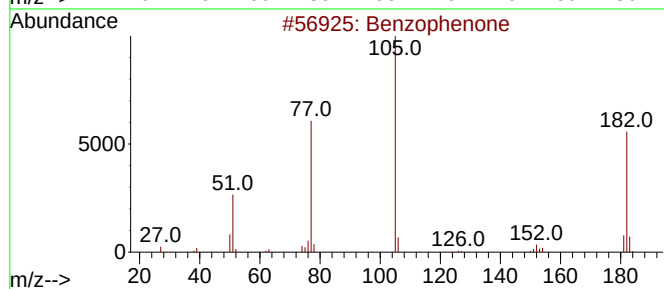
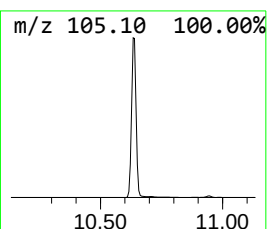
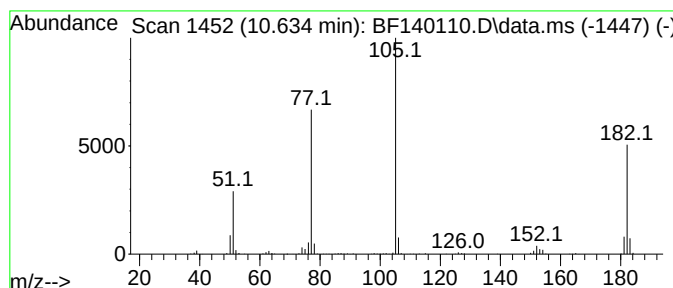
Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
10.634	13.37 ng	749452	Acenaphthene-d10	9.922	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	50
3	Benzene, (trimethoxymethyl)-	182	C10H14O3	000707-07-3	47
4	N-Methylbenzamide, N-trifluoroac...	231	C10H8F3NO2	1000446-91-5	47
5	Benzoic acid, pentafluorophenyl ...	288	C13H5F5O2	1000360-67-9	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

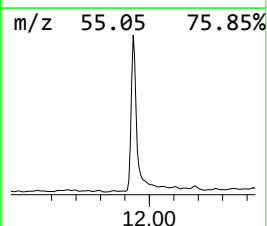
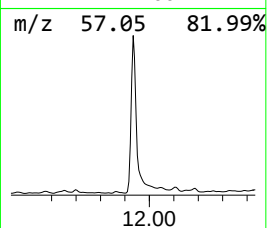
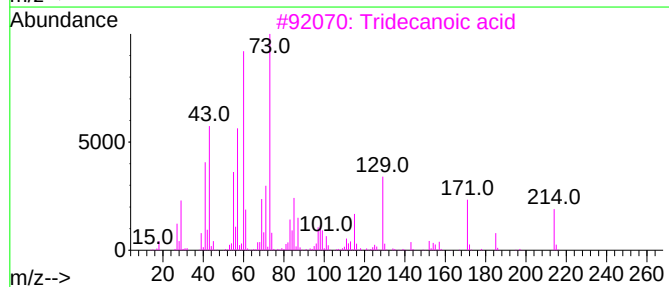
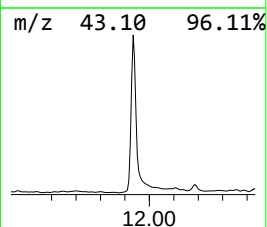
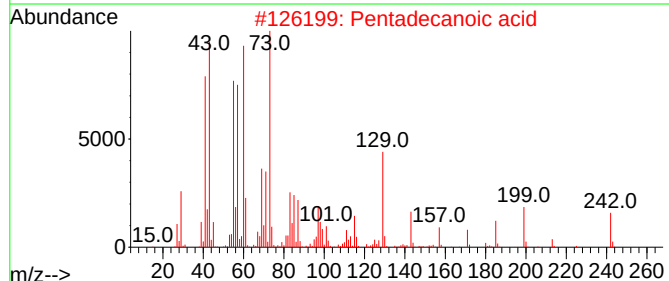
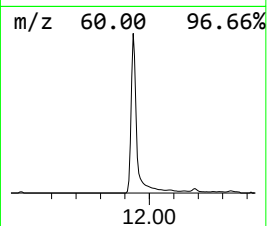
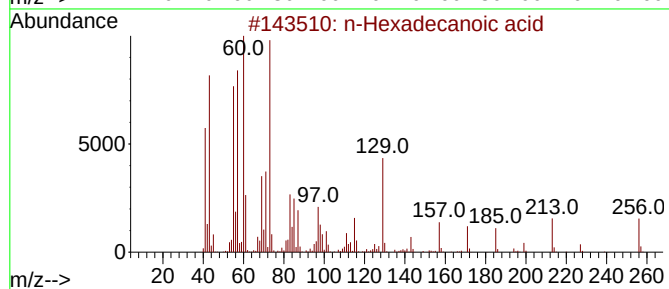
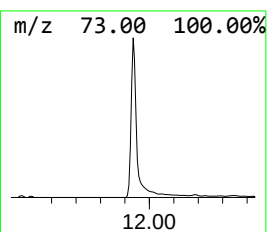
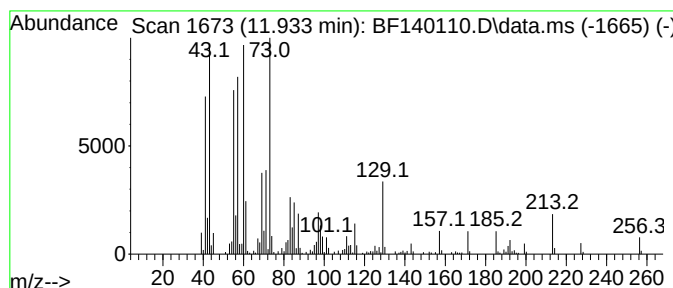
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.934	8.27 ng	472834	Phenanthrene-d10	11.410

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	90
3		Tridecanoic acid	214	C13H26O2	000638-53-9	87
4		Tetradecanoic acid	228	C14H28O2	000544-63-8	80
5		8-Methylnonanoic acid	172	C10H20O2	005963-14-4	58



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

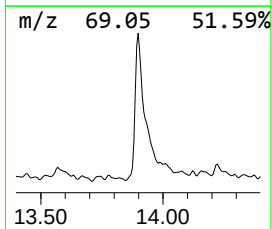
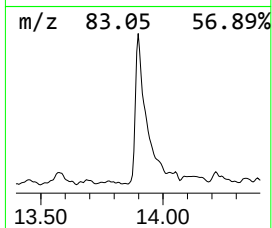
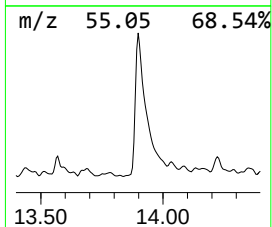
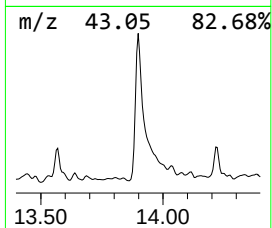
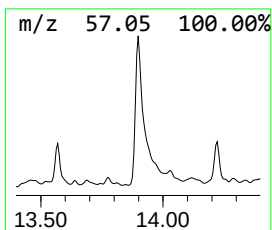
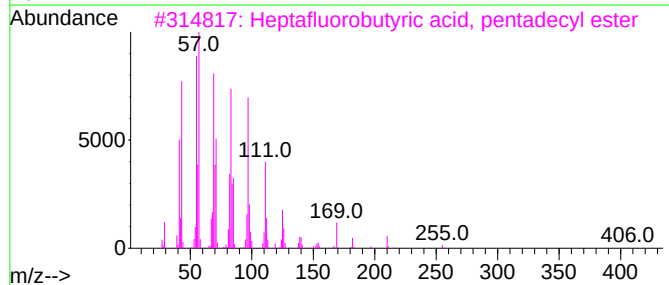
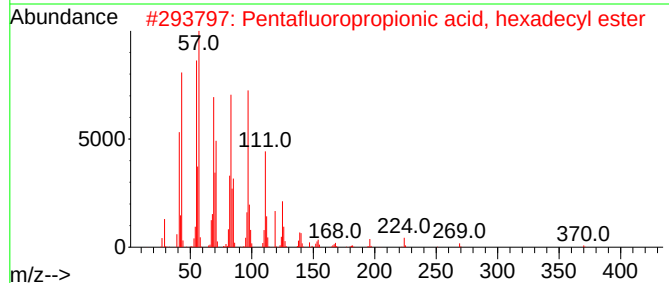
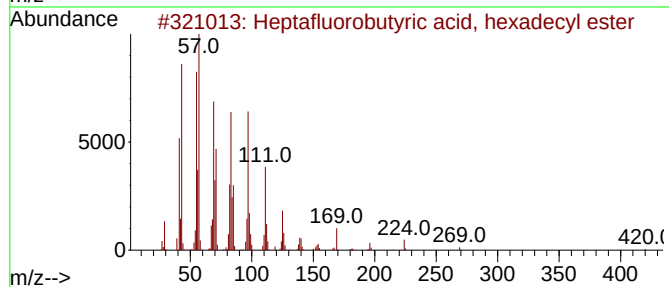
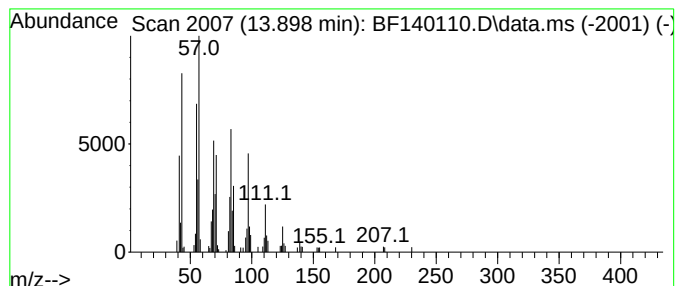
Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Heptafluorobutyric acid, he... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.898	5.94 ng	189551	Chrysene-d12	14.057	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptafluorobutyric acid, hexadec...	438	C20H33F7O2	006385-15-5	91
2	Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	91
3	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	91
4	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	91
5	Heneicosyl heptafluorobutyrate	508	C25H43F7O2	1000351-83-8	91



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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...	2.199	54.5	ng	2020420	1	6.887	741977	20.0
Pentanedioic ac...	7.698	2.0	ng	104509	2	8.169	1017600	20.0
Benzophenone	10.634	13.4	ng	749452	3	9.922	1120840	20.0
n-Hexadecanoic ...	11.934	8.3	ng	472834	4	11.410	1143970	20.0
Heptafluorobuty...	13.898	5.9	ng	189551	5	14.057	638333	20.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	94.4
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
BF140111.D	1	10/28/24 09:00	10/29/24 14:42	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	350	ug/Kg
108-95-2	Phenol	87.6	U	87.6	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	88.4	U	88.4	180	ug/Kg
95-57-8	2-Chlorophenol	88.2	U	88.2	180	ug/Kg
95-48-7	2-Methylphenol	85.2	U	85.2	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	96.0	U	96.0	180	ug/Kg
98-86-2	Acetophenone	91.8	U	91.8	180	ug/Kg
65794-96-9	3+4-Methylphenols	84.3	U	84.3	350	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	42.6	U	42.6	84.5	ug/Kg
67-72-1	Hexachloroethane	87.7	U	87.7	180	ug/Kg
98-95-3	Nitrobenzene	95.9	U	95.9	180	ug/Kg
78-59-1	Isophorone	89.4	U	89.4	180	ug/Kg
88-75-5	2-Nitrophenol	99.8	U	99.8	180	ug/Kg
105-67-9	2,4-Dimethylphenol	98.5	U	98.5	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	90.6	U	90.6	180	ug/Kg
120-83-2	2,4-Dichlorophenol	79.8	U	79.8	180	ug/Kg
91-20-3	Naphthalene	87.3	U	87.3	180	ug/Kg
106-47-8	4-Chloroaniline	87.3	UQ	87.3	180	ug/Kg
87-68-3	Hexachlorobutadiene	88.0	U	88.0	180	ug/Kg
105-60-2	Caprolactam	91.7	U	91.7	350	ug/Kg
59-50-7	4-Chloro-3-methylphenol	81.9	U	81.9	180	ug/Kg
91-57-6	2-Methylnaphthalene	87.2	U	87.2	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	UQ	160	350	ug/Kg
88-06-2	2,4,6-Trichlorophenol	75.4	U	75.4	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	78.2	U	78.2	180	ug/Kg
92-52-4	1,1-Biphenyl	92.3	U	92.3	180	ug/Kg
91-58-7	2-Chloronaphthalene	88.0	U	88.0	180	ug/Kg
88-74-4	2-Nitroaniline	100	U	100	180	ug/Kg
131-11-3	Dimethylphthalate	86.3	U	86.3	180	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	94.4
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
BF140111.D	1	10/28/24 09:00	10/29/24 14:42	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	91.4	U	91.4	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	87.9	U	87.9	180	ug/Kg
99-09-2	3-Nitroaniline	94.2	UQ	94.2	180	ug/Kg
83-32-9	Acenaphthene	85.7	U	85.7	180	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	350	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	350	ug/Kg
132-64-9	Dibenzofuran	89.2	U	89.2	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	91.1	U	91.1	180	ug/Kg
84-66-2	Diethylphthalate	84.6	U	84.6	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	90.4	U	90.4	180	ug/Kg
86-73-7	Fluorene	90.3	U	90.3	180	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	350	ug/Kg
86-30-6	n-Nitrosodiphenylamine	86.2	U	86.2	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	83.4	U	83.4	180	ug/Kg
118-74-1	Hexachlorobenzene	89.8	U	89.8	180	ug/Kg
1912-24-9	Atrazine	96.6	U	96.6	180	ug/Kg
87-86-5	Pentachlorophenol	81.7	U	81.7	350	ug/Kg
85-01-8	Phenanthrene	88.7	U	88.7	180	ug/Kg
120-12-7	Anthracene	89.2	U	89.2	180	ug/Kg
86-74-8	Carbazole	84.8	U	84.8	180	ug/Kg
84-74-2	Di-n-butylphthalate	89.1	U	89.1	180	ug/Kg
206-44-0	Fluoranthene	86.3	U	86.3	180	ug/Kg
129-00-0	Pyrene	87.7	U	87.7	180	ug/Kg
85-68-7	Butylbenzylphthalate	100	U	100	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	100	UQ	100	350	ug/Kg
56-55-3	Benzo(a)anthracene	85.3	U	85.3	180	ug/Kg
218-01-9	Chrysene	84.0	U	84.0	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	96.1	U	96.1	180	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	350	ug/Kg
205-99-2	Benzo(b)fluoranthene	85.7	U	85.7	180	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	94.4
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
BF140111.D	1	10/28/24 09:00	10/29/24 14:42	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	87.3	U	87.3	180	ug/Kg
50-32-8	Benzo(a)pyrene	98.3	U	98.3	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	82.5	U	82.5	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	85.8	U	85.8	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	84.6	U	84.6	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	91.7	U	91.7	180	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	78.9	U	78.9	180	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	82.9		30 (18) - 130 (112)	55%	SPK: 150
13127-88-3	Phenol-d6	82.6		30 (15) - 130 (107)	55%	SPK: 150
4165-60-0	Nitrobenzene-d5	60.0		30 (18) - 130 (107)	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	58.1		30 (20) - 130 (109)	58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	93.8		30 (10) - 130 (116)	63%	SPK: 150
1718-51-0	Terphenyl-d14	67.9		30 (10) - 130 (105)	68%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	122000	6.887
1146-65-2	Naphthalene-d8	478000	8.169
15067-26-2	Acenaphthene-d10	267000	9.922
1517-22-2	Phenanthrene-d10	462000	11.41
1719-03-5	Chrysene-d12	225000	14.057
1520-96-3	Perylene-d12	269000	15.557

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	1900	JB	2.19	ug/Kg
001119-40-0	Pentanedioic acid, dimethyl ester	78.2	J	7.70	ug/Kg
000119-61-9	Benzophenone	390	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	280	J	11.9	ug/Kg
1000351-74-9	Octacosyl trifluoroacetate	220	J	13.9	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	94.4
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
BF140111.D	1	10/28/24 09:00	10/29/24 14:42	PB164461

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\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Quant Time: Oct 29 15:12:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	122139	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	478188	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	267029	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	461723	20.000	ng	0.00
76) Chrysene-d12	14.057	240	225154	20.000	ng	0.00
86) Perylene-d12	15.557	264	268509	20.000	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	647003	82.928	ng	0.00
7) Phenol-d6	6.504	99	834485	82.583	ng	0.00
23) Nitrobenzene-d5	7.445	82	517971	60.035	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	234385	93.840	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	938225	58.069	ng	-0.01
79) Terphenyl-d14	12.998	244	938369	67.911	ng	0.00

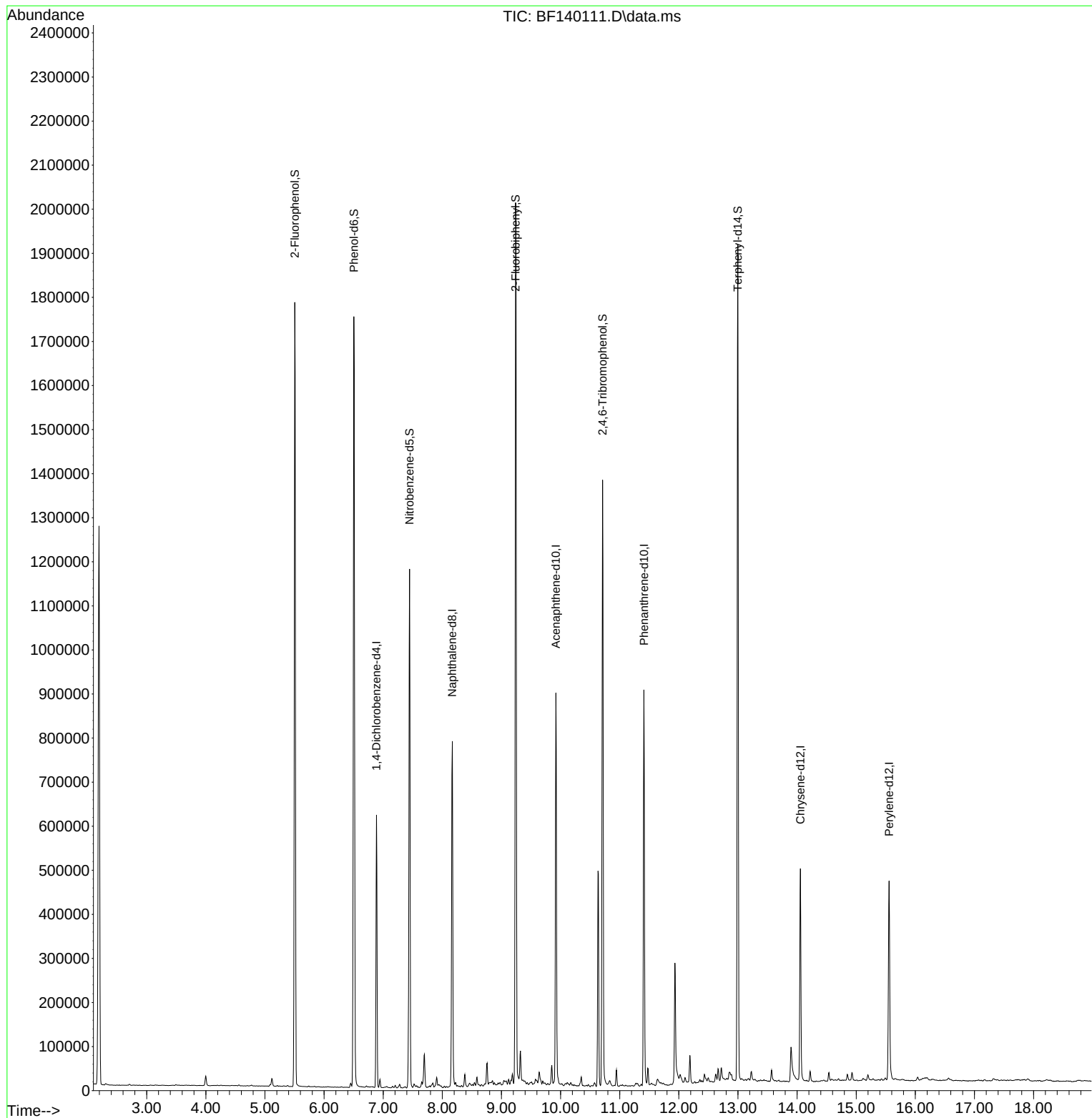
Target Compounds	Qvalue

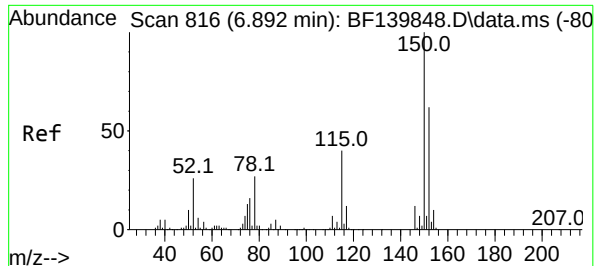
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Quant Time: Oct 29 15:12:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

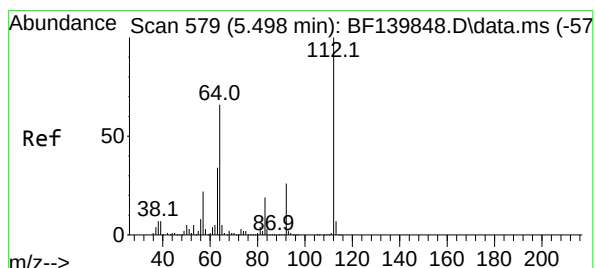
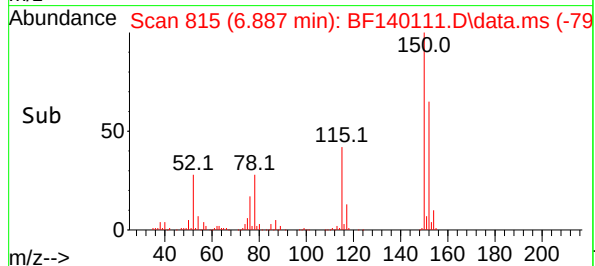
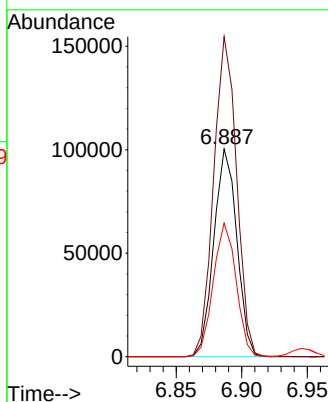
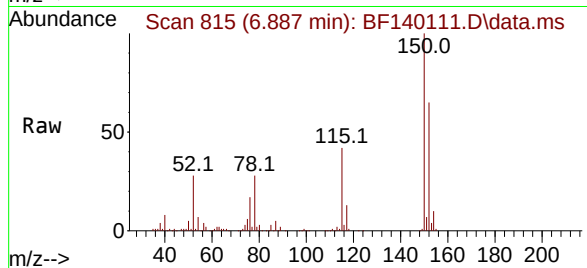




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 816
Delta R.T. -0.005 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

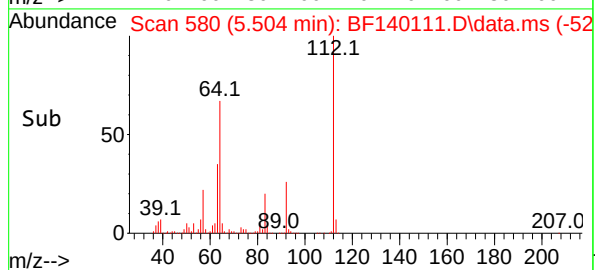
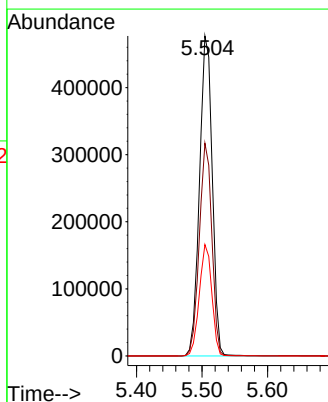
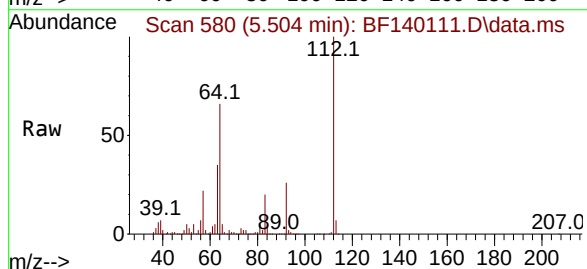
Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

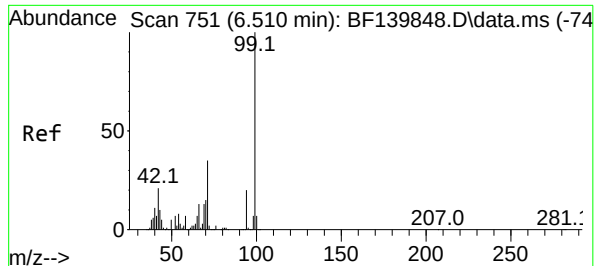
Tgt Ion:152 Resp: 122139
Ion Ratio Lower Upper
152 100
150 154.1 130.2 195.2
115 64.4 51.4 77.2



#5
2-Fluorophenol
Concen: 82.928 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Tgt Ion:112 Resp: 647003
Ion Ratio Lower Upper
112 100
64 66.5 53.0 79.6
63 34.8 27.0 40.4

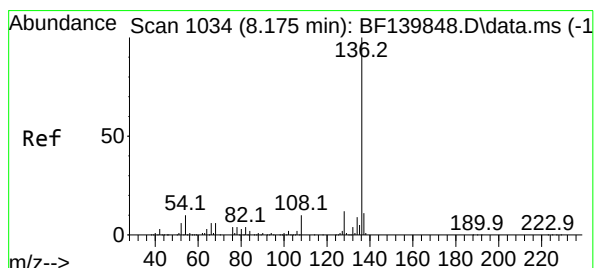
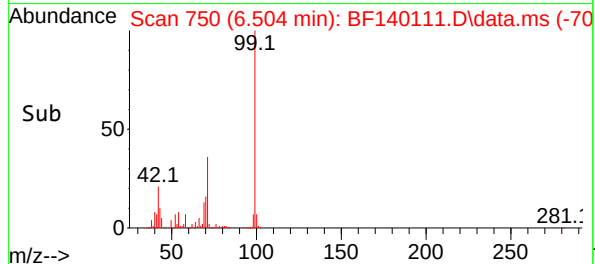
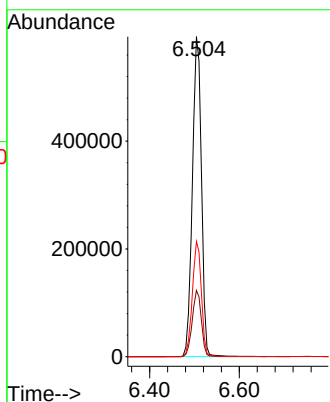
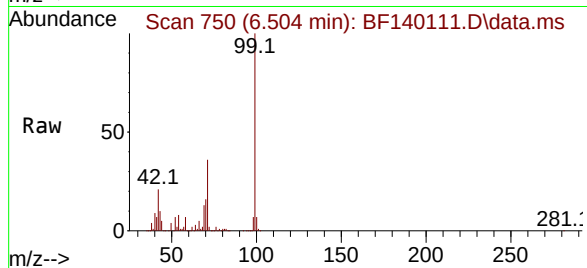




#7
Phenol-d6
Concen: 82.583 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

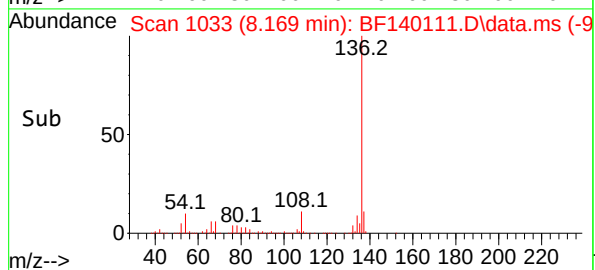
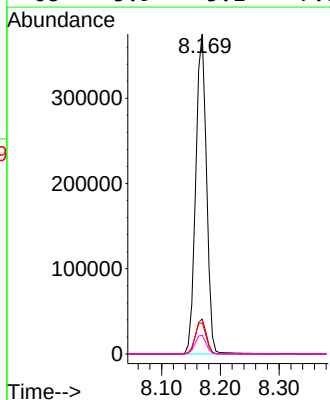
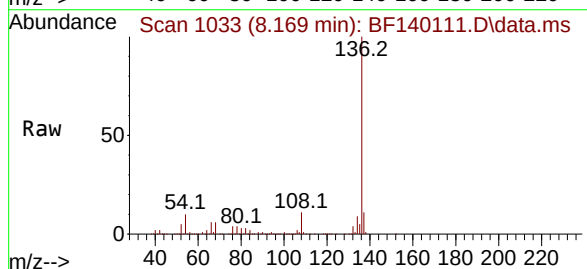
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ClientSampleId :
WB-305-BOT-1

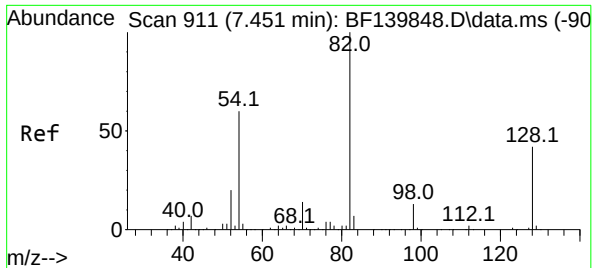
Tgt Ion: 99 Resp: 834485
Ion Ratio Lower Upper
99 100
42 20.7 16.7 25.1
71 36.0 27.7 41.5



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Tgt Ion: 136 Resp: 478188
Ion Ratio Lower Upper
136 100
137 10.9 8.6 12.8
54 9.8 8.4 12.6
68 5.9 5.1 7.7

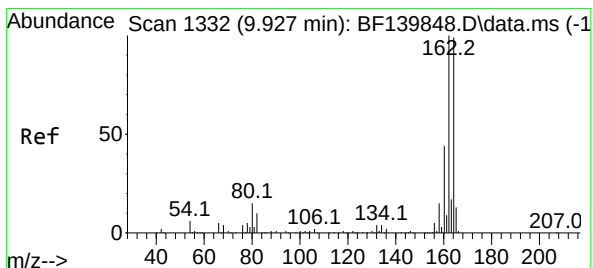
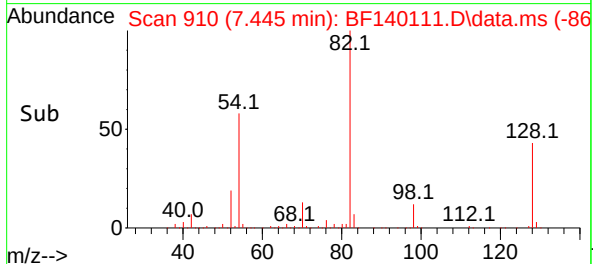
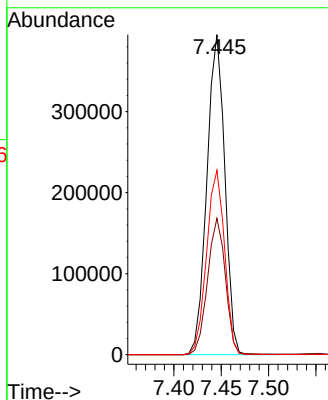
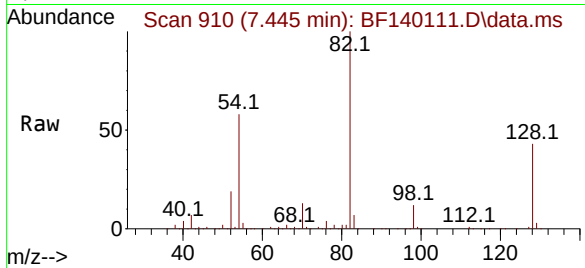




#23
Nitrobenzene-d5
Concen: 60.035 ng
RT: 7.445 min Scan# 911
Delta R.T. -0.006 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

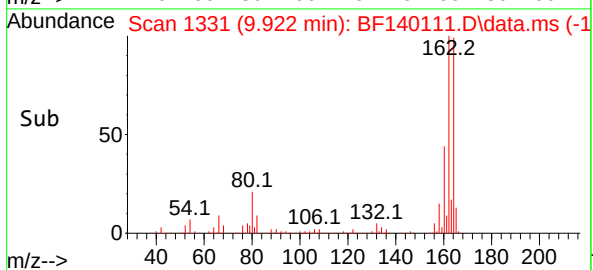
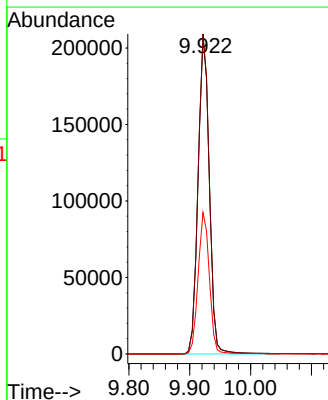
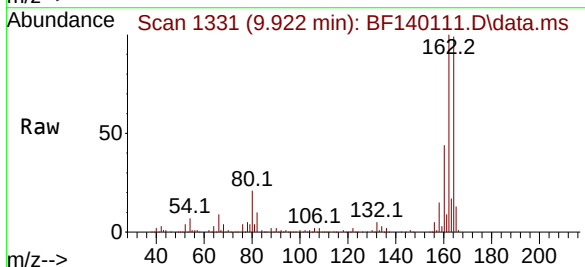
Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

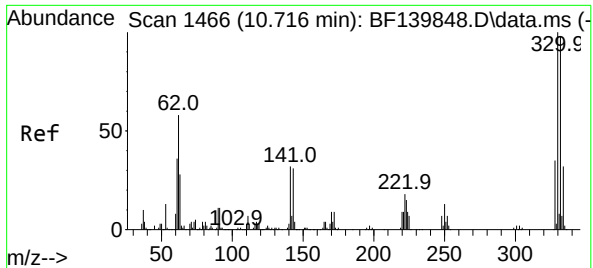
Tgt Ion: 82 Resp: 517971
Ion Ratio Lower Upper
82 100
128 42.6 33.4 50.0
54 57.6 47.8 71.8



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Tgt Ion: 164 Resp: 267029
Ion Ratio Lower Upper
164 100
162 100.8 81.0 121.4
160 44.6 35.4 53.0

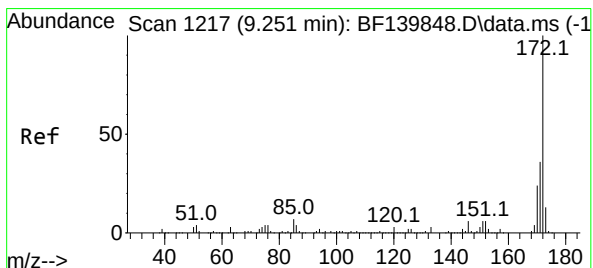
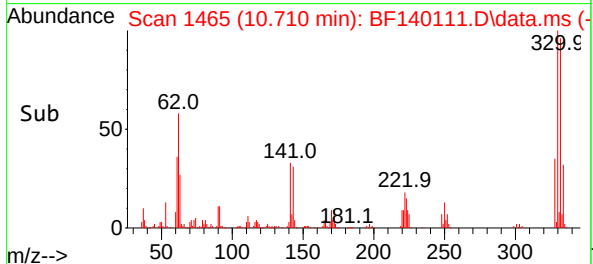
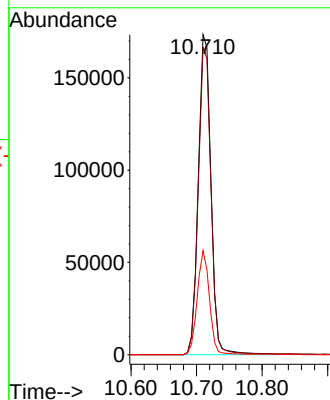
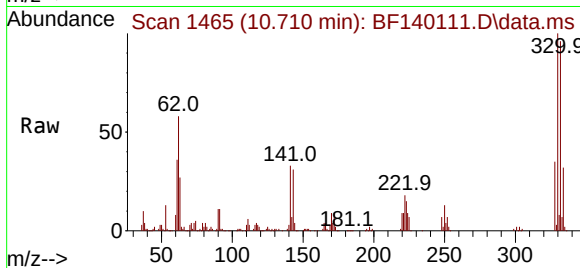




#42
2,4,6-Tribromophenol
Concen: 93.840 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

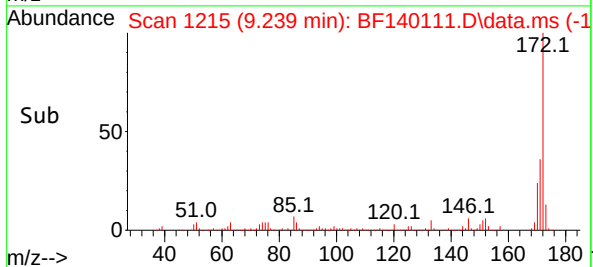
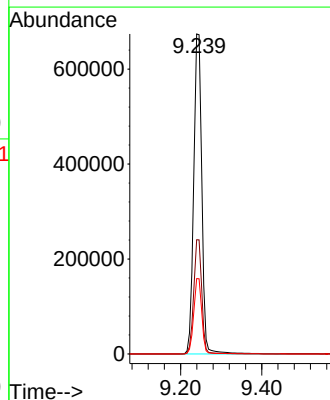
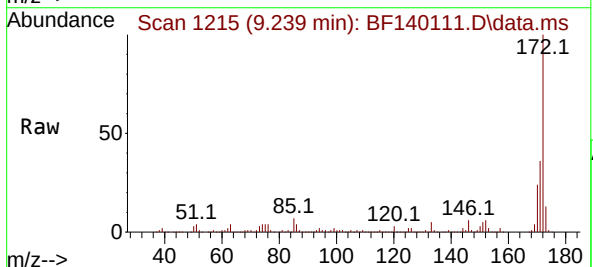
Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

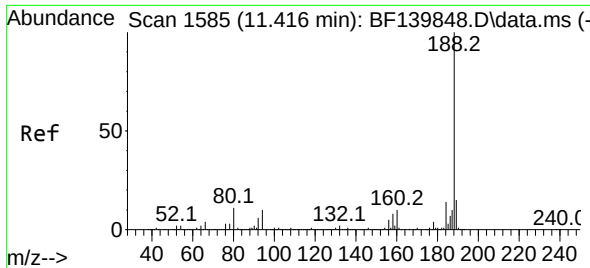
Tgt Ion:330 Resp: 234385
Ion Ratio Lower Upper
330 100
332 96.2 78.1 117.1
141 31.5 26.6 39.8



#45
2-Fluorobiphenyl
Concen: 58.069 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.012 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Tgt Ion:172 Resp: 938225
Ion Ratio Lower Upper
172 100
171 35.7 28.6 43.0
170 23.6 19.1 28.7

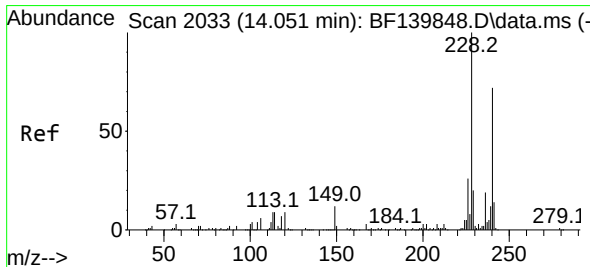
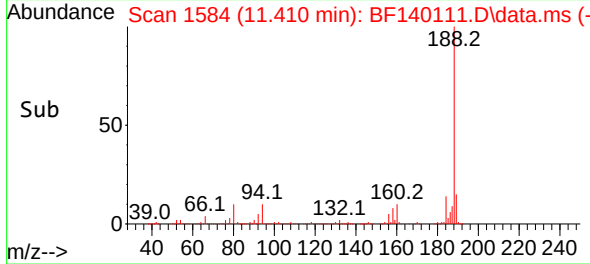
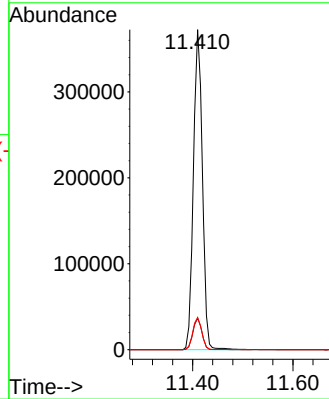
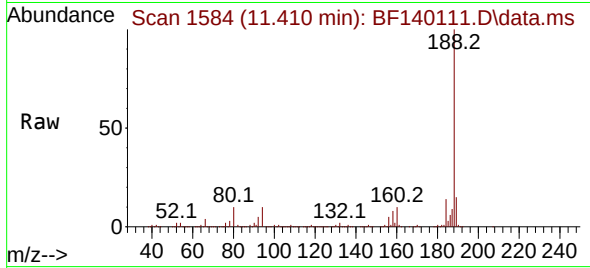




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

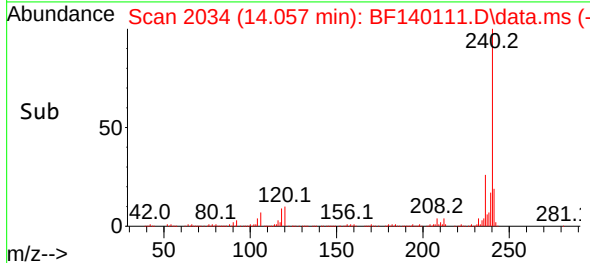
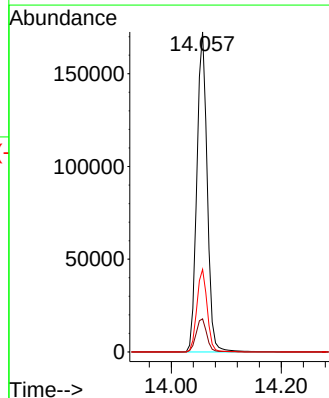
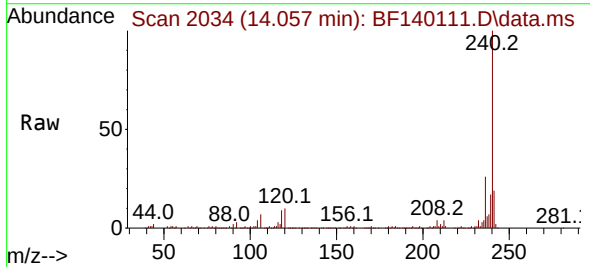
Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

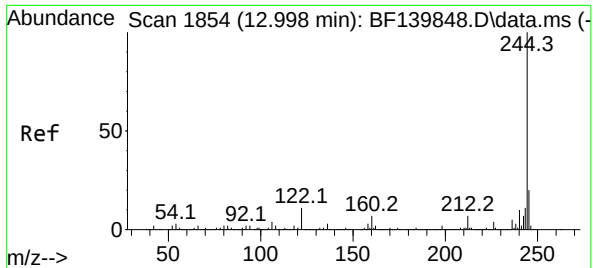
Tgt Ion:188 Resp: 461723
Ion Ratio Lower Upper
188 100
94 9.8 7.9 11.9
80 10.1 9.0 13.4



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2034
Delta R.T. 0.006 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Tgt Ion:240 Resp: 225154
Ion Ratio Lower Upper
240 100
120 10.4 9.4 14.2
236 25.8 20.9 31.3

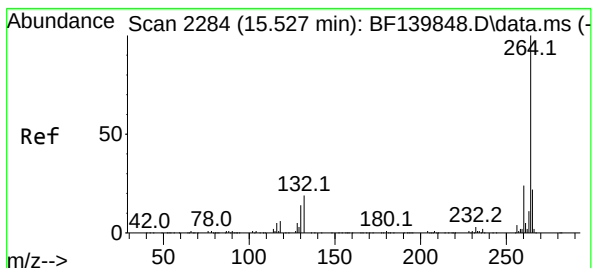
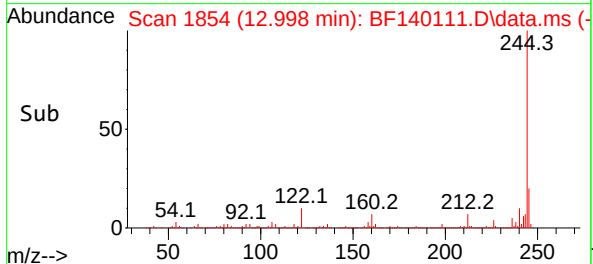
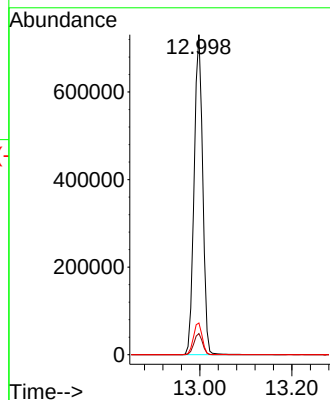
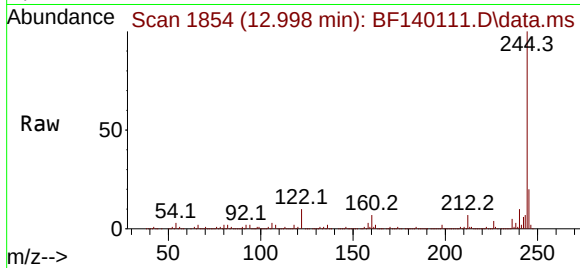




#79
Terphenyl-d14
Concen: 67.911 ng
RT: 12.998 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

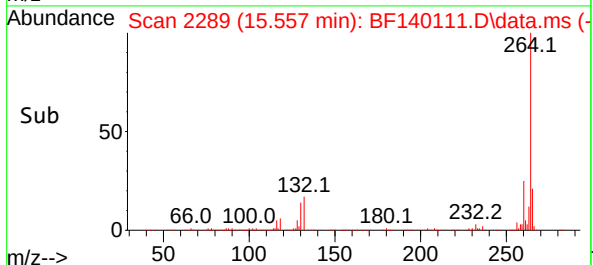
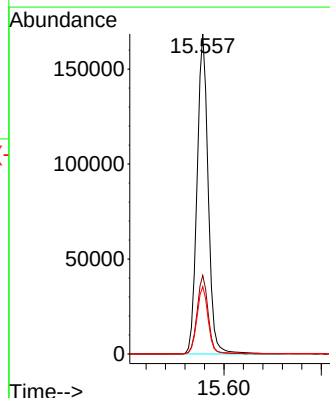
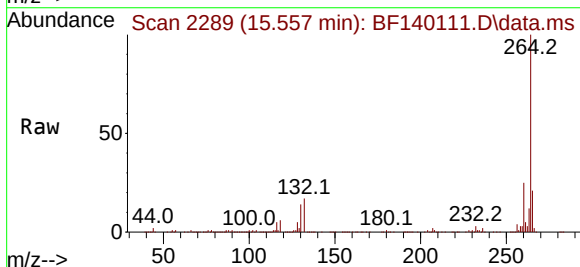
Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion:244 Resp: 938369
Ion Ratio Lower Upper
244 100
212 6.6 5.7 8.5
122 9.9 8.6 13.0



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2289
Delta R.T. 0.030 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Tgt Ion:264 Resp: 268509
Ion Ratio Lower Upper
264 100
260 24.5 19.4 29.2
265 21.1 17.4 26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

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-BF101824.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140111.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.193	9	17	24	rVB	1266994	2007518	74.34%	8.638%
2	3.999	318	324	336	rVB	21469	35342	1.31%	0.152%
3	5.116	510	514	523	rVB	17523	27735	1.03%	0.119%
4	5.504	574	580	586	rBV	1779539	2384772	88.31%	10.261%
5	6.504	744	750	768	rVB	1747782	2501850	92.64%	10.765%
6	6.887	810	815	820	rBV	618303	750575	27.79%	3.229%
7	7.445	902	910	919	rBV	1177559	1572985	58.25%	6.768%
8	7.698	947	953	960	rVB2	75341	114812	4.25%	0.494%
9	7.904	980	988	992	rBV2	21628	34582	1.28%	0.149%
10	8.169	1025	1033	1040	rBV	783185	1032254	38.22%	4.441%
11	8.381	1063	1069	1076	rBV	28092	40961	1.52%	0.176%
12	8.757	1128	1133	1137	rVB	47651	57250	2.12%	0.246%
13	9.239	1210	1215	1224	rBV	1998750	2700474	100.00%	11.619%
14	9.322	1224	1229	1234	rVB	67396	90403	3.35%	0.389%
15	9.639	1279	1283	1290	rVB3	26856	49288	1.83%	0.212%
16	9.851	1312	1319	1323	rBV	44304	59039	2.19%	0.254%
17	9.922	1326	1331	1343	rVB	887799	1144822	42.39%	4.926%
18	10.351	1396	1404	1408	rBV2	20249	30758	1.14%	0.132%
19	10.633	1447	1452	1459	rBV	488870	640623	23.72%	2.756%
20	10.710	1459	1465	1479	rVV	1375616	1827006	67.66%	7.861%
21	10.945	1501	1505	1512	rVB	37178	47221	1.75%	0.203%
22	11.410	1579	1584	1592	rBV	898380	1137268	42.11%	4.893%
23	11.475	1592	1595	1600	rVB2	37803	49234	1.82%	0.212%
24	11.639	1617	1623	1631	rBV8	14214	41207	1.53%	0.177%
25	11.933	1666	1673	1685	rBV	275405	452288	16.75%	1.946%
26	12.022	1685	1688	1697	rVB2	17953	40666	1.51%	0.175%
27	12.186	1712	1716	1724	rVB3	63064	81770	3.03%	0.352%
28	12.433	1754	1758	1765	rBV3	16929	32600	1.21%	0.140%
29	12.663	1794	1797	1802	rVB	27428	35969	1.33%	0.155%
30	12.722	1802	1807	1813	rBV2	28864	48440	1.79%	0.208%
31	12.857	1826	1830	1834	rBV2	16240	34169	1.27%	0.147%
32	12.998	1848	1854	1859	rBV	1895286	2439680	90.34%	10.497%
33	13.227	1889	1893	1900	rBV2	19363	27811	1.03%	0.120%
34	13.569	1947	1951	1960	rBV	25218	39911	1.48%	0.172%
35	13.898	2002	2007	2026	rBV	78496	201410	7.46%	0.867%
36	14.057	2028	2034	2046	rVB	481682	648129	24.00%	2.789%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	14.221	2058	2062	2067	rBV	22027	28968	1.07%	0.125%
38	14.539	2112	2116	2121	rBV	19358	27398	1.01%	0.118%
39	15.557	2282	2289	2302	rBV	451534	724396	26.82%	3.117%

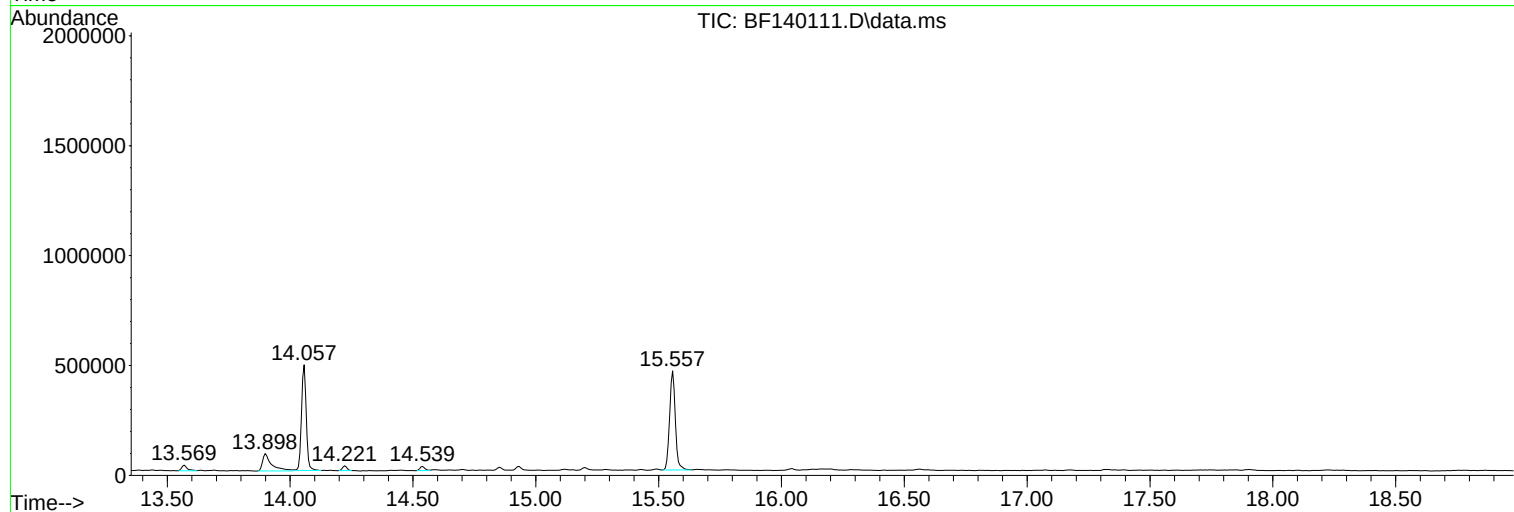
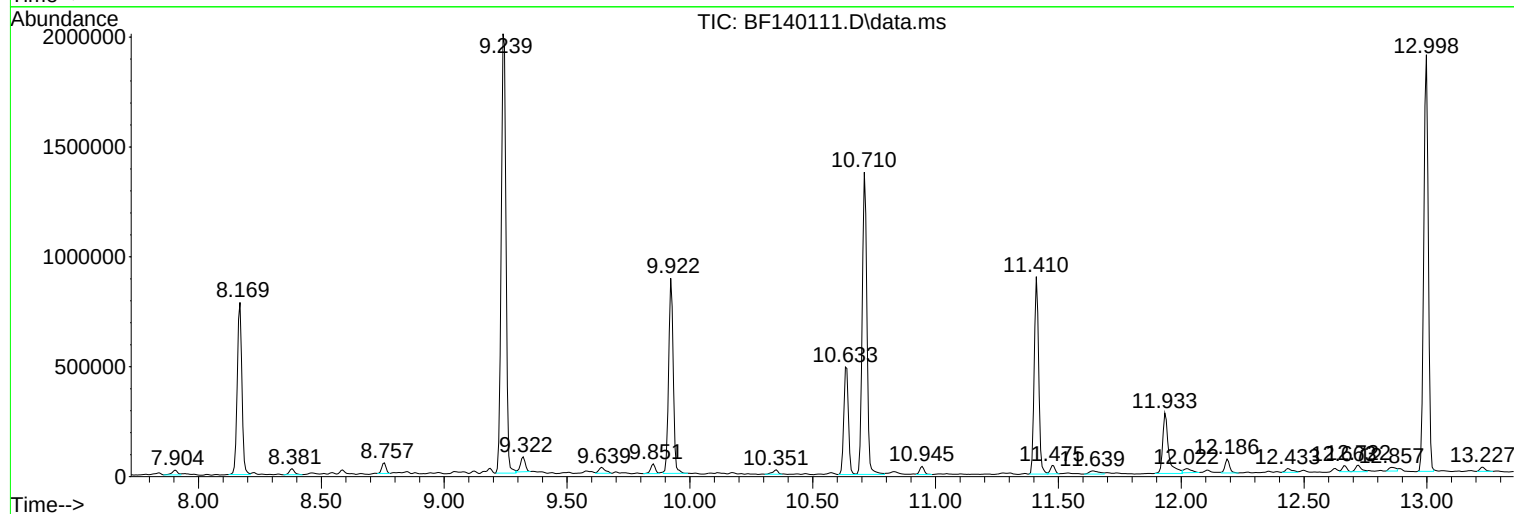
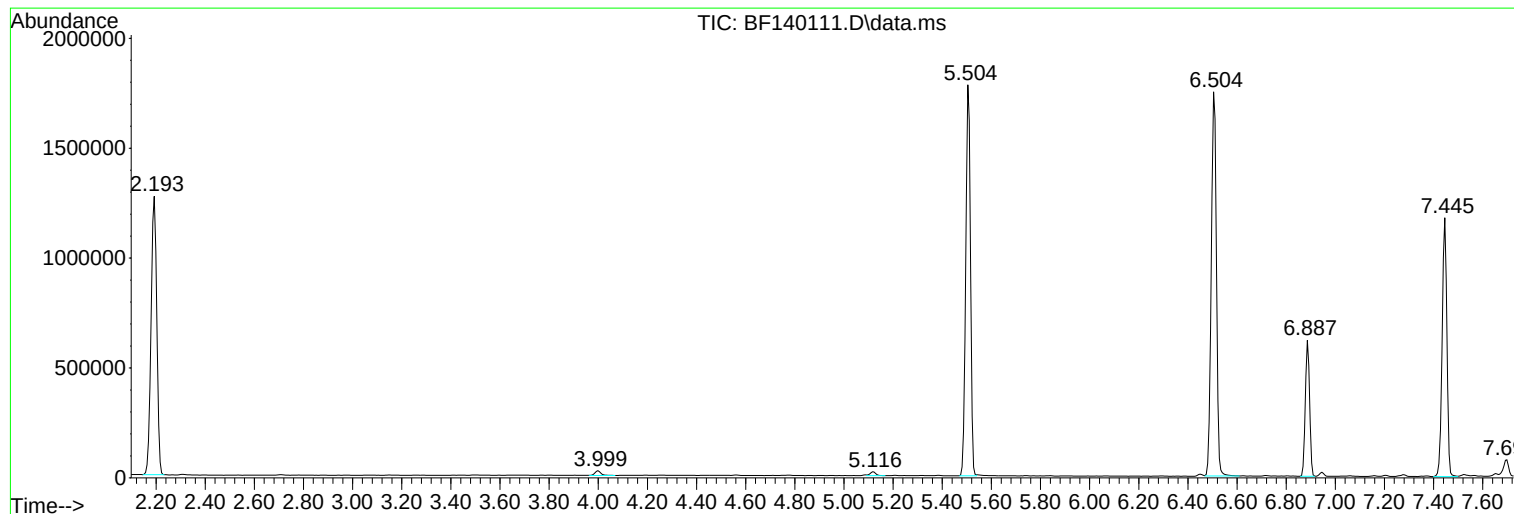
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

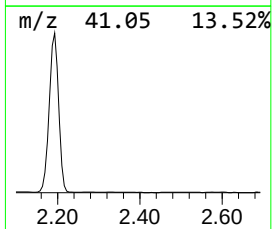
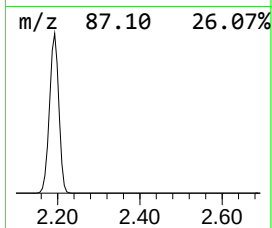
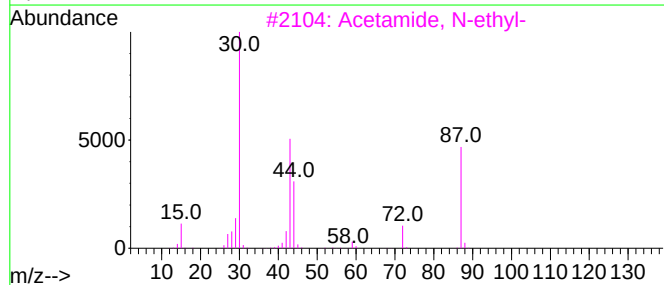
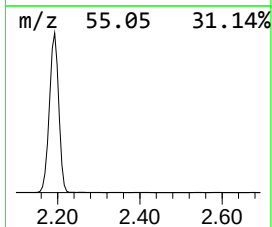
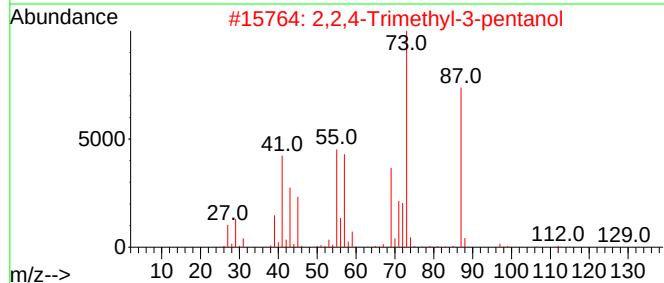
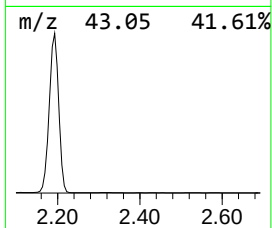
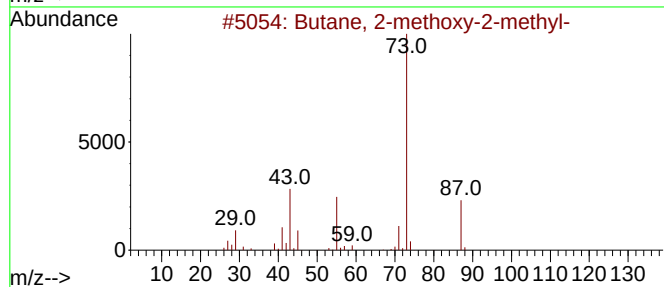
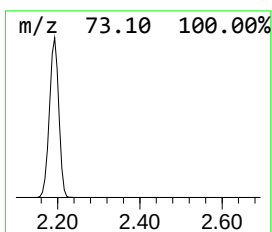
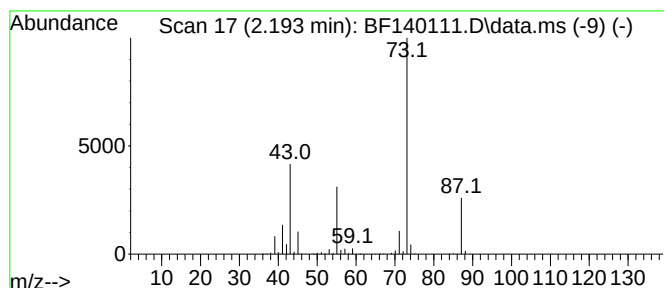
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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.
2.193	53.49 ng	2007520	1,4-Dichlorobenzene-d4	6.887

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\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

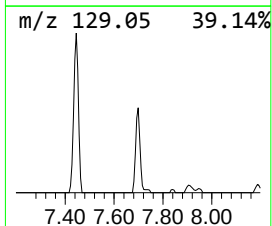
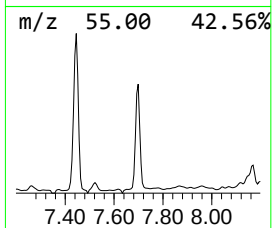
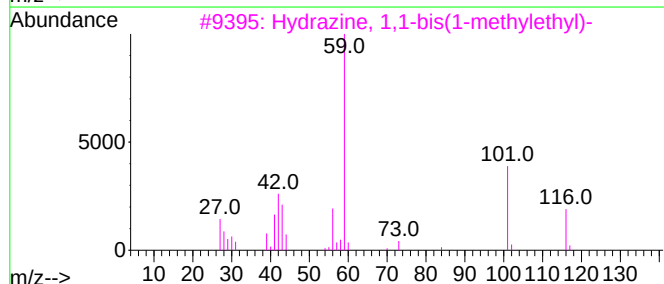
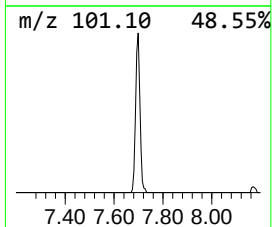
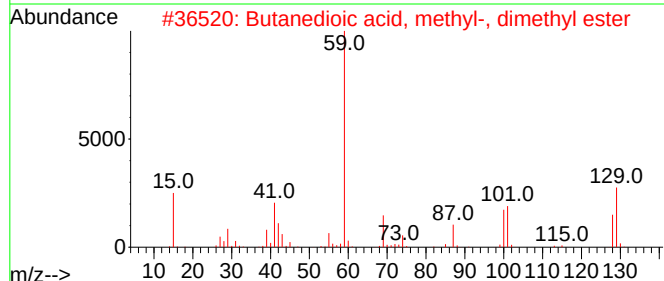
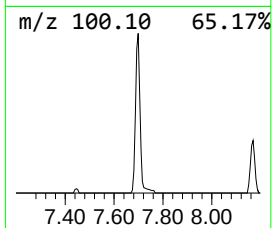
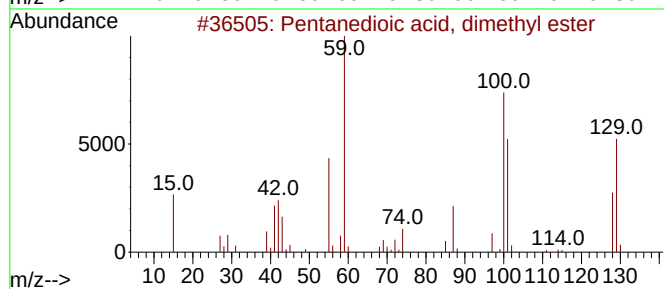
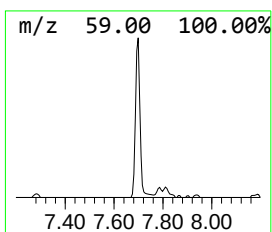
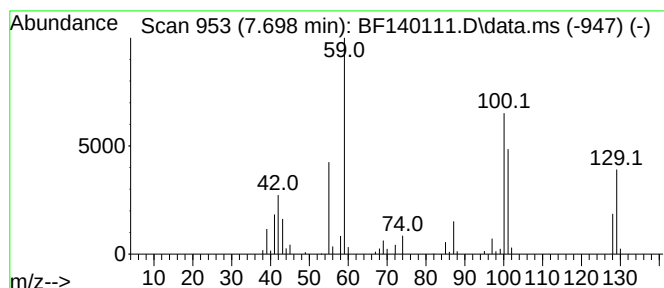
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Pentanedioic acid, dimethyl... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.698	2.22 ng	114812	Naphthalene-d8	8.169

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentanedioic acid, dimethyl ester	160	C7H12O4	001119-40-0	91
2			Butanedioic acid, methyl-, dimet...	160	C7H12O4	001604-11-1	42
3			Hydrazine, 1,1-bis(1-methylethyl)-	116	C6H16N2	000921-14-2	37
4			Hydrazine, (1-methylethyl)-	74	C3H10N2	002257-52-5	27
5			Hydrazine, trimethyl-	74	C3H10N2	001741-01-1	27



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

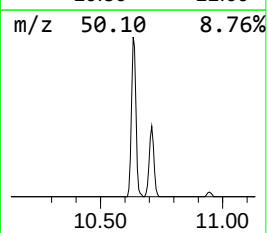
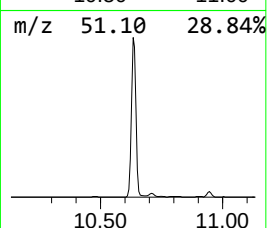
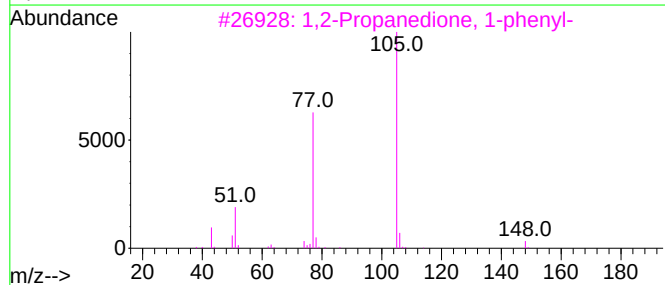
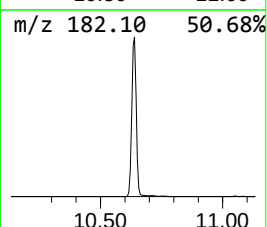
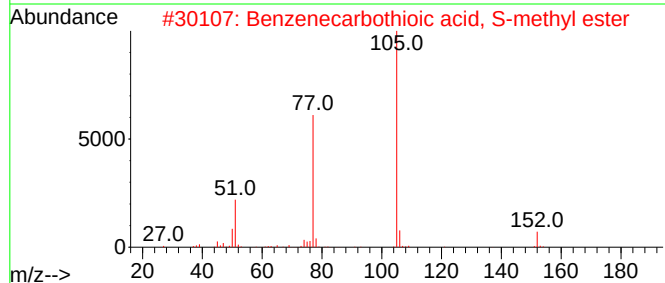
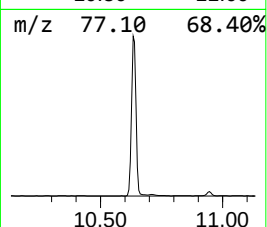
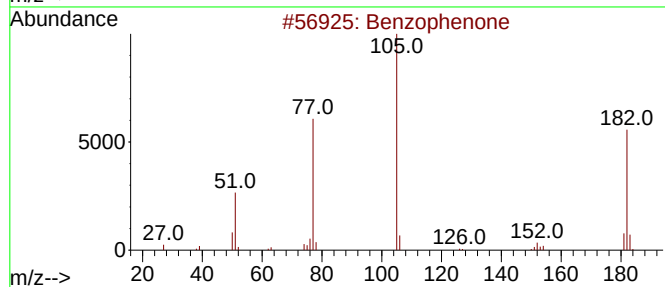
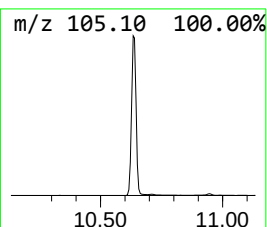
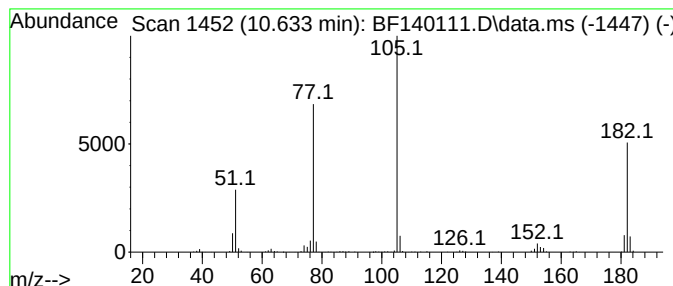
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.633	11.19 ng	640623	Acenaphthene-d10	9.922

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	52
3			1,2-Propanedione, 1-phenyl-	148	C9H8O2	000579-07-7	47
4			2-(2-Oxo-2-phenyl-ethyl)-malonon...	184	C11H8N2O	1000296-76-9	47
5			Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

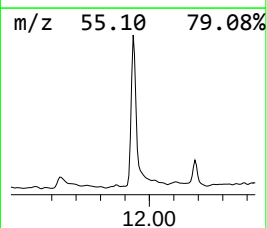
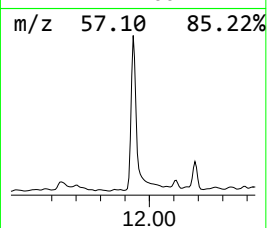
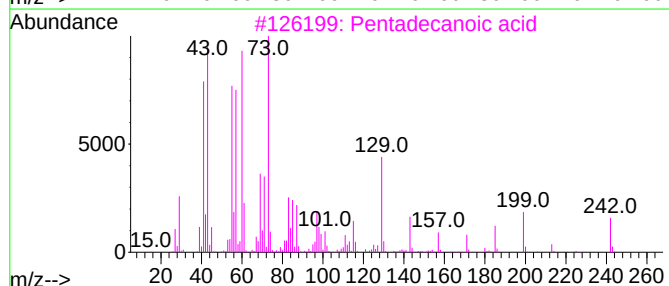
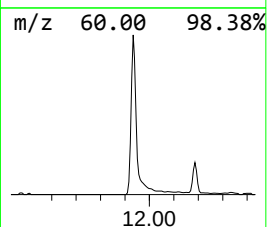
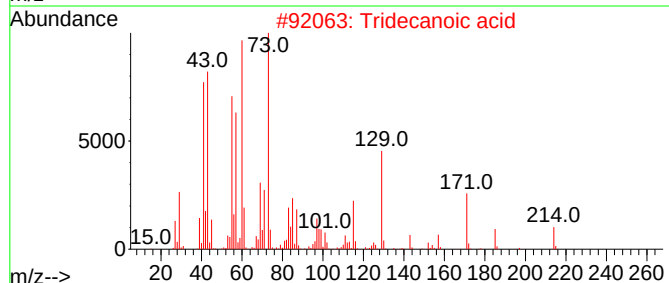
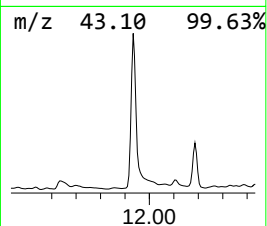
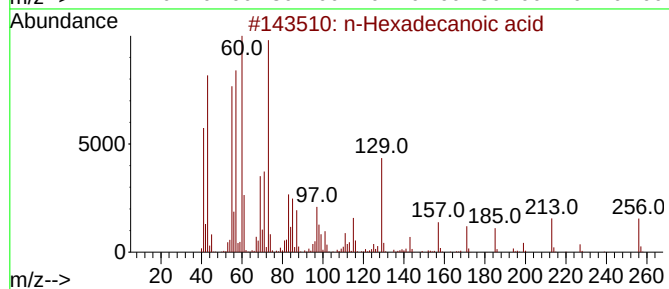
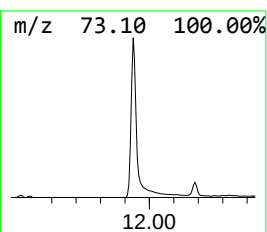
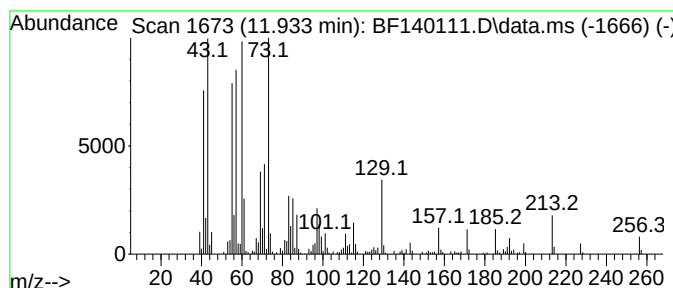
Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.933	7.95 ng	452288	Phenanthrene-d10	11.410	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2	Tridecanoic acid	214	C13H26O2	000638-53-9	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	87
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	74
5	Undecanoic acid	186	C11H22O2	000112-37-8	74



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

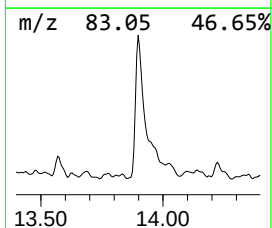
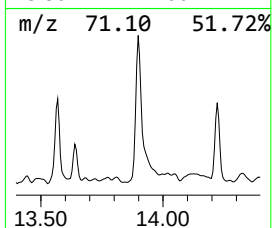
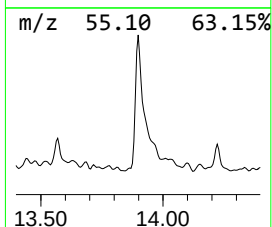
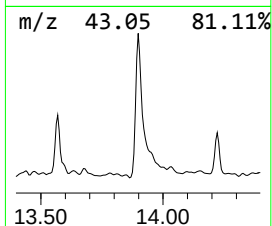
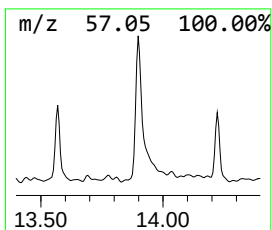
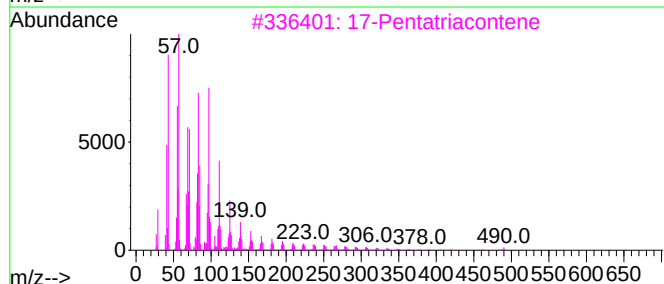
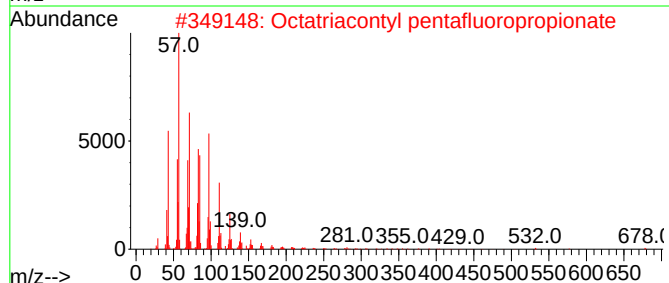
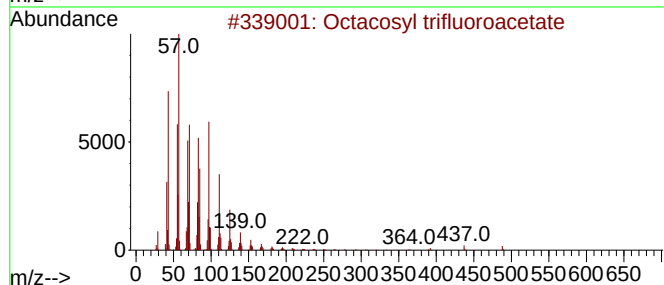
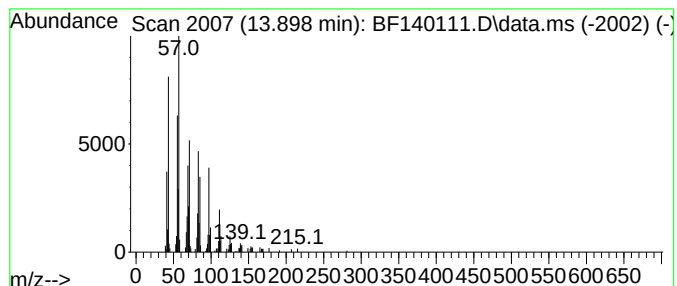
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Octacosyl trifluoroacetate Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.898	6.22 ng	201410	Chrysene-d12	14.057

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Octacosyl trifluoroacetate	506	C30H57F3O2	1000351-74-9	91
2			Octatriacontyl pentafluoropropio...	697	C41H77F5O2	1000351-89-1	91
3			17-Pentatriacontene	491	C35H70	006971-40-0	91
4			Triacontyl trifluoroacetate	534	C32H61F3O2	1000351-75-7	91
5			Tetratriacontyl heptafluorobutyrate	691	C38H69F7O2	1000351-84-1	91



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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...	2.193	53.5	ng	2007520	1	6.887	750575	20.0
Pentanedioic ac...	7.698	2.2	ng	114812	2	8.169	1032250	20.0
Benzophenone	10.633	11.2	ng	640623	3	9.922	1144820	20.0
n-Hexadecanoic ...	11.933	8.0	ng	452288	4	11.410	1137270	20.0
Octacosyl trifl...	13.898	6.2	ng	201410	5	14.057	648129	20.0



CALIBRATION SUMMARY

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_E Calibration Date(s): 10/28/2024 10/28/2024

Calibration Time(s): 11:44 16:01

LAB FILE ID:		RRF2.5 = BE101389.D			RRF005 = BE101390.D		RRF010 = BE101391.D	
		RRF020 = BE101392.D			RRF040 = BE101393.D		RRF050 = BE101394.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.134	1.073	1.142	1.153	1.143	1.141	3.0
Benzaldehyde		0.793	0.849	0.861	0.807	0.678	0.764	13.7
Phenol-d6		1.450	1.475	1.558	1.629	1.594	1.582	6.1
Phenol		1.488	1.456	1.766	1.826	1.797	1.717	10.2
bis(2-Chloroethyl) ether		1.513	1.401	1.245	1.477	1.322	1.408	6.9
2-Chlorophenol		1.335	1.305	1.371	1.403	1.369	1.369	2.9
2-Methylphenol		1.038	1.078	1.142	1.217	1.181	1.162	7.0
2,2-oxybis(1-Chloropropane)		1.840	1.857	1.816	1.794	1.711	1.772	4.3
Acetophenone		0.427	0.447	0.467	0.481	0.449	0.454	3.8
3+4-Methylphenols		1.364	1.500	1.580	1.685	1.646	1.604	8.5
n-Nitroso-di-n-propylamine	0.807	0.900	1.060	1.081	1.150	1.115	1.050	12.3
Nitrobenzene-d5		0.292	0.306	0.325	0.336	0.323	0.318	4.8
Hexachloroethane		0.497	0.486	0.492	0.497	0.495	0.492	1.3
Nitrobenzene		0.315	0.325	0.349	0.355	0.339	0.339	4.3
Isophorone		0.533	0.601	0.624	0.665	0.639	0.621	7.1
2-Nitrophenol		0.127	0.141	0.162	0.179	0.175	0.164	13.4
2,4-Dimethylphenol		0.196	0.194	0.207	0.215	0.206	0.206	4.2
bis(2-Chloroethoxy) methane		0.351	0.378	0.388	0.392	0.374	0.377	3.7
2,4-Dichlorophenol		0.257	0.268	0.285	0.297	0.287	0.285	6.0
Naphthalene		1.092	1.040	1.039	1.045	0.982	1.019	5.0
4-Chloroaniline		0.321	0.355	0.373	0.398	0.364	0.354	8.9
Hexachlorobutadiene		0.193	0.185	0.187	0.187	0.179	0.184	3.3
Caprolactam		0.077	0.093	0.109	0.119	0.118	0.109	16.5
4-Chloro-3-methylphenol		0.277	0.314	0.321	0.341	0.330	0.325	7.5
2-Methylnaphthalene		0.753	0.752	0.736	0.756	0.711	0.734	3.1
Hexachlorocyclopentadiene		0.153	0.150	0.179	0.177	0.173	0.166	6.9
2,4,6-Trichlorophenol		0.310	0.325	0.352	0.369	0.353	0.346	6.0
2-Fluorobiphenyl		1.359	1.275	1.283	1.226	1.114	1.181	12.4
2,4,5-Trichlorophenol		0.356	0.372	0.401	0.415	0.402	0.396	5.9
1,1-Biphenyl		1.477	1.399	1.431	1.408	1.326	1.370	6.2
2-Chloronaphthalene		1.159	1.091	1.112	1.098	1.054	1.083	4.6
2-Nitroaniline		0.214	0.243	0.295	0.318	0.318	0.291	15.4
Dimethylphthalate		1.446	1.469	1.459	1.449	1.378	1.412	4.4
Acenaphthylene		1.613	1.605	1.656	1.677	1.586	1.601	4.1

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.: P4578 SAS No.: P4578 SDG No.: P4578
 Instrument ID: BNA_E Calibration Date(s): 10/28/2024 10/28/2024
 Calibration Time(s): 11:44 16:01

LAB FILE ID:		RRF2.5 = BE101389.D			RRF005 = BE101390.D		RRF010 = BE101391.D	
		RRF020 = BE101392.D			RRF040 = BE101393.D		RRF050 = BE101394.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.284	0.309	0.331	0.345	0.333	0.326	6.8
3-Nitroaniline		0.266	0.296	0.342	0.357	0.347	0.324	10.2
Acenaphthene		1.120	1.080	1.073	1.075	1.016	1.045	5.8
2,4-Dinitrophenol			0.125	0.177	0.208	0.219	0.198	20.8
4-Nitrophenol			0.219	0.291	0.311	0.318	0.297	13.3
Dibenzofuran		1.828	1.739	1.721	1.695	1.604	1.666	7.0
2,4-Dinitrotoluene		0.344	0.407	0.454	0.481	0.480	0.449	12.2
Diethylphthalate		1.499	1.532	1.560	1.535	1.456	1.477	5.5
4-Chlorophenyl-phenylether		0.737	0.713	0.705	0.707	0.676	0.692	5.0
Fluorene		1.490	1.450	1.446	1.453	1.354	1.394	6.7
4-Nitroaniline		0.267	0.316	0.374	0.391	0.393	0.361	13.8
4,6-Dinitro-2-methylphenol			0.086	0.108	0.123	0.125	0.118	15.2
n-Nitrosodiphenylamine		0.542	0.548	0.545	0.553	0.516	0.530	4.3
2,4,6-Tribromophenol		0.329	0.341	0.358	0.366	0.355	0.351	3.6
4-Bromophenyl-phenylether		0.211	0.207	0.209	0.215	0.208	0.210	1.5
Hexachlorobenzene		0.283	0.272	0.274	0.283	0.271	0.276	2.0
Atrazine		0.182	0.179	0.160	0.184	0.109	0.163	19.4
Pentachlorophenol		0.116	0.137	0.159	0.173	0.172	0.159	14.9
Phenanthrene		1.068	1.023	1.012	0.991	0.912	0.958	9.6
Anthracene		1.002	0.972	0.997	0.979	0.909	0.935	8.1
Carbazole		1.010	0.987	1.033	0.995	0.939	0.957	7.6
Di-n-butylphthalate		1.018	1.088	1.221	1.136	1.058	1.053	10.7
Fluoranthene		1.320	1.268	1.306	1.199	1.102	1.163	13.3
Pyrene		1.176	1.206	1.184	1.174	1.052	1.100	10.7
Terphenyl-d14		1.036	1.023	0.970	0.841	0.686	0.869	19.3
Butylbenzylphthalate		0.443	0.467	0.515	0.510	0.494	0.482	5.7
3,3-Dichlorobenzidine		0.404	0.438	0.470	0.481	0.450	0.440	7.1
Benzo (a) anthracene		1.277	1.238	1.243	1.174	1.047	1.124	13.2
Chrysene		1.266	1.225	1.201	1.110	1.005	1.087	14.5
Bis (2-ethylhexyl) phthalate		0.550	0.608	0.705	0.698	0.672	0.641	9.1
Di-n-octyl phthalate		0.987	1.057	1.209	1.137	1.053	1.051	9.9
Benzo (b) fluoranthene		1.076	1.113	1.100	1.110	1.023	1.042	8.3
Benzo (k) fluoranthene		1.126	1.042	1.087	1.015	0.897	0.974	13.1
Benzo (a) pyrene		0.935	0.933	0.961	0.966	0.899	0.912	6.4
Indeno (1,2,3-cd) pyrene		1.390	1.352	1.390	1.394	1.315	1.338	4.8

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.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_E Calibration Date(s): 10/28/2024 10/28/2024

Calibration Time(s): 11:44 16:01

LAB FILE ID:								
RRF2.5 = BE101389.D			RRF005 = BE101390.D			RRF010 = BE101391.D		
RRF020 = BE101392.D			RRF040 = BE101393.D			RRF050 = BE101394.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo (a,h) anthracene		1.130	1.125	1.169	1.170	1.089	1.106	6.0
Benzo (g,h,i) perylene		1.162	1.130	1.155	1.179	1.125	1.140	3.0
1,2,4,5-Tetrachlorobenzene		0.522	0.493	0.515	0.512	0.491	0.502	3.0
1,4-Dioxane		0.471	0.463	0.454	0.421	0.400	0.426	8.8
2,3,4,6-Tetrachlorophenol		0.345	0.355	0.368	0.382	0.367	0.366	3.5

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
 Method File : 8270-BE102824.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Oct 29 01:26:30 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BE101389.D 5 =BE101390.D 10 =BE101391.D 20 =BE101392.D 40 =BE101393.D 50 =BE101394.D 60 =BE101395.D 80 =BE101396.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.471	0.463	0.454	0.421	0.400	0.392	0.379	0.426	8.76	
3)	Pyridine	1.064	1.123	1.255	1.196	1.252	1.287	1.252	1.204	6.80	
4)	n-Nitrosodimet...	0.459	0.440	0.454	0.479	0.473	0.488	0.468	0.466	3.45	
5) S	2-Fluorophenol	1.134	1.073	1.142	1.153	1.143	1.187	1.155	1.141	3.03	
6)	Aniline	1.059	1.262	1.529	1.346	1.301	1.224	0.767	1.213	19.92	
7) S	Phenol-d6	1.450	1.475	1.558	1.629	1.594	1.727	1.643	1.582	6.15	
8)	2-Chlorophenol	1.335	1.305	1.371	1.403	1.369	1.426	1.371	1.369	2.94	
9)	Benzaldehyde	0.793	0.849	0.861	0.807	0.678	0.595		0.764	13.74	
10) C	Phenol	1.488	1.456	1.766	1.826	1.797	1.914	1.769	1.717	10.16	
11)	bis(2-Chloroet...	1.513	1.401	1.245	1.477	1.322	1.408	1.492	1.408	6.93	
12)	1,3-Dichlorobe...	1.563	1.523	1.508	1.488	1.424	1.443	1.382	1.476	4.25	
13) C	1,4-Dichlorobe...	1.624	1.534	1.546	1.505	1.447	1.484	1.409	1.507	4.66	
14)	1,2-Dichlorobe...	1.553	1.488	1.502	1.490	1.433	1.472	1.388	1.475	3.56	
15)	Benzyl Alcohol	0.704	0.797	0.979	1.061	1.013	1.059	0.990	0.943	14.61	
16)	2,2'-oxybis(1-...	1.840	1.857	1.816	1.794	1.711	1.746	1.642	1.772	4.33	
17)	2-Methylphenol	1.038	1.078	1.142	1.217	1.181	1.263	1.215	1.162	6.96	
18)	Hexachloroethane	0.497	0.486	0.492	0.497	0.495	0.496	0.481	0.492	1.28	
19) P	n-Nitroso-di-n...	0.807	0.900	1.060	1.081	1.150	1.115	1.185	1.102	1.050	12.35
20)	3+4-Methylphenols	1.364	1.500	1.580	1.685	1.646	1.778	1.674	1.604	8.53	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.427	0.447	0.467	0.481	0.449	0.462	0.446	0.454	3.79	
23) S	Nitrobenzene-d5	0.292	0.306	0.325	0.336	0.323	0.331	0.316	0.318	4.78	
24)	Nitrobenzene	0.315	0.325	0.349	0.355	0.339	0.350	0.339	0.339	4.26	
25)	Isophorone	0.533	0.601	0.624	0.665	0.639	0.655	0.632	0.621	7.13	
26) C	2-Nitrophenol	0.127	0.141	0.162	0.179	0.175	0.182	0.181	0.164	13.41	
27)	2,4-Dimethylph...	0.196	0.194	0.207	0.215	0.206	0.215	0.211	0.206	4.19	
28)	bis(2-Chloroet...	0.351	0.378	0.388	0.392	0.374	0.385	0.370	0.377	3.65	
29) C	2,4-Dichloroph...	0.257	0.268	0.285	0.297	0.287	0.305	0.297	0.285	6.00	
30)	1,2,4-Trichlor...	0.325	0.311	0.315	0.314	0.304	0.307	0.299	0.311	2.71	
31)	Naphthalene	1.092	1.040	1.039	1.045	0.982	0.999	0.936	1.019	5.00	
32)	Benzoic acid		0.091	0.145	0.196	0.203	0.223	0.234	0.182	29.71	
33)	4-Chloroaniline	0.321	0.355	0.373	0.398	0.364	0.365	0.305	0.354	8.87	
34) C	Hexachlorobuta...	0.193	0.185	0.187	0.187	0.179	0.180	0.176	0.184	3.26	
35)	Caprolactam	0.077	0.093	0.109	0.119	0.118	0.126	0.124	0.109	16.48	
36) C	4-Chloro-3-met...	0.277	0.314	0.321	0.341	0.330	0.347	0.343	0.325	7.51	
37)	2-Methylnaphth...	0.753	0.752	0.736	0.756	0.711	0.736	0.696	0.734	3.12	
38)	1-Methylnaphth...	0.750	0.756	0.735	0.751	0.709	0.733	0.696	0.733	3.08	

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
 Method File : 8270-BE102824.M

39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.522	0.493	0.515	0.512	0.491	0.499	0.481	0.502	2.96	
41) P	Hexachlorocycl...	0.153	0.150	0.179	0.177	0.173	0.168	0.162	0.166	6.85	
42) S	2,4,6-Tribromo...	0.329	0.341	0.358	0.366	0.355	0.359	0.346	0.351	3.59	
43) C	2,4,6-Trichlor...	0.310	0.325	0.352	0.369	0.353	0.360	0.353	0.346	6.01	
44)	2,4,5-Trichlor...	0.356	0.372	0.401	0.415	0.402	0.418	0.411	0.396	5.93	
45) S	2-Fluorobiphenyl	1.359	1.275	1.283	1.226	1.114	1.072	0.938	1.181	12.39	
46)	1,1'-Biphenyl	1.477	1.399	1.431	1.408	1.326	1.326	1.224	1.370	6.15	
47)	2-Chloronaphth...	1.159	1.091	1.112	1.098	1.054	1.060	1.002	1.083	4.60	
48)	2-Nitroaniline	0.214	0.243	0.295	0.318	0.318	0.329	0.322	0.291	15.45	
49)	Acenaphthylene	1.613	1.605	1.656	1.677	1.586	1.597	1.473	1.601	4.07	
50)	Dimethylphthalate	1.446	1.469	1.459	1.449	1.378	1.383	1.298	1.412	4.38	
51)	2,6-Dinitrotol...	0.284	0.309	0.331	0.345	0.333	0.346	0.334	0.326	6.77	
52) C	Acenaphthene	1.120	1.080	1.073	1.075	1.016	1.017	0.936	1.045	5.79	
53)	3-Nitroaniline	0.266	0.296	0.342	0.357	0.347	0.345	0.315	0.324	10.25	
54) P	2,4-Dinitrophenol		0.125	0.177	0.208	0.219	0.230	0.231	0.198	20.84	
55)	Dibenzofuran	1.828	1.739	1.721	1.695	1.604	1.608	1.468	1.666	7.02	
56) P	4-Nitrophenol		0.219	0.291	0.311	0.318	0.324	0.318	0.297	13.34	
57)	2,4-Dinitrotol...	0.344	0.407	0.454	0.481	0.480	0.495	0.481	0.449	12.18	
58)	Fluorene	1.490	1.450	1.446	1.453	1.354	1.342	1.222	1.394	6.71	
59)	2,3,4,6-Tetrac...	0.345	0.355	0.368	0.382	0.367	0.378	0.369	0.366	3.48	
60)	Diethylphthalate	1.499	1.532	1.560	1.535	1.456	1.427	1.327	1.477	5.47	
61)	4-Chlorophenyl...	0.737	0.713	0.705	0.707	0.676	0.673	0.631	0.692	5.05	
62)	4-Nitroaniline	0.267	0.316	0.374	0.391	0.393	0.394	0.389	0.361	13.79	
63)	Azobenzene	1.280	1.309	1.331	1.319	1.248	1.245	1.154	1.269	4.80	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.086	0.108	0.123	0.125	0.131	0.133	0.118	15.15	
66) c	n-Nitrosodiphe...	0.542	0.548	0.545	0.553	0.516	0.520	0.489	0.530	4.33	
67)	4-Bromophenyl-...	0.211	0.207	0.209	0.215	0.208	0.215	0.209	0.210	1.48	
68)	Hexachlorobenzene	0.283	0.272	0.274	0.283	0.271	0.278	0.269	0.276	2.01	
69)	Atrazine	0.182	0.179	0.160	0.184	0.109			0.163	19.39	
70) C	Pentachlorophenol	0.116	0.137	0.159	0.173	0.172	0.177	0.177	0.159	14.86	
71)	Phenanthrene	1.068	1.023	1.012	0.991	0.912	0.896	0.801	0.958	9.62	
72)	Anthracene	1.002	0.972	0.997	0.979	0.909	0.893	0.793	0.935	8.08	
73)	Carbazole	1.010	0.987	1.033	0.995	0.939	0.914	0.820	0.957	7.62	
74)	Di-n-butylphth...	1.018	1.088	1.221	1.136	1.058	0.985	0.867	1.053	10.73	
75) C	Fluoranthene	1.320	1.268	1.306	1.199	1.102	1.043	0.903	1.163	13.27	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.236	0.285	0.253	0.347	0.228	0.198	0.230	0.254	19.22	
78)	Pyrene	1.176	1.206	1.184	1.174	1.052	1.016	0.890	1.100	10.69	
79) S	Terphenyl-d14	1.036	1.023	0.970	0.841	0.686	0.657		0.869	19.31	
80)	Butylbenzylphth...	0.443	0.467	0.515	0.510	0.494	0.490	0.455	0.482	5.73	
81)	Benzo(a)anthra...	1.277	1.238	1.243	1.174	1.047	1.010	0.879	1.124	13.18	
82)	3,3'-Dichlorob...	0.404	0.438	0.470	0.481	0.450	0.444	0.396	0.440	7.11	
83)	Chrysene	1.266	1.225	1.201	1.110	1.005	0.962	0.838	1.087	14.51	
84)	Bis(2-ethylhex...	0.550	0.608	0.705	0.698	0.672	0.659	0.591	0.641	9.15	
85) c	Di-n-octyl pht...	0.987	1.057	1.209	1.137	1.053	1.032	0.883	1.051	9.92	

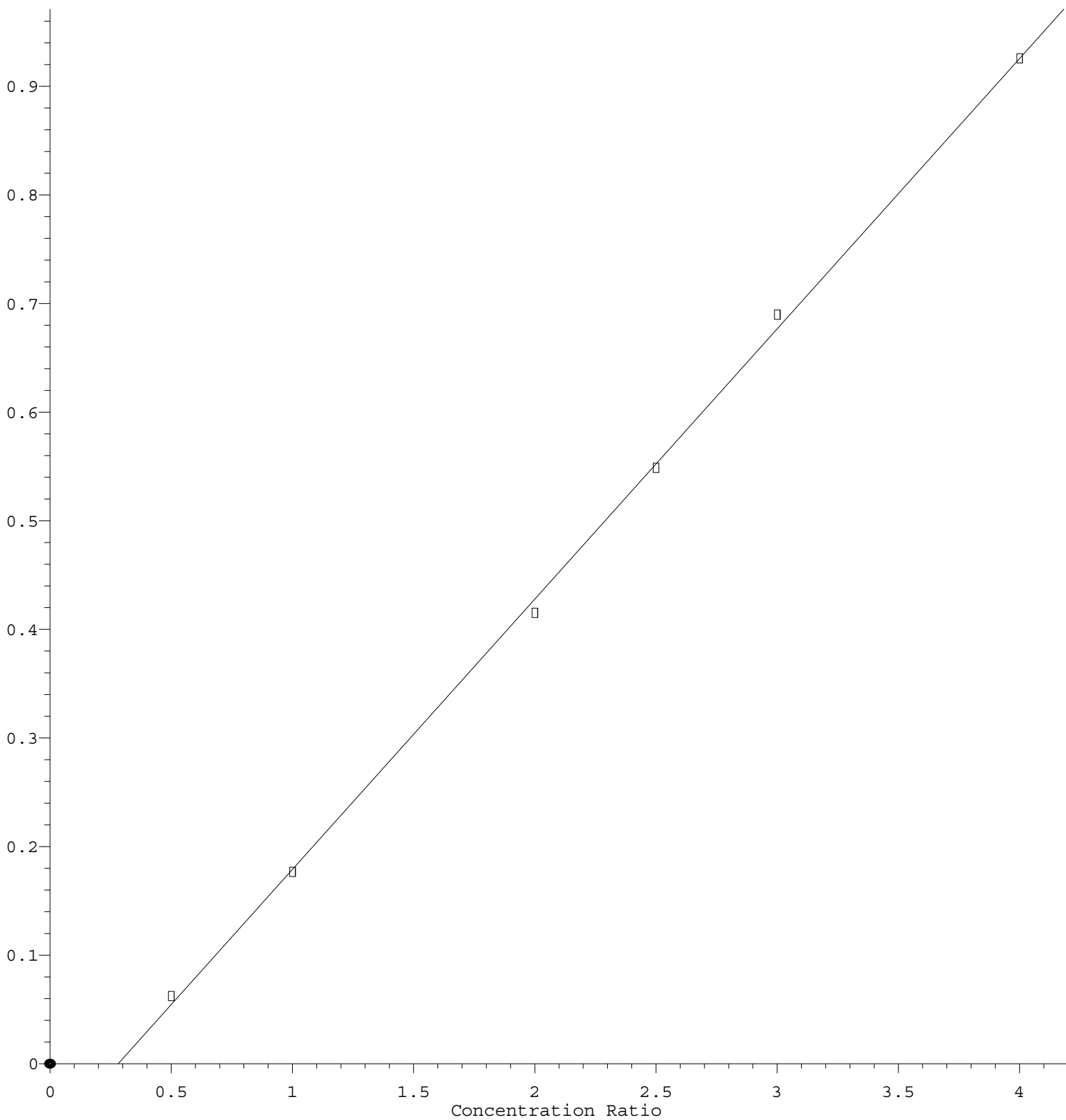
Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE102824.M

		-----ISTD-----								
86) I	Perylene-d12									
87)	Indeno(1,2,3-c...	1.390	1.352	1.390	1.394	1.315	1.315	1.214	1.338	4.83
88)	Benzo(b)fluora...	1.076	1.113	1.100	1.110	1.023	1.000	0.873	1.042	8.29
89)	Benzo(k)fluora...	1.126	1.042	1.087	1.015	0.897	0.875	0.774	0.974	13.13
90) C	Benzo(a)pyrene	0.935	0.933	0.961	0.966	0.899	0.890	0.796	0.912	6.37
91)	Dibenzo(a,h)an...	1.130	1.125	1.169	1.170	1.089	1.083	0.977	1.106	6.00
92)	Benzo(g,h,i)pe...	1.162	1.130	1.155	1.179	1.125	1.152	1.075	1.140	2.98

(#) = Out of Range

2,4-Dinitrophenol

Response Ratio



$$\text{Response} = 2.491\text{e-}001 * \text{Amt} - 6.995\text{e-}002$$

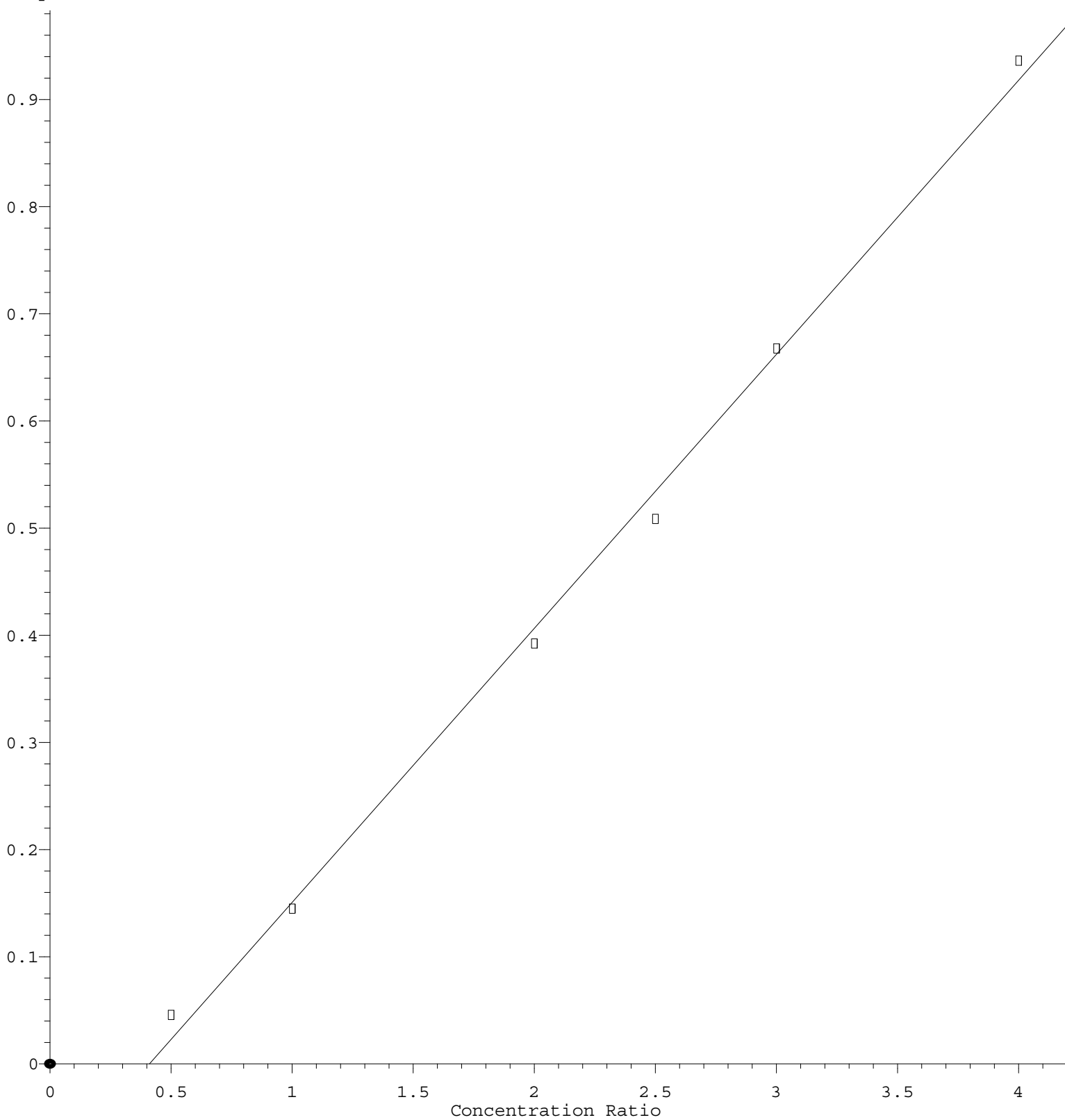
Coef of Det (r^2) = 0.999215 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA E\Methods\8270-BE102824.M

Calibration Table Last Updated: Tue Oct 29 01:26:30 2024

Benzoic acid

Response Ratio



$$\text{Response} = 2.558\text{e-}001 * \text{Amt} - 1.051\text{e-}001$$

Coef of Det (r^2) = 0.996743 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA E\Methods\8270-BE102824.M

Calibration Table Last Updated: Tue Oct 29 01:26:30 2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101389.D
Acq On : 28 Oct 2024 11:44
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC2.5

Quant Time: Oct 29 00:21:54 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:20:51 2024
Response via : Initial Calibration

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

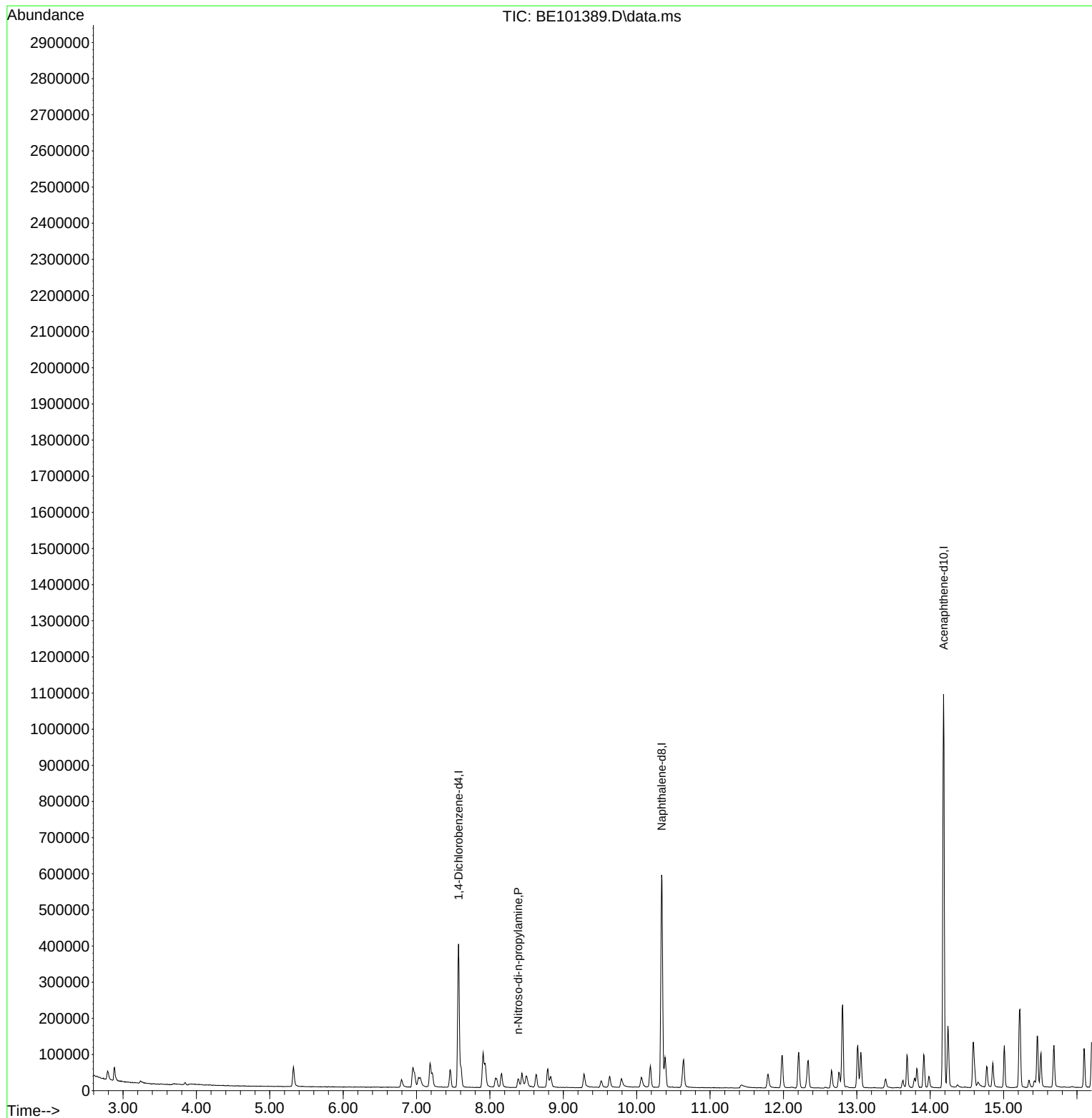
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.572	152	112211	20.000	ng	0.00
21) Naphthalene-d8	10.339	136	522612	20.000	ng	0.00
39) Acenaphthene-d10	14.182	164	379442	20.000	ng	0.00
64) Phenanthrene-d10	16.920	188	934130	20.000	ng	0.00
76) Chrysene-d12	21.079	240	1119449	20.000	ng	0.00
86) Perylene-d12	23.371	264	1421910	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.000	ng	
7) Phenol-d6	0.000	99	0d	0.000	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.000	ng	
42) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
45) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng	
79) Terphenyl-d14	0.000	244	0d	0.000	ng	
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	8.383	70	11323	1.922	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101389.D
Acq On : 28 Oct 2024 11:44
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC2.5

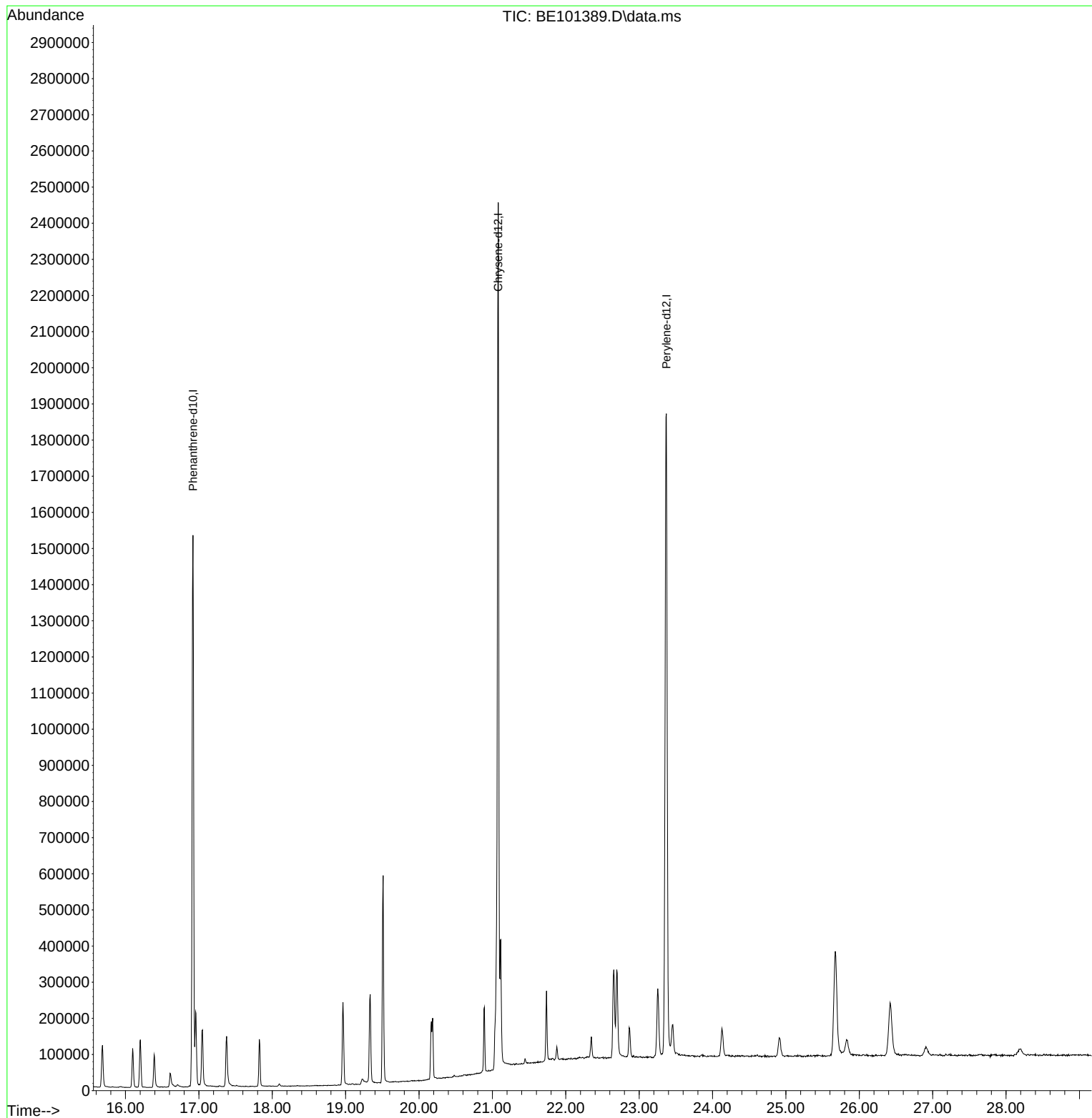
Quant Time: Oct 29 00:21:54 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:20:51 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101389.D
Acq On : 28 Oct 2024 11:44
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC2.5

Quant Time: Oct 29 00:21:54 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:20:51 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101390.D
 Acq On : 28 Oct 2024 12:23
 Operator : RC/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

SSTDICC005

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/29/2024

Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:06:50 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 29 00:58:30 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.570	152	118304	20.000	ng	0.00
21) Naphthalene-d8	10.337	136	544178	20.000	ng	0.00
39) Acenaphthene-d10	14.180	164	377798	20.000	ng	0.00
64) Phenanthrene-d10	16.918	188	892142	20.000	ng	0.00
76) Chrysene-d12	21.078	240	1100014	20.000	ng	0.00
86) Perylene-d12	23.363	264	1419712	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.320	112	67080	9.938	ng	0.00
7) Phenol-d6	6.947	99	85753	9.162	ng	0.00
23) Nitrobenzene-d5	8.786	82	79382	9.162	ng	0.00
42) 2,4,6-Tribromophenol	15.684	330	62167	9.389	ng	0.00
45) 2-Fluorobiphenyl	12.805	172	256728	11.508	ng	0.00
79) Terphenyl-d14	19.509	244	569888	11.924	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.228	88	13926	5.532	ng	92
3) Pyridine	3.810	79	31470m	4.430	ng	
4) n-Nitrosodimethylamine	3.651	42	13573m	4.997	ng	
6) Aniline	7.024	93	31326	4.367	ng	97
8) 2-Chlorophenol	7.217	128	39490	4.878	ng	99
9) Benzaldehyde	6.794	77	23443	5.189	ng	98
10) Phenol	6.971	94	44021	4.335	ng	96
11) bis(2-Chloroethyl)ether	7.041	93	44763m	5.459	ng	
12) 1,3-Dichlorobenzene	7.458	146	46227	5.295	ng	97
13) 1,4-Dichlorobenzene	7.605	146	48018	5.386	ng	97
14) 1,2-Dichlorobenzene	7.934	146	45931	5.264	ng	98
15) Benzyl Alcohol	7.923	79	20828	3.733	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.081	45	54415	5.190	ng	97
17) 2-Methylphenol	8.158	107	30687	4.465	ng	96
18) Hexachloroethane	8.628	117	14712	5.054	ng	94
19) n-Nitroso-di-n-propyla...	8.381	70	26623	4.287	ng	97
20) 3+4-Methylphenols	8.492	107	40353	4.253	ng	97
22) Acetophenone	8.434	105	58143	4.706	ng	# 98
24) Nitrobenzene	8.821	77	42873	4.649	ng	93
25) Isophorone	9.280	82	72478	4.287	ng	96
26) 2-Nitrophenol	9.515	139	17266	3.874	ng	97
27) 2,4-Dimethylphenol	9.626	122	26611	4.745	ng	91
28) bis(2-Chloroethoxy)met...	9.785	93	47763	4.658	ng	97
29) 2,4-Dichlorophenol	10.061	162	35022	4.514	ng	96
30) 1,2,4-Trichlorobenzene	10.185	180	44208	5.230	ng	99
31) Naphthalene	10.390	128	148597	5.359	ng	99
33) 4-Chloroaniline	10.619	127	43714	4.533	ng	98
34) Hexachlorobutadiene	10.637	225	26263	5.249	ng	98
35) Caprolactam	11.401	113	10440m	3.518	ng	
36) 4-Chloro-3-methylphenol	11.783	107	37639	4.261	ng	97
37) 2-Methylnaphthalene	11.977	142	102472	5.129	ng	99
38) 1-Methylnaphthalene	12.206	142	101988	5.115	ng	99
40) 1,2,4,5-Tetrachloroben...	12.335	216	49333	5.202	ng	98
41) Hexachlorocyclopentadiene	12.317	237	14492	4.627	ng	97
43) 2,4,6-Trichlorophenol	12.652	196	29292	4.480	ng	98
44) 2,4,5-Trichlorophenol	12.752	196	33625	4.491	ng	96

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101390.D
 Acq On : 28 Oct 2024 12:23
 Operator : RC/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

SSTDICC005

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/29/2024

Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:06:50 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 29 00:58:30 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	13.011	154	139541	5.391	ng	99
47) 2-Chloronaphthalene	13.052	162	109485	5.354	ng	98
48) 2-Nitroaniline	13.387	65	20195	3.670	ng	89
49) Acenaphthylene	13.910	152	152325	5.037	ng	98
50) Dimethylphthalate	13.680	163	136570	5.121	ng	98
51) 2,6-Dinitrotoluene	13.816	165	26828	4.357	ng	# 85
52) Acenaphthene	14.245	154	105777	5.357	ng	99
53) 3-Nitroaniline	14.233	138	25147	4.108	ng	95
55) Dibenzofuran	14.585	168	172675	5.486	ng	97
57) 2,4-Dinitrotoluene	14.603	165	32467	3.830	ng	# 85
58) Fluorene	15.220	166	140698	5.344	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.850	232	32545	4.705	ng	100
60) Diethylphthalate	15.008	149	141540	5.074	ng	99
61) 4-Chlorophenyl-phenyle...	15.214	204	69653	5.331	ng	96
62) 4-Nitroaniline	15.414	138	25247	3.706	ng	98
63) Azobenzene	15.508	77	120875	5.041	ng	98
66) n-Nitrosodiphenylamine	15.461	169	120923	5.111	ng	99
67) 4-Bromophenyl-phenylether	16.095	248	47013	5.010	ng	98
68) Hexachlorobenzene	16.201	284	63030	5.124	ng	97
69) Atrazine	16.389	200	40521	5.587	ng	99
70) Pentachlorophenol	16.612	266	25934	3.663	ng	95
71) Phenanthrene	16.959	178	238149	5.575	ng	96
72) Anthracene	17.041	178	223571	5.360	ng	97
73) Carbazole	17.376	167	225240	5.278	ng	98
74) Di-n-butylphthalate	17.823	149	227063	4.833	ng	97
75) Fluoranthene	18.963	202	294423	5.675	ng	96
77) Benzidine	19.221	184	64981	4.654	ng	97
78) Pyrene	19.333	202	323492	5.348	ng	95
80) Butylbenzylphthalate	20.179	149	121771	4.592	ng	97
81) Benzo(a)anthracene	21.054	228	351110	5.679	ng	95
82) 3,3'-Dichlorobenzidine	21.037	252	111192	4.591	ng	99
83) Chrysene	21.113	228	348272	5.826	ng	93
84) Bis(2-ethylhexyl)phtha...	20.884	149	151249	4.293	ng	# 96
85) Di-n-octyl phthalate	21.736	149	271400	4.694	ng	99
87) Indeno(1,2,3-cd)pyrene	25.666	276	493253	5.191	ng	99
88) Benzo(b)fluoranthene	22.652	252	381899	5.162	ng	97
89) Benzo(k)fluoranthene	22.693	252	399794	5.782	ng	95
90) Benzo(a)pyrene	23.252	252	331871	5.129	ng	99
91) Dibenzo(a,h)anthracene	25.666	278	400920	5.107	ng	98
92) Benzo(g,h,i)perylene	26.419	276	412340	5.097	ng	99

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

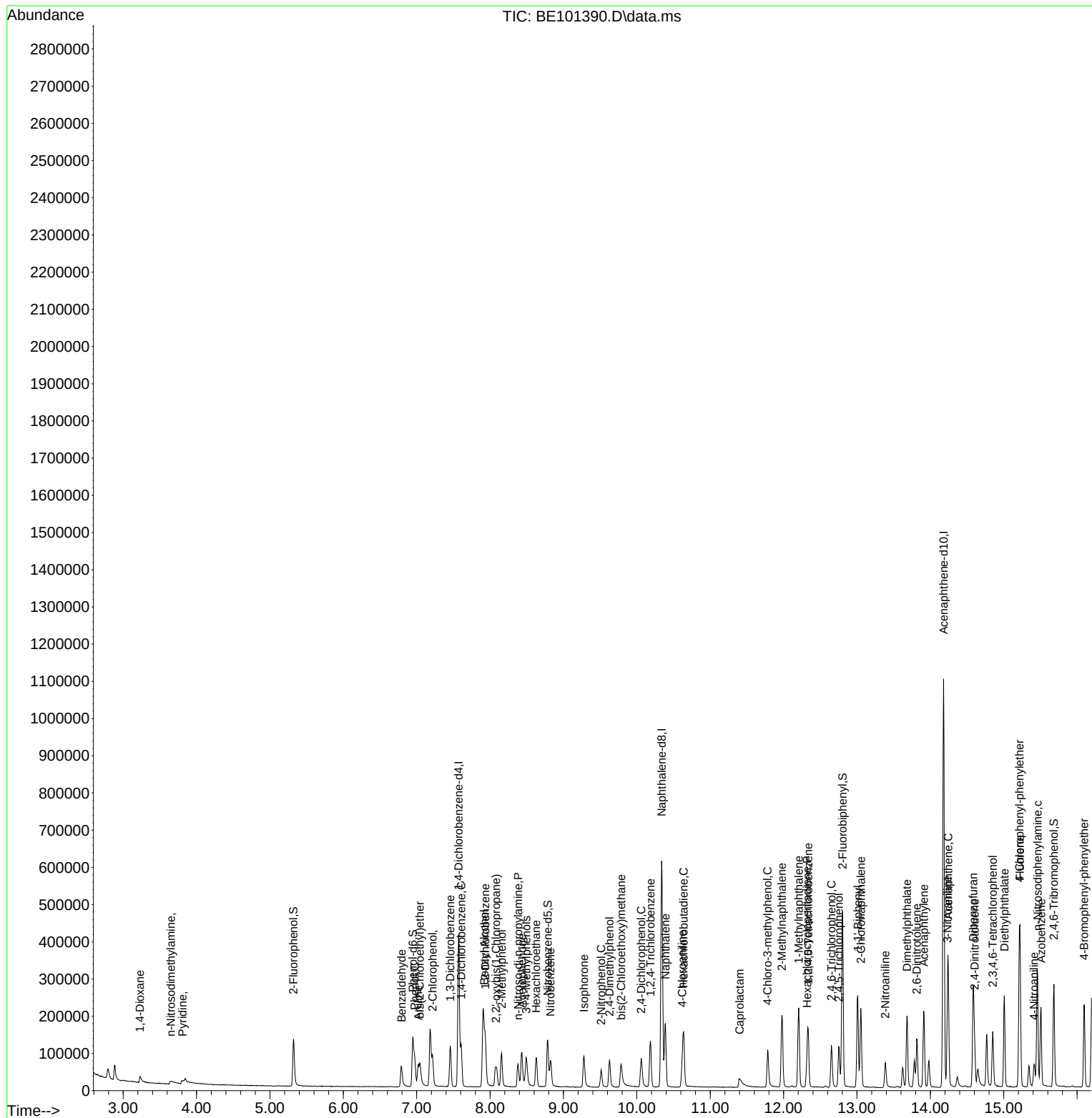
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101390.D
Acq On : 28 Oct 2024 12:23
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:06:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration



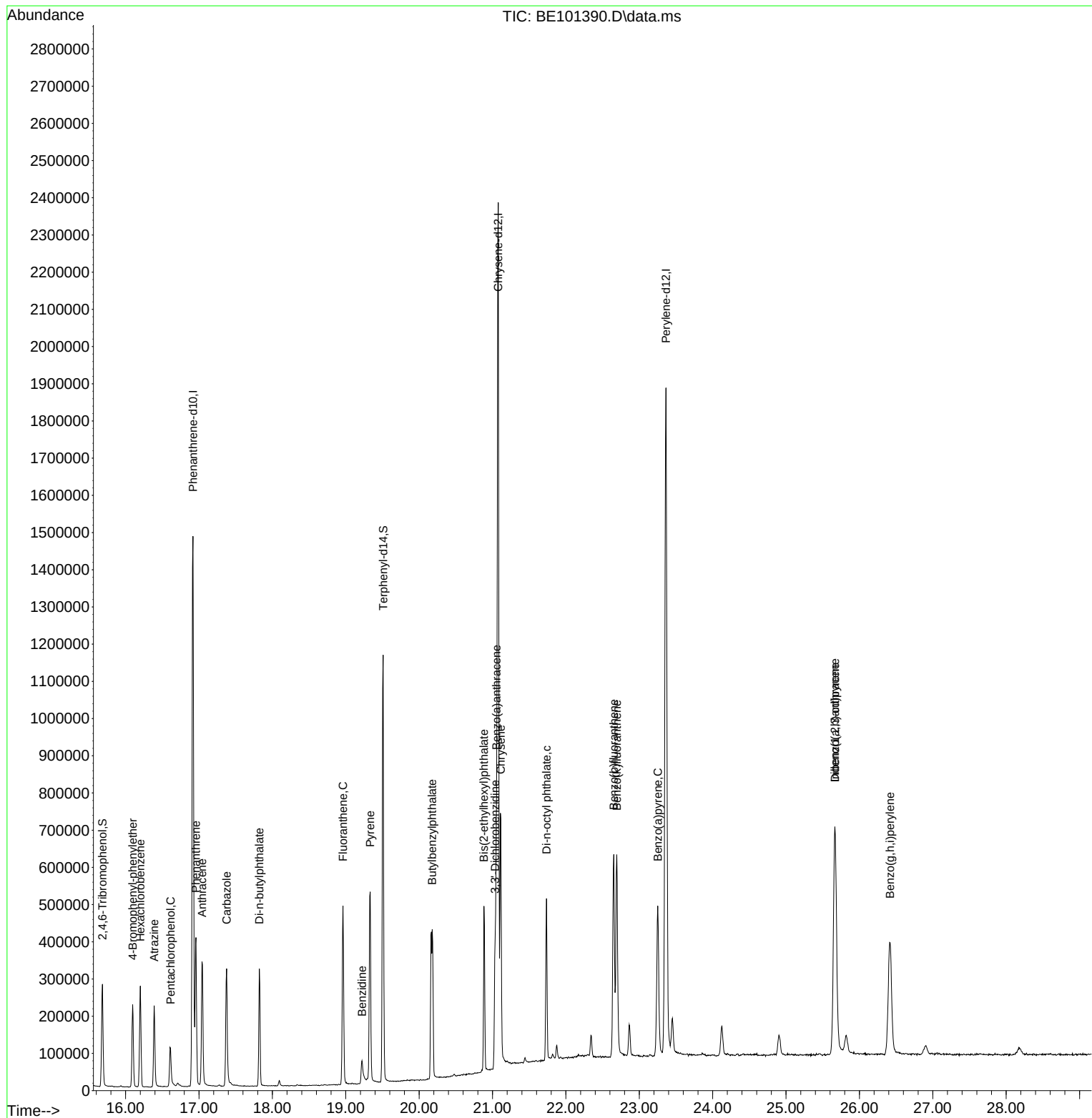
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101390.D
Acq On : 28 Oct 2024 12:23
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:06:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101391.D
 Acq On : 28 Oct 2024 12:59
 Operator : RC/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

SSTDICC010

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/29/2024

Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:10:00 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 29 00:58:30 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.570	152	123277	20.000	ng	0.00
21) Naphthalene-d8	10.337	136	600604	20.000	ng	0.00
39) Acenaphthene-d10	14.180	164	445637	20.000	ng	0.00
64) Phenanthrene-d10	16.918	188	1029949	20.000	ng	0.00
76) Chrysene-d12	21.077	240	1164738	20.000	ng	0.00
86) Perylene-d12	23.363	264	1469277	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.319	112	132247	18.802	ng	0.00
7) Phenol-d6	6.947	99	181772	18.638	ng	0.00
23) Nitrobenzene-d5	8.780	82	183858	19.227	ng	0.00
42) 2,4,6-Tribromophenol	15.684	330	151975	19.458	ng	0.00
45) 2-Fluorobiphenyl	12.799	172	568053	21.587	ng	0.00
79) Terphenyl-d14	19.509	244	1191096	23.536	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.222	88	28561	10.887	ng	98
3) Pyridine	3.739	79	69241m	9.353	ng	
4) n-Nitrosodimethylamine	3.610	42	27118m	9.581	ng	
6) Aniline	7.017	93	77784	10.405	ng	99
8) 2-Chlorophenol	7.217	128	80429	9.534	ng	99
9) Benzaldehyde	6.788	77	52324	11.114	ng	99
10) Phenol	6.970	94	89765	8.483	ng	99
11) bis(2-Chloroethyl)ether	7.041	93	86381m	10.109	ng	
12) 1,3-Dichlorobenzene	7.458	146	93874	10.320	ng	99
13) 1,4-Dichlorobenzene	7.605	146	94575	10.181	ng	99
14) 1,2-Dichlorobenzene	7.934	146	91740	10.089	ng	99
15) Benzyl Alcohol	7.916	79	49118	8.449	ng	97
16) 2,2'-oxybis(1-Chloropr...	8.081	45	114453	10.477	ng	99
17) 2-Methylphenol	8.157	107	66460	9.279	ng	99
18) Hexachloroethane	8.627	117	29936	9.868	ng	99
19) n-Nitroso-di-n-propyla...	8.375	70	65315	10.092	ng	99
20) 3+4-Methylphenols	8.492	107	92464	9.353	ng	96
22) Acetophenone	8.427	105	134367	9.853	ng	# 100
24) Nitrobenzene	8.821	77	97575	9.587	ng	96
25) Isophorone	9.274	82	180427	9.669	ng	98
26) 2-Nitrophenol	9.509	139	42252	8.589	ng	98
27) 2,4-Dimethylphenol	9.626	122	58143	9.393	ng	98
28) bis(2-Chloroethoxy)met...	9.779	93	113421	10.023	ng	99
29) 2,4-Dichlorophenol	10.061	162	80383	9.387	ng	99
30) 1,2,4-Trichlorobenzene	10.184	180	93335	10.005	ng	98
31) Naphthalene	10.384	128	312450	10.209	ng	99
32) Benzoic acid	9.820	122	27408m	11.778	ng	
33) 4-Chloroaniline	10.619	127	106690	10.025	ng	98
34) Hexachlorobutadiene	10.637	225	55578	10.065	ng	99
35) Caprolactam	11.383	113	28073m	8.572	ng	
36) 4-Chloro-3-methylphenol	11.782	107	94327	9.674	ng	99
37) 2-Methylnaphthalene	11.976	142	225679	10.235	ng	99
38) 1-Methylnaphthalene	12.205	142	226894	10.310	ng	98
40) 1,2,4,5-Tetrachloroben...	12.335	216	109938	9.827	ng	99
41) Hexachlorocyclopentadiene	12.317	237	33340	9.024	ng	99
43) 2,4,6-Trichlorophenol	12.652	196	72470	9.397	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101391.D
 Acq On : 28 Oct 2024 12:59
 Operator : RC/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

SSTDICC010

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/29/2024

Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:10:00 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 29 00:58:30 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.752	196	82802	9.376	ng	94
46) 1,1'-Biphenyl	13.004	154	311640	10.207	ng	99
47) 2-Chloronaphthalene	13.051	162	243180	10.081	ng	99
48) 2-Nitroaniline	13.386	65	54215	8.352	ng	95
49) Acenaphthylene	13.909	152	357701	10.028	ng	99
50) Dimethylphthalate	13.680	163	327215	10.402	ng	100
51) 2,6-Dinitrotoluene	13.821	165	68910	9.489	ng	99
52) Acenaphthene	14.244	154	240629	10.331	ng	99
53) 3-Nitroaniline	14.227	138	65845	9.118	ng	95
54) 2,4-Dinitrophenol	14.362	184	27748	10.616	ng	95
55) Dibenzofuran	14.585	168	387518	10.438	ng	96
56) 4-Nitrophenol	14.644	139	48868	7.389	ng	98
57) 2,4-Dinitrotoluene	14.603	165	90704	9.072	ng	91
58) Fluorene	15.225	166	323084	10.403	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.849	232	79118	9.696	ng	98
60) Diethylphthalate	15.008	149	341401	10.376	ng	97
61) 4-Chlorophenyl-phenyle...	15.208	204	158792	10.303	ng	99
62) 4-Nitroaniline	15.413	138	70324	8.751	ng	100
63) Azobenzene	15.507	77	291559	10.309	ng	99
65) 4,6-Dinitro-2-methylph...	15.343	198	44302	7.320	ng	97
66) n-Nitrosodiphenylamine	15.460	169	281980	10.324	ng	99
67) 4-Bromophenyl-phenylether	16.101	248	106361	9.817	ng	96
68) Hexachlorobenzene	16.201	284	140149	9.869	ng	99
69) Atrazine	16.389	200	92105	10.999	ng	99
70) Pentachlorophenol	16.606	266	70444	8.618	ng	99
71) Phenanthrene	16.959	178	526649	10.680	ng	97
72) Anthracene	17.041	178	500622	10.397	ng	98
73) Carbazole	17.376	167	508330	10.318	ng	97
74) Di-n-butylphthalate	17.822	149	560519	10.334	ng	97
75) Fluoranthene	18.962	202	652809	10.899	ng	95
77) Benzidine	19.221	184	166063	11.234	ng	100
78) Pyrene	19.332	202	702205	10.963	ng	95
80) Butylbenzylphthalate	20.184	149	272190	9.694	ng	99
81) Benzo(a)anthracene	21.054	228	721011	11.014	ng	95
82) 3,3'-Dichlorobenzidine	21.036	252	255324	9.956	ng	97
83) Chrysene	21.113	228	713680	11.275	ng	93
84) Bis(2-ethylhexyl)phtha...	20.889	149	354141	9.494	ng	96
85) Di-n-octyl phthalate	21.735	149	615621	10.055	ng	100
87) Indeno(1,2,3-cd)pyrene	25.672	276	993383	10.102	ng	99
88) Benzo(b)fluoranthene	22.652	252	817483	10.676	ng	97
89) Benzo(k)fluoranthene	22.693	252	765639	10.700	ng	96
90) Benzo(a)pyrene	23.251	252	685242	10.233	ng	98
91) Dibenzo(a,h)anthracene	25.672	278	826199	10.169	ng	98
92) Benzo(g,h,i)perylene	26.424	276	830134	9.916	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101391.D
 Acq On : 28 Oct 2024 12:59
 Operator : RC/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

SSTDICC010

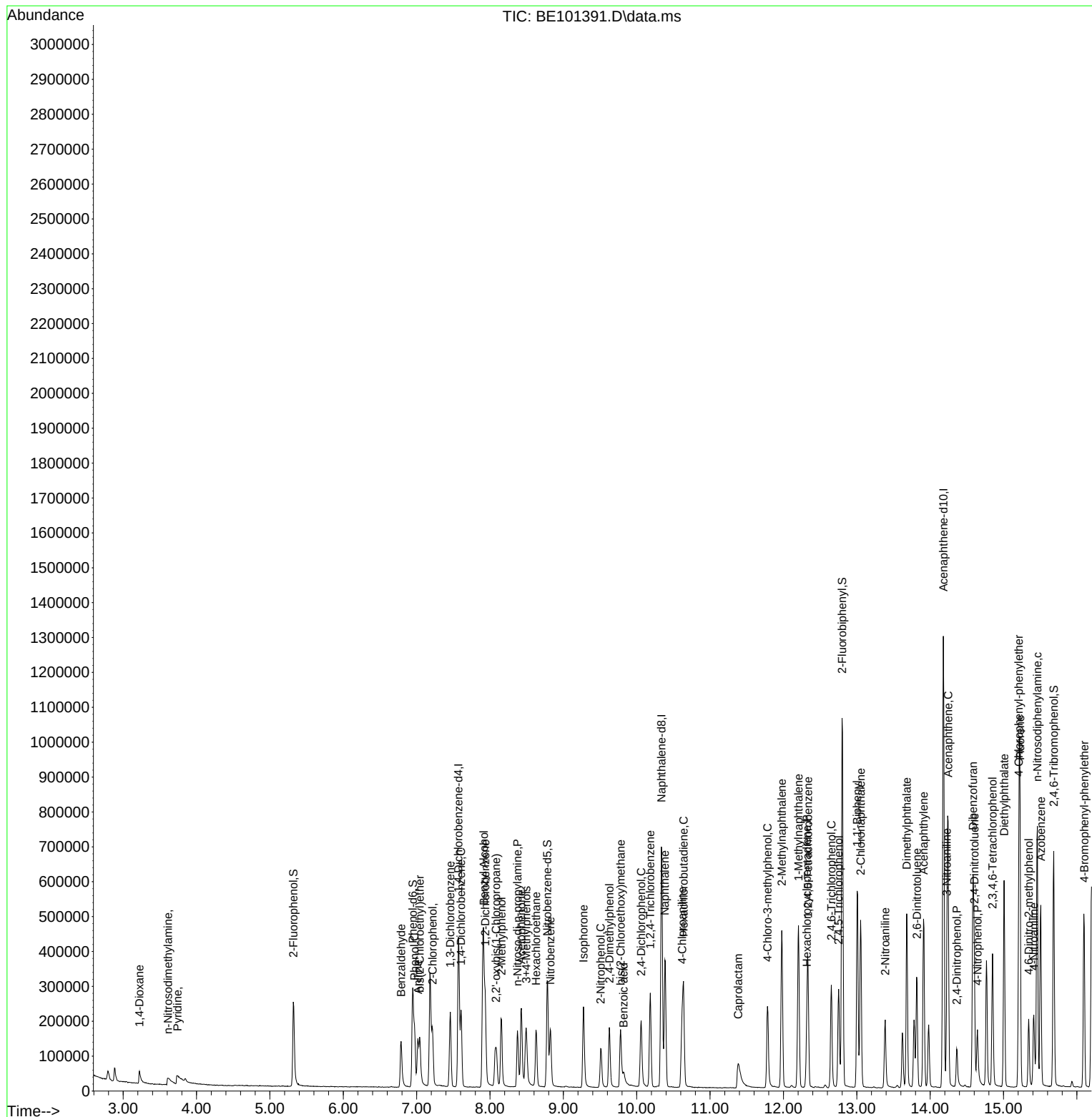
Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/29/2024

Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:10:00 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 29 00:58:30 2024
 Response via : Initial Calibration



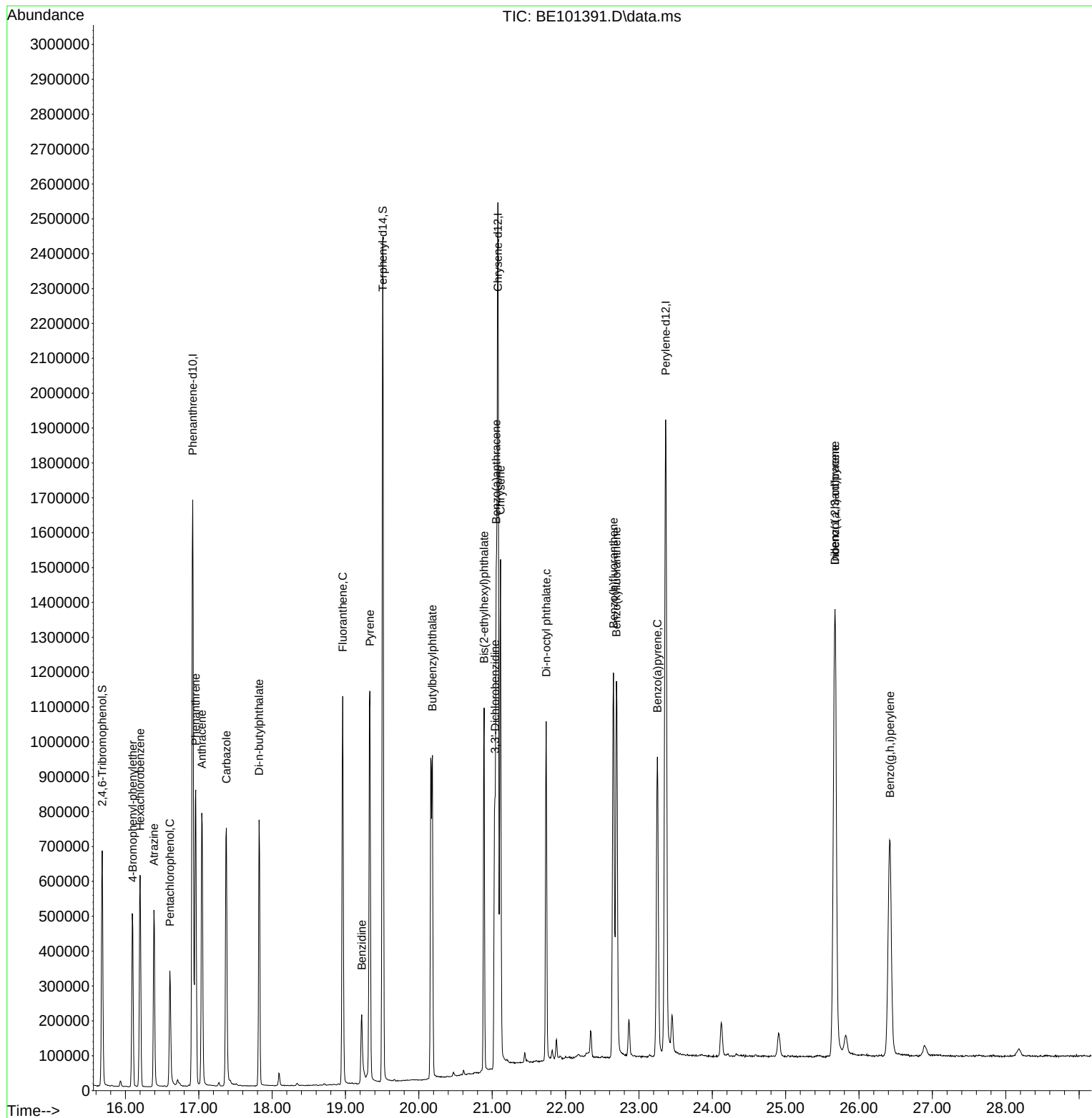
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101391.D
Acq On : 28 Oct 2024 12:59
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC010

Quant Time: Oct 29 01:10:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101392.D
 Acq On : 28 Oct 2024 13:35
 Operator : RC/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

SSTDICC020

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/29/2024

Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:12:53 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 29 00:58:30 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.570	152	145458	20.000	ng	0.00
21) Naphthalene-d8	10.337	136	690816	20.000	ng	0.00
39) Acenaphthene-d10	14.180	164	479983	20.000	ng	0.00
64) Phenanthrene-d10	16.918	188	1115787	20.000	ng	0.00
76) Chrysene-d12	21.077	240	1323325	20.000	ng	0.00
86) Perylene-d12	23.363	264	1671032	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.319	112	332292	40.039	ng	0.00
7) Phenol-d6	6.947	99	453347	39.395	ng	0.00
23) Nitrobenzene-d5	8.780	82	449694	40.886	ng	0.00
42) 2,4,6-Tribromophenol	15.684	330	343535	40.836	ng	0.00
45) 2-Fluorobiphenyl	12.805	172	1231577	43.454	ng	0.00
79) Terphenyl-d14	19.509	244	2568344	44.669	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.210	88	66062	21.342	ng	99
3) Pyridine	3.668	79	182576m	20.901	ng	
4) n-Nitrosodimethylamine	3.574	42	66090	19.790	ng	95
6) Aniline	7.011	93	222406	25.214	ng	99
8) 2-Chlorophenol	7.211	128	199440	20.036	ng	97
9) Benzaldehyde	6.782	77	125233	22.543	ng	98
10) Phenol	6.970	94	256916	20.576	ng	99
11) bis(2-Chloroethyl)ether	7.041	93	181038m	17.956	ng	
12) 1,3-Dichlorobenzene	7.458	146	219349	20.436	ng	99
13) 1,4-Dichlorobenzene	7.605	146	224941	20.522	ng	99
14) 1,2-Dichlorobenzene	7.934	146	218470	20.363	ng	99
15) Benzyl Alcohol	7.910	79	142372	20.755	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.081	45	264164	20.493	ng	99
17) 2-Methylphenol	8.151	107	166175	19.664	ng	99
18) Hexachloroethane	8.627	117	71637	20.014	ng	99
19) n-Nitroso-di-n-propyla...	8.375	70	157181	20.583	ng	97
20) 3+4-Methylphenols	8.492	107	229815	19.701	ng	99
22) Acetophenone	8.422	105	322339	20.550	ng	# 99
24) Nitrobenzene	8.821	77	241129	20.598	ng	99
25) Isophorone	9.274	82	431209	20.091	ng	99
26) 2-Nitrophenol	9.509	139	111783	19.757	ng	98
27) 2,4-Dimethylphenol	9.626	122	142884	20.069	ng	98
28) bis(2-Chloroethoxy)met...	9.779	93	268211	20.606	ng	99
29) 2,4-Dichlorophenol	10.055	162	196882	19.989	ng	98
30) 1,2,4-Trichlorobenzene	10.184	180	217666	20.286	ng	100
31) Naphthalene	10.384	128	718052	20.397	ng	100
32) Benzoic acid	9.855	122	100073	19.536	ng	98
33) 4-Chloroaniline	10.613	127	257549	21.039	ng	99
34) Hexachlorobutadiene	10.637	225	129221	20.346	ng	98
35) Caprolactam	11.377	113	75252	19.977	ng	99
36) 4-Chloro-3-methylphenol	11.782	107	221443	19.746	ng	99
37) 2-Methylnaphthalene	11.976	142	508710	20.058	ng	99
38) 1-Methylnaphthalene	12.205	142	507973	20.068	ng	100
40) 1,2,4,5-Tetrachloroben...	12.335	216	247246	20.520	ng	99
41) Hexachlorocyclopentadiene	12.317	237	85787	21.558	ng	98
43) 2,4,6-Trichlorophenol	12.652	196	168870	20.330	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101392.D
 Acq On : 28 Oct 2024 13:35
 Operator : RC/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

SSTDICC020

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/29/2024

Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:12:53 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 29 00:58:30 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.752	196	192619	20.249	ng	98
46) 1,1'-Biphenyl	13.010	154	686936	20.889	ng	99
47) 2-Chloronaphthalene	13.051	162	533907	20.550	ng	99
48) 2-Nitroaniline	13.386	65	141408	20.225	ng	98
49) Acenaphthylene	13.909	152	794820	20.687	ng	99
50) Dimethylphthalate	13.686	163	700286	20.669	ng	98
51) 2,6-Dinitrotoluene	13.821	165	158798	20.301	ng	100
52) Acenaphthene	14.244	154	514942	20.525	ng	99
53) 3-Nitroaniline	14.227	138	164280	21.121	ng	98
54) 2,4-Dinitrophenol	14.362	184	84815	19.805	ng	96
55) Dibenzofuran	14.585	168	826067	20.659	ng	99
56) 4-Nitrophenol	14.644	139	139762	19.622	ng	99
57) 2,4-Dinitrotoluene	14.603	165	217872	20.231	ng	95
58) Fluorene	15.225	166	694099	20.750	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.849	232	176736	20.109	ng	100
60) Diethylphthalate	15.008	149	748812	21.130	ng	98
61) 4-Chlorophenyl-phenyle...	15.214	204	338586	20.398	ng	98
62) 4-Nitroaniline	15.413	138	179670	20.759	ng	99
63) Azobenzene	15.507	77	638899	20.974	ng	99
65) 4,6-Dinitro-2-methylph...	15.343	198	120025	18.306	ng	95
66) n-Nitrosodiphenylamine	15.460	169	608131	20.552	ng	99
67) 4-Bromophenyl-phenylether	16.095	248	233542	19.898	ng	99
68) Hexachlorobenzene	16.201	284	305632	19.866	ng	99
69) Atrazine	16.395	200	178560	19.684	ng	99
70) Pentachlorophenol	16.606	266	177362	20.028	ng	98
71) Phenanthrene	16.959	178	1129442	21.142	ng	98
72) Anthracene	17.047	178	1112275	21.323	ng	97
73) Carbazole	17.376	167	1152191	21.587	ng	97
74) Di-n-butylphthalate	17.822	149	1361839	23.177	ng	98
75) Fluoranthene	18.962	202	1457689	22.465	ng	96
77) Benzidine	19.221	184	334865	19.938	ng	100
78) Pyrene	19.332	202	1566914	21.532	ng	96
80) Butylbenzylphthalate	20.184	149	682078	21.380	ng	99
81) Benzo(a)anthracene	21.054	228	1645151	22.118	ng	97
82) 3,3'-Dichlorobenzidine	21.036	252	621432	21.328	ng	100
83) Chrysene	21.113	228	1589960	22.109	ng	95
84) Bis(2-ethylhexyl)phtha...	20.883	149	933369	22.023	ng	# 97
85) Di-n-octyl phthalate	21.735	149	1600302	23.006	ng	99
87) Indeno(1,2,3-cd)pyrene	25.684	276	2323311	20.775	ng	99
88) Benzo(b)fluoranthene	22.652	252	1838727	21.114	ng	98
89) Benzo(k)fluoranthene	22.699	252	1816446	22.320	ng	97
90) Benzo(a)pyrene	23.251	252	1606453	21.093	ng	99
91) Dibenzo(a,h)anthracene	25.678	278	1953695	21.142	ng	98
92) Benzo(g,h,i)perylene	26.430	276	1930120	20.272	ng	99

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

Instrument :
BNA_E
ClientSampleId :
SSTDICC020

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Abundance

TIC: BE101392.D\data.ms

Time-->

1,4-Dioxane

N,N-dimethylamine,

Pyridine,

2-Fluorophenol,S

Benzaldehyde

2-Chlorophenol,

1,3-Dichlorobenzene

1,4-Dichlorobenzene

1,2-Dichlorobenzene

2,2'-oxybis(4-chloropropane)

n-Nitrosodimethylamine,P

3,4-Dimethylphenol

Hexachloroethane

Nitrobenzene

Nitrobenzene-d5,S

Isophorone

2-Nitrophenol,C

2,4-Dimethylphenol

Benzoic acid

2,4-Dichlorophenol,C

1,2,4-Trichlorobenzene

1,3,5-Trichlorobenzene

4-Chloro-3-methylphenol,C

Caprolactam

4-Chloro-3-methylphenol,C

2-Methylnaphthalene

1-Methylnaphthalene

Hexachlorocyclopentadiene

2,4,6-Trichlorophenol,C

2,4,5-Trichlorophenol,C

2-Chloro-3-methylphenol

2-Nitroaniline

Dimethylphthalate

2,6-Dinitrophenol

2,4-Dinitrophenol

Acenaphthylene

Acenaphthene

2,4-Dinitrophenol,P

4-Nitrophenol,P

2,3,4,6-Tetrachlorophenol

Diethylphthalate

Fluorene

4-Chlorophenyl-phenylether

n-Nitrosodimethylamine,c

Azobenzene

2,4,6-Tribromophenol,S

4-Bromophenyl-phenylether

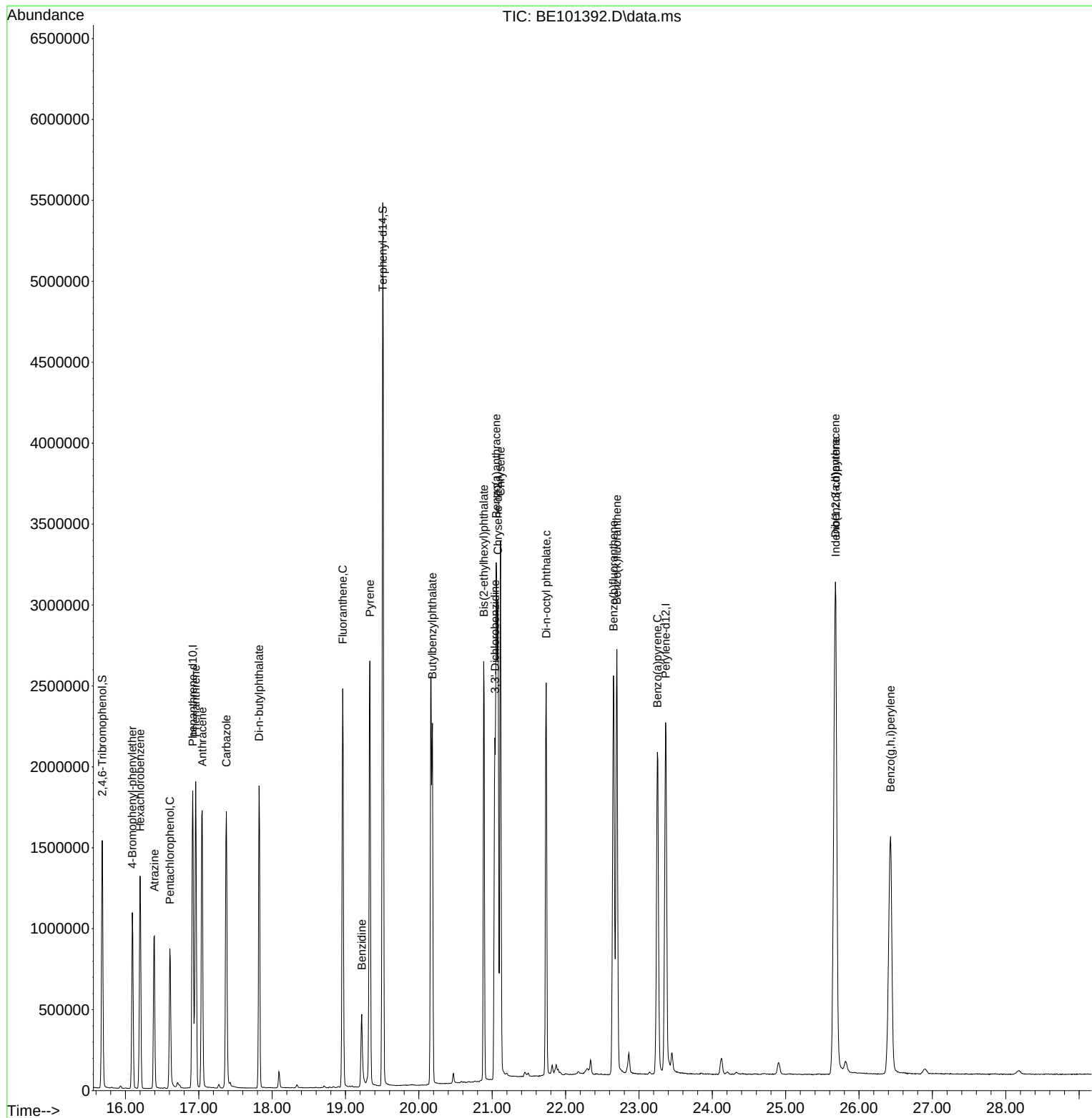
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101392.D
Acq On : 28 Oct 2024 13:35
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:12:53 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101393.D
 Acq On : 28 Oct 2024 14:11
 Operator : RC/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICCC040

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/29/2024
 Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:15:29 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 29 00:58:30 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.570	152	140927	20.000	ng	0.00
21) Naphthalene-d8	10.338	136	679661	20.000	ng	0.00
39) Acenaphthene-d10	14.180	164	489939	20.000	ng	0.00
64) Phenanthrene-d10	16.918	188	1121583	20.000	ng	0.00
76) Chrysene-d12	21.078	240	1213932	20.000	ng	0.00
86) Perylene-d12	23.364	264	1508729	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.320	112	650130	80.855	ng	0.00
7) Phenol-d6	6.948	99	918108	82.347	ng	0.00
23) Nitrobenzene-d5	8.787	82	912254	84.304	ng	0.00
42) 2,4,6-Tribromophenol	15.690	330	716957	83.493	ng	0.00
45) 2-Fluorobiphenyl	12.806	172	2403552	83.082	ng	0.00
79) Terphenyl-d14	19.515	244	4083553	77.422	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.205	88	118661	39.567	ng	100
3) Pyridine	3.640	79	337051m	39.826	ng	
4) n-Nitrosodimethylamine	3.558	42	134976	41.716	ng	100
6) Aniline	7.012	93	379442	44.400	ng	100
8) 2-Chlorophenol	7.218	128	395579	41.018	ng	100
9) Benzaldehyde	6.783	77	227485	42.266	ng	100
10) Phenol	6.971	94	514695	42.547	ng	100
11) bis(2-Chloroethyl)ether	7.042	93	416211m	42.609	ng	
12) 1,3-Dichlorobenzene	7.459	146	419357	40.326	ng	100
13) 1,4-Dichlorobenzene	7.606	146	424205	39.946	ng	100
14) 1,2-Dichlorobenzene	7.935	146	420089	40.414	ng	100
15) Benzyl Alcohol	7.911	79	298943	44.982	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.082	45	505709	40.493	ng	100
17) 2-Methylphenol	8.152	107	342890	41.880	ng	100
18) Hexachloroethane	8.628	117	140004	40.371	ng	100
19) n-Nitroso-di-n-propyla...	8.375	70	324267	43.828	ng	100
20) 3+4-Methylphenols	8.493	107	474897	42.020	ng	100
22) Acetophenone	8.422	105	653526	42.348	ng	# 100
24) Nitrobenzene	8.822	77	482597	41.902	ng	100
25) Isophorone	9.274	82	904319	42.826	ng	100
26) 2-Nitrophenol	9.509	139	243096	43.670	ng	100
27) 2,4-Dimethylphenol	9.627	122	292733	41.791	ng	100
28) bis(2-Chloroethoxy)met...	9.774	93	532628	41.593	ng	100
29) 2,4-Dichlorophenol	10.062	162	404330	41.724	ng	100
30) 1,2,4-Trichlorobenzene	10.185	180	426450	40.396	ng	100
31) Naphthalene	10.391	128	1420283	41.007	ng	100
32) Benzoic acid	9.891	122	266609	38.880	ng	100
33) 4-Chloroaniline	10.614	127	540332	44.864	ng	100
34) Hexachlorobutadiene	10.637	225	254804	40.777	ng	100
35) Caprolactam	11.395	113	161584	43.600	ng	100
36) 4-Chloro-3-methylphenol	11.789	107	463319	41.991	ng	100
37) 2-Methylnaphthalene	11.977	142	1027397	41.174	ng	100
38) 1-Methylnaphthalene	12.206	142	1021245	41.008	ng	100
40) 1,2,4,5-Tetrachloroben...	12.335	216	501796	40.799	ng	100
41) Hexachlorocyclopentadiene	12.318	237	173373	42.682	ng	100
43) 2,4,6-Trichlorophenol	12.653	196	361676	42.656	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101393.D
 Acq On : 28 Oct 2024 14:11
 Operator : RC/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICCC040

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/29/2024
 Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:15:29 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 29 00:58:30 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.753	196	406209	41.835	ng	100
46) 1,1'-Biphenyl	13.011	154	1379396	41.094	ng	100
47) 2-Chloronaphthalene	13.058	162	1076232	40.583	ng	100
48) 2-Nitroaniline	13.387	65	311763	43.683	ng	100
49) Acenaphthylene	13.916	152	1642781	41.889	ng	100
50) Dimethylphthalate	13.687	163	1420279	41.068	ng	100
51) 2,6-Dinitrotoluene	13.822	165	338334	42.374	ng	100
52) Acenaphthene	14.245	154	1053741	41.148	ng	100
53) 3-Nitroaniline	14.233	138	349479	44.018	ng	100
54) 2,4-Dinitrophenol	14.368	184	203414	38.955	ng	100
55) Dibenzofuran	14.586	168	1660539	40.683	ng	100
56) 4-Nitrophenol	14.650	139	305078	41.960	ng	100
57) 2,4-Dinitrotoluene	14.609	165	471064	42.854	ng	100
58) Fluorene	15.226	166	1424112	41.708	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.856	232	373847	41.672	ng	100
60) Diethylphthalate	15.015	149	1504066	41.579	ng	100
61) 4-Chlorophenyl-phenyle...	15.214	204	692996	40.900	ng	100
62) 4-Nitroaniline	15.420	138	383097	43.363	ng	100
63) Azobenzene	15.508	77	1292104	41.556	ng	100
65) 4,6-Dinitro-2-methylph...	15.350	198	276529	41.958	ng	100
66) n-Nitrosodiphenylamine	15.461	169	1239699	41.680	ng	100
67) 4-Bromophenyl-phenylether	16.096	248	481170	40.783	ng	100
68) Hexachlorobenzene	16.202	284	634376	41.021	ng	100
69) Atrazine	16.395	200	412016	45.184	ng	100
70) Pentachlorophenol	16.613	266	387503	43.532	ng	100
71) Phenanthrene	16.959	178	2223827	41.412	ng	100
72) Anthracene	17.048	178	2195533	41.871	ng	100
73) Carbazole	17.377	167	2231136	41.586	ng	100
74) Di-n-butylphthalate	17.823	149	2547547	43.131	ng	100
75) Fluoranthene	18.963	202	2689073	41.229	ng	100
77) Benzidine	19.222	184	841414	54.613	ng	100
78) Pyrene	19.333	202	2851171	42.710	ng	100
80) Butylbenzylphthalate	20.185	149	1239396	42.350	ng	100
81) Benzo(a)anthracene	21.061	228	2850546	41.778	ng	100
82) 3,3'-Dichlorobenzidine	21.037	252	1167475	43.680	ng	100
83) Chrysene	21.113	228	2694174	40.839	ng	100
84) Bis(2-ethylhexyl)phtha...	20.890	149	1695435	43.609	ng	100
85) Di-n-octyl phthalate	21.736	149	2761437	43.276	ng	100
87) Indeno(1,2,3-cd)pyrene	25.696	276	4204842	41.644	ng	100
88) Benzo(b)fluoranthene	22.659	252	3350839	42.618	ng	100
89) Benzo(k)fluoranthene	22.706	252	3062296	41.677	ng	100
90) Benzo(a)pyrene	23.258	252	2913742	42.374	ng	100
91) Dibenzo(a,h)anthracene	25.690	278	3529480	42.304	ng	100
92) Benzo(g,h,i)perylene	26.442	276	3556297	41.369	ng	100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101393.D
 Acq On : 28 Oct 2024 14:11
 Operator : RC/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

SSTDICCC040

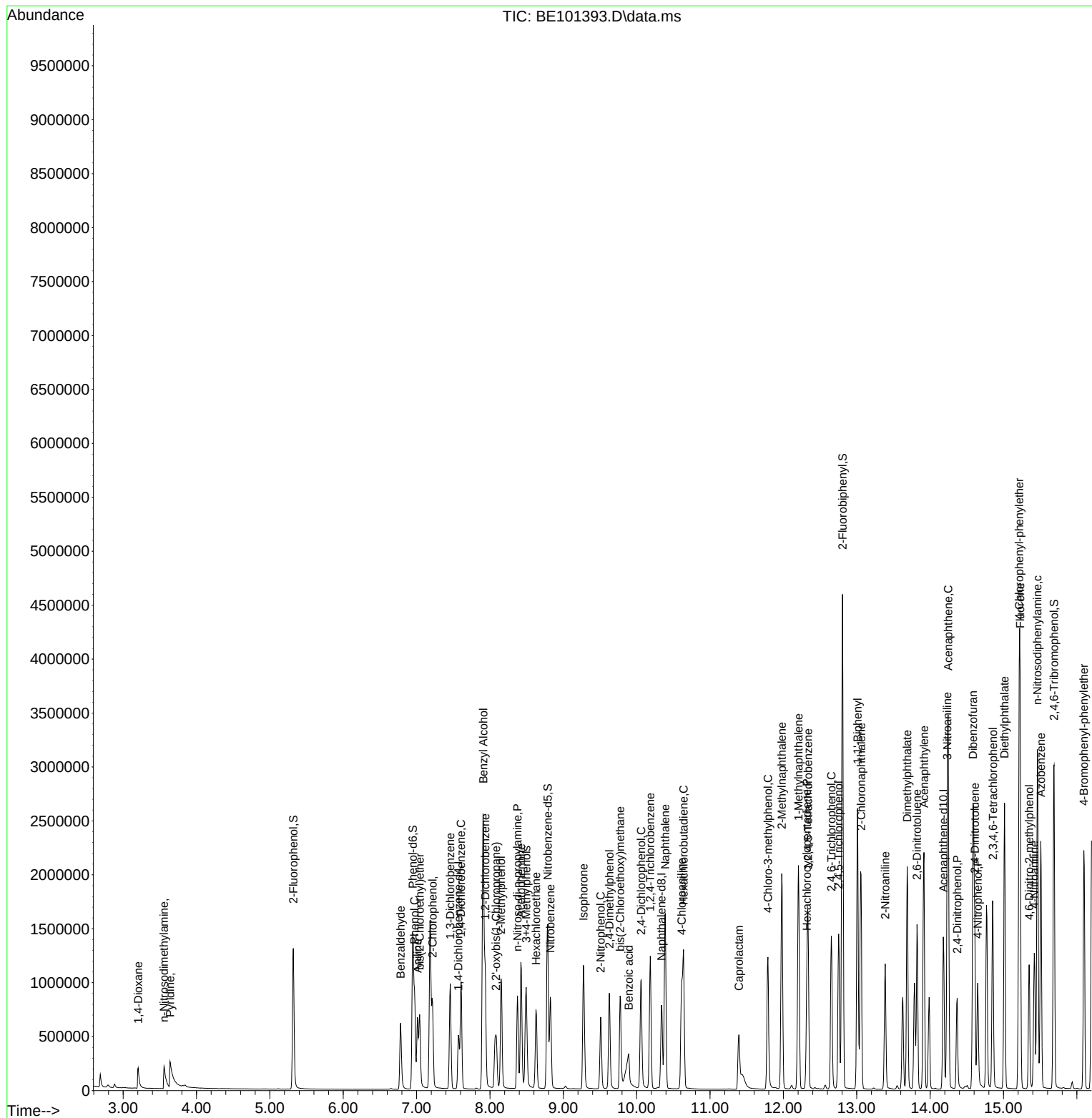
Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/29/2024

Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:15:29 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 29 00:58:30 2024
 Response via : Initial Calibration



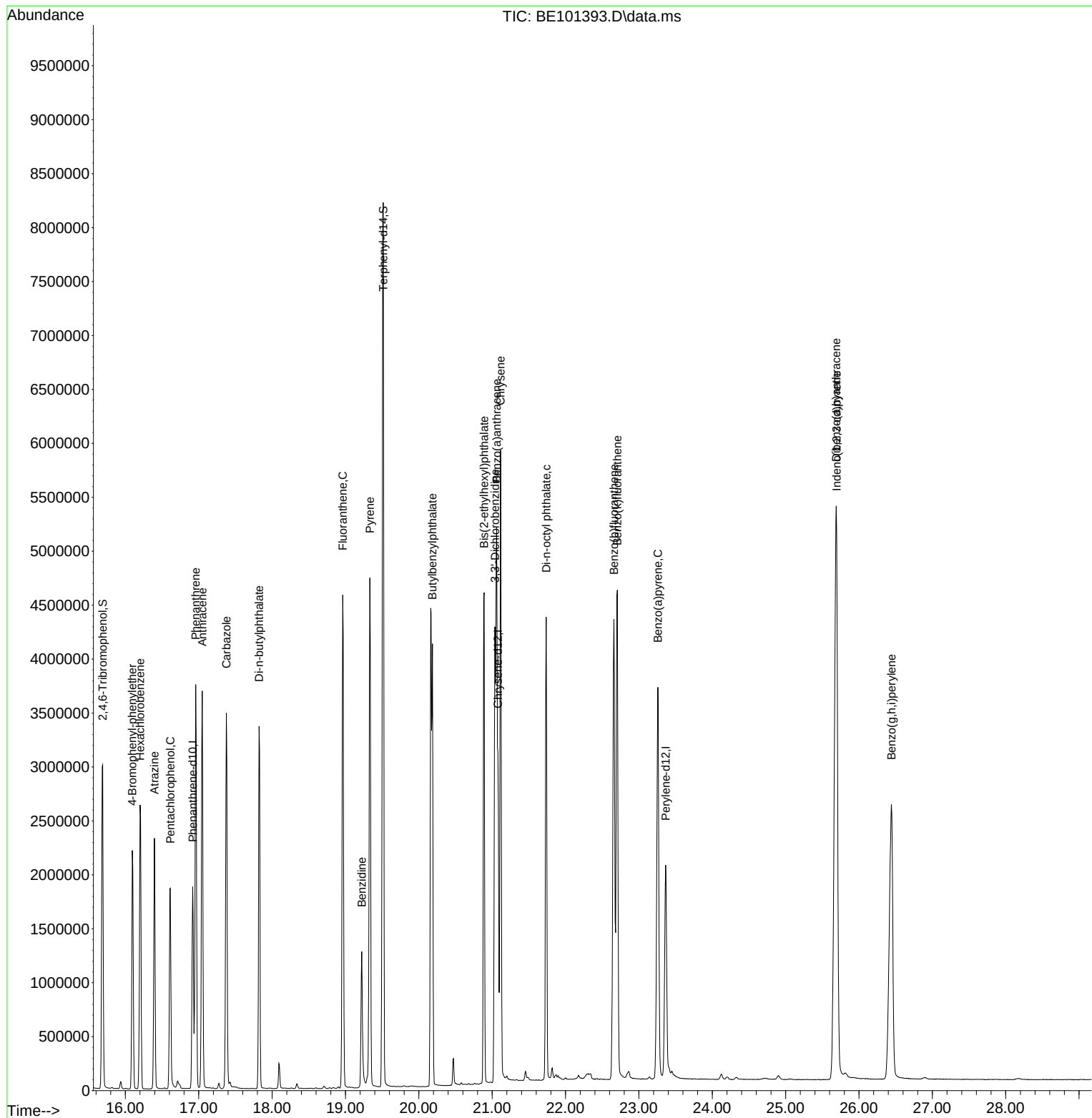
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101393.D
Acq On : 28 Oct 2024 14:11
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:15:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101394.D
 Acq On : 28 Oct 2024 14:49
 Operator : RC/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

SSTDICC050

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/29/2024

Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:17:21 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 29 00:58:30 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.570	152	165364	20.000	ng	0.00
21) Naphthalene-d8	10.343	136	801441	20.000	ng	0.00
39) Acenaphthene-d10	14.186	164	574825	20.000	ng	0.00
64) Phenanthrene-d10	16.918	188	1335462	20.000	ng	0.00
76) Chrysene-d12	21.083	240	1465052	20.000	ng	0.00
86) Perylene-d12	23.369	264	1864446	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.320	112	945317	100.193	ng	0.00
7) Phenol-d6	6.953	99	1318040	100.748	ng	0.00
23) Nitrobenzene-d5	8.786	82	1293125	101.343	ng	0.00
42) 2,4,6-Tribromophenol	15.690	330	1019729	101.216	ng	0.00
45) 2-Fluorobiphenyl	12.805	172	3200754	94.300	ng	0.00
79) Terphenyl-d14	19.515	244	5028542	78.997	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.198	88	165210	46.948	ng	99
3) Pyridine	3.633	79	517567m	52.118	ng	
4) n-Nitrosodimethylamine	3.551	42	195679	51.540	ng	97
6) Aniline	7.012	93	537724	53.623	ng	99
8) 2-Chlorophenol	7.217	128	565957	50.013	ng	99
9) Benzaldehyde	6.782	77	280236	44.373	ng	97
10) Phenol	6.976	94	743054	52.347	ng	99
11) bis(2-Chloroethyl)ether	7.041	93	546510	47.680	ng	100
12) 1,3-Dichlorobenzene	7.458	146	588809	48.254	ng	99
13) 1,4-Dichlorobenzene	7.605	146	598105	47.999	ng	99
14) 1,2-Dichlorobenzene	7.934	146	592334	48.563	ng	99
15) Benzyl Alcohol	7.911	79	418834	53.709	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.081	45	707405	48.273	ng	99
17) 2-Methylphenol	8.157	107	488237	50.820	ng	99
18) Hexachloroethane	8.627	117	204778	50.323	ng	98
19) n-Nitroso-di-n-propyla...	8.375	70	460800	53.079	ng	99
20) 3+4-Methylphenols	8.492	107	680525	51.316	ng	98
22) Acetophenone	8.428	105	899066	49.406	ng	99
24) Nitrobenzene	8.827	77	678889	49.988	ng	99
25) Isophorone	9.280	82	1279882	51.402	ng	99
26) 2-Nitrophenol	9.509	139	349958	53.315	ng	98
27) 2,4-Dimethylphenol	9.632	122	412678	49.962	ng	99
28) bis(2-Chloroethoxy)met...	9.779	93	749624	49.643	ng	98
29) 2,4-Dichlorophenol	10.061	162	574208	50.250	ng	98
30) 1,2,4-Trichlorobenzene	10.184	180	608746	48.902	ng	98
31) Naphthalene	10.390	128	1967240	48.168	ng	100
32) Benzoic acid	9.914	122	407599	47.974	ng	98
33) 4-Chloroaniline	10.619	127	729487	51.367	ng	99
34) Hexachlorobutadiene	10.637	225	358862	48.703	ng	99
35) Caprolactam	11.406	113	236422m	54.100	ng	
36) 4-Chloro-3-methylphenol	11.788	107	661811	50.866	ng	99
37) 2-Methylnaphthalene	11.982	142	1423968	48.395	ng	100
38) 1-Methylnaphthalene	12.206	142	1420443	48.370	ng	99
40) 1,2,4,5-Tetrachloroben...	12.335	216	705872	48.917	ng	100
41) Hexachlorocyclopentadiene	12.317	237	248185	52.077	ng	99
43) 2,4,6-Trichlorophenol	12.658	196	507003	50.966	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101394.D
 Acq On : 28 Oct 2024 14:49
 Operator : RC/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

SSTDICC050

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/29/2024

Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:17:21 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 29 00:58:30 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.758	196	577861	50.725	ng	99
46) 1,1'-Biphenyl	13.011	154	1905878	48.394	ng	99
47) 2-Chloronaphthalene	13.057	162	1515183	48.698	ng	99
48) 2-Nitroaniline	13.392	65	456762	54.549	ng	97
49) Acenaphthylene	13.915	152	2279098	49.532	ng	99
50) Dimethylphthalate	13.692	163	1979816	48.794	ng	100
51) 2,6-Dinitrotoluene	13.827	165	478307	51.059	ng	98
52) Acenaphthene	14.244	154	1460597	48.613	ng	98
53) 3-Nitroaniline	14.238	138	499231	53.595	ng	100
54) 2,4-Dinitrophenol	14.368	184	315420	49.677	ng	98
55) Dibenzofuran	14.591	168	2305303	48.140	ng	99
56) 4-Nitrophenol	14.656	139	456395	53.503	ng	98
57) 2,4-Dinitrotoluene	14.609	165	689305	53.448	ng	97
58) Fluorene	15.226	166	1946144	48.580	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.855	232	527624	50.129	ng	99
60) Diethylphthalate	15.014	149	2092467	49.303	ng	99
61) 4-Chlorophenyl-phenyle...	15.214	204	970975	48.844	ng	100
62) 4-Nitroaniline	15.431	138	564289	54.440	ng	97
63) Azobenzene	15.513	77	1794055	49.178	ng	98
65) 4,6-Dinitro-2-methylph...	15.355	198	416174	53.034	ng	97
66) n-Nitrosodiphenylamine	15.466	169	1722264	48.631	ng	99
67) 4-Bromophenyl-phenylether	16.101	248	693890	49.394	ng	98
68) Hexachlorobenzene	16.207	284	904857	49.141	ng	98
69) Atrazine	16.395	200	363142	33.446	ng	100
70) Pentachlorophenol	16.612	266	573833	54.140	ng	100
71) Phenanthrene	16.965	178	3044921	47.621	ng	98
72) Anthracene	17.047	178	3034208	48.599	ng	97
73) Carbazole	17.382	167	3134249	49.063	ng	98
74) Di-n-butylphthalate	17.828	149	3532643	50.231	ng	98
75) Fluoranthene	18.968	202	3680604	47.394	ng	97
77) Benzidine	19.221	184	834538	44.882	ng	100
78) Pyrene	19.338	202	3852302	47.815	ng	95
80) Butylbenzylphthalate	20.184	149	1808983	51.218	ng	96
81) Benzo(a)anthracene	21.060	228	3835477	46.578	ng	94
82) 3,3'-Dichlorobenzidine	21.036	252	1647556	51.076	ng	99
83) Chrysene	21.119	228	3680796	46.231	ng	95
84) Bis(2-ethylhexyl)phtha...	20.890	149	2461511	52.462	ng	95
85) Di-n-octyl phthalate	21.736	149	3857877	50.096	ng	99
87) Indeno(1,2,3-cd)pyrene	25.713	276	6129290	49.122	ng	99
88) Benzo(b)fluoranthene	22.664	252	4768116	49.073	ng	97
89) Benzo(k)fluoranthene	22.711	252	4178802	46.021	ng	97
90) Benzo(a)pyrene	23.263	252	4190180	49.311	ng	98
91) Dibenzo(a,h)anthracene	25.701	278	5075435	49.227	ng	98
92) Benzo(g,h,i)perylene	26.459	276	5244934	49.372	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101394.D
 Acq On : 28 Oct 2024 14:49
 Operator : RC/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

SSTDICC050

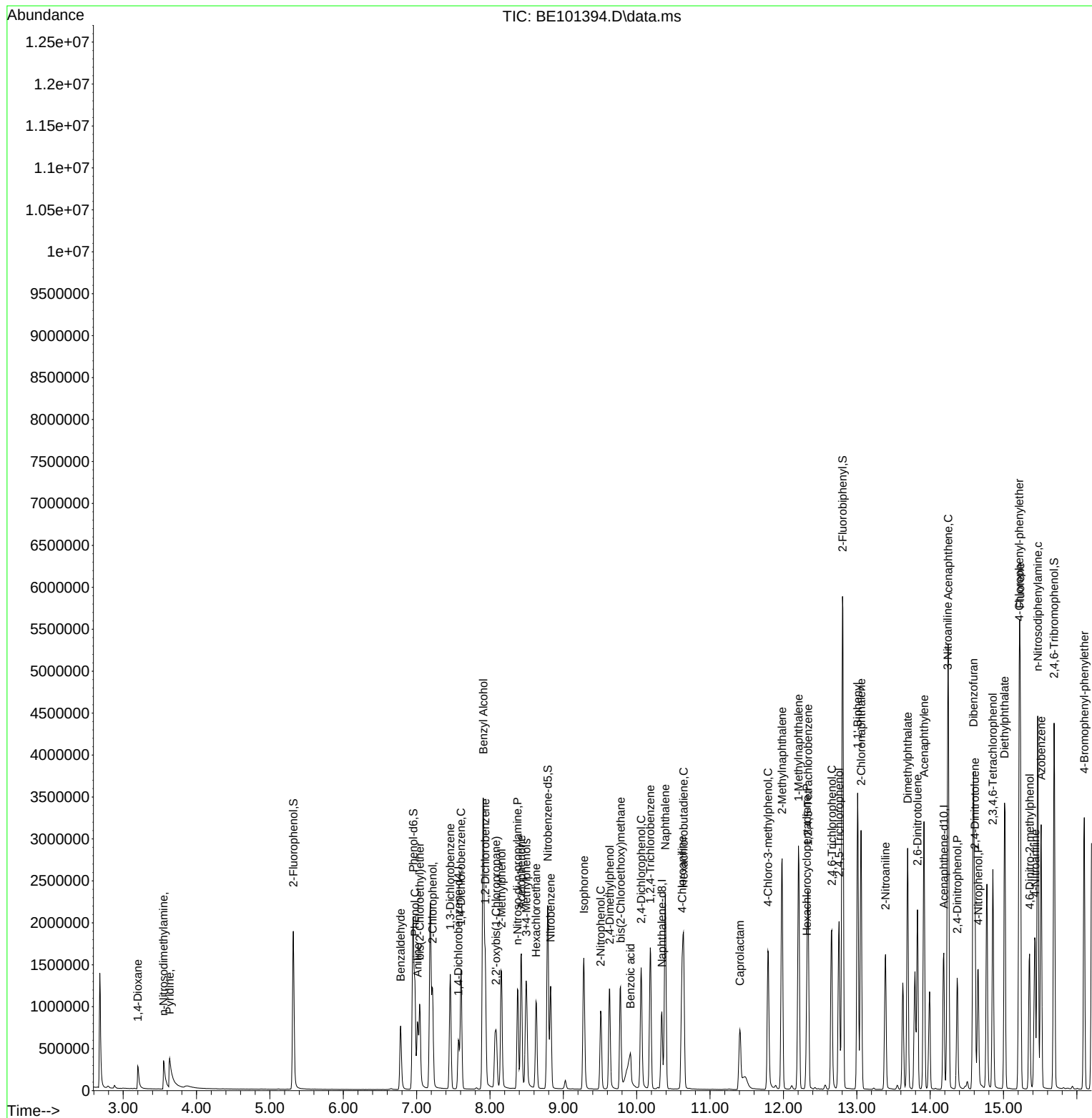
Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/29/2024

Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:17:21 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 29 00:58:30 2024
 Response via : Initial Calibration



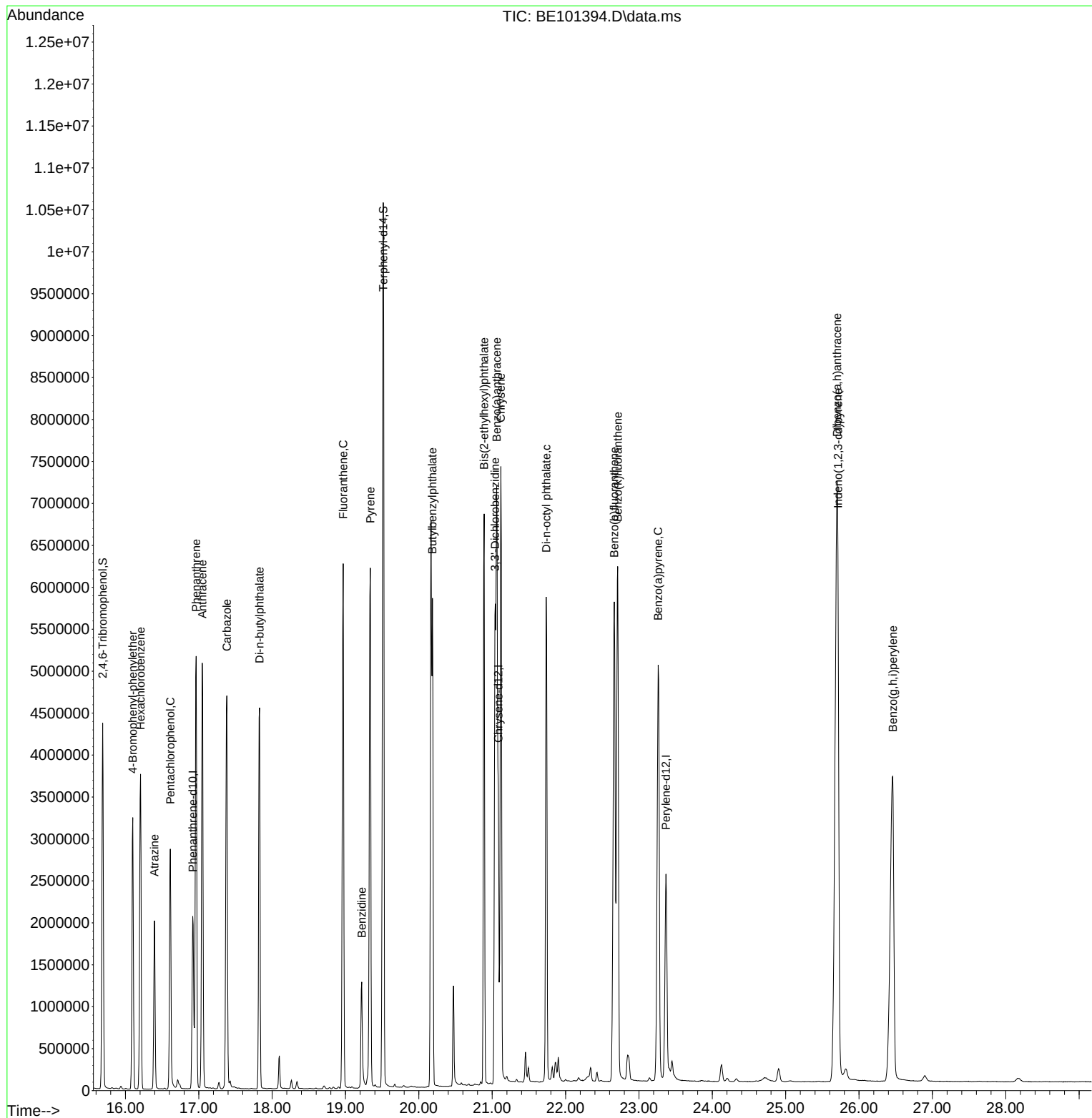
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101394.D
Acq On : 28 Oct 2024 14:49
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:17:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101395.D
 Acq On : 28 Oct 2024 15:25
 Operator : RC/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

SSTDICC060

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/29/2024

Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:19:01 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 29 00:58:30 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.571	152	163155	20.000	ng	0.00
21) Naphthalene-d8	10.344	136	809663	20.000	ng	0.00
39) Acenaphthene-d10	14.186	164	591488	20.000	ng	0.00
64) Phenanthrene-d10	16.918	188	1356495	20.000	ng	0.00
76) Chrysene-d12	21.084	240	1430165	20.000	ng	0.00
86) Perylene-d12	23.370	264	1844714	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.320	112	1161751	124.799	ng	0.00
7) Phenol-d6	6.954	99	1690863	130.995	ng	0.00
23) Nitrobenzene-d5	8.787	82	1608437	124.774	ng	0.00
42) 2,4,6-Tribromophenol	15.696	330	1274537	122.943	ng	0.00
45) 2-Fluorobiphenyl	12.811	172	3805211	108.950	ng	0.00
79) Terphenyl-d14	19.515	244	5639764	90.760	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.199	88	191626	55.192	ng	97
3) Pyridine	3.628	79	629804m	64.279	ng	
4) n-Nitrosodimethylamine	3.552	42	238643	63.708	ng	100
6) Aniline	7.012	93	599193	60.562	ng	97
8) 2-Chlorophenol	7.218	128	697895	62.507	ng	99
9) Benzaldehyde	6.777	77	291474	46.777	ng	98
10) Phenol	6.977	94	936909	66.897	ng	99
11) bis(2-Chloroethyl)ether	7.042	93	689201	60.943	ng	100
12) 1,3-Dichlorobenzene	7.459	146	706102	58.650	ng	99
13) 1,4-Dichlorobenzene	7.606	146	726410	59.085	ng	99
14) 1,2-Dichlorobenzene	7.935	146	720379	59.861	ng	99
15) Benzyl Alcohol	7.911	79	518109	67.338	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.076	45	854650	59.110	ng	98
17) 2-Methylphenol	8.158	107	618187	65.217	ng	100
18) Hexachloroethane	8.628	117	242901	60.500	ng	100
19) n-Nitroso-di-n-propyla...	8.381	70	580217	67.739	ng	97
20) 3+4-Methylphenols	8.499	107	870273	66.513	ng	100
22) Acetophenone	8.428	105	1121751	61.017	ng	# 99
24) Nitrobenzene	8.828	77	850351	61.978	ng	99
25) Isophorone	9.280	82	1591646	63.273	ng	99
26) 2-Nitrophenol	9.509	139	443163	66.828	ng	100
27) 2,4-Dimethylphenol	9.633	122	521039	62.440	ng	100
28) bis(2-Chloroethoxy)met...	9.780	93	934621	61.266	ng	98
29) 2,4-Dichlorophenol	10.062	162	739800	64.084	ng	98
30) 1,2,4-Trichlorobenzene	10.185	180	745599	59.288	ng	99
31) Naphthalene	10.391	128	2427438	58.833	ng	99
32) Benzoic acid	9.932	122	540565	60.410	ng	99
33) 4-Chloroaniline	10.620	127	886113	61.762	ng	99
34) Hexachlorobutadiene	10.638	225	436703	58.666	ng	98
35) Caprolactam	11.419	113	305109m	69.109	ng	
36) 4-Chloro-3-methylphenol	11.795	107	842462	64.094	ng	100
37) 2-Methylnaphthalene	11.977	142	1788431	60.165	ng	99
38) 1-Methylnaphthalene	12.206	142	1780103	60.002	ng	98
40) 1,2,4,5-Tetrachloroben...	12.336	216	886111	59.677	ng	100
41) Hexachlorocyclopentadiene	12.318	237	297498	60.666	ng	98
43) 2,4,6-Trichlorophenol	12.659	196	639597	62.483	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101395.D
 Acq On : 28 Oct 2024 15:25
 Operator : RC/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

SSTDICC060

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/29/2024

Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:19:01 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 29 00:58:30 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.759	196	742308	63.325	ng	98
46) 1,1'-Biphenyl	13.011	154	2353812	58.085	ng	98
47) 2-Chloronaphthalene	13.058	162	1881309	58.761	ng	98
48) 2-Nitroaniline	13.393	65	584466	67.834	ng	98
49) Acenaphthylene	13.916	152	2833567	59.847	ng	97
50) Dimethylphthalate	13.699	163	2454675	58.793	ng	99
51) 2,6-Dinitrotoluene	13.834	165	613251	63.620	ng	97
52) Acenaphthene	14.251	154	1804815	58.378	ng	99
53) 3-Nitroaniline	14.239	138	612603	63.913	ng	99
54) 2,4-Dinitrophenol	14.374	184	407974	61.001	ng	100
55) Dibenzofuran	14.592	168	2853610	57.911	ng	98
56) 4-Nitrophenol	14.656	139	574109	65.406	ng	99
57) 2,4-Dinitrotoluene	14.615	165	878036	66.163	ng	98
58) Fluorene	15.232	166	2380604	57.751	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.856	232	670164	61.877	ng	100
60) Diethylphthalate	15.021	149	2532782	57.997	ng	97
61) 4-Chlorophenyl-phenyle...	15.215	204	1193362	58.339	ng	99
62) 4-Nitroaniline	15.432	138	699974	65.628	ng	99
63) Azobenzene	15.514	77	2208829	58.842	ng	97
65) 4,6-Dinitro-2-methylph...	15.356	198	532042	66.748	ng	100
66) n-Nitrosodiphenylamine	15.467	169	2117735	58.871	ng	98
67) 4-Bromophenyl-phenylether	16.102	248	872994	61.180	ng	98
68) Hexachlorobenzene	16.207	284	1133251	60.590	ng	98
70) Pentachlorophenol	16.613	266	721263	66.994	ng	99
71) Phenanthrene	16.965	178	3645888	56.136	ng	95
72) Anthracene	17.054	178	3634148	57.305	ng	96
73) Carbazole	17.383	167	3721077	57.345	ng	96
74) Di-n-butylphthalate	17.829	149	4008628	56.115	ng	96
75) Fluoranthene	18.969	202	4242490	53.782	ng	94
77) Benzidine	19.222	184	848095	46.724	ng	100
78) Pyrene	19.339	202	4360488	55.443	ng	# 91
80) Butylbenzylphthalate	20.185	149	2101110	60.940	ng	96
81) Benzo(a)anthracene	21.061	228	4335279	53.932	ng	90
82) 3,3'-Dichlorobenzidine	21.037	252	1903536	60.451	ng	99
83) Chrysene	21.119	228	4127052	53.101	ng	92
84) Bis(2-ethylhexyl)phtha...	20.890	149	2827835	61.739	ng	93
85) Di-n-octyl phthalate	21.736	149	4427600	58.897	ng	98
87) Indeno(1,2,3-cd)pyrene	25.720	276	7274934	58.927	ng	98
88) Benzo(b)fluoranthene	22.665	252	5533490	57.560	ng	96
89) Benzo(k)fluoranthene	22.712	252	4844203m	53.920	ng	
90) Benzo(a)pyrene	23.270	252	4927882	58.613	ng	96
91) Dibenzo(a,h)anthracene	25.708	278	5992823	58.746	ng	97
92) Benzo(g,h,i)perylene	26.466	276	6373220	60.635	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101395.D
 Acq On : 28 Oct 2024 15:25
 Operator : RC/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

SSTDICC060

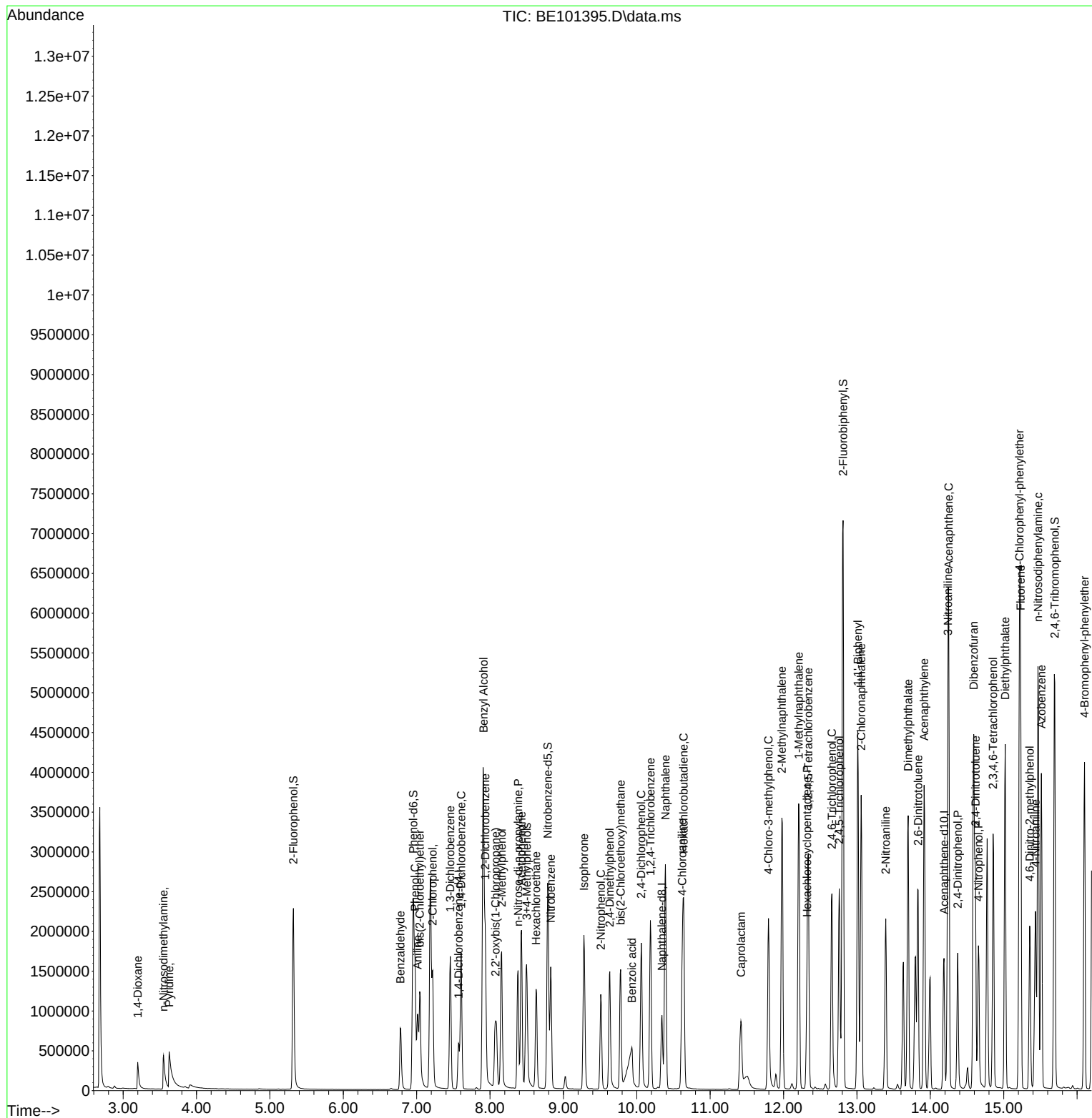
Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/29/2024

Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:19:01 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 29 00:58:30 2024
 Response via : Initial Calibration



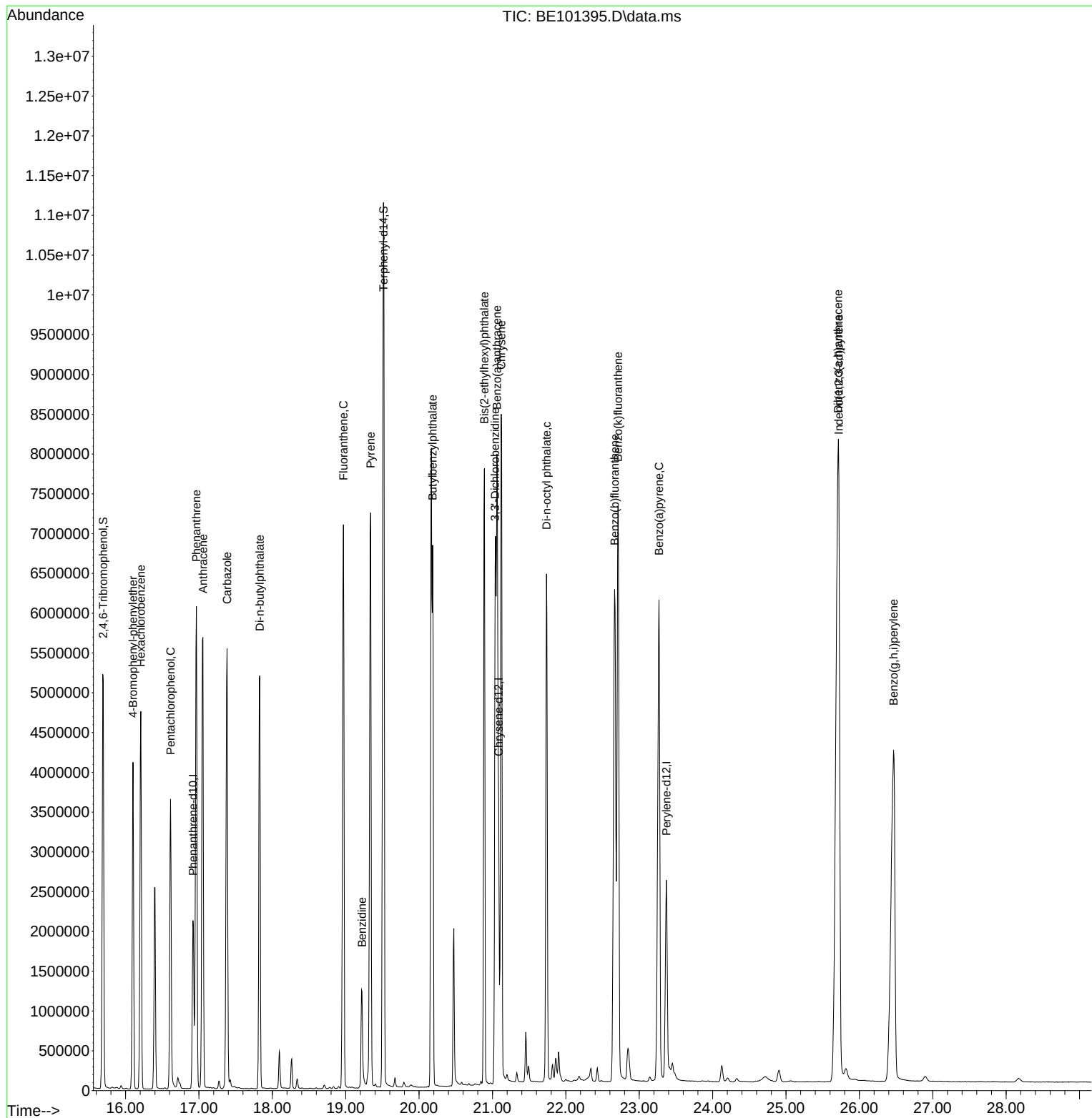
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101395.D
Acq On : 28 Oct 2024 15:25
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC060

Quant Time: Oct 29 01:19:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101396.D
 Acq On : 28 Oct 2024 16:01
 Operator : RC/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

SSTDICC080

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/29/2024

Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:22:43 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 29 00:58:30 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	178600	20.000	ng	0.00
21) Naphthalene-d8	10.342	136	857359	20.000	ng	0.00
39) Acenaphthene-d10	14.185	164	629145	20.000	ng	0.00
64) Phenanthrene-d10	16.923	188	1425289	20.000	ng	0.00
76) Chrysene-d12	21.089	240	1483802	20.000	ng	0.01
86) Perylene-d12	23.374	264	1958585	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.319	112	1650888	162.007	ng	0.00
7) Phenol-d6	6.958	99	2347999	166.174	ng	0.01
23) Nitrobenzene-d5	8.791	82	2169296	158.920	ng	0.00
42) 2,4,6-Tribromophenol	15.701	330	1741409	157.924	ng	0.01
45) 2-Fluorobiphenyl	12.810	172	4719582	127.042	ng	0.00
79) Terphenyl-d14	0.000	244	0d	0.000	ng	
Target Compounds						Qvalue
2) 1,4-Dioxane	3.198	88	270568	71.190	ng	99
3) Pyridine	3.621	79	894327m	83.383	ng	
4) n-Nitrosodimethylamine	3.544	42	334535	81.584	ng	97
6) Aniline	7.017	93	548070m	50.604	ng	
8) 2-Chlorophenol	7.222	128	979447	80.138	ng	100
10) Phenol	6.981	94	1263744	82.431	ng	99
11) bis(2-Chloroethyl)ether	7.046	93	1066176m	86.125	ng	
12) 1,3-Dichlorobenzene	7.457	146	987323	74.916	ng	99
13) 1,4-Dichlorobenzene	7.604	146	1006819	74.811	ng	99
14) 1,2-Dichlorobenzene	7.939	146	991630	75.275	ng	99
15) Benzyl Alcohol	7.916	79	707261	83.973	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.080	45	1173362	74.135	ng	97
17) 2-Methylphenol	8.157	107	867917	83.645	ng	100
18) Hexachloroethane	8.633	117	343760	78.217	ng	99
19) n-Nitroso-di-n-propyla...	8.386	70	787045	83.939	ng	97
20) 3+4-Methylphenols	8.497	107	1195852	83.492	ng	98
22) Acetophenone	8.427	105	1529824	78.585	ng	# 99
24) Nitrobenzene	8.832	77	1163720	80.099	ng	97
25) Isophorone	9.285	82	2169116	81.433	ng	98
26) 2-Nitrophenol	9.514	139	621636	88.527	ng	97
27) 2,4-Dimethylphenol	9.631	122	723584	81.889	ng	100
28) bis(2-Chloroethoxy)met...	9.778	93	1268974	78.555	ng	98
29) 2,4-Dichlorophenol	10.066	162	1019981	83.439	ng	99
30) 1,2,4-Trichlorobenzene	10.190	180	1026026	77.047	ng	98
31) Naphthalene	10.389	128	3210242	73.477	ng	97
32) Benzoic acid	9.966	122	802694	81.411	ng	98
33) 4-Chloroaniline	10.624	127	1045977	68.848	ng	99
34) Hexachlorobutadiene	10.642	225	602261	76.406	ng	99
35) Caprolactam	11.447	113	423607m	90.611	ng	
36) 4-Chloro-3-methylphenol	11.805	107	1177907	84.629	ng	99
37) 2-Methylnaphthalene	11.982	142	2386729	75.826	ng	99
38) 1-Methylnaphthalene	12.211	142	2387484	75.998	ng	99
40) 1,2,4,5-Tetrachloroben...	12.340	216	1210469	76.642	ng	100
41) Hexachlorocyclopentadiene	12.322	237	406717	77.974	ng	98
43) 2,4,6-Trichlorophenol	12.657	196	889070	81.656	ng	99
44) 2,4,5-Trichlorophenol	12.763	196	1033376	82.879	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101396.D
 Acq On : 28 Oct 2024 16:01
 Operator : RC/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC080

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/29/2024
 Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:22:43 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 29 00:58:30 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	13.016	154	3080214	71.461	ng	96
47) 2-Chloronaphthalene	13.063	162	2521882	74.054	ng	96
48) 2-Nitroaniline	13.398	65	810925	88.484	ng	97
49) Acenaphthylene	13.920	152	3707314	73.615	ng	95
50) Dimethylphthalate	13.703	163	3267141	73.569	ng	98
51) 2,6-Dinitrotoluene	13.838	165	839701	81.898	ng	97
52) Acenaphthene	14.249	154	2355574	71.632	ng	97
53) 3-Nitroaniline	14.244	138	793668	77.847	ng	97
54) 2,4-Dinitrophenol	14.379	184	582382	79.945	ng	99
55) Dibenzofuran	14.590	168	3693841	70.475	ng	92
56) 4-Nitrophenol	14.667	139	799802	85.665	ng	98
57) 2,4-Dinitrotoluene	14.620	165	1210728	85.772	ng	100
58) Fluorene	15.231	166	3075135	70.134	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.861	232	929313	80.669	ng	100
60) Diethylphthalate	15.025	149	3340276	71.909	ng	93
61) 4-Chlorophenyl-phenyle...	15.219	204	1587212	72.949	ng	98
62) 4-Nitroaniline	15.442	138	979372	86.327	ng	99
63) Azobenzene	15.519	77	2903362	72.715	ng	93
65) 4,6-Dinitro-2-methylph...	15.360	198	757521	90.448	ng	98
66) n-Nitrosodiphenylamine	15.472	169	2787792	73.757	ng	97
67) 4-Bromophenyl-phenylether	16.100	248	1192660	79.548	ng	100
68) Hexachlorobenzene	16.212	284	1535726	78.146	ng	98
70) Pentachlorophenol	16.617	266	1010500	89.330	ng	99
71) Phenanthrene	16.970	178	4566935	66.923	ng	# 91
72) Anthracene	17.052	178	4521882	67.862	ng	# 90
73) Carbazole	17.387	167	4672533	68.533	ng	# 90
74) Di-n-butylphthalate	17.828	149	4941803	65.839	ng	# 92
75) Fluoranthene	18.973	202	5150870	62.145	ng	89
77) Benzidine	19.220	184	1366638	72.570	ng	99
78) Pyrene	19.343	202	5284167	64.759	ng	# 86
80) Butylbenzylphthalate	20.190	149	2702990	75.562	ng	96
81) Benzo(a)anthracene	21.065	228	5217950	62.566	ng	# 85
82) 3,3'-Dichlorobenzidine	21.041	252	2349046	71.902	ng	97
83) Chrysene	21.124	228	4974972	61.697	ng	# 86
84) Bis(2-ethylhexyl)phtha...	20.889	149	3506446	73.788	ng	# 89
85) Di-n-octyl phthalate	21.741	149	5240960	67.196	ng	# 96
87) Indeno(1,2,3-cd)pyrene	25.742	276	9511841	72.567	ng	98
88) Benzo(b)fluoranthene	22.675	252	6843216	67.045	ng	# 91
89) Benzo(k)fluoranthene	22.722	252	6063342	63.566	ng	# 89
90) Benzo(a)pyrene	23.274	252	6239978	69.904	ng	# 91
91) Dibenzo(a,h)anthracene	25.724	278	7655222	70.679	ng	95
92) Benzo(g,h,i)perylene	26.482	276	8419364	75.445	ng	96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101396.D
 Acq On : 28 Oct 2024 16:01
 Operator : RC/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

SSTDICC080

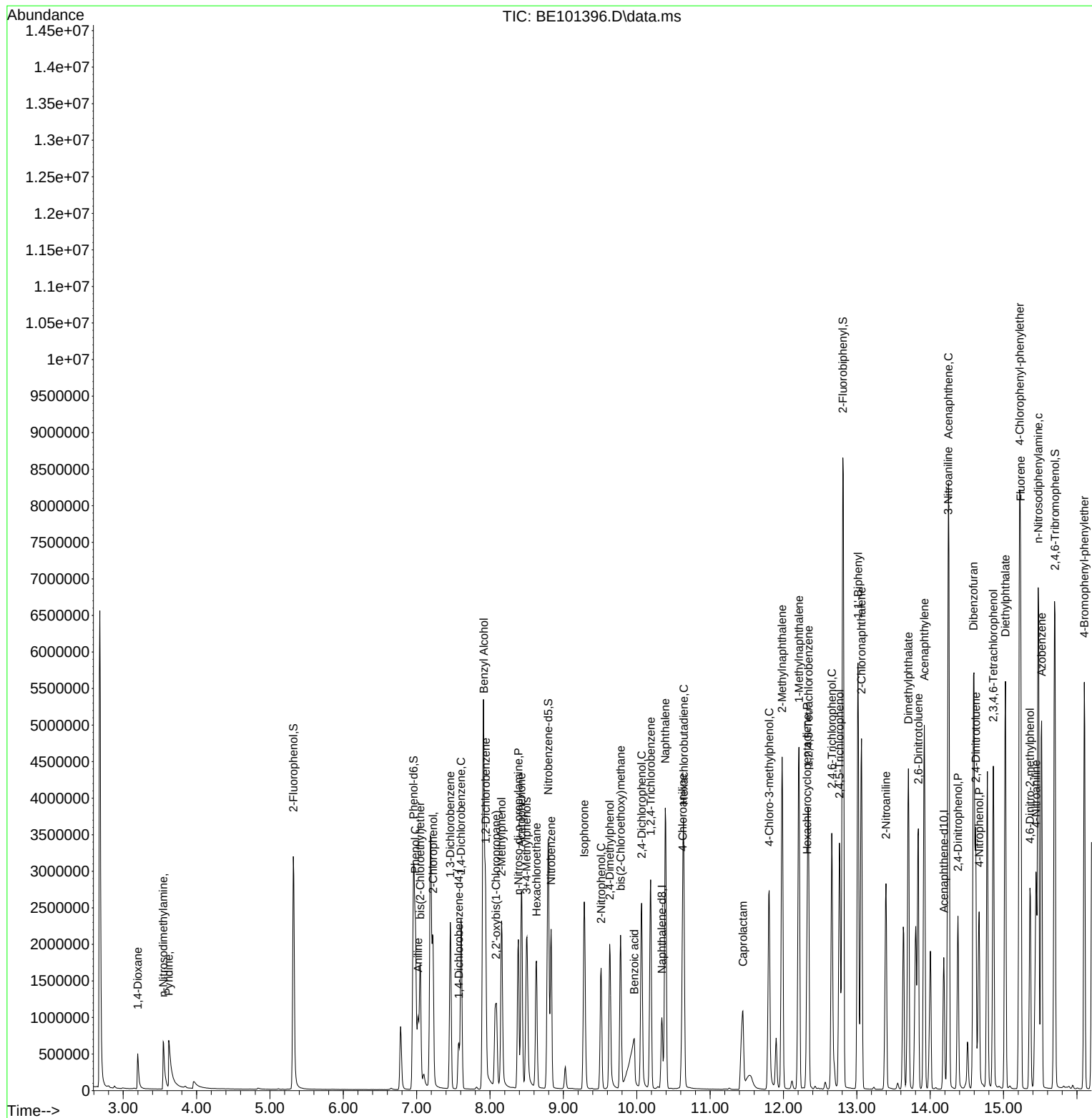
Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/29/2024

Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:22:43 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 29 00:58:30 2024
 Response via : Initial Calibration



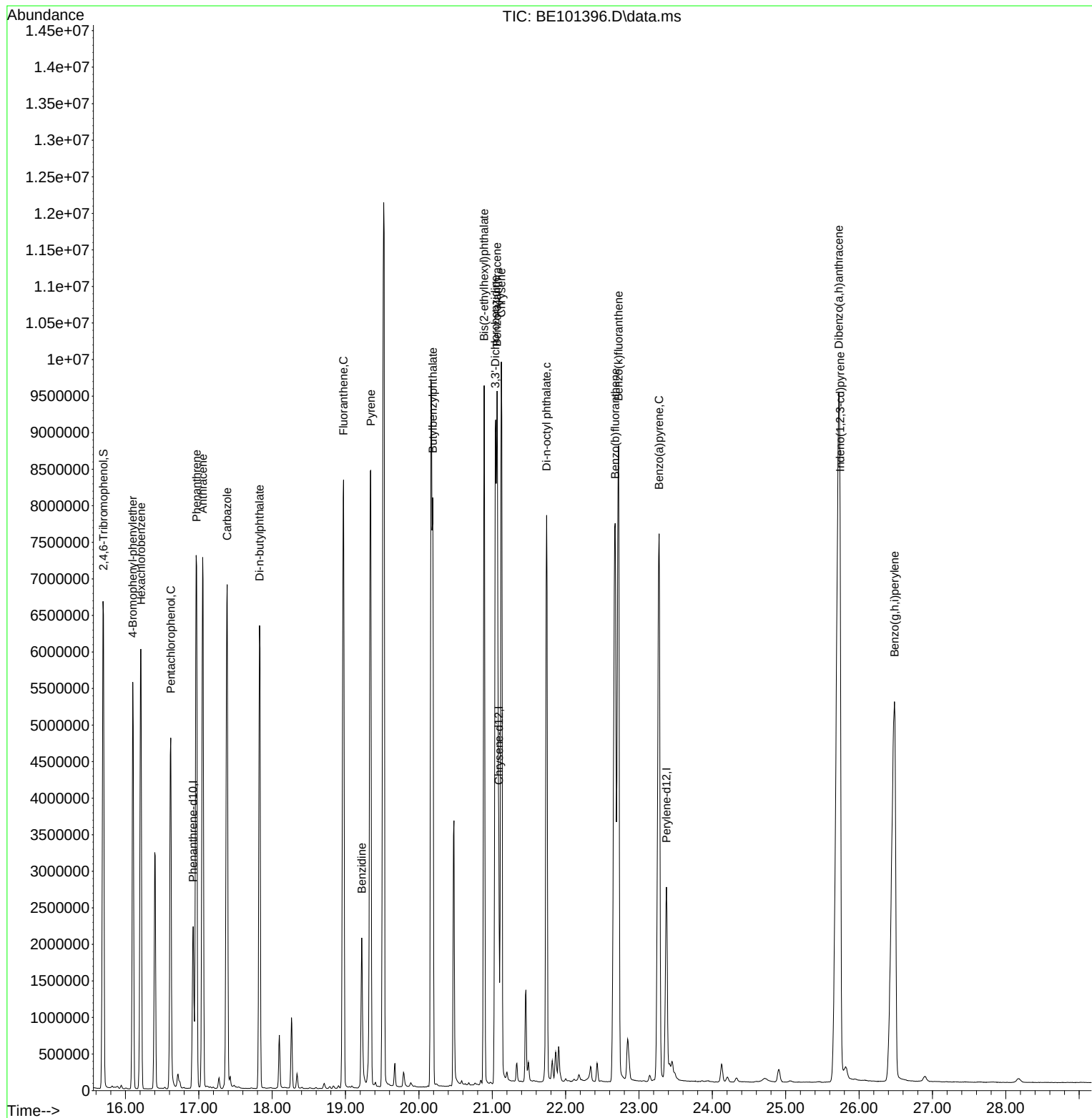
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101396.D
Acq On : 28 Oct 2024 16:01
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:22:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 00:58:30 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101397.D
 Acq On : 28 Oct 2024 16:37
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

ICVBE102824

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/29/2024

Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:28:19 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 29 01:26:30 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.570	152	135975	20.000	ng	0.00
21) Naphthalene-d8	10.343	136	689556	20.000	ng	0.00
39) Acenaphthene-d10	14.186	164	494390	20.000	ng	0.00
64) Phenanthrene-d10	16.918	188	1118107	20.000	ng	0.00
76) Chrysene-d12	21.077	240	1178888	20.000	ng	0.00
86) Perylene-d12	23.369	264	1506294	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.319	112	642682	82.839	ng	0.00
7) Phenol-d6	6.953	99	943928	87.746	ng	0.00
23) Nitrobenzene-d5	8.786	82	931158	84.816	ng	0.00
42) 2,4,6-Tribromophenol	15.690	330	730631	84.319	ng	0.00
45) 2-Fluorobiphenyl	12.805	172	2410105	82.558	ng	0.00
79) Terphenyl-d14	19.515	244	4018242	78.448	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.204	88	112859	39.003	ng	99
3) Pyridine	3.639	79	342567m	41.845	ng	
4) n-Nitrosodimethylamine	3.557	42	131547	41.530	ng	99
6) Aniline	7.012	93	381702m	46.299	ng	
8) 2-Chlorophenol	7.217	128	394111	42.354	ng	99
9) Benzaldehyde	6.782	77	243959	46.978	ng	98
10) Phenol	6.976	94	524973	44.977	ng	99
11) bis(2-Chloroethyl)ether	7.041	93	352789	36.844	ng	99
12) 1,3-Dichlorobenzene	7.458	146	407554	40.619	ng	99
13) 1,4-Dichlorobenzene	7.605	146	416170	40.617	ng	99
14) 1,2-Dichlorobenzene	7.934	146	416666	41.544	ng	99
15) Benzyl Alcohol	7.916	79	280441	43.735	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.075	45	504614	41.877	ng	96
17) 2-Methylphenol	8.157	107	338367	42.832	ng	100
18) Hexachloroethane	8.627	117	140124	41.877	ng	97
19) n-Nitroso-di-n-propyla...	8.375	70	334804	46.901	ng	98
20) 3+4-Methylphenols	8.492	107	482425	44.240	ng	96
22) Acetophenone	8.422	105	658880	42.082	ng	99
24) Nitrobenzene	8.827	77	486233	41.612	ng	98
25) Isophorone	9.280	82	923963	43.128	ng	99
26) 2-Nitrophenol	9.509	139	247215	43.773	ng	99
27) 2,4-Dimethylphenol	9.632	122	296382	41.704	ng	99
28) bis(2-Chloroethoxy)met...	9.779	93	543065	41.799	ng	99
29) 2,4-Dichlorophenol	10.061	162	413366	42.044	ng	100
30) 1,2,4-Trichlorobenzene	10.184	180	432858	40.415	ng	99
31) Naphthalene	10.390	128	1427648	40.628	ng	100
32) Benzoic acid	9.896	122	280040	39.965	ng	99
33) 4-Chloroaniline	10.613	127	560356	45.859	ng	99
34) Hexachlorobutadiene	10.637	225	255945	40.372	ng	99
35) Caprolactam	11.395	113	166215	44.104	ng	98
36) 4-Chloro-3-methylphenol	11.788	107	479680	42.850	ng	99
37) 2-Methylnaphthalene	11.976	142	1040801	41.112	ng	99
38) 1-Methylnaphthalene	12.206	142	1039012	41.122	ng	99
40) 1,2,4,5-Tetrachloroben...	12.335	216	508563	40.977	ng	100
41) Hexachlorocyclopentadiene	12.317	237	169665	41.393	ng	99
43) 2,4,6-Trichlorophenol	12.658	196	369991	43.244	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101397.D
 Acq On : 28 Oct 2024 16:37
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

ICVBE102824

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/29/2024

Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:28:19 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 29 01:26:30 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.758	196	417164	42.577	ng	100
46) 1,1'-Biphenyl	13.010	154	1390011	41.038	ng	99
47) 2-Chloronaphthalene	13.057	162	1102426	41.196	ng	99
48) 2-Nitroaniline	13.386	65	326383	45.320	ng	99
49) Acenaphthylene	13.915	152	1651908	41.742	ng	99
50) Dimethylphthalate	13.692	163	1435201	41.126	ng	100
51) 2,6-Dinitrotoluene	13.827	165	339386	42.124	ng	97
52) Acenaphthene	14.244	154	1064171	41.182	ng	99
53) 3-Nitroaniline	14.233	138	354038	44.191	ng	99
54) 2,4-Dinitrophenol	14.368	184	204189	38.780	ng	98
55) Dibenzofuran	14.591	168	1676523	40.705	ng	99
56) 4-Nitrophenol	14.650	139	305994	41.707	ng	99
57) 2,4-Dinitrotoluene	14.609	165	480487	43.318	ng	99
58) Fluorene	15.225	166	1418626	41.173	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.855	232	384198	42.441	ng	99
60) Diethylphthalate	15.014	149	1493405	40.913	ng	100
61) 4-Chlorophenyl-phenyle...	15.214	204	701783	41.046	ng	99
62) 4-Nitroaniline	15.419	138	385584	43.251	ng	99
63) Azobenzene	15.508	77	1304082	41.563	ng	99
65) 4,6-Dinitro-2-methylph...	15.349	198	274306	41.750	ng	99
66) n-Nitrosodiphenylamine	15.466	169	1234319	41.628	ng	99
67) 4-Bromophenyl-phenylether	16.101	248	491891	41.822	ng	96
68) Hexachlorobenzene	16.207	284	643314	41.729	ng	97
69) Atrazine	16.395	200	406439	44.711	ng	100
70) Pentachlorophenol	16.612	266	397449	44.788	ng	98
71) Phenanthrene	16.959	178	2206489	41.217	ng	100
72) Anthracene	17.047	178	2193019	41.954	ng	99
73) Carbazole	17.376	167	2216213	41.436	ng	100
74) Di-n-butylphthalate	17.822	149	2524597	42.876	ng	100
75) Fluoranthene	18.962	202	2654890	40.831	ng	99
77) Benzidine	19.221	184	902385	60.311	ng	100
78) Pyrene	19.332	202	2798951	43.174	ng	100
80) Butylbenzylphthalate	20.184	149	1229626	43.265	ng	99
81) Benzo(a)anthracene	21.060	228	2796518	42.205	ng	100
82) 3,3'-Dichlorobenzidine	21.036	252	1140565	43.941	ng	100
83) Chrysene	21.113	228	2666843	41.627	ng	99
84) Bis(2-ethylhexyl)phtha...	20.889	149	1683088	44.579	ng	99
85) Di-n-octyl phthalate	21.736	149	2752236	44.414	ng	100
87) Indeno(1,2,3-cd)pyrene	25.696	276	4140658	41.075	ng	100
88) Benzo(b)fluoranthene	22.658	252	3307474	42.134	ng	99
89) Benzo(k)fluoranthene	22.705	252	3044393	41.512	ng	99
90) Benzo(a)pyrene	23.257	252	2880588	41.960	ng	100
91) Dibenzo(a,h)anthracene	25.684	278	3469403	41.651	ng	99
92) Benzo(g,h,i)perylene	26.442	276	3517606	40.986	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101397.D
Acq On : 28 Oct 2024 16:37
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

ICVBE102824

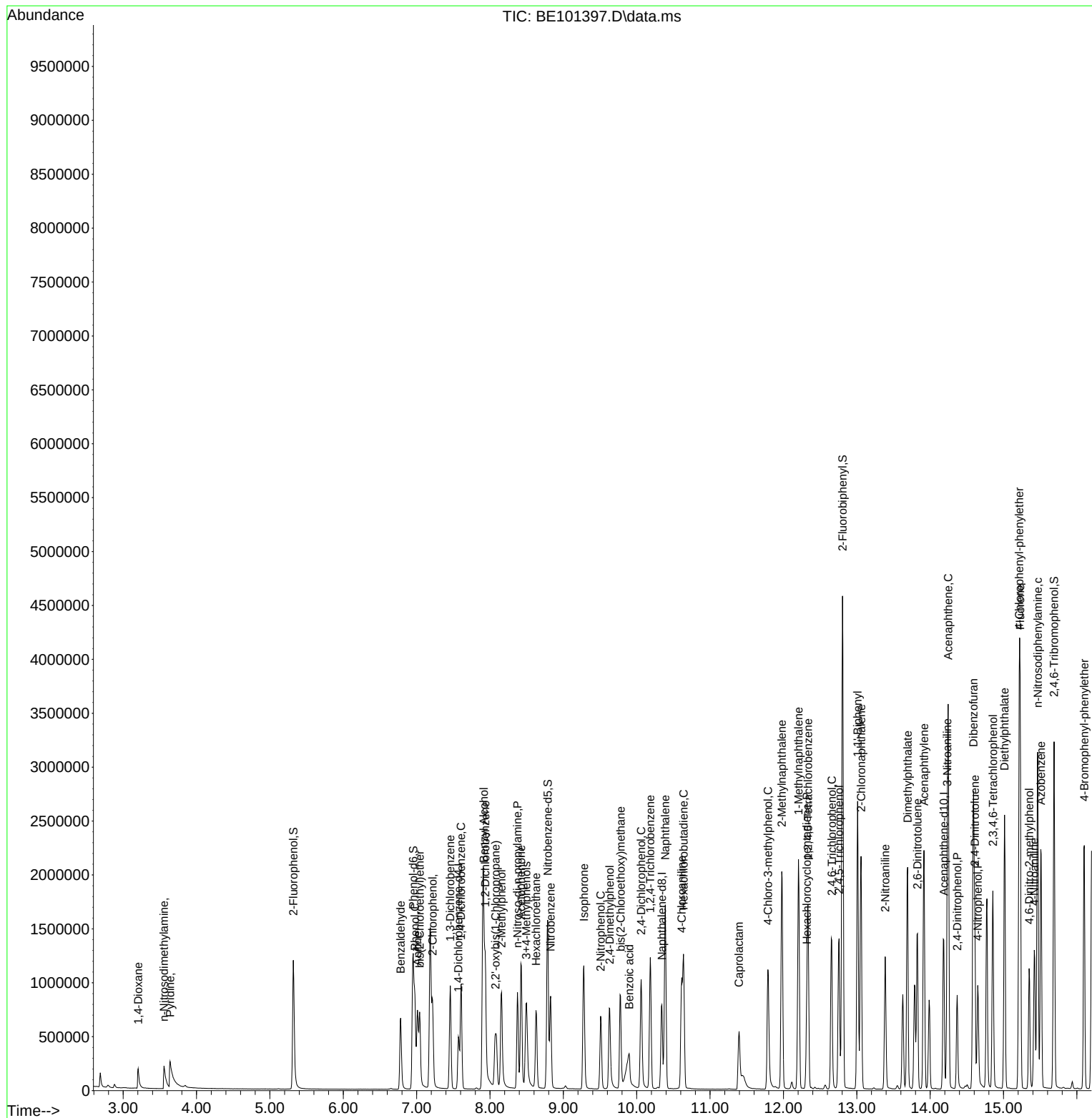
Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/29/2024

Supervised By :mohammad ahmed 10/30/2024

Quant Time: Oct 29 01:28:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration



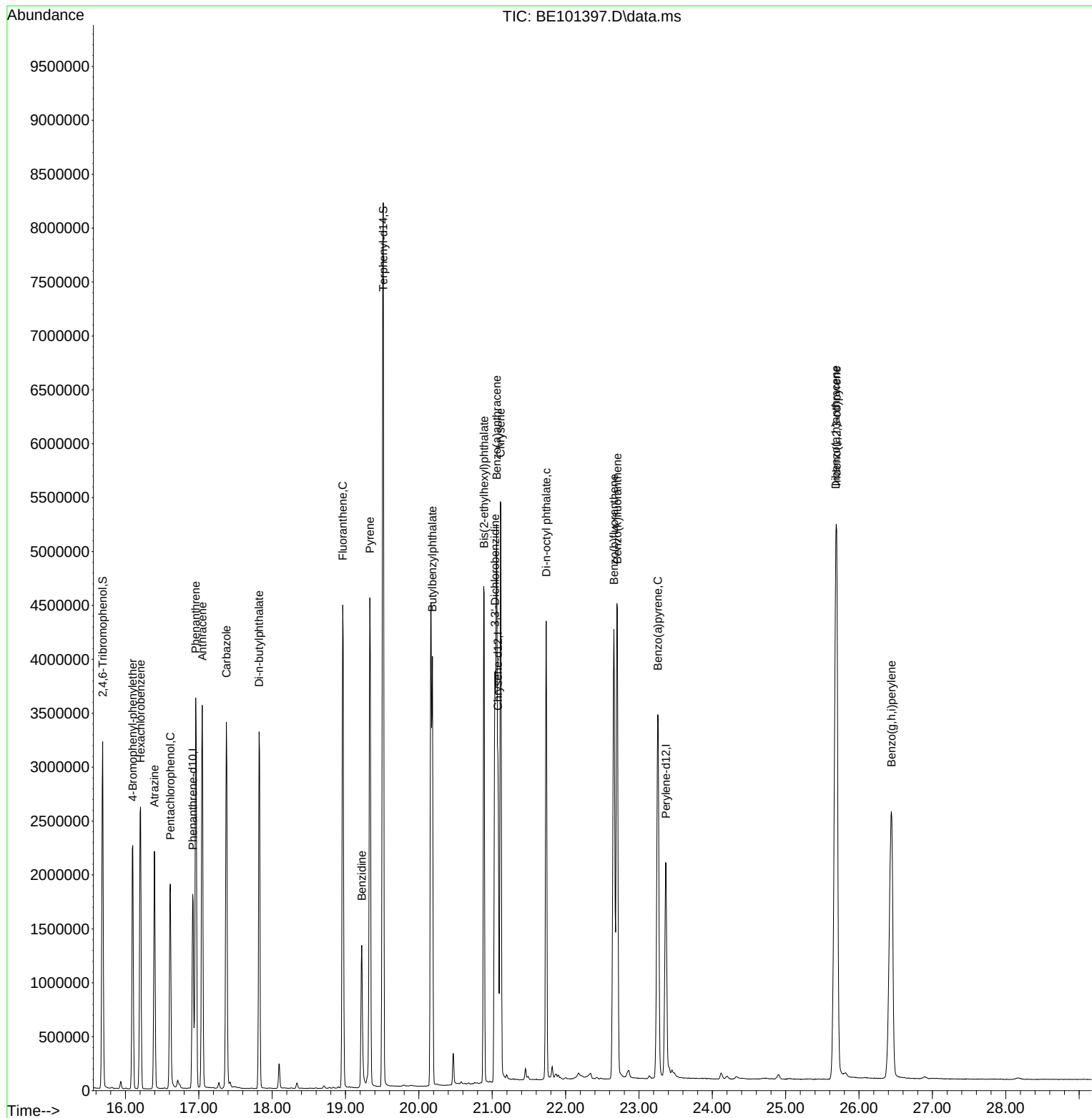
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101397.D
Acq On : 28 Oct 2024 16:37
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
ICVBE102824

Quant Time: Oct 29 01:28:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101397.D
 Acq On : 28 Oct 2024 16:37
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE102824

Quant Time: Oct 29 01:28:19 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 29 01:26:30 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	0.426	0.415	2.6	95	0.00
3	Pyridine	1.204	1.260	-4.7	102	0.00
4	n-Nitrosodimethylamine	0.466	0.484	-3.9	97	0.00
5 S	2-Fluorophenol	1.141	1.182	-3.6	99	0.00
6	Aniline	1.213	1.404	-15.7	101	0.00
7 S	Phenol-d6	1.582	1.735	-9.7	103	0.00
8	2-Chlorophenol	1.369	1.449	-5.8	100	0.00
9	Benzaldehyde	0.764	0.897	-17.4	107	0.00
10 C	Phenol	1.717	1.930	-12.4	102	0.00
11	bis(2-Chloroethyl)ether	1.408	1.297	7.9	85	0.00
12	1,3-Dichlorobenzene	1.476	1.499	-1.6	97	0.00
13 C	1,4-Dichlorobenzene	1.507	1.530	-1.5	98	0.00
14	1,2-Dichlorobenzene	1.475	1.532	-3.9	99	0.00
15	Benzyl Alcohol	0.943	1.031	-9.3	94	0.00
16	2,2'-oxybis(1-Chloropropane	1.772	1.856	-4.7	100	0.00
17	2-Methylphenol	1.162	1.244	-7.1	99	0.00
18	Hexachloroethane	0.492	0.515	-4.7	100	0.00
19 P	n-Nitroso-di-n-propylamine	1.050	1.231	-17.2	103	0.00
20	3+4-Methylphenols	1.604	1.774	-10.6	102	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	101	0.00
22	Acetophenone	0.454	0.478	-5.3	101	0.00
23 S	Nitrobenzene-d5	0.318	0.338	-6.3	102	0.00
24	Nitrobenzene	0.339	0.353	-4.1	101	0.00
25	Isophorone	0.621	0.670	-7.9	102	0.00
26 C	2-Nitrophenol	0.164	0.179	-9.1	102	0.00
27	2,4-Dimethylphenol	0.206	0.215	-4.4	101	0.00
28	bis(2-Chloroethoxy)methane	0.377	0.394	-4.5	102	0.00
29 C	2,4-Dichlorophenol	0.285	0.300	-5.3	102	0.00
30	1,2,4-Trichlorobenzene	0.311	0.314	-1.0	102	0.00
31	Naphthalene	1.019	1.035	-1.6	101	0.00
32	Benzoic acid	0.182	0.203	-11.5	105	0.00
33	4-Chloroaniline	0.354	0.406	-14.7	104	0.00
34 C	Hexachlorobutadiene	0.184	0.186	-1.1	100	0.00
35	Caprolactam	0.109	0.121	-11.0	103	0.00
36 C	4-Chloro-3-methylphenol	0.325	0.348	-7.1	104	0.00
37	2-Methylnaphthalene	0.734	0.755	-2.9	101	0.00
38	1-Methylnaphthalene	0.733	0.753	-2.7	102	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	101	0.00
40	1,2,4,5-Tetrachlorobenzene	0.502	0.514	-2.4	101	0.00
41 P	Hexachlorocyclopentadiene	0.166	0.172	-3.6	98	0.00
42 S	2,4,6-Tribromophenol	0.351	0.369	-5.1	102	0.00
43 C	2,4,6-Trichlorophenol	0.346	0.374	-8.1	102	0.00
44	2,4,5-Trichlorophenol	0.396	0.422	-6.6	103	0.00
45 S	2-Fluorobiphenyl	1.181	1.219	-3.2	100	0.00
46	1,1'-Biphenyl	1.370	1.406	-2.6	101	0.00
47	2-Chloronaphthalene	1.083	1.115	-3.0	102	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101397.D
 Acq On : 28 Oct 2024 16:37
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE102824

Quant Time: Oct 29 01:28:19 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 29 01:26:30 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	0.291	0.330	-13.4	105	0.00
49	Acenaphthylene	1.601	1.671	-4.4	101	0.00
50	Dimethylphthalate	1.412	1.451	-2.8	101	0.00
51	2,6-Dinitrotoluene	0.326	0.343	-5.2	100	0.00
52 C	Acenaphthene	1.045	1.076	-3.0	101	0.00
53	3-Nitroaniline	0.324	0.358	-10.5	101	0.00
54 P	2,4-Dinitrophenol	0.198	0.207	-4.5	100	0.00
55	Dibenzofuran	1.666	1.696	-1.8	101	0.00
56 P	4-Nitrophenol	0.297	0.309	-4.0	100	0.00
57	2,4-Dinitrotoluene	0.449	0.486	-8.2	102	0.00
58	Fluorene	1.394	1.435	-2.9	100	0.00
59	2,3,4,6-Tetrachlorophenol	0.366	0.389	-6.3	103	0.00
60	Diethylphthalate	1.477	1.510	-2.2	99	0.00
61	4-Chlorophenyl-phenylether	0.692	0.710	-2.6	101	0.00
62	4-Nitroaniline	0.361	0.390	-8.0	101	0.00
63	Azobenzene	1.269	1.319	-3.9	101	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
65	4,6-Dinitro-2-methylphenol	0.118	0.123	-4.2	99	0.00
66 c	n-Nitrosodiphenylamine	0.530	0.552	-4.2	100	0.00
67	4-Bromophenyl-phenylether	0.210	0.220	-4.8	102	0.00
68	Hexachlorobenzene	0.276	0.288	-4.3	101	0.00
69	Atrazine	0.163	0.182	-11.7	99	0.00
70 C	Pentachlorophenol	0.159	0.178	-11.9	103	0.00
71	Phenanthrene	0.958	0.987	-3.0	99	0.00
72	Anthracene	0.935	0.981	-4.9	100	0.00
73	Carbazole	0.957	0.991	-3.6	99	0.00
74	Di-n-butylphthalate	1.053	1.129	-7.2	99	0.00
75 C	Fluoranthene	1.163	1.187	-2.1	99	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	97	0.00
77	Benzidine	0.254	0.383	-50.8#	107	0.00
78	Pyrene	1.100	1.187	-7.9	98	0.00
79 S	Terphenyl-d14	0.869	0.852	2.0	98	0.00
80	Butylbenzylphthalate	0.482	0.522	-8.3	99	0.00
81	Benzo(a)anthracene	1.124	1.186	-5.5	98	0.00
82	3,3'-Dichlorobenzidine	0.440	0.484	-10.0	98	0.00
83	Chrysene	1.087	1.131	-4.0	99	0.00
84	Bis(2-ethylhexyl)phthalate	0.641	0.714	-11.4	99	0.00
85 c	Di-n-octyl phthalate	1.051	1.167	-11.0	100	0.00
86 I	Perylene-d12	1.000	1.000	0.0	100	0.00
87	Indeno(1,2,3-cd)pyrene	1.338	1.374	-2.7	98	0.00
88	Benzo(b)fluoranthene	1.042	1.098	-5.4	99	0.00
89	Benzo(k)fluoranthene	0.974	1.011	-3.8	99	0.00
90 C	Benzo(a)pyrene	0.912	0.956	-4.8	99	0.00
91	Dibenzo(a,h)anthracene	1.106	1.152	-4.2	98	0.00
92	Benzo(g,h,i)perylene	1.140	1.168	-2.5	99	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101397.D
Acq On : 28 Oct 2024 16:37
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
ICVBE102824

Quant Time: Oct 29 01:28:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 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_E\Data\BE102824\
 Data File : BE101397.D
 Acq On : 28 Oct 2024 16:37
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE102824

Quant Time: Oct 29 01:28:19 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 29 01:26:30 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	39.003	2.5	95	0.00
3	Pyridine	40.000	41.845	-4.6	102	0.00
4	n-Nitrosodimethylamine	40.000	41.530	-3.8	97	0.00
5 S	2-Fluorophenol	80.000	82.839	-3.5	99	0.00
6	Aniline	40.000	46.299	-15.7	101	0.00
7 S	Phenol-d6	80.000	87.746	-9.7	103	0.00
8	2-Chlorophenol	40.000	42.354	-5.9	100	0.00
9	Benzaldehyde	40.000	46.978	-17.4	107	0.00
10 C	Phenol	40.000	44.977	-12.4	102	0.00
11	bis(2-Chloroethyl)ether	40.000	36.844	7.9	85	0.00
12	1,3-Dichlorobenzene	40.000	40.619	-1.5	97	0.00
13 C	1,4-Dichlorobenzene	40.000	40.617	-1.5	98	0.00
14	1,2-Dichlorobenzene	40.000	41.544	-3.9	99	0.00
15	Benzyl Alcohol	40.000	43.735	-9.3	94	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	41.877	-4.7	100	0.00
17	2-Methylphenol	40.000	42.832	-7.1	99	0.00
18	Hexachloroethane	40.000	41.877	-4.7	100	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	46.901	-17.3	103	0.00
20	3+4-Methylphenols	40.000	44.240	-10.6	102	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	101	0.00
22	Acetophenone	40.000	42.082	-5.2	101	0.00
23 S	Nitrobenzene-d5	80.000	84.816	-6.0	102	0.00
24	Nitrobenzene	40.000	41.612	-4.0	101	0.00
25	Isophorone	40.000	43.128	-7.8	102	0.00
26 C	2-Nitrophenol	40.000	43.773	-9.4	102	0.00
27	2,4-Dimethylphenol	40.000	41.704	-4.3	101	0.00
28	bis(2-Chloroethoxy)methane	40.000	41.799	-4.5	102	0.00
29 C	2,4-Dichlorophenol	40.000	42.044	-5.1	102	0.00
30	1,2,4-Trichlorobenzene	40.000	40.415	-1.0	102	0.00
31	Naphthalene	40.000	40.628	-1.6	101	0.00
32	Benzoic acid	40.000	39.965	0.1	105	0.00
33	4-Chloroaniline	40.000	45.859	-14.6	104	0.00
34 C	Hexachlorobutadiene	40.000	40.372	-0.9	100	0.00
35	Caprolactam	40.000	44.104	-10.3	103	0.00
36 C	4-Chloro-3-methylphenol	40.000	42.850	-7.1	104	0.00
37	2-Methylnaphthalene	40.000	41.112	-2.8	101	0.00
38	1-Methylnaphthalene	40.000	41.122	-2.8	102	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	101	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	40.977	-2.4	101	0.00
41 P	Hexachlorocyclopentadiene	40.000	41.393	-3.5	98	0.00
42 S	2,4,6-Tribromophenol	80.000	84.319	-5.4	102	0.00
43 C	2,4,6-Trichlorophenol	40.000	43.244	-8.1	102	0.00
44	2,4,5-Trichlorophenol	40.000	42.577	-6.4	103	0.00
45 S	2-Fluorobiphenyl	80.000	82.558	-3.2	100	0.00
46	1,1'-Biphenyl	40.000	41.038	-2.6	101	0.00
47	2-Chloronaphthalene	40.000	41.196	-3.0	102	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
 Data File : BE101397.D
 Acq On : 28 Oct 2024 16:37
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 ICVBE102824

Quant Time: Oct 29 01:28:19 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 29 01:26:30 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	45.320	-13.3	105	0.00
49	Acenaphthylene	40.000	41.742	-4.4	101	0.00
50	Dimethylphthalate	40.000	41.126	-2.8	101	0.00
51	2,6-Dinitrotoluene	40.000	42.124	-5.3	100	0.00
52 C	Acenaphthene	40.000	41.182	-3.0	101	0.00
53	3-Nitroaniline	40.000	44.191	-10.5	101	0.00
54 P	2,4-Dinitrophenol	40.000	38.780	3.0	100	0.00
55	Dibenzofuran	40.000	40.705	-1.8	101	0.00
56 P	4-Nitrophenol	40.000	41.707	-4.3	100	0.00
57	2,4-Dinitrotoluene	40.000	43.318	-8.3	102	0.00
58	Fluorene	40.000	41.173	-2.9	100	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	42.441	-6.1	103	0.00
60	Diethylphthalate	40.000	40.913	-2.3	99	0.00
61	4-Chlorophenyl-phenylether	40.000	41.046	-2.6	101	0.00
62	4-Nitroaniline	40.000	43.251	-8.1	101	0.00
63	Azobenzene	40.000	41.563	-3.9	101	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	100	0.00
65	4,6-Dinitro-2-methylphenol	40.000	41.750	-4.4	99	0.00
66 c	n-Nitrosodiphenylamine	40.000	41.628	-4.1	100	0.00
67	4-Bromophenyl-phenylether	40.000	41.822	-4.6	102	0.00
68	Hexachlorobenzene	40.000	41.729	-4.3	101	0.00
69	Atrazine	40.000	44.711	-11.8	99	0.00
70 C	Pentachlorophenol	40.000	44.788	-12.0	103	0.00
71	Phenanthrene	40.000	41.217	-3.0	99	0.00
72	Anthracene	40.000	41.954	-4.9	100	0.00
73	Carbazole	40.000	41.436	-3.6	99	0.00
74	Di-n-butylphthalate	40.000	42.876	-7.2	99	0.00
75 C	Fluoranthene	40.000	40.831	-2.1	99	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	97	0.00
77	Benzidine	40.000	60.311	-50.8#	107	0.00
78	Pyrene	40.000	43.174	-7.9	98	0.00
79 S	Terphenyl-d14	80.000	78.448	1.9	98	0.00
80	Butylbenzylphthalate	40.000	43.265	-8.2	99	0.00
81	Benzo(a)anthracene	40.000	42.205	-5.5	98	0.00
82	3,3'-Dichlorobenzidine	40.000	43.941	-9.9	98	0.00
83	Chrysene	40.000	41.627	-4.1	99	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	44.579	-11.4	99	0.00
85 c	Di-n-octyl phthalate	40.000	44.414	-11.0	100	0.00
86 I	Perylene-d12	20.000	20.000	0.0	100	0.00
87	Indeno(1,2,3-cd)pyrene	40.000	41.075	-2.7	98	0.00
88	Benzo(b)fluoranthene	40.000	42.134	-5.3	99	0.00
89	Benzo(k)fluoranthene	40.000	41.512	-3.8	99	0.00
90 C	Benzo(a)pyrene	40.000	41.960	-4.9	99	0.00
91	Dibenzo(a,h)anthracene	40.000	41.651	-4.1	98	0.00
92	Benzo(g,h,i)perylene	40.000	40.986	-2.5	99	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101397.D
Acq On : 28 Oct 2024 16:37
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
ICVBE102824

Quant Time: Oct 29 01:28:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 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.: P4578 SAS No.: P4578 SDG No.: P4578
 Instrument ID: BNA_F Calibration Date(s): 10/18/2024 10/18/2024
 Calibration Time(s): 10:27 13:46

LAB FILE ID:		RRF2.5 = BF139844.D			RRF005 = BF139845.D		RRF010 = BF139846.D	
		RRF020 = BF139847.D			RRF040 = BF139848.D		RRF050 = BF139849.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.465	1.398	1.331	1.278	1.179	1.278	10.1
Benzaldehyde			1.137	1.042	0.940	0.873	0.931	15.2
Phenol-d6		1.900	1.818	1.709	1.647	1.538	1.655	10.1
Phenol		1.952	1.832	1.760	1.712	1.583	1.706	9.2
bis(2-Chloroethyl) ether		1.470	1.423	1.359	1.294	1.251	1.319	7.8
2-Chlorophenol		1.503	1.422	1.358	1.310	1.212	1.306	10.2
2-Methylphenol		1.264	1.164	1.134	1.114	1.053	1.114	7.7
2,2-oxybis(1-Chloropropane)		2.524	2.409	2.353	2.255	2.117	2.248	8.7
Acetophenone		0.578	0.533	0.516	0.481	0.452	0.490	11.4
3+4-Methylphenols		1.678	1.573	1.520	1.418	1.309	1.424	12.4
n-Nitroso-di-n-propylamine	1.105	1.141	1.066	1.025	0.974	0.921	1.004	9.6
Nitrobenzene-d5		0.365	0.365	0.372	0.371	0.354	0.361	2.9
Hexachloroethane		0.583	0.571	0.549	0.541	0.507	0.534	7.1
Nitrobenzene		0.417	0.402	0.408	0.403	0.383	0.396	4.1
Isophorone		0.755	0.709	0.702	0.679	0.652	0.685	5.9
2-Nitrophenol		0.124	0.137	0.150	0.157	0.158	0.149	9.2
2,4-Dimethylphenol		0.285	0.259	0.256	0.248	0.237	0.249	8.1
bis(2-Chloroethoxy) methane		0.468	0.440	0.432	0.412	0.394	0.415	8.2
2,4-Dichlorophenol		0.308	0.297	0.293	0.283	0.272	0.283	6.2
Naphthalene		1.209	1.121	1.091	1.023	0.958	1.031	11.2
4-Chloroaniline		0.397	0.382	0.368	0.351	0.332	0.352	9.3
Hexachlorobutadiene		0.224	0.206	0.203	0.197	0.185	0.197	8.0
Caprolactam		0.092	0.092	0.092	0.092	0.088	0.090	2.9
4-Chloro-3-methylphenol		0.341	0.328	0.324	0.315	0.299	0.314	6.0
2-Methylnaphthalene		0.740	0.689	0.666	0.621	0.587	0.632	11.1
Hexachlorocyclopentadiene		0.185	0.193	0.198	0.198	0.186	0.188	5.3
2,4,6-Trichlorophenol		0.405	0.382	0.400	0.387	0.363	0.382	4.8
2-Fluorobiphenyl		1.512	1.396	1.280	1.162	1.088	1.210	16.0
2,4,5-Trichlorophenol		0.426	0.425	0.398	0.401	0.381	0.394	6.6
1,1-Biphenyl		1.640	1.536	1.483	1.379	1.285	1.392	12.2
2-Chloronaphthalene		1.288	1.225	1.164	1.111	1.048	1.121	10.0
2-Nitroaniline		0.299	0.318	0.353	0.365	0.354	0.343	7.2
Dimethylphthalate		1.410	1.344	1.283	1.237	1.172	1.246	8.6
Acenaphthylene		1.854	1.756	1.717	1.615	1.507	1.621	10.1

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.: P4578 SAS No.: P4578 SDG No.: P4578
 Instrument ID: BNA_F Calibration Date(s): 10/18/2024 10/18/2024
 Calibration Time(s): 10:27 13:46

LAB FILE ID:		RRF2.5 = BF139844.D			RRF005 = BF139845.D		RRF010 = BF139846.D	
		RRF020 = BF139847.D			RRF040 = BF139848.D		RRF050 = BF139849.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.256	0.266	0.278	0.280	0.273	0.270	3.4
3-Nitroaniline		0.270	0.275	0.296	0.292	0.276	0.278	4.8
Acenaphthene		1.200	1.136	1.089	1.044	0.977	1.049	9.5
2,4-Dinitrophenol			0.056	0.077	0.101	0.101	0.093	23.9
4-Nitrophenol		0.187	0.207	0.225	0.232	0.219	0.214	6.8
Dibenzofuran		1.767	1.659	1.579	1.486	1.389	1.505	11.5
2,4-Dinitrotoluene		0.280	0.314	0.337	0.356	0.344	0.332	7.9
Diethylphthalate		1.366	1.308	1.267	1.214	1.165	1.223	8.0
4-Chlorophenyl-phenylether		0.698	0.638	0.617	0.569	0.526	0.579	13.1
Fluorene		1.409	1.309	1.201	1.110	1.029	1.146	14.7
4-Nitroaniline		0.249	0.259	0.270	0.275	0.263	0.263	3.6
4,6-Dinitro-2-methylphenol			0.055	0.072	0.087	0.090	0.082	18.6
n-Nitrosodiphenylamine		0.672	0.641	0.621	0.595	0.568	0.599	8.1
2,4,6-Tribromophenol		0.201	0.196	0.193	0.188	0.179	0.187	5.5
4-Bromophenyl-phenylether		0.230	0.217	0.211	0.202	0.197	0.206	7.0
Hexachlorobenzene		0.258	0.245	0.237	0.231	0.217	0.232	7.2
Atrazine		0.189	0.175	0.156	0.175	0.135	0.162	11.4
Pentachlorophenol		0.118	0.137	0.148	0.152	0.145	0.141	8.0
Phenanthrene		1.121	1.035	0.994	0.933	0.863	0.945	11.8
Anthracene		1.082	1.014	0.972	0.913	0.851	0.922	11.5
Carbazole		1.002	0.964	0.923	0.846	0.776	0.857	12.6
Di-n-butylphthalate		1.104	1.071	1.062	1.014	0.923	0.990	9.8
Fluoranthene		1.149	1.108	1.036	0.943	0.842	0.955	15.3
Pyrene		1.892	1.828	1.900	1.805	1.685	1.751	8.4
Terphenyl-d14		1.381	1.335	1.340	1.244	1.154	1.227	11.0
Butylbenzylphthalate		0.490	0.513	0.536	0.555	0.535	0.525	4.0
3,3-Dichlorobenzidine		0.368	0.372	0.390	0.387	0.374	0.380	2.2
Benzo (a) anthracene		1.425	1.355	1.329	1.331	1.267	1.302	6.5
Chrysene		1.325	1.244	1.234	1.167	1.134	1.194	6.5
Bis (2-ethylhexyl) phthalate		0.520	0.539	0.577	0.626	0.620	0.589	7.5
Di-n-octyl phthalate			0.786	0.930	1.135	1.182	1.071	16.1
Benzo (b) fluoranthene		1.317	1.240	1.319	1.196	1.105	1.218	7.1
Benzo (k) fluoranthene		1.213	1.177	0.992	1.066	1.030	1.051	10.4
Benzo (a) pyrene		1.030	1.024	1.018	1.025	0.974	1.002	3.1
Indeno (1,2,3-cd) pyrene		1.209	1.261	1.307	1.352	1.299	1.287	3.8

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.: P4578 SAS No.: P4578 SDG No.: P4578
 Instrument ID: BNA_F Calibration Date(s): 10/18/2024 10/18/2024
 Calibration Time(s): 10:27 13:46

LAB FILE ID:		RRF2.5 = BF139844.D		RRF005 = BF139845.D		RRF010 = BF139846.D		
		RRF020 = BF139847.D		RRF040 = BF139848.D		RRF050 = BF139849.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo (a,h) anthracene		1.021	1.064	1.103	1.120	1.083	1.073	3.3
Benzo (g,h,i) perylene		1.030	1.046	1.090	1.128	1.081	1.072	3.4
1,2,4,5-Tetrachlorobenzene		0.609	0.579	0.562	0.537	0.512	0.540	8.7
1,4-Dioxane		0.651	0.625	0.603	0.591	0.571	0.596	5.7
2,3,4,6-Tetrachlorophenol		0.334	0.322	0.326	0.310	0.296	0.309	6.3

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-BF101824.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Fri Oct 18 15:07:50 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BF139844.D 5 =BF139845.D 10 =BF139846.D 20 =BF139847.D 40 =BF139848.D 50 =BF139849.D 60 =BF139850.D 80 =BF139851.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.651	0.625	0.603	0.591	0.571	0.581	0.548	0.596	5.74	
3)	Pyridine	1.622	1.570	1.522	1.504	1.386	1.406	1.326	1.476	7.26	
4)	n-Nitrosodimet...	0.815	0.800	0.799	0.806	0.782	0.794	0.757	0.793	2.39	
5) S	2-Fluorophenol	1.465	1.398	1.331	1.278	1.179	1.186	1.106	1.278	10.10	
6)	Aniline	1.673	1.649	1.618	1.582	1.471	1.479	1.324	1.542	8.05	
7) S	Phenol-d6	1.900	1.818	1.709	1.647	1.538	1.539	1.432	1.655	10.06	
8)	2-Chlorophenol	1.503	1.422	1.358	1.310	1.212	1.221	1.116	1.306	10.24	
9)	Benzaldehyde		1.137	1.042	0.940	0.873	0.853	0.740	0.931	15.22	
10) C	Phenol	1.952	1.832	1.760	1.712	1.583	1.601	1.502	1.706	9.19	
11)	bis(2-Chloroet...	1.470	1.423	1.359	1.294	1.251	1.249	1.183	1.319	7.82	
12)	1,3-Dichlorobe...	1.718	1.656	1.544	1.499	1.392	1.391	1.294	1.499	10.19	
13) C	1,4-Dichlorobe...	1.723	1.641	1.558	1.487	1.392	1.391	1.291	1.498	10.19	
14)	1,2-Dichlorobe...	1.660	1.579	1.478	1.379	1.273	1.267	1.149	1.398	13.15	
15)	Benzyl Alcohol	1.355	1.299	1.257	1.213	1.154	1.146	1.071	1.214	8.07	
16)	2,2'-oxybis(1-...	2.524	2.409	2.353	2.255	2.117	2.115	1.964	2.248	8.69	
17)	2-Methylphenol	1.264	1.164	1.134	1.114	1.053	1.063	1.004	1.114	7.69	
18)	Hexachloroethane	0.583	0.571	0.549	0.541	0.507	0.511	0.477	0.534	7.06	
19) P	n-Nitroso-di-n...	1.105	1.141	1.066	1.025	0.974	0.921	0.927	0.869	1.004	9.63
20)	3+4-Methylphenols		1.678	1.573	1.520	1.418	1.309	1.300	1.173	1.424	12.41
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.578	0.533	0.516	0.481	0.452	0.454	0.414	0.490	11.43	
23) S	Nitrobenzene-d5	0.365	0.365	0.372	0.371	0.354	0.357	0.342	0.361	2.92	
24)	Nitrobenzene	0.417	0.402	0.408	0.403	0.383	0.388	0.370	0.396	4.10	
25)	Isophorone	0.755	0.709	0.702	0.679	0.652	0.660	0.637	0.685	5.90	
26) C	2-Nitrophenol	0.124	0.137	0.150	0.157	0.158	0.161	0.157	0.149	9.22	
27)	2,4-Dimethylph...	0.285	0.259	0.256	0.248	0.237	0.234	0.223	0.249	8.07	
28)	bis(2-Chloroet...	0.468	0.440	0.432	0.412	0.394	0.390	0.369	0.415	8.22	
29) C	2,4-Dichloroph...	0.308	0.297	0.293	0.283	0.272	0.274	0.257	0.283	6.17	
30)	1,2,4-Trichlor...	0.351	0.331	0.325	0.315	0.298	0.298	0.279	0.314	7.68	
31)	Naphthalene	1.209	1.121	1.091	1.023	0.958	0.944	0.875	1.031	11.23	
32)	Benzoic acid		0.175	0.207	0.220	0.231	0.235	0.235	0.217	10.69	
33)	4-Chloroaniline	0.397	0.382	0.368	0.351	0.332	0.326	0.306	0.352	9.26	
34) C	Hexachlorobuta...	0.224	0.206	0.203	0.197	0.185	0.187	0.177	0.197	7.96	
35)	Caprolactam	0.092	0.092	0.092	0.092	0.088	0.088	0.086	0.090	2.85	
36) C	4-Chloro-3-met...	0.341	0.328	0.324	0.315	0.299	0.303	0.287	0.314	6.03	
37)	2-Methylnaphth...	0.740	0.689	0.666	0.621	0.587	0.583	0.537	0.632	11.11	
38)	1-Methylnaphth...	0.726	0.683	0.655	0.612	0.569	0.567	0.526	0.620	11.55	

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF101824.M

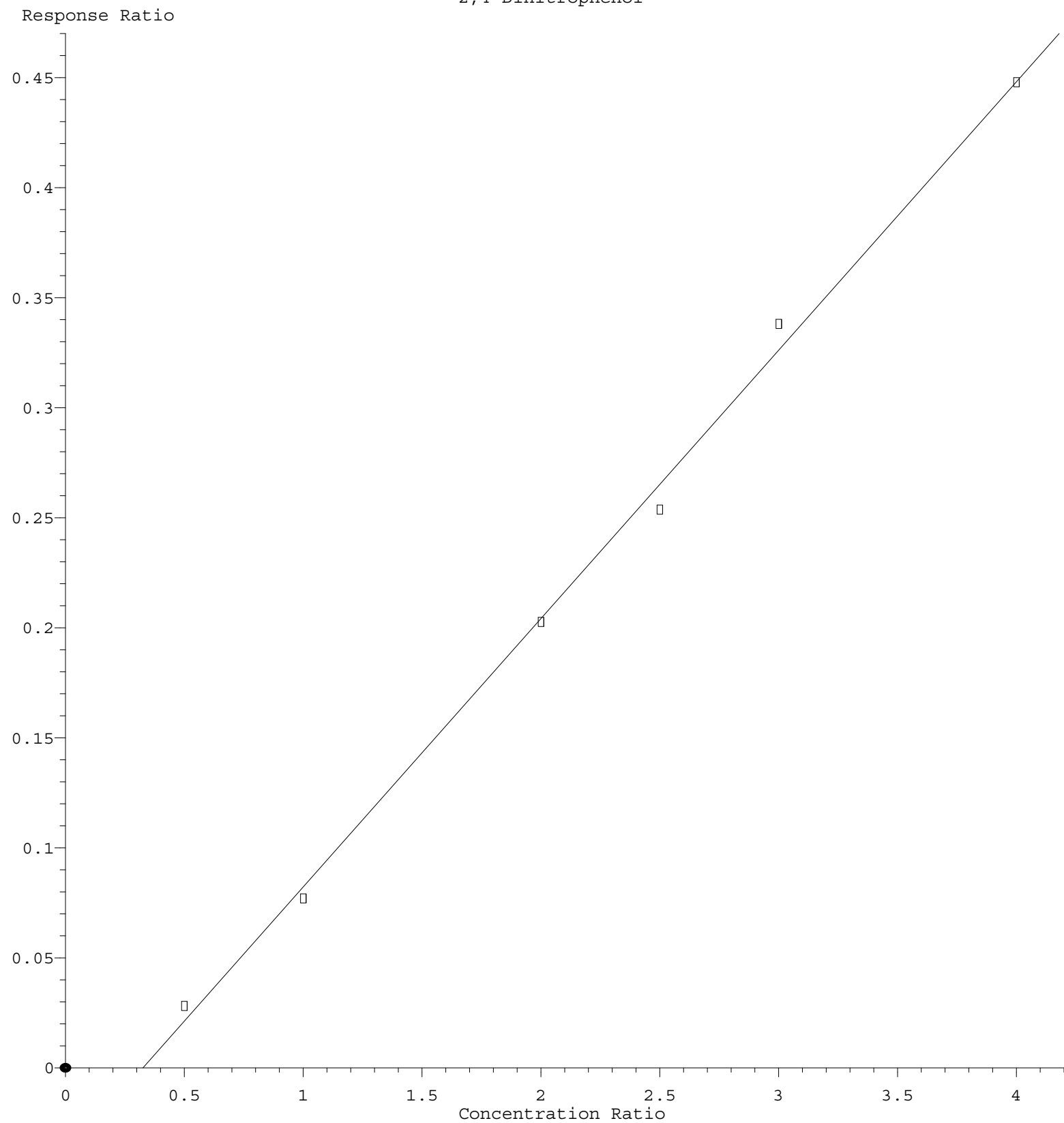
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.609	0.579	0.562	0.537	0.512	0.506	0.472	0.540	8.72	
41) P	Hexachlorocycl...	0.185	0.193	0.198	0.198	0.186	0.185	0.169	0.188	5.28	
42) S	2,4,6-Tribromo...	0.201	0.196	0.193	0.188	0.179	0.180	0.173	0.187	5.47	
43) C	2,4,6-Trichlor...	0.405	0.382	0.400	0.387	0.363	0.383	0.354	0.382	4.80	
44)	2,4,5-Trichlor...	0.426	0.425	0.398	0.401	0.381	0.369	0.359	0.394	6.58	
45) S	2-Fluorobiphenyl	1.512	1.396	1.280	1.162	1.088	1.060	0.973	1.210	16.05	
46)	1,1'-Biphenyl	1.640	1.536	1.483	1.379	1.285	1.262	1.161	1.392	12.18	
47)	2-Chloronaphth...	1.288	1.225	1.164	1.111	1.048	1.040	0.973	1.121	9.95	
48)	2-Nitroaniline	0.299	0.318	0.353	0.365	0.354	0.362	0.349	0.343	7.20	
49)	Acenaphthylene	1.854	1.756	1.717	1.615	1.507	1.505	1.394	1.621	10.06	
50)	Dimethylphthalate	1.410	1.344	1.283	1.237	1.172	1.163	1.110	1.246	8.60	
51)	2,6-Dinitrotol...	0.256	0.266	0.278	0.280	0.273	0.274	0.260	0.270	3.41	
52) C	Acenaphthene	1.200	1.136	1.089	1.044	0.977	0.983	0.913	1.049	9.55	
53)	3-Nitroaniline	0.270	0.275	0.296	0.292	0.276	0.282	0.256	0.278	4.84	
54) P	2,4-Dinitrophenol		0.056	0.077	0.101	0.101	0.113	0.112	0.093	23.89	
55)	Dibenzofuran	1.767	1.659	1.579	1.486	1.389	1.375	1.278	1.505	11.52	
56) P	4-Nitrophenol	0.187	0.207	0.225	0.232	0.219	0.220	0.208	0.214	6.84	
57)	2,4-Dinitrotol...	0.280	0.314	0.337	0.356	0.344	0.351	0.338	0.332	7.94	
58)	Fluorene	1.409	1.309	1.201	1.110	1.029	1.021	0.944	1.146	14.68	
59)	2,3,4,6-Tetrac...	0.334	0.322	0.326	0.310	0.296	0.293	0.281	0.309	6.33	
60)	Diethylphthalate	1.366	1.308	1.267	1.214	1.165	1.161	1.080	1.223	7.99	
61)	4-Chlorophenyl...	0.698	0.638	0.617	0.569	0.526	0.520	0.484	0.579	13.14	
62)	4-Nitroaniline	0.249	0.259	0.270	0.275	0.263	0.269	0.254	0.263	3.65	
63)	Azobenzene	1.459	1.385	1.355	1.306	1.216	1.212	1.143	1.297	8.62	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.055	0.072	0.087	0.090	0.092	0.093	0.082	18.60	
66) c	n-Nitrosodiphe...	0.672	0.641	0.621	0.595	0.568	0.561	0.533	0.599	8.14	
67)	4-Bromophenyl-...	0.230	0.217	0.211	0.202	0.197	0.196	0.189	0.206	6.98	
68)	Hexachlorobenzene	0.258	0.245	0.237	0.231	0.217	0.221	0.212	0.232	7.20	
69)	Atrazine	0.189	0.175	0.156	0.175	0.135	0.153	0.151	0.162	11.36	
70) C	Pentachlorophenol	0.118	0.137	0.148	0.152	0.145	0.144	0.140	0.141	8.04	
71)	Phenanthrene	1.121	1.035	0.994	0.933	0.863	0.860	0.807	0.945	11.79	
72)	Anthracene	1.082	1.014	0.972	0.913	0.851	0.833	0.787	0.922	11.53	
73)	Carbazole	1.002	0.964	0.923	0.846	0.776	0.772	0.717	0.857	12.64	
74)	Di-n-butylphth...	1.104	1.071	1.062	1.014	0.923	0.909	0.850	0.990	9.77	
75) C	Fluoranthene	1.149	1.108	1.036	0.943	0.842	0.835	0.772	0.955	15.34	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.457	0.461	0.293	0.366	0.276	0.203	0.246	0.329	30.86	
78)	Pyrene	1.892	1.828	1.900	1.805	1.685	1.649	1.496	1.751	8.43	
79) S	Terphenyl-d14	1.381	1.335	1.340	1.244	1.154	1.121	1.018	1.227	10.96	
80)	Butylbenzylphth...	0.490	0.513	0.536	0.555	0.535	0.531	0.514	0.525	3.99	
81)	Benzo(a)anthra...	1.425	1.355	1.329	1.331	1.267	1.237	1.169	1.302	6.48	
82)	3,3'-Dichlorob...	0.368	0.372	0.390	0.387	0.374	0.382	0.384	0.380	2.15	
83)	Chrysene	1.325	1.244	1.234	1.167	1.134	1.151	1.101	1.194	6.52	
84)	Bis(2-ethylhex...	0.520	0.539	0.577	0.626	0.620	0.626	0.614	0.589	7.48	
85) c	Di-n-octyl pht...		0.786	0.930	1.135	1.182	1.207	1.186	1.071	16.14	

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M

86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.209	1.261	1.307	1.352	1.299	1.326	1.253	1.287	3.77
88)	Benzo(b)fluora...	1.317	1.240	1.319	1.196	1.105	1.239	1.111	1.218	7.15
89)	Benzo(k)fluora...	1.213	1.177	0.992	1.066	1.030	0.929	0.947	1.051	10.42
90) C	Benzo(a)pyrene	1.030	1.024	1.018	1.025	0.974	0.999	0.947	1.002	3.12
91)	Dibenzo(a,h)an...	1.021	1.064	1.103	1.120	1.083	1.085	1.036	1.073	3.31
92)	Benzo(g,h,i)pe...	1.030	1.046	1.090	1.128	1.081	1.095	1.035	1.072	3.37

(#) = Out of Range

2,4-Dinitrophenol



Response = 1.220e-001 * Amt - 3.983e-002
 Coef of Det (r^2) = 0.997175 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF101824.M
 Calibration Table Last Updated: Fri Oct 18 15:07:50 2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139844.D
Acq On : 18 Oct 2024 10:27
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Oct 18 14:15:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration

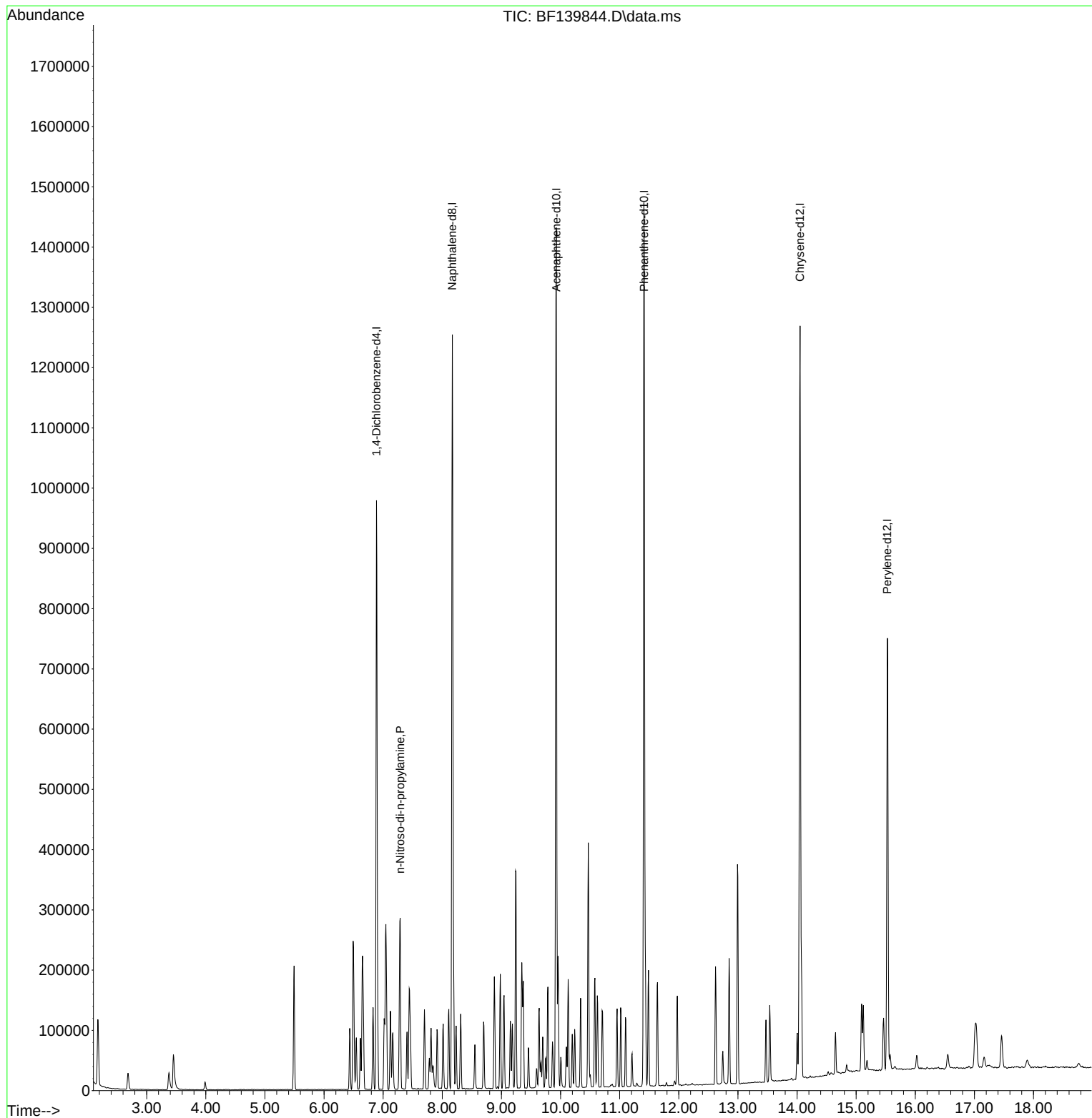
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	190003	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	748539	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	423999	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	760140	20.000	ng	0.00
76) Chrysene-d12	14.051	240	519381	20.000	ng	0.00
86) Perylene-d12	15.527	264	410408	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.000	ng	
7) Phenol-d6	0.000	99	0d	0.000	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.000	ng	
42) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
45) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng	
79) Terphenyl-d14	0.000	244	0d	0.000	ng	
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.287	70	26252	2.754	ng	94

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139844.D
Acq On : 18 Oct 2024 10:27
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Oct 18 14:15:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
 Data File : BF139845.D
 Acq On : 18 Oct 2024 10:55
 Operator : RC/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

Quant Time: Oct 18 14:16:29 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 14:11:20 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	189112	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	737062	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	414324	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	741430	20.000	ng	0.00
76) Chrysene-d12	14.051	240	477223	20.000	ng	0.00
86) Perylene-d12	15.527	264	377685	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	138495	11.465	ng	0.00
7) Phenol-d6	6.493	99	179648	11.482	ng	-0.02
23) Nitrobenzene-d5	7.445	82	134439	10.109	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	41682	10.755	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	313171	12.492	ng	0.00
79) Terphenyl-d14	12.992	244	329424	11.248	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.687	88	30759	5.461	ng	97
3) Pyridine	3.452	79	76703	5.494	ng	98
4) n-Nitrosodimethylamine	3.375	42	38552	5.140	ng	# 96
6) Aniline	6.545	93	79083	5.424	ng	98
8) 2-Chlorophenol	6.669	128	71065	5.754	ng	98
10) Phenol	6.510	94	92287	5.620	ng	95
11) bis(2-Chloroethyl)ether	6.616	93	69504	5.575	ng	98
12) 1,3-Dichlorobenzene	6.828	146	81239	5.731	ng	99
13) 1,4-Dichlorobenzene	6.904	146	81442	5.750	ng	99
14) 1,2-Dichlorobenzene	7.057	146	78458	5.936	ng	97
15) Benzyl Alcohol	7.016	79	64060	5.582	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	119350	5.614	ng	100
17) 2-Methylphenol	7.122	107	59770	5.676	ng	96
18) Hexachloroethane	7.404	117	27566	5.458	ng	96
19) n-Nitroso-di-n-propyla...	7.287	70	53958	5.686	ng	97
20) 3+4-Methylphenols	7.275	107	79329	5.890	ng	92
22) Acetophenone	7.287	105	106522	5.900	ng	98
24) Nitrobenzene	7.463	77	76831	5.269	ng	96
25) Isophorone	7.698	82	139084	5.510	ng	100
26) 2-Nitrophenol	7.781	139	22867	4.157	ng	95
27) 2,4-Dimethylphenol	7.810	122	52430	5.716	ng	97
28) bis(2-Chloroethoxy)met...	7.916	93	86298	5.643	ng	99
29) 2,4-Dichlorophenol	8.016	162	56772	5.434	ng	99
30) 1,2,4-Trichlorobenzene	8.110	180	64640	5.592	ng	99
31) Naphthalene	8.192	128	222725	5.859	ng	99
33) 4-Chloroaniline	8.234	127	73196	5.647	ng	99
34) Hexachlorobutadiene	8.310	225	41186	5.670	ng	97
35) Caprolactam	8.557	113	16989	5.114	ng	98
36) 4-Chloro-3-methylphenol	8.704	107	62903	5.438	ng	99
37) 2-Methylnaphthalene	8.881	142	136292	5.854	ng	99
38) 1-Methylnaphthalene	8.981	142	133747	5.856	ng	100
40) 1,2,4,5-Tetrachloroben...	9.045	216	63046	5.640	ng	100
41) Hexachlorocyclopentadiene	9.039	237	19121	4.916	ng	97
43) 2,4,6-Trichlorophenol	9.151	196	41997	5.307	ng	98
44) 2,4,5-Trichlorophenol	9.187	196	44086	5.399	ng	99
46) 1,1'-Biphenyl	9.345	154	169920	5.891	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
 Data File : BF139845.D
 Acq On : 18 Oct 2024 10:55
 Operator : RC/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

Quant Time: Oct 18 14:16:29 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 14:11:20 2024
 Response via : Initial Calibration

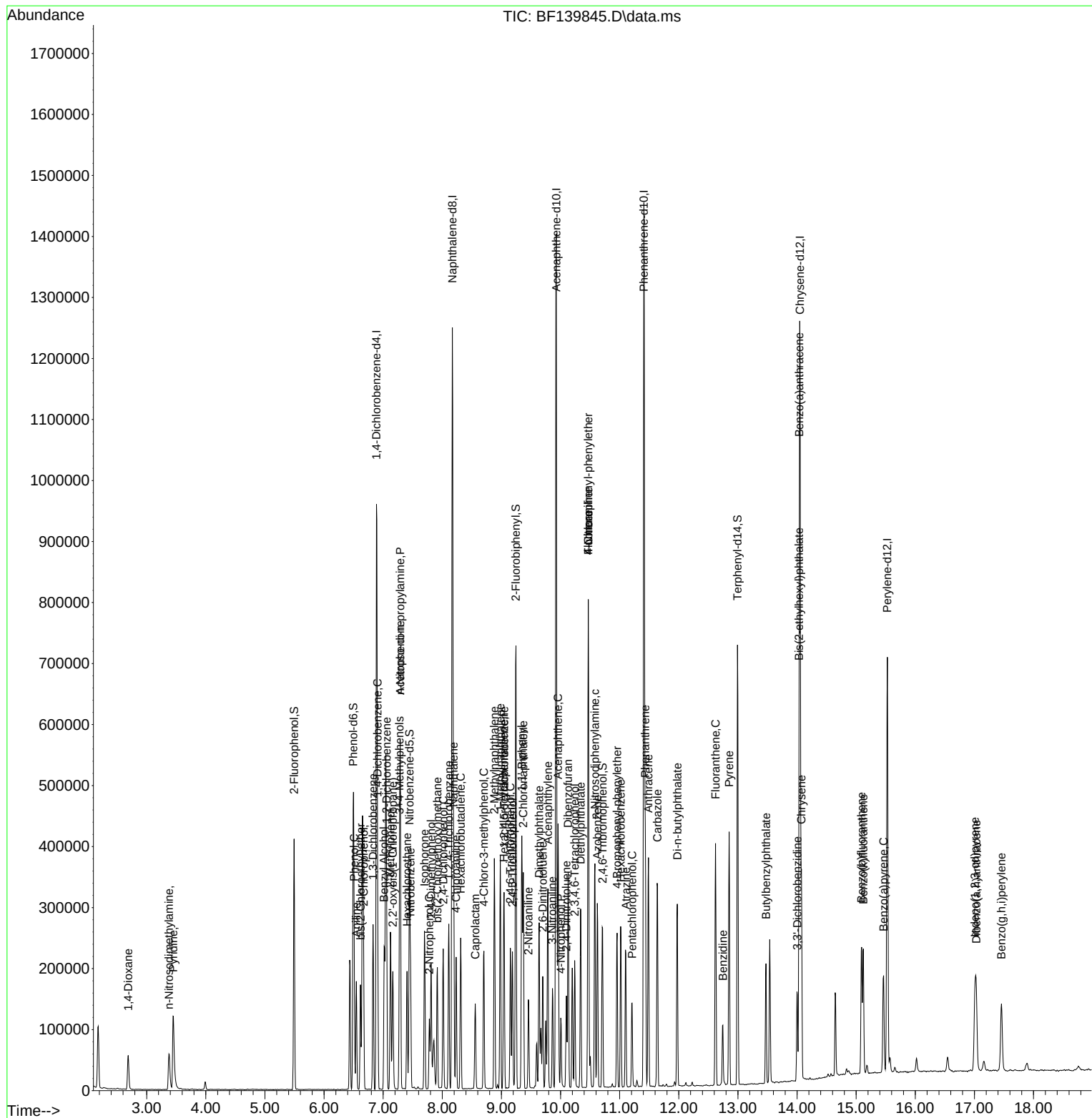
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) 2-Chloronaphthalene	9.369	162	133456	5.745	ng	99
48) 2-Nitroaniline	9.457	65	30999	4.363	ng	99
49) Acenaphthylene	9.786	152	192014	5.717	ng	99
50) Dimethylphthalate	9.639	163	146096	5.661	ng	100
51) 2,6-Dinitrotoluene	9.698	165	26490	4.741	ng	96
52) Acenaphthene	9.957	154	124288	5.721	ng	100
53) 3-Nitroaniline	9.863	138	27995	4.858	ng	# 94
55) Dibenzofuran	10.128	168	182985	5.870	ng	98
56) 4-Nitrophenol	10.004	139	19402	4.376	ng	89
57) 2,4-Dinitrotoluene	10.098	165	29038	4.226	ng	92
58) Fluorene	10.469	166	145913	6.146	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	34636	5.411	ng	97
60) Diethylphthalate	10.339	149	141466	5.583	ng	99
61) 4-Chlorophenyl-phenyle...	10.469	204	72331	6.033	ng	96
62) 4-Nitroaniline	10.469	138	25747	4.731	ng	96
63) Azobenzene	10.622	77	151158	5.627	ng	99
66) n-Nitrosodiphenylamine	10.581	169	124472	5.609	ng	100
67) 4-Bromophenyl-phenylether	10.957	248	42707	5.591	ng	94
68) Hexachlorobenzene	11.016	284	47895	5.575	ng	98
69) Atrazine	11.104	200	35075	5.835	ng	99
70) Pentachlorophenol	11.210	266	21781	4.178	ng	93
71) Phenanthrene	11.433	178	207716	5.931	ng	98
72) Anthracene	11.486	178	200621	5.871	ng	99
73) Carbazole	11.639	167	185743	5.845	ng	99
74) Di-n-butylphthalate	11.975	149	204647	5.574	ng	99
75) Fluoranthene	12.622	202	213038	6.017	ng	100
77) Benzidine	12.745	184	54501	7.022	ng	99
78) Pyrene	12.851	202	225742	5.404	ng	99
80) Butylbenzylphthalate	13.474	149	58502	4.671	ng	100
81) Benzo(a)anthracene	14.039	228	170026	5.473	ng	99
82) 3,3'-Dichlorobenzidine	14.004	252	43937	4.851	ng	100
83) Chrysene	14.074	228	158121	5.551	ng	98
84) Bis(2-ethylhexyl)phtha...	14.033	149	62085	4.419	ng	97
87) Indeno(1,2,3-cd)pyrene	17.010	276	114185	4.699	ng	98
88) Benzo(b)fluoranthene	15.092	252	124353	5.405	ng	100
89) Benzo(k)fluoranthene	15.121	252	114525	5.772	ng	99
90) Benzo(a)pyrene	15.463	252	97243	5.137	ng	100
91) Dibenzo(a,h)anthracene	17.033	278	96416	4.757	ng	99
92) Benzo(g,h,i)perylene	17.457	276	97292	4.805	ng	99

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


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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\  
Data File : BF139845.D  
Acq On    : 18 Oct 2024  10:55  
Operator  : RC/JU  
Sample    : SSTDICC005  
Misc      :  
ALS Vial  : 3    Sample Multiplier: 1
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Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Oct 18 14:16:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
 Data File : BF139846.D
 Acq On : 18 Oct 2024 11:23
 Operator : RC/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC010

Quant Time: Oct 18 14:17:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 14:11:20 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	188831	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	733621	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	411556	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	732661	20.000	ng	0.00
76) Chrysene-d12	14.051	240	452443	20.000	ng	0.00
86) Perylene-d12	15.527	264	375863	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	264054	21.891	ng	0.00
7) Phenol-d6	6.498	99	343334	21.977	ng	-0.01
23) Nitrobenzene-d5	7.445	82	268128	20.257	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	80655	20.952	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	574563	23.073	ng	0.00
79) Terphenyl-d14	12.998	244	603787	21.745	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.681	88	58969	10.485	ng	97
3) Pyridine	3.440	79	148260	10.636	ng	97
4) n-Nitrosodimethylamine	3.375	42	75504	10.081	ng	96
6) Aniline	6.546	93	155680	10.692	ng	98
8) 2-Chlorophenol	6.669	128	134290	10.890	ng	99
9) Benzaldehyde	6.440	77	107330	12.213	ng	98
10) Phenol	6.510	94	172965	10.549	ng	98
11) bis(2-Chloroethyl)ether	6.616	93	134367	10.794	ng	100
12) 1,3-Dichlorobenzene	6.828	146	156338	11.045	ng	99
13) 1,4-Dichlorobenzene	6.904	146	154957	10.957	ng	99
14) 1,2-Dichlorobenzene	7.057	146	149129	11.299	ng	98
15) Benzyl Alcohol	7.022	79	122669	10.704	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	227443	10.715	ng	99
17) 2-Methylphenol	7.128	107	109901	10.452	ng	98
18) Hexachloroethane	7.404	117	53892	10.686	ng	99
19) n-Nitroso-di-n-propyla...	7.293	70	100635	10.621	ng	98
20) 3+4-Methylphenols	7.275	107	148497	11.041	ng	# 90
22) Acetophenone	7.293	105	195595	10.885	ng	96
24) Nitrobenzene	7.463	77	147356	10.154	ng	98
25) Isophorone	7.698	82	260247	10.359	ng	98
26) 2-Nitrophenol	7.781	139	50159	9.162	ng	100
27) 2,4-Dimethylphenol	7.810	122	94947	10.400	ng	99
28) bis(2-Chloroethoxy)met...	7.916	93	161423	10.605	ng	99
29) 2,4-Dichlorophenol	8.016	162	109102	10.492	ng	100
30) 1,2,4-Trichlorobenzene	8.110	180	121232	10.537	ng	99
31) Naphthalene	8.192	128	411053	10.864	ng	99
32) Benzoic acid	7.869	122	64294	8.075	ng	99
33) 4-Chloroaniline	8.234	127	140021	10.853	ng	100
34) Hexachlorobutadiene	8.310	225	75740	10.477	ng	99
35) Caprolactam	8.569	113	33908	10.256	ng	99
36) 4-Chloro-3-methylphenol	8.704	107	120339	10.452	ng	98
37) 2-Methylnaphthalene	8.881	142	252554	10.899	ng	99
38) 1-Methylnaphthalene	8.981	142	250609	11.023	ng	99
40) 1,2,4,5-Tetrachloroben...	9.045	216	119227	10.738	ng	99
41) Hexachlorocyclopentadiene	9.039	237	39754	10.290	ng	98
43) 2,4,6-Trichlorophenol	9.151	196	78578	9.996	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
 Data File : BF139846.D
 Acq On : 18 Oct 2024 11:23
 Operator : RC/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC010

Quant Time: Oct 18 14:17:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 14:11:20 2024
 Response via : Initial Calibration

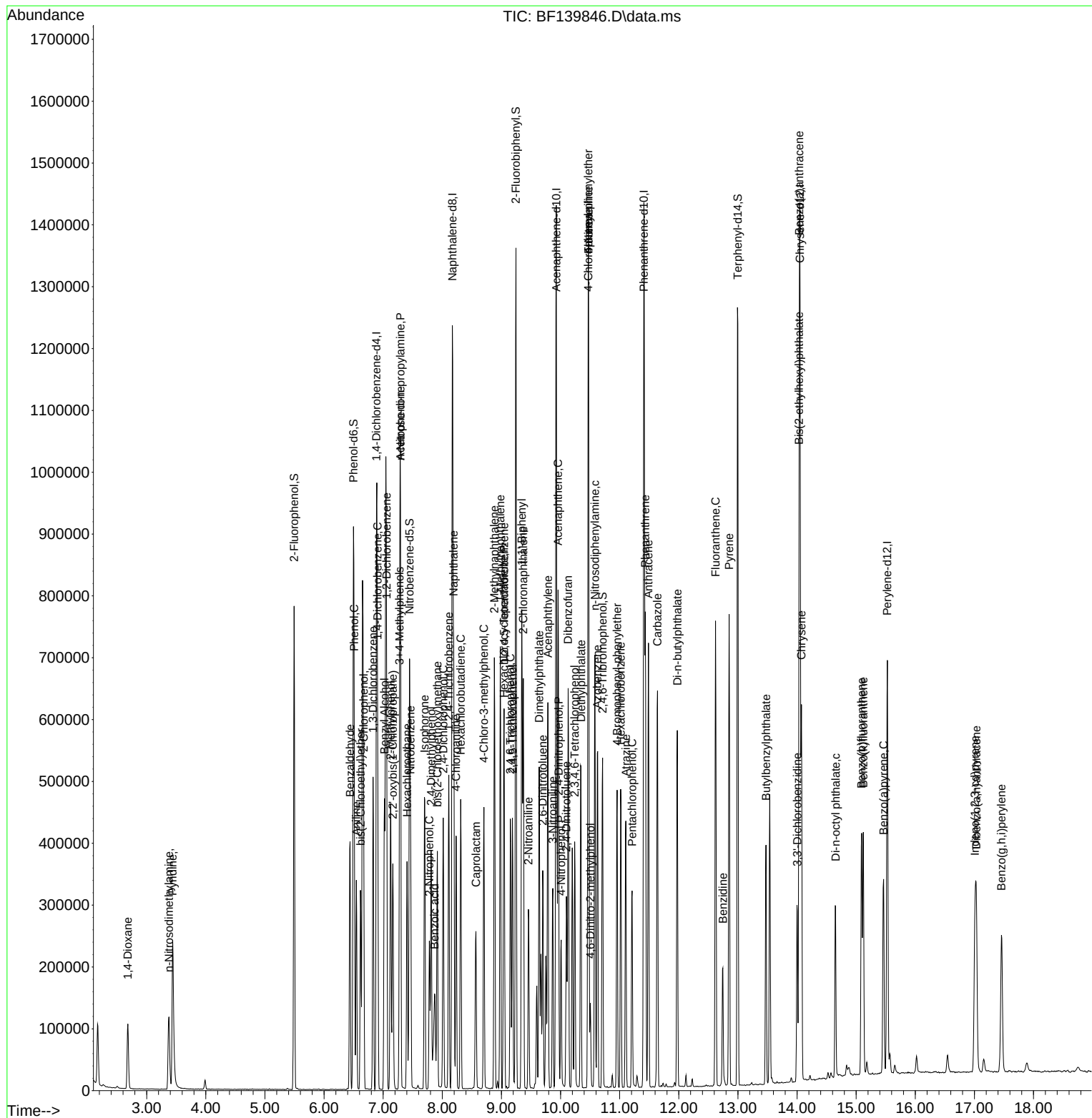
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.187	196	87482	10.787	ng	100
46) 1,1'-Biphenyl	9.345	154	316146	11.035	ng	99
47) 2-Chloronaphthalene	9.369	162	252140	10.927	ng	98
48) 2-Nitroaniline	9.457	65	65425	9.270	ng	98
49) Acenaphthylene	9.787	152	361398	10.833	ng	99
50) Dimethylphthalate	9.639	163	276645	10.792	ng	99
51) 2,6-Dinitrotoluene	9.698	165	54824	9.877	ng	95
52) Acenaphthene	9.957	154	233749	10.832	ng	98
53) 3-Nitroaniline	9.869	138	56574	9.884	ng	# 98
54) 2,4-Dinitrophenol	9.969	184	11577	11.138	ng	# 1
55) Dibenzofuran	10.128	168	341446	11.028	ng	98
56) 4-Nitrophenol	10.010	139	42688	9.694	ng	98
57) 2,4-Dinitrotoluene	10.098	165	64666	9.474	ng	94
58) Fluorene	10.475	166	269323	11.420	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	66170	10.408	ng	97
60) Diethylphthalate	10.345	149	269178	10.694	ng	100
61) 4-Chlorophenyl-phenyle...	10.469	204	131191	11.016	ng	97
62) 4-Nitroaniline	10.475	138	53288	9.857	ng	98
63) Azobenzene	10.622	77	284960	10.679	ng	100
65) 4,6-Dinitro-2-methylph...	10.504	198	20120	6.732	ng	97
66) n-Nitrosodiphenylamine	10.581	169	234741	10.705	ng	99
67) 4-Bromophenyl-phenylether	10.957	248	79420	10.522	ng	98
68) Hexachlorobenzene	11.016	284	89927	10.594	ng	98
69) Atrazine	11.104	200	64267	10.819	ng	99
70) Pentachlorophenol	11.210	266	50361	9.775	ng	100
71) Phenanthrene	11.433	178	379233	10.958	ng	99
72) Anthracene	11.486	178	371391	10.999	ng	99
73) Carbazole	11.639	167	353253	11.249	ng	99
74) Di-n-butylphthalate	11.975	149	392482	10.818	ng	99
75) Fluoranthene	12.622	202	405919	11.602	ng	99
77) Benzidine	12.745	184	104253	14.168	ng	99
78) Pyrene	12.851	202	413606	10.444	ng	99
80) Butylbenzylphthalate	13.474	149	116053	9.774	ng	100
81) Benzo(a)anthracene	14.039	228	306594	10.410	ng	99
82) 3,3'-Dichlorobenzidine	14.004	252	84205	9.806	ng	99
83) Chrysene	14.074	228	281467	10.423	ng	99
84) Bis(2-ethylhexyl)phtha...	14.033	149	121932	9.153	ng	99
85) Di-n-octyl phthalate	14.651	149	177824	7.339	ng	99
87) Indeno(1,2,3-cd)pyrene	17.010	276	236914	9.798	ng	99
88) Benzo(b)fluoranthene	15.092	252	232988	10.176	ng	99
89) Benzo(k)fluoranthene	15.121	252	221219	11.203	ng	99
90) Benzo(a)pyrene	15.463	252	192493	10.217	ng	100
91) Dibenzo(a,h)anthracene	17.033	278	199946	9.912	ng	99
92) Benzo(g,h,i)perylene	17.457	276	196609	9.758	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139846.D
Acq On : 18 Oct 2024 11:23
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Oct 18 14:17:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
 Data File : BF139847.D
 Acq On : 18 Oct 2024 11:52
 Operator : RC/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC020

Quant Time: Oct 18 14:18:00 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 14:11:20 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	192582	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	735124	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	413023	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	724973	20.000	ng	0.00
76) Chrysene-d12	14.051	240	402251	20.000	ng	0.00
86) Perylene-d12	15.527	264	371811	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	512648	41.673	ng	0.00
7) Phenol-d6	6.504	99	658086	41.304	ng	0.00
23) Nitrobenzene-d5	7.451	82	546550	41.206	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	159165	41.199	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1057523	42.316	ng	0.00
79) Terphenyl-d14	12.998	244	1078101	43.673	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.681	88	116188	20.257	ng	98
3) Pyridine	3.440	79	293019	20.611	ng	98
4) n-Nitrosodimethylamine	3.381	42	153824	20.138	ng	99
6) Aniline	6.551	93	311561	20.982	ng	99
8) 2-Chlorophenol	6.669	128	261502	20.794	ng	98
9) Benzaldehyde	6.440	77	200586	22.379	ng	98
10) Phenol	6.516	94	338933	20.269	ng	98
11) bis(2-Chloroethyl)ether	6.622	93	261690	20.612	ng	99
12) 1,3-Dichlorobenzene	6.828	146	297432	20.603	ng	99
13) 1,4-Dichlorobenzene	6.910	146	300107	20.808	ng	98
14) 1,2-Dichlorobenzene	7.063	146	284645	21.146	ng	99
15) Benzyl Alcohol	7.022	79	242106	20.715	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	453174	20.933	ng	99
17) 2-Methylphenol	7.128	107	218455	20.371	ng	99
18) Hexachloroethane	7.404	117	105775	20.566	ng	98
19) n-Nitroso-di-n-propyla...	7.293	70	197390	20.427	ng	97
20) 3+4-Methylphenols	7.281	107	292795	21.346	ng	96
22) Acetophenone	7.293	105	379127	21.056	ng	99
24) Nitrobenzene	7.469	77	299625	20.604	ng	99
25) Isophorone	7.704	82	516119	20.502	ng	100
26) 2-Nitrophenol	7.787	139	110497	20.141	ng	97
27) 2,4-Dimethylphenol	7.816	122	187930	20.544	ng	98
28) bis(2-Chloroethoxy)met...	7.916	93	317497	20.816	ng	99
29) 2,4-Dichlorophenol	8.016	162	215409	20.673	ng	98
30) 1,2,4-Trichlorobenzene	8.110	180	238559	20.691	ng	100
31) Naphthalene	8.192	128	801971	21.153	ng	99
32) Benzoic acid	7.892	122	152028	19.054	ng	99
33) 4-Chloroaniline	8.239	127	270435	20.919	ng	98
34) Hexachlorobutadiene	8.310	225	149527	20.641	ng	100
35) Caprolactam	8.587	113	67624	20.411	ng	100
36) 4-Chloro-3-methylphenol	8.704	107	238461	20.668	ng	100
37) 2-Methylnaphthalene	8.881	142	489343	21.075	ng	100
38) 1-Methylnaphthalene	8.981	142	481797	21.149	ng	100
40) 1,2,4,5-Tetrachloroben...	9.045	216	232025	20.823	ng	99
41) Hexachlorocyclopentadiene	9.039	237	81579	21.041	ng	99
43) 2,4,6-Trichlorophenol	9.157	196	165112	20.930	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
 Data File : BF139847.D
 Acq On : 18 Oct 2024 11:52
 Operator : RC/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC020

Quant Time: Oct 18 14:18:00 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 14:11:20 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	164517	20.213	ng	98
46) 1,1'-Biphenyl	9.345	154	612342	21.297	ng	99
47) 2-Chloronaphthalene	9.375	162	480916	20.767	ng	99
48) 2-Nitroaniline	9.463	65	146002	20.614	ng	98
49) Acenaphthylene	9.786	152	709161	21.182	ng	99
50) Dimethylphthalate	9.645	163	529745	20.592	ng	100
51) 2,6-Dinitrotoluene	9.704	165	114726	20.596	ng	98
52) Acenaphthene	9.963	154	449770	20.768	ng	99
53) 3-Nitroaniline	9.869	138	122186	21.271	ng	99
54) 2,4-Dinitrophenol	9.975	184	31801	19.148	ng	# 67
55) Dibenzofuran	10.134	168	652249	20.991	ng	98
56) 4-Nitrophenol	10.010	139	93060	21.057	ng	95
57) 2,4-Dinitrotoluene	10.104	165	139381	20.348	ng	98
58) Fluorene	10.475	166	496012	20.958	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	134842	21.133	ng	98
60) Diethylphthalate	10.345	149	523458	20.723	ng	100
61) 4-Chlorophenyl-phenyle...	10.469	204	254950	21.331	ng	97
62) 4-Nitroaniline	10.481	138	111683	20.586	ng	98
63) Azobenzene	10.628	77	559837	20.906	ng	99
65) 4,6-Dinitro-2-methylph...	10.510	198	52180	17.645	ng	100
66) n-Nitrosodiphenylamine	10.581	169	449925	20.736	ng	99
67) 4-Bromophenyl-phenylether	10.957	248	153196	20.512	ng	98
68) Hexachlorobenzene	11.022	284	172091	20.488	ng	99
69) Atrazine	11.104	200	113089	19.240	ng	99
70) Pentachlorophenol	11.210	266	107595	21.106	ng	99
71) Phenanthrene	11.439	178	720363	21.036	ng	100
72) Anthracene	11.486	178	704417	21.083	ng	99
73) Carbazole	11.639	167	669328	21.540	ng	100
74) Di-n-butylphthalate	11.975	149	769779	21.442	ng	99
75) Fluoranthene	12.622	202	751337	21.703	ng	99
77) Benzidine	12.745	184	118035	18.042	ng	100
78) Pyrene	12.851	202	764077	21.700	ng	100
80) Butylbenzylphthalate	13.474	149	215683	20.432	ng	98
81) Benzo(a)anthracene	14.039	228	534525	20.413	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	156770	20.534	ng	100
83) Chrysene	14.074	228	496447	20.678	ng	99
84) Bis(2-ethylhexyl)phtha...	14.033	149	232200	19.606	ng	99
85) Di-n-octyl phthalate	14.651	149	373952	17.359	ng	100
87) Indeno(1,2,3-cd)pyrene	17.015	276	485858	20.312	ng	100
88) Benzo(b)fluoranthene	15.092	252	490566	21.659	ng	100
89) Benzo(k)fluoranthene	15.121	252	368835	18.883	ng	99
90) Benzo(a)pyrene	15.463	252	378617	20.316	ng	100
91) Dibenzo(a,h)anthracene	17.039	278	410285	20.561	ng	99
92) Benzo(g,h,i)perylene	17.468	276	405140	20.326	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\BF101824\
 Data File : BF139848.D
 Acq On : 18 Oct 2024 12:20
 Operator : RC/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICCC040

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/21/2024
 Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:18:47 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 14:11:20 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	181899	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	688880	20.000	ng	0.00
39) Acenaphthene-d10	9.927	164	379753	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	663459	20.000	ng	0.00
76) Chrysene-d12	14.051	240	345800	20.000	ng	0.00
86) Perylene-d12	15.527	264	365076	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	929569	80.002	ng	0.00
7) Phenol-d6	6.510	99	1197998	79.607	ng	0.00
23) Nitrobenzene-d5	7.451	82	1021808	82.209	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	285205	80.292	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	1764495	76.791	ng	0.00
79) Terphenyl-d14	12.998	244	1721125	81.103	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.687	88	214958	39.679	ng	100
3) Pyridine	3.446	79	547145	40.746	ng	100
4) n-Nitrosodimethylamine	3.398	42	293138	40.631	ng	100
6) Aniline	6.551	93	575402	41.026	ng	100
8) 2-Chlorophenol	6.675	128	476614	40.124	ng	100
9) Benzaldehyde	6.439	77	341959	40.393	ng	100
10) Phenol	6.522	94	622748m	39.429	ng	
11) bis(2-Chloroethyl)ether	6.628	93	470765	39.258	ng	100
12) 1,3-Dichlorobenzene	6.834	146	545252	39.988	ng	100
13) 1,4-Dichlorobenzene	6.910	146	541068	39.718	ng	100
14) 1,2-Dichlorobenzene	7.063	146	501857	39.473	ng	100
15) Benzyl Alcohol	7.028	79	441461	39.991	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.169	45	820216	40.113	ng	100
17) 2-Methylphenol	7.133	107	405109	39.996	ng	100
18) Hexachloroethane	7.404	117	196637	40.478	ng	100
19) n-Nitroso-di-n-propyla...	7.304	70	354454	38.835	ng	100
20) 3+4-Methylphenols	7.286	107	515857	39.818	ng	100
22) Acetophenone	7.298	105	663304	39.312	ng	100
24) Nitrobenzene	7.475	77	555115	40.735	ng	100
25) Isophorone	7.710	82	935400	39.651	ng	100
26) 2-Nitrophenol	7.786	139	216916	42.193	ng	100
27) 2,4-Dimethylphenol	7.816	122	341985	39.894	ng	100
28) bis(2-Chloroethoxy)met...	7.922	93	567188	39.683	ng	100
29) 2,4-Dichlorophenol	8.022	162	390330	39.976	ng	100
30) 1,2,4-Trichlorobenzene	8.116	180	434274	40.195	ng	100
31) Naphthalene	8.198	128	1409796	39.681	ng	100
32) Benzoic acid	7.922	122	302443	40.451	ng	100
33) 4-Chloroaniline	8.239	127	483982	39.950	ng	100
34) Hexachlorobutadiene	8.316	225	271315	39.967	ng	100
35) Caprolactam	8.610	113	126585	40.772	ng	100
36) 4-Chloro-3-methylphenol	8.710	107	433727	40.116	ng	100
37) 2-Methylnaphthalene	8.886	142	856111	39.345	ng	100
38) 1-Methylnaphthalene	8.986	142	842638	39.471	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	407511	39.776	ng	100
41) Hexachlorocyclopentadiene	9.039	237	150540	42.229	ng	100
43) 2,4,6-Trichlorophenol	9.157	196	293577	40.474	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
 Data File : BF139848.D
 Acq On : 18 Oct 2024 12:20
 Operator : RC/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICCC040

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/21/2024
 Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:18:47 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 14:11:20 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	304213	40.651	ng	100
46) 1,1'-Biphenyl	9.351	154	1047094	39.608	ng	100
47) 2-Chloronaphthalene	9.375	162	843452	39.613	ng	100
48) 2-Nitroaniline	9.463	65	277165	42.562	ng	100
49) Acenaphthylene	9.792	152	1226273	39.837	ng	100
50) Dimethylphthalate	9.651	163	939670	39.726	ng	100
51) 2,6-Dinitrotoluene	9.710	165	212956	41.580	ng	100
52) Acenaphthene	9.963	154	792756	39.811	ng	100
53) 3-Nitroaniline	9.874	138	222098	42.051	ng	100
54) 2,4-Dinitrophenol	9.974	184	76948	39.739	ng	100
55) Dibenzofuran	10.133	168	1128670	39.505	ng	100
56) 4-Nitrophenol	10.022	139	175913	43.292	ng	100
57) 2,4-Dinitrotoluene	10.110	165	270604	42.965	ng	100
58) Fluorene	10.474	166	843048	38.742	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	235175	40.087	ng	100
60) Diethylphthalate	10.351	149	922384	39.715	ng	100
61) 4-Chlorophenyl-phenyle...	10.469	204	432393	39.347	ng	100
62) 4-Nitroaniline	10.486	138	208926	41.884	ng	100
63) Azobenzene	10.627	77	991989	40.289	ng	100
65) 4,6-Dinitro-2-methylph...	10.516	198	115824	42.799	ng	100
66) n-Nitrosodiphenylamine	10.586	169	789753	39.772	ng	100
67) 4-Bromophenyl-phenylether	10.957	248	268509	39.285	ng	100
68) Hexachlorobenzene	11.021	284	306919	39.927	ng	100
69) Atrazine	11.110	200	232078	43.145	ng	100
70) Pentachlorophenol	11.210	266	201559	43.204	ng	100
71) Phenanthrene	11.439	178	1238155	39.508	ng	100
72) Anthracene	11.492	178	1211718	39.628	ng	100
73) Carbazole	11.639	167	1122566	39.475	ng	100
74) Di-n-butylphthalate	11.974	149	1345878	40.965	ng	100
75) Fluoranthene	12.627	202	1251202	39.493	ng	100
77) Benzidine	12.745	184	252893	44.967	ng	100
78) Pyrene	12.857	202	1248309	41.241	ng	100
80) Butylbenzylphthalate	13.474	149	383831	42.297	ng	100
81) Benzo(a)anthracene	14.039	228	920698	40.901	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	267769	40.798	ng	100
83) Chrysene	14.080	228	806950	39.098	ng	100
84) Bis(2-ethylhexyl)phtha...	14.033	149	432750	42.504	ng	100
85) Di-n-octyl phthalate	14.651	149	785179	42.399	ng	100
87) Indeno(1,2,3-cd)pyrene	17.021	276	987345	42.039	ng	100
88) Benzo(b)fluoranthene	15.098	252	873168	39.263	ng	100
89) Benzo(k)fluoranthene	15.127	252	778470	40.589	ng	100
90) Benzo(a)pyrene	15.468	252	748507	40.905	ng	100
91) Dibenzo(a,h)anthracene	17.045	278	818044	41.752	ng	100
92) Benzo(g,h,i)perylene	17.480	276	823727	42.090	ng	100

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

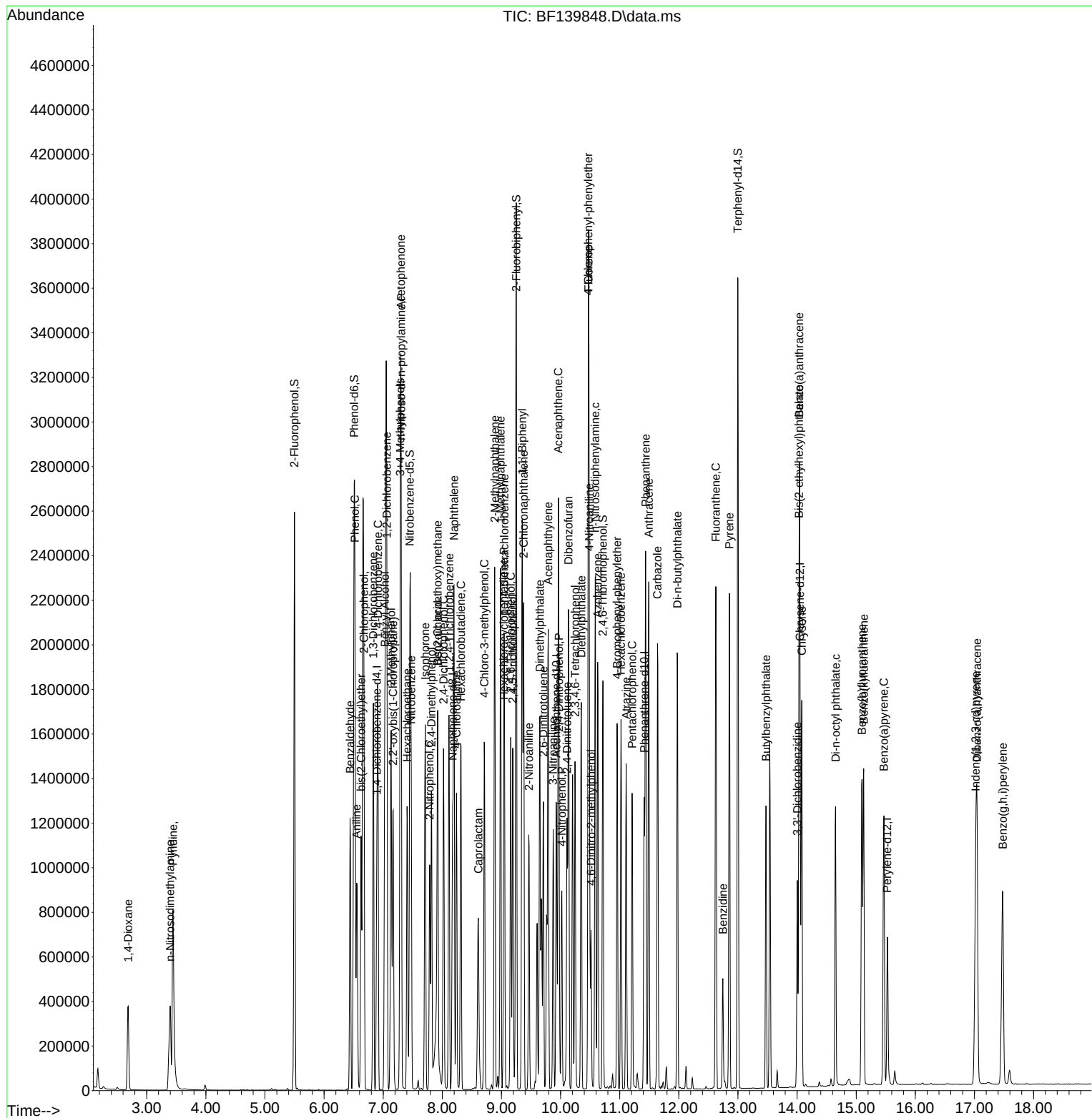
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139848.D
Acq On : 18 Oct 2024 12:20
Operator : RC/JU
Sample : SSTIDICC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:18:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
 Data File : BF139849.D
 Acq On : 18 Oct 2024 12:49
 Operator : RC/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/21/2024

Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:19:35 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 18 14:11:20 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	197235	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	739665	20.000	ng	0.00
39) Acenaphthene-d10	9.927	164	405194	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	694873	20.000	ng	0.00
76) Chrysene-d12	14.051	240	349496	20.000	ng	0.00
86) Perylene-d12	15.527	264	390757	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1162820	92.295	ng	0.00
7) Phenol-d6	6.510	99	1517079	92.972	ng	0.00
23) Nitrobenzene-d5	7.457	82	1310450	98.193	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	362330	95.600	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	2204460	89.915	ng	0.00
79) Terphenyl-d14	12.998	244	2015874	93.988	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.687	88	281572	47.933	ng	99
3) Pyridine	3.446	79	683175	46.920	ng	99
4) n-Nitrosodimethylamine	3.404	42	385387	49.264	ng	97
6) Aniline	6.557	93	725204	47.686	ng	98
8) 2-Chlorophenol	6.675	128	597810	46.414	ng	98
9) Benzaldehyde	6.439	77	430623	46.911	ng	100
10) Phenol	6.528	94	780406m	45.569	ng	
11) bis(2-Chloroethyl)ether	6.628	93	617014	47.453	ng	99
12) 1,3-Dichlorobenzene	6.834	146	686600	46.439	ng	99
13) 1,4-Dichlorobenzene	6.910	146	686616	46.483	ng	99
14) 1,2-Dichlorobenzene	7.063	146	627851	45.543	ng	99
15) Benzyl Alcohol	7.028	79	569012	47.538	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.169	45	1043921	47.084	ng	100
17) 2-Methylphenol	7.134	107	519035	47.259	ng	99
18) Hexachloroethane	7.404	117	250100	47.480	ng	100
19) n-Nitroso-di-n-propyla...	7.310	70	454173	45.892	ng	99
20) 3+4-Methylphenols	7.292	107	645650	45.961	ng	# 88
22) Acetophenone	7.304	105	835908	46.140	ng	97
24) Nitrobenzene	7.475	77	707970	48.385	ng	100
25) Isophorone	7.710	82	1205277	47.583	ng	99
26) 2-Nitrophenol	7.786	139	292634	53.013	ng	99
27) 2,4-Dimethylphenol	7.822	122	439040	47.699	ng	98
28) bis(2-Chloroethoxy)met...	7.922	93	728968	47.500	ng	100
29) 2,4-Dichlorophenol	8.028	162	502930	47.971	ng	98
30) 1,2,4-Trichlorobenzene	8.116	180	550757	47.476	ng	99
31) Naphthalene	8.198	128	1770616	46.415	ng	100
32) Benzoic acid	7.933	122	426532	53.131	ng	100
33) 4-Chloroaniline	8.245	127	613822	47.189	ng	99
34) Hexachlorobutadiene	8.316	225	343002	47.058	ng	100
35) Caprolactam	8.616	113	162260	48.675	ng	98
36) 4-Chloro-3-methylphenol	8.716	107	553487	47.678	ng	99
37) 2-Methylnaphthalene	8.886	142	1085491	46.462	ng	99
38) 1-Methylnaphthalene	8.986	142	1052879	45.933	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	518960	47.474	ng	99
41) Hexachlorocyclopentadiene	9.039	237	188234	49.488	ng	99
43) 2,4,6-Trichlorophenol	9.157	196	367373	47.468	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
 Data File : BF139849.D
 Acq On : 18 Oct 2024 12:49
 Operator : RC/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC050

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/21/2024
 Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:19:35 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 14:11:20 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	385963	48.336	ng	98
46) 1,1'-Biphenyl	9.351	154	1301562	46.143	ng	99
47) 2-Chloronaphthalene	9.375	162	1061417	46.720	ng	99
48) 2-Nitroaniline	9.469	65	358283	51.564	ng	97
49) Acenaphthylene	9.792	152	1526583	46.479	ng	99
50) Dimethylphthalate	9.651	163	1187472	47.050	ng	99
51) 2,6-Dinitrotoluene	9.710	165	277023	50.693	ng	99
52) Acenaphthene	9.963	154	989603	46.576	ng	100
53) 3-Nitroaniline	9.880	138	279467	49.591	ng	100
54) 2,4-Dinitrophenol	9.980	184	102786	48.105	ng #	18
55) Dibenzofuran	10.133	168	1407211	46.162	ng	99
56) 4-Nitrophenol	10.022	139	221410	51.068	ng	97
57) 2,4-Dinitrotoluene	10.110	165	348628	51.878	ng	97
58) Fluorene	10.480	166	1042268	44.889	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	300306	47.975	ng	99
60) Diethylphthalate	10.351	149	1180411	47.634	ng	99
61) 4-Chlorophenyl-phenyle...	10.469	204	532654	45.427	ng	98
62) 4-Nitroaniline	10.492	138	266320	50.037	ng	99
63) Azobenzene	10.633	77	1231644	46.881	ng	98
65) 4,6-Dinitro-2-methylph...	10.522	198	156461	55.202	ng	94
66) n-Nitrosodiphenylamine	10.586	169	987295	47.472	ng	100
67) 4-Bromophenyl-phenylether	10.963	248	341790	47.746	ng	97
68) Hexachlorobenzene	11.027	284	376968	46.823	ng	98
69) Atrazine	11.110	200	234998	41.713	ng	99
70) Pentachlorophenol	11.216	266	252064	51.587	ng	98
71) Phenanthrene	11.439	178	1500010	45.700	ng	99
72) Anthracene	11.492	178	1478655	46.172	ng	99
73) Carbazole	11.645	167	1348098	45.263	ng	99
74) Di-n-butylphthalate	11.974	149	1602928	46.583	ng	100
75) Fluoranthene	12.627	202	1462936	44.089	ng	99
77) Benzidine	12.745	184	240940	42.388	ng	99
78) Pyrene	12.857	202	1471893	48.113	ng	100
80) Butylbenzylphthalate	13.474	149	467242	50.944	ng	100
81) Benzo(a)anthracene	14.045	228	1107235	48.667	ng	99
82) 3,3'-Dichlorobenzidine	14.004	252	326706	49.251	ng	98
83) Chrysene	14.080	228	990517	47.484	ng	99
84) Bis(2-ethylhexyl)phtha...	14.033	149	541828	52.655	ng	100
85) Di-n-octyl phthalate	14.651	149	1033054	55.195	ng	100
87) Indeno(1,2,3-cd)pyrene	17.027	276	1268552	50.463	ng	100
88) Benzo(b)fluoranthene	15.098	252	1079928	45.369	ng	100
89) Benzo(k)fluoranthene	15.127	252	1006425	49.026	ng	99
90) Benzo(a)pyrene	15.468	252	951346	48.573	ng	99
91) Dibenzo(a,h)anthracene	17.045	278	1058119	50.456	ng	100
92) Benzo(g,h,i)perylene	17.480	276	1055618	50.394	ng	99

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

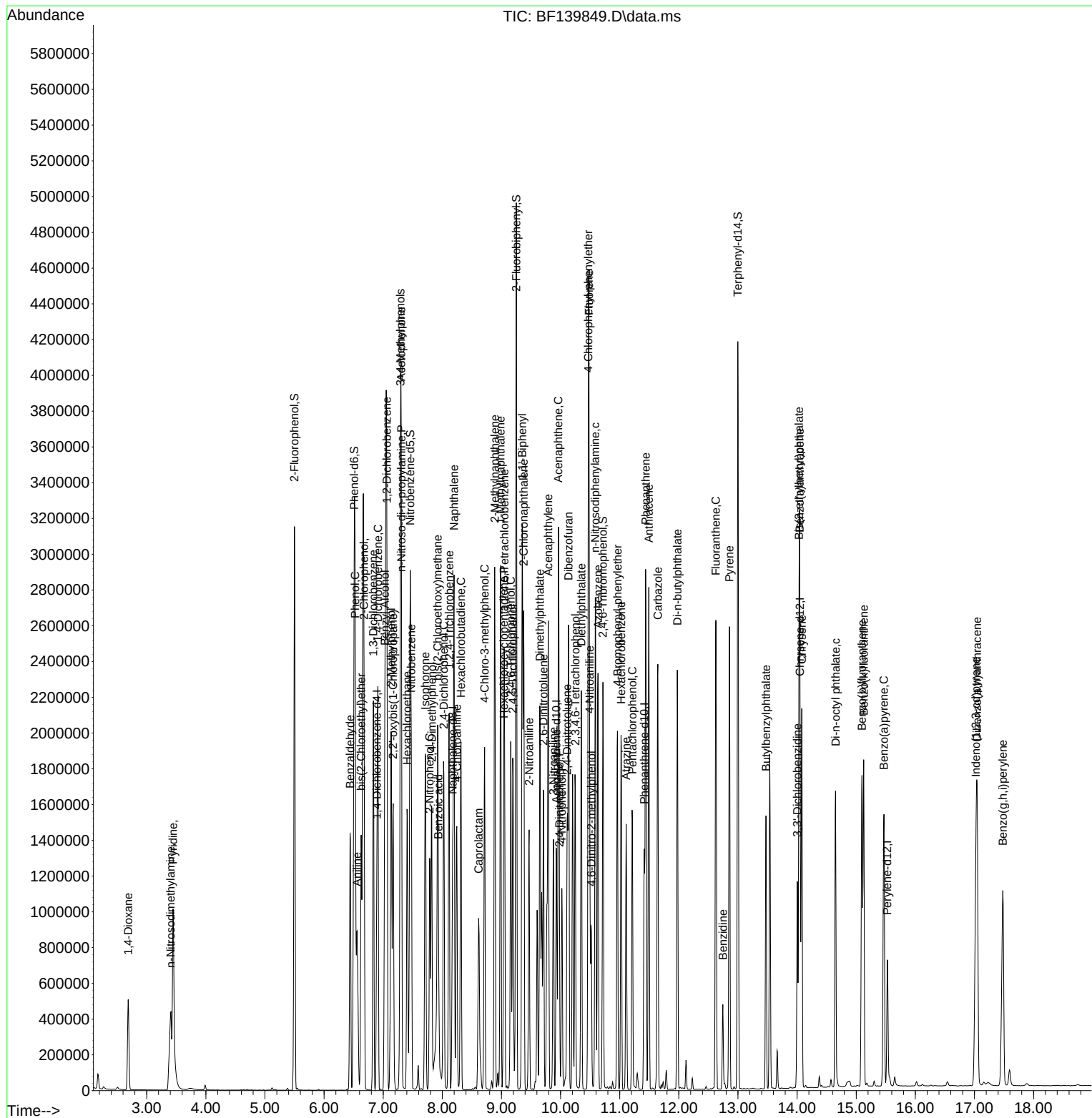
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139849.D
Acq On : 18 Oct 2024 12:49
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:19:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
 Data File : BF139850.D
 Acq On : 18 Oct 2024 13:17
 Operator : RC/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC060

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/21/2024
 Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:20:24 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 14:11:20 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	189346	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	712033	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	389299	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	667372	20.000	ng	0.00
76) Chrysene-d12	14.057	240	337032	20.000	ng	0.00
86) Perylene-d12	15.527	264	377203	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.499	112	1347774	111.432	ng	0.00
7) Phenol-d6	6.516	99	1748088	111.592	ng	0.00
23) Nitrobenzene-d5	7.457	82	1523975	118.624	ng	0.00
42) 2,4,6-Tribromophenol	10.722	330	420891	115.586	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	2475821	105.106	ng	0.00
79) Terphenyl-d14	13.004	244	2266127	109.563	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.687	88	330127	58.541	ng	98
3) Pyridine	3.446	79	798529	57.127	ng	99
4) n-Nitrosodimethylamine	3.410	42	451209	60.081	ng	98
6) Aniline	6.551	93	840113	57.544	ng	100
8) 2-Chlorophenol	6.675	128	693549	56.091	ng	96
9) Benzaldehyde	6.440	77	484510	54.980	ng	99
10) Phenol	6.528	94	909456m	55.317	ng	
11) bis(2-Chloroethyl)ether	6.628	93	709494	56.838	ng	99
12) 1,3-Dichlorobenzene	6.834	146	790296	55.679	ng	98
13) 1,4-Dichlorobenzene	6.910	146	790397	55.738	ng	99
14) 1,2-Dichlorobenzene	7.063	146	719470	54.363	ng	99
15) Benzyl Alcohol	7.028	79	650971	56.651	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.169	45	1201584	56.453	ng	99
17) 2-Methylphenol	7.134	107	603882	57.276	ng	99
18) Hexachloroethane	7.404	117	290250	57.398	ng	100
19) n-Nitroso-di-n-propyla...	7.310	70	526516	55.418	ng	99
20) 3+4-Methylphenols	7.293	107	738542	54.764	ng	93
22) Acetophenone	7.304	105	969975	55.618	ng	99
24) Nitrobenzene	7.475	77	828015	58.785	ng	98
25) Isophorone	7.716	82	1409786	57.816	ng	100
26) 2-Nitrophenol	7.787	139	344300	64.793	ng	100
27) 2,4-Dimethylphenol	7.822	122	500332	56.468	ng	99
28) bis(2-Chloroethoxy)met...	7.922	93	832755	56.369	ng	99
29) 2,4-Dichlorophenol	8.028	162	584871	57.952	ng	99
30) 1,2,4-Trichlorobenzene	8.116	180	635946	56.947	ng	99
31) Naphthalene	8.198	128	2016330	54.907	ng	99
32) Benzoic acid	7.945	122	502169	64.980	ng	98
33) 4-Chloroaniline	8.245	127	695566	55.548	ng	99
34) Hexachlorobutadiene	8.316	225	399483	56.934	ng	99
35) Caprolactam	8.622	113	188948	58.880	ng	97
36) 4-Chloro-3-methylphenol	8.716	107	646732	57.872	ng	100
37) 2-Methylnaphthalene	8.887	142	1245977	55.401	ng	99
38) 1-Methylnaphthalene	8.987	142	1211981	54.926	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	591461	56.315	ng	100
41) Hexachlorocyclopentadiene	9.039	237	216567	59.262	ng	100
43) 2,4,6-Trichlorophenol	9.157	196	447702	60.209	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
 Data File : BF139850.D
 Acq On : 18 Oct 2024 13:17
 Operator : RC/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC060

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/21/2024
 Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:20:24 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 14:11:20 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	431080	56.191	ng	99
46) 1,1'-Biphenyl	9.351	154	1474193	54.396	ng	99
47) 2-Chloronaphthalene	9.375	162	1214856	55.657	ng	98
48) 2-Nitroaniline	9.469	65	423080	63.375	ng	97
49) Acenaphthylene	9.792	152	1758248	55.718	ng	99
50) Dimethylphthalate	9.657	163	1358812	56.037	ng	100
51) 2,6-Dinitrotoluene	9.710	165	320076	60.963	ng	97
52) Acenaphthene	9.969	154	1148095	56.242	ng	98
53) 3-Nitroaniline	9.881	138	328790	60.726	ng	98
54) 2,4-Dinitrophenol	9.981	184	131611	61.938	ng #	29
55) Dibenzofuran	10.139	168	1605572	54.819	ng	100
56) 4-Nitrophenol	10.028	139	256728	61.631	ng	100
57) 2,4-Dinitrotoluene	10.116	165	410361	63.558	ng	99
58) Fluorene	10.481	166	1192018	53.435	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	342475	56.946	ng	99
60) Diethylphthalate	10.351	149	1355992	56.954	ng	99
61) 4-Chlorophenyl-phenyle...	10.469	204	606730	53.858	ng	98
62) 4-Nitroaniline	10.498	138	314525	61.507	ng	98
63) Azobenzene	10.633	77	1415762	56.090	ng	99
65) 4,6-Dinitro-2-methylph...	10.522	198	184974	67.951	ng	99
66) n-Nitrosodiphenylamine	10.592	169	1122831	56.214	ng	100
67) 4-Bromophenyl-phenylether	10.963	248	392570	57.100	ng	98
68) Hexachlorobenzene	11.028	284	442187	57.187	ng	98
69) Atrazine	11.116	200	307149	56.767	ng	99
70) Pentachlorophenol	11.216	266	289014	61.587	ng	99
71) Phenanthrene	11.439	178	1721763	54.618	ng	99
72) Anthracene	11.492	178	1667221	54.206	ng	99
73) Carbazole	11.645	167	1545085	54.015	ng	99
74) Di-n-butylphthalate	11.975	149	1819929	55.069	ng	100
75) Fluoranthene	12.627	202	1671405	52.448	ng	99
77) Benzidine	12.745	184	205548	37.499	ng	99
78) Pyrene	12.857	202	1667489	56.522	ng	99
80) Butylbenzylphthalate	13.474	149	537039	60.719	ng	98
81) Benzo(a)anthracene	14.045	228	1250382	56.992	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	386072	60.353	ng	99
83) Chrysene	14.080	228	1163808	57.855	ng	100
84) Bis(2-ethylhexyl)phtha...	14.033	149	632594	63.749	ng	100
85) Di-n-octyl phthalate	14.651	149	1220737	67.634	ng	100
87) Indeno(1,2,3-cd)pyrene	17.027	276	1500084	61.817	ng	99
88) Benzo(b)fluoranthene	15.098	252	1402395	61.033	ng	100
89) Benzo(k)fluoranthene	15.127	252	1051303	53.053	ng	100
90) Benzo(a)pyrene	15.468	252	1129942	59.764	ng	100
91) Dibenzo(a,h)anthracene	17.051	278	1228124	60.667	ng	99
92) Benzo(g,h,i)perylene	17.486	276	1238955	61.272	ng	100

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

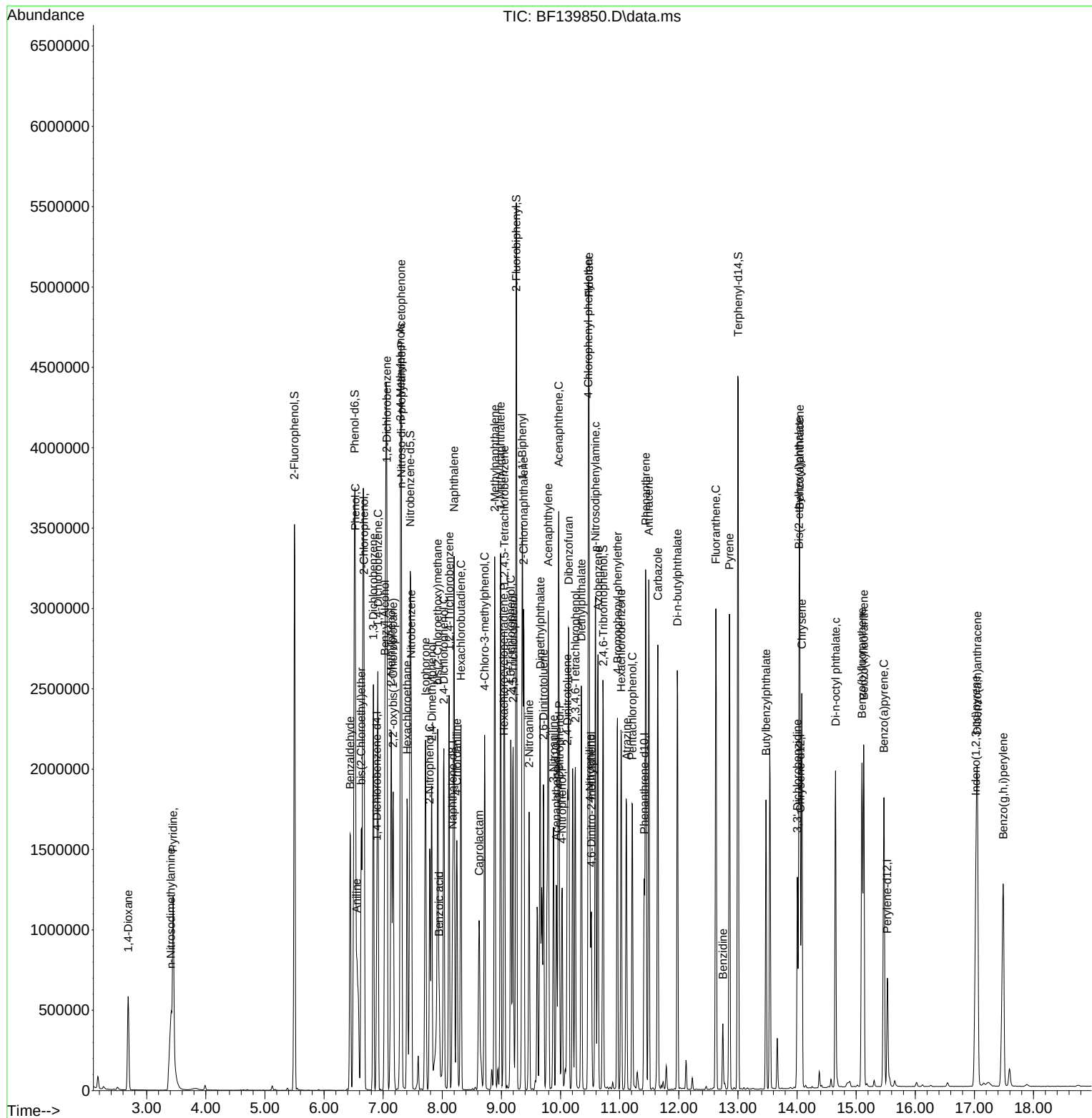
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Data File : BF139850.D
Acq On : 18 Oct 2024 13:17
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:20:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
 Data File : BF139851.D
 Acq On : 18 Oct 2024 13:46
 Operator : RC/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/21/2024

Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:21:12 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 18 14:11:20 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	187399	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	693285	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	377723	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	633721	20.000	ng	0.00
76) Chrysene-d12	14.057	240	323513	20.000	ng	0.00
86) Perylene-d12	15.533	264	374491	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	1657822	138.491	ng	0.00
7) Phenol-d6	6.522	99	2147173	138.492	ng	0.01
23) Nitrobenzene-d5	7.463	82	1897374	151.683	ng	0.01
42) 2,4,6-Tribromophenol	10.722	330	522350	147.845	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	2941186	128.689	ng	0.00
79) Terphenyl-d14	13.004	244	2634676	132.704	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.693	88	410806	73.604	ng	99
3) Pyridine	3.452	79	993777	71.834	ng	99
4) n-Nitrosodimethylamine	3.422	42	567647	76.370	ng	98
6) Aniline	6.598	93	992375m	68.680	ng	
8) 2-Chlorophenol	6.681	128	836233	68.333	ng	98
9) Benzaldehyde	6.445	77	554983	63.632	ng	99
10) Phenol	6.534	94	1125558	69.172	ng	95
11) bis(2-Chloroethyl)ether	6.634	93	886786	71.780	ng	99
12) 1,3-Dichlorobenzene	6.834	146	969627	69.024	ng	98
13) 1,4-Dichlorobenzene	6.910	146	968088	68.978	ng	99
14) 1,2-Dichlorobenzene	7.069	146	861333	65.758	ng	99
15) Benzyl Alcohol	7.034	79	803101	70.616	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.169	45	1472196	69.886	ng	99
17) 2-Methylphenol	7.140	107	752459	72.109	ng	99
18) Hexachloroethane	7.410	117	357637	71.459	ng	97
19) n-Nitroso-di-n-propyla...	7.316	70	651048	69.238	ng	99
20) 3+4-Methylphenols	7.298	107	878987	65.856	ng	# 85
22) Acetophenone	7.310	105	1149288	67.682	ng	98
24) Nitrobenzene	7.481	77	1025571	74.779	ng	99
25) Isophorone	7.722	82	1767234	74.436	ng	100
26) 2-Nitrophenol	7.792	139	434755	84.029	ng	99
27) 2,4-Dimethylphenol	7.822	122	619136	71.765	ng	99
28) bis(2-Chloroethoxy)met...	7.928	93	1022457	71.081	ng	100
29) 2,4-Dichlorophenol	8.028	162	711892	72.445	ng	99
30) 1,2,4-Trichlorobenzene	8.116	180	774108	71.194	ng	99
31) Naphthalene	8.198	128	2427578	67.894	ng	99
32) Benzoic acid	7.963	122	651887	86.634	ng	99
33) 4-Chloroaniline	8.251	127	849601	69.684	ng	99
34) Hexachlorobutadiene	8.316	225	490203	71.753	ng	99
35) Caprolactam	8.634	113	239184	76.550	ng	99
36) 4-Chloro-3-methylphenol	8.722	107	794640	73.031	ng	99
37) 2-Methylnaphthalene	8.886	142	1487841	67.944	ng	100
38) 1-Methylnaphthalene	8.986	142	1457890	67.858	ng	99
40) 1,2,4,5-Tetrachloroben...	9.051	216	712936	69.962	ng	100
41) Hexachlorocyclopentadiene	9.039	237	256007	72.201	ng	100
43) 2,4,6-Trichlorophenol	9.163	196	535533	74.228	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
 Data File : BF139851.D
 Acq On : 18 Oct 2024 13:46
 Operator : RC/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC080

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/21/2024
 Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:21:12 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 14:11:20 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	542663	72.904	ng	99
46) 1,1'-Biphenyl	9.357	154	1753952	66.703	ng	99
47) 2-Chloronaphthalene	9.381	162	1470012	69.411	ng	99
48) 2-Nitroaniline	9.469	65	527552	81.447	ng	99
49) Acenaphthylene	9.792	152	2106357	68.796	ng	99
50) Dimethylphthalate	9.657	163	1676969	71.277	ng	99
51) 2,6-Dinitrotoluene	9.716	165	393234	77.193	ng	99
52) Acenaphthene	9.969	154	1378724	69.610	ng	99
53) 3-Nitroaniline	9.886	138	387157	73.697	ng	96
54) 2,4-Dinitrophenol	9.986	184	169167	79.932	ng	# 1
55) Dibenzofuran	10.139	168	1930402	67.930	ng	99
56) 4-Nitrophenol	10.033	139	314170	77.732	ng	99
57) 2,4-Dinitrotoluene	10.116	165	510703	81.523	ng	97
58) Fluorene	10.480	166	1426794	65.920	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	424598	72.764	ng	99
60) Diethylphthalate	10.357	149	1631842	70.641	ng	100
61) 4-Chlorophenyl-phenyle...	10.475	204	730565	66.837	ng	100
62) 4-Nitroaniline	10.504	138	383383	77.270	ng	98
63) Azobenzene	10.633	77	1727533	70.539	ng	99
65) 4,6-Dinitro-2-methylph...	10.528	198	235323	91.037	ng	98
66) n-Nitrosodiphenylamine	10.592	169	1350839	71.220	ng	99
67) 4-Bromophenyl-phenylether	10.963	248	477995	73.216	ng	99
68) Hexachlorobenzene	11.028	284	536511	73.070	ng	98
69) Atrazine	11.116	200	382294	74.406	ng	99
70) Pentachlorophenol	11.216	266	354105	79.464	ng	99
71) Phenanthrene	11.445	178	2045577	68.336	ng	100
72) Anthracene	11.492	178	1995750	68.333	ng	99
73) Carbazole	11.645	167	1818340	66.943	ng	99
74) Di-n-butylphthalate	11.980	149	2153517	68.623	ng	100
75) Fluoranthene	12.627	202	1955847	64.632	ng	99
77) Benzidine	12.745	184	318678	60.567	ng	99
78) Pyrene	12.857	202	1935829	68.360	ng	99
80) Butylbenzylphthalate	13.474	149	664532	78.274	ng	98
81) Benzo(a)anthracene	14.045	228	1512920	71.840	ng	99
82) 3,3'-Dichlorobenzidine	14.010	252	496976	80.937	ng	98
83) Chrysene	14.080	228	1424522	73.774	ng	99
84) Bis(2-ethylhexyl)phtha...	14.033	149	794387	83.399	ng	99
85) Di-n-octyl phthalate	14.651	149	1534331	88.561	ng	100
87) Indeno(1,2,3-cd)pyrene	17.033	276	1877616	77.935	ng	99
88) Benzo(b)fluoranthene	15.098	252	1664856	72.980	ng	99
89) Benzo(k)fluoranthene	15.133	252	1419158	72.134	ng	99
90) Benzo(a)pyrene	15.474	252	1419026	75.598	ng	100
91) Dibenzo(a,h)anthracene	17.057	278	1552091	77.226	ng	99
92) Benzo(g,h,i)perylene	17.492	276	1550622	77.240	ng	100

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

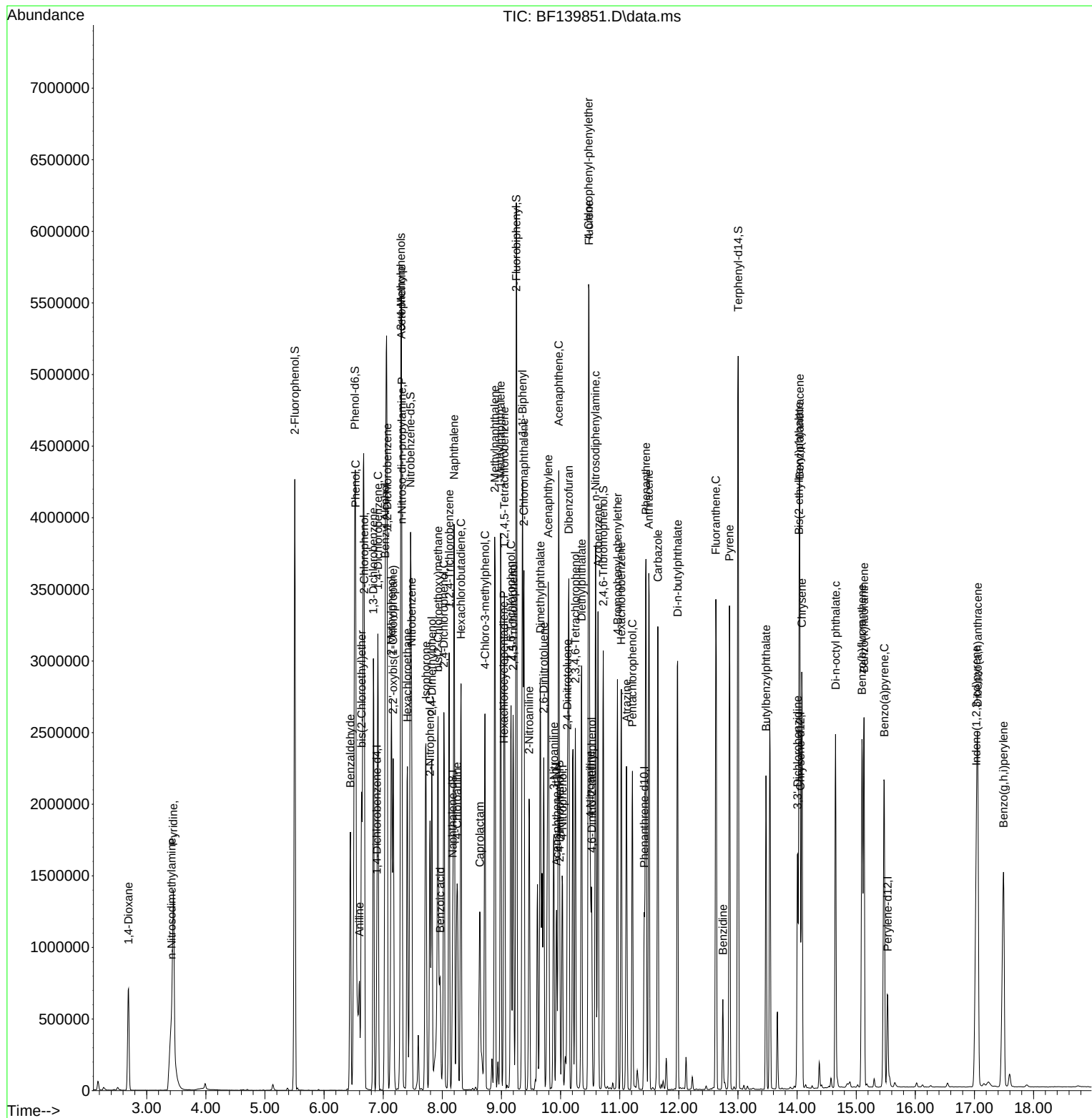
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139851.D
Acq On : 18 Oct 2024 13:46
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/21/2024
Supervised By :mohammad ahmed 10/21/2024

Quant Time: Oct 18 14:21:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 14:11:20 2024
Response via : Initial Calibration





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.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_E Calibration Date/Time: 10/31/2024 10:18

Lab File ID: BE101425.D Init. Calib. Date(s): 10/28/2024 10/28/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:44 16:01

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.141	1.094		-4.1	
Benzaldehyde	0.764	0.817		6.9	
Phenol-d6	1.582	1.584		0.1	
Phenol	1.717	1.778		3.6	20.0
bis(2-Chloroethyl)ether	1.408	1.294		-8.1	
2-Chlorophenol	1.369	1.362		-0.5	
2-Methylphenol	1.162	1.178		1.4	
2,2-oxybis(1-Chloropropane)	1.772	1.839		3.8	
Acetophenone	0.454	0.457		0.7	
3+4-Methylphenols	1.604	1.682		4.9	
n-Nitroso-di-n-propylamine	1.050	1.180	0.050	12.4	
Nitrobenzene-d5	0.318	0.320		0.6	
Hexachloroethane	0.492	0.501		1.8	
Nitrobenzene	0.339	0.338		-0.3	
Isophorone	0.621	0.640		3.1	
2-Nitrophenol	0.164	0.173		5.5	20.0
2,4-Dimethylphenol	0.206	0.203		-1.5	
bis(2-Chloroethoxy)methane	0.377	0.389		3.2	
2,4-Dichlorophenol	0.285	0.290		1.8	20.0
Naphthalene	1.019	0.988		-3.0	
4-Chloroaniline	0.354	0.381		7.6	
Hexachlorobutadiene	0.184	0.184		0.0	20.0
Caprolactam	0.109	0.107		-1.8	
4-Chloro-3-methylphenol	0.325	0.324		-0.3	20.0
2-Methylnaphthalene	0.734	0.728		-0.8	
Hexachlorocyclopentadiene	0.166	0.178	0.050	7.2	
2,4,6-Trichlorophenol	0.346	0.354		2.3	20.0
2-Fluorobiphenyl	1.181	1.186		0.4	
2,4,5-Trichlorophenol	0.396	0.394		-0.5	
1,1-Biphenyl	1.370	1.351		-1.4	
2-Chloronaphthalene	1.083	1.070		-1.2	
2-Nitroaniline	0.291	0.305		4.8	
Dimethylphthalate	1.412	1.382		-2.1	
Acenaphthylene	1.601	1.590		-0.7	
2,6-Dinitrotoluene	0.326	0.322		-1.2	
3-Nitroaniline	0.324	0.337		4.0	
Acenaphthene	1.045	1.022		-2.2	20.0
2,4-Dinitrophenol	0.198	0.196	0.050	-1.0	
4-Nitrophenol	0.297	0.276	0.050	-7.1	



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.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_E Calibration Date/Time: 10/31/2024 10:18

Lab File ID: BE101425.D Init. Calib. Date(s): 10/28/2024 10/28/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:44 16:01

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.666	1.622		-2.6	
2,4-Dinitrotoluene	0.449	0.453		0.9	
Diethylphthalate	1.477	1.447		-2.0	
4-Chlorophenyl-phenylether	0.692	0.689		-0.4	
Fluorene	1.394	1.372		-1.6	
4-Nitroaniline	0.361	0.361		0.0	
4,6-Dinitro-2-methylphenol	0.118	0.121		2.5	
n-Nitrosodiphenylamine	0.530	0.534		0.8	20.0
2,4,6-Tribromophenol	0.351	0.354		0.9	
4-Bromophenyl-phenylether	0.210	0.215		2.4	
Hexachlorobenzene	0.276	0.278		0.7	
Atrazine	0.163	0.162		-0.6	
Pentachlorophenol	0.159	0.171		7.5	20.0
Phenanthrene	0.958	0.952		-0.6	
Anthracene	0.935	0.944		1.0	
Carbazole	0.957	0.950		-0.7	
Di-n-butylphthalate	1.053	1.131		7.4	
Fluoranthene	1.163	1.164		0.1	20.0
Pyrene	1.100	1.121		1.9	
Terphenyl-d14	0.869	0.814		-6.3	
Butylbenzylphthalate	0.482	0.510		5.8	
3,3-Dichlorobenzidine	0.440	0.469		6.6	
Benzo (a) anthracene	1.124	1.135		1.0	
Chrysene	1.087	1.082		-0.5	
Bis(2-ethylhexyl)phthalate	0.641	0.711		10.9	
Di-n-octyl phthalate	1.051	1.156		10.0	20.0
Benzo (b) fluoranthene	1.042	1.047		0.5	
Benzo (k) fluoranthene	0.974	1.007		3.4	
Benzo (a) pyrene	0.912	0.929		1.9	20.0
Indeno (1,2,3-cd) pyrene	1.338	1.335		-0.2	
Dibenzo (a,h) anthracene	1.106	1.121		1.4	
Benzo (g,h,i) perylene	1.140	1.126		-1.2	
1,2,4,5-Tetrachlorobenzene	0.502	0.502		0.0	
1,4-Dioxane	0.426	0.376		-11.7	20.0
2,3,4,6-Tetrachlorophenol	0.366	0.367		0.3	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
 Data File : BE101425.D
 Acq On : 31 Oct 2024 10:18
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Yogesh
 Patel

Quant Time: Oct 31 11:02:07 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 29 01:26:30 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.573	152	136647	20.000	ng	0.00
21) Naphthalene-d8	10.340	136	695845	20.000	ng	0.00
39) Acenaphthene-d10	14.183	164	498092	20.000	ng	0.00
64) Phenanthrene-d10	16.915	188	1107610	20.000	ng	0.00
76) Chrysene-d12	21.081	240	1206964	20.000	ng	0.00
86) Perylene-d12	23.366	264	1484764	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.317	112	597986	76.699	ng	0.00
7) Phenol-d6	6.944	99	865656	80.074	ng	0.00
23) Nitrobenzene-d5	8.783	82	891231	80.445	ng	0.00
42) 2,4,6-Tribromophenol	15.687	330	704560	80.706	ng	0.00
45) 2-Fluorobiphenyl	12.808	172	2363492	80.360	ng	0.00
79) Terphenyl-d14	19.512	244	3929136	74.924	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.202	88	102781	35.346	ng	97
3) Pyridine	3.636	79	318948m	38.768	ng	
4) n-Nitrosodimethylamine	3.554	42	126827	39.843	ng	95
6) Aniline	7.009	93	401150m	48.418	ng	
8) 2-Chlorophenol	7.215	128	372177	39.801	ng	100
9) Benzaldehyde	6.780	77	223400	42.808	ng	98
10) Phenol	6.974	94	485990	41.432	ng	98
11) bis(2-Chloroethyl)ether	7.038	93	353763	36.764	ng	99
12) 1,3-Dichlorobenzene	7.456	146	387546	38.434	ng	98
13) 1,4-Dichlorobenzene	7.602	146	398905	38.740	ng	99
14) 1,2-Dichlorobenzene	7.931	146	395871	39.277	ng	100
15) Benzyl Alcohol	7.908	79	281228	43.642	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.078	45	502597	41.504	ng	100
17) 2-Methylphenol	8.155	107	322038	40.565	ng	100
18) Hexachloroethane	8.631	117	137027	40.750	ng	99
19) n-Nitroso-di-n-propyla...	8.372	70	322497	44.954	ng	99
20) 3+4-Methylphenols	8.490	107	459784	41.957	ng	99
22) Acetophenone	8.425	105	635393	40.215	ng	99
24) Nitrobenzene	8.825	77	469749	39.838	ng	99
25) Isophorone	9.277	82	890133	41.174	ng	99
26) 2-Nitrophenol	9.512	139	240968	42.281	ng	98
27) 2,4-Dimethylphenol	9.624	122	283108	39.477	ng	98
28) bis(2-Chloroethoxy)met...	9.776	93	541354	41.291	ng	99
29) 2,4-Dichlorophenol	10.058	162	403774	40.697	ng	100
30) 1,2,4-Trichlorobenzene	10.188	180	425531	39.371	ng	100
31) Naphthalene	10.387	128	1375284	38.784	ng	100
32) Benzoic acid	9.894	122	274661	39.074	ng	99
33) 4-Chloroaniline	10.611	127	530725	43.042	ng	100
34) Hexachlorobutadiene	10.640	225	256532	40.099	ng	99
35) Caprolactam	11.392	113	148620m	39.079	ng	
36) 4-Chloro-3-methylphenol	11.786	107	450493	39.879	ng	99
37) 2-Methylnaphthalene	11.980	142	1012694	39.641	ng	99
38) 1-Methylnaphthalene	12.203	142	997195	39.111	ng	98
40) 1,2,4,5-Tetrachloroben...	12.332	216	500296	40.011	ng	100
41) Hexachlorocyclopentadiene	12.320	237	176958	42.852	ng	98
43) 2,4,6-Trichlorophenol	12.655	196	352787	40.927	ng	99

11/04/2024

Supervised By :mohammad
 Ahmed

11/04/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
 Data File : BE101425.D
 Acq On : 31 Oct 2024 10:18
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Yogesh
 Patel

Quant Time: Oct 31 11:02:07 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 29 01:26:30 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.755	196	392408	39.753	ng	99
46) 1,1'-Biphenyl	13.008	154	1346027	39.444	ng	99
47) 2-Chloronaphthalene	13.055	162	1066037	39.540	ng	99
48) 2-Nitroaniline	13.384	65	303693	41.856	ng	98
49) Acenaphthylene	13.913	152	1583739	39.722	ng	100
50) Dimethylphthalate	13.689	163	1376574	39.153	ng	100
51) 2,6-Dinitrotoluene	13.825	165	321015	39.547	ng	99
52) Acenaphthene	14.248	154	1018284	39.113	ng	99
53) 3-Nitroaniline	14.236	138	335886	41.614	ng	99
54) 2,4-Dinitrophenol	14.365	184	195685	37.163	ng	96
55) Dibenzofuran	14.588	168	1615636	38.935	ng	100
56) 4-Nitrophenol	14.647	139	274535	37.141	ng	99
57) 2,4-Dinitrotoluene	14.606	165	451549	40.406	ng	97
58) Fluorene	15.223	166	1367055	39.382	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.853	232	365312	40.054	ng	100
60) Diethylphthalate	15.011	149	1441380	39.194	ng	99
61) 4-Chlorophenyl-phenyle...	15.211	204	686358	39.845	ng	99
62) 4-Nitroaniline	15.423	138	359743	40.053	ng	99
63) Azobenzene	15.511	77	1256822	39.759	ng	99
65) 4,6-Dinitro-2-methylph...	15.352	198	269121	41.349	ng	96
66) n-Nitrosodiphenylamine	15.464	169	1183401	40.289	ng	98
67) 4-Bromophenyl-phenylether	16.098	248	476509	40.898	ng	98
68) Hexachlorobenzene	16.204	284	616275	40.354	ng	99
69) Atrazine	16.398	200	358312	39.790	ng	98
70) Pentachlorophenol	16.610	266	378786	43.089	ng	100
71) Phenanthrene	16.956	178	2107846	39.747	ng	100
72) Anthracene	17.044	178	2091440	40.389	ng	100
73) Carbazole	17.379	167	2103747	39.706	ng	99
74) Di-n-butylphthalate	17.826	149	2504471	42.937	ng	99
75) Fluoranthene	18.966	202	2578395	40.031	ng	99
77) Benzidine	19.224	184	1094228	71.432	ng	99
78) Pyrene	19.336	202	2705541	40.762	ng	99
80) Butylbenzylphthalate	20.182	149	1230151	42.277	ng	97
81) Benzo(a)anthracene	21.057	228	2739255	40.379	ng	99
82) 3,3'-Dichlorobenzidine	21.034	252	1133248	42.644	ng	99
83) Chrysene	21.116	228	2611394	39.813	ng	99
84) Bis(2-ethylhexyl)phtha...	20.887	149	1715447	44.379	ng	100
85) Di-n-octyl phthalate	21.733	149	2791226	43.996	ng	100
87) Indeno(1,2,3-cd)pyrene	25.693	276	3963948	39.892	ng	100
88) Benzo(b)fluoranthene	22.655	252	3109496	40.187	ng	99
89) Benzo(k)fluoranthene	22.702	252	2989872	41.360	ng	99
90) Benzo(a)pyrene	23.261	252	2759231	40.775	ng	99
91) Dibenzo(a,h)anthracene	25.693	278	3327481	40.526	ng	99
92) Benzo(g,h,i)perylene	26.445	276	3344390	39.532	ng	100

11/04/2024

Supervised By :mohammad
 ahmed

11/04/2024

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
 Data File : BE101425.D
 Acq On : 31 Oct 2024 10:18
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

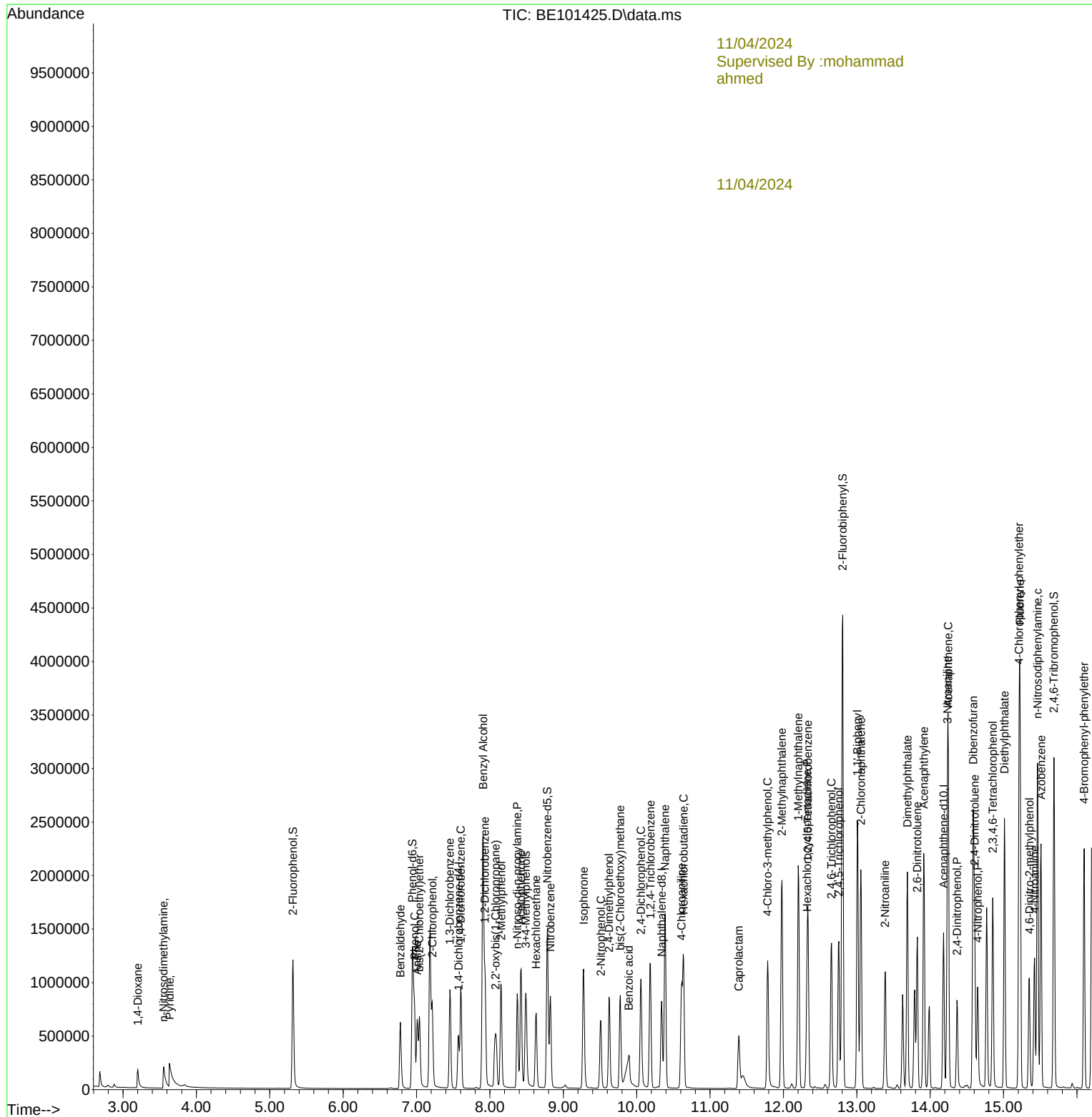
SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Yogesh
 Patel

Quant Time: Oct 31 11:02:07 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 29 01:26:30 2024
 Response via : Initial Calibration



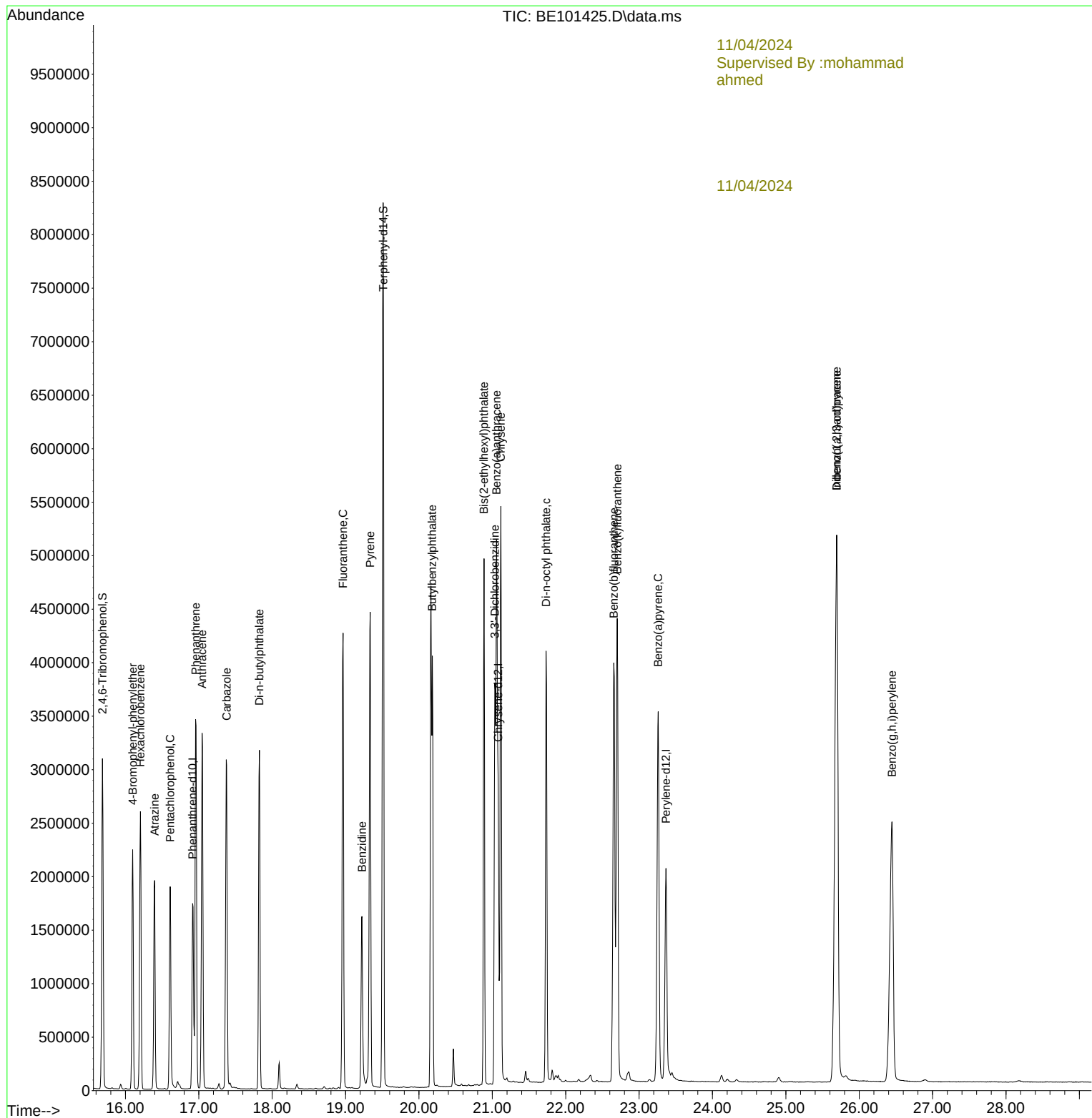
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
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Acq On : 31 Oct 2024 10:18
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Manual Integrations
APPROVED

Reviewed By :Yogesh
Patel

Quant Time: Oct 31 11:02:07 2024
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Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 29 01:26:30 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	0.426	0.376	11.7	87	0.00
3	Pyridine	1.204	1.167	3.1	95	0.00
4	n-Nitrosodimethylamine	0.466	0.464	0.4	94	0.00
5 S	2-Fluorophenol	1.141	1.094	4.1	92	0.00
6	Aniline	1.213	1.468	-21.0	106	0.00
7 S	Phenol-d6	1.582	1.584	-0.1	94	0.00
8	2-Chlorophenol	1.369	1.362	0.5	94	0.00
9	Benzaldehyde	0.764	0.817	-6.9	98	0.00
10 C	Phenol	1.717	1.778	-3.6	94	0.00
11	bis(2-Chloroethyl)ether	1.408	1.294	8.1	85	0.00
12	1,3-Dichlorobenzene	1.476	1.418	3.9	92	0.00
13 C	1,4-Dichlorobenzene	1.507	1.460	3.1	94	0.00
14	1,2-Dichlorobenzene	1.475	1.449	1.8	94	0.00
15	Benzyl Alcohol	0.943	1.029	-9.1	94	0.00
16	2,2'-oxybis(1-Chloropropane	1.772	1.839	-3.8	99	0.00
17	2-Methylphenol	1.162	1.178	-1.4	94	0.00
18	Hexachloroethane	0.492	0.501	-1.8	98	0.00
19 P	n-Nitroso-di-n-propylamine	1.050	1.180	-12.4	99	0.00
20	3+4-Methylphenols	1.604	1.682	-4.9	97	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	102	0.00
22	Acetophenone	0.454	0.457	-0.7	97	0.00
23 S	Nitrobenzene-d5	0.318	0.320	-0.6	98	0.00
24	Nitrobenzene	0.339	0.338	0.3	97	0.00
25	Isophorone	0.621	0.640	-3.1	98	0.00
26 C	2-Nitrophenol	0.164	0.173	-5.5	99	0.00
27	2,4-Dimethylphenol	0.206	0.203	1.5	97	0.00
28	bis(2-Chloroethoxy)methane	0.377	0.389	-3.2	102	0.00
29 C	2,4-Dichlorophenol	0.285	0.290	-1.8	100	0.00
30	1,2,4-Trichlorobenzene	0.311	0.306	1.6	100	0.00
31	Naphthalene	1.019	0.988	3.0	97	0.00
32	Benzoic acid	0.182	0.197	-8.2	103	0.00
33	4-Chloroaniline	0.354	0.381	-7.6	98	0.00
34 C	Hexachlorobutadiene	0.184	0.184	0.0	101	0.00
35	Caprolactam	0.109	0.107	1.8	92	0.00
36 C	4-Chloro-3-methylphenol	0.325	0.324	0.3	97	0.00
37	2-Methylnaphthalene	0.734	0.728	0.8	99	0.00
38	1-Methylnaphthalene	0.733	0.717	2.2	98	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00
40	1,2,4,5-Tetrachlorobenzene	0.502	0.502	0.0	100	0.00
41 P	Hexachlorocyclopentadiene	0.166	0.178	-7.2	102	0.00
42 S	2,4,6-Tribromophenol	0.351	0.354	-0.9	98	0.00
43 C	2,4,6-Trichlorophenol	0.346	0.354	-2.3	98	0.00
44	2,4,5-Trichlorophenol	0.396	0.394	0.5	97	0.00
45 S	2-Fluorobiphenyl	1.181	1.186	-0.4	98	0.00
46	1,1'-Biphenyl	1.370	1.351	1.4	98	0.00
47	2-Chloronaphthalene	1.083	1.070	1.2	99	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
 Data File : BE101425.D
 Acq On : 31 Oct 2024 10:18
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDCCC040

Quant Time: Oct 31 11:02:07 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 29 01:26:30 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	0.291	0.305	-4.8	97	0.00
49	Acenaphthylene	1.601	1.590	0.7	96	0.00
50	Dimethylphthalate	1.412	1.382	2.1	97	0.00
51	2,6-Dinitrotoluene	0.326	0.322	1.2	95	0.00
52 C	Acenaphthene	1.045	1.022	2.2	97	0.00
53	3-Nitroaniline	0.324	0.337	-4.0	96	0.00
54 P	2,4-Dinitrophenol	0.198	0.196	1.0	96	0.00
55	Dibenzofuran	1.666	1.622	2.6	97	0.00
56 P	4-Nitrophenol	0.297	0.276	7.1	90	0.00
57	2,4-Dinitrotoluene	0.449	0.453	-0.9	96	0.00
58	Fluorene	1.394	1.372	1.6	96	0.00
59	2,3,4,6-Tetrachlorophenol	0.366	0.367	-0.3	98	0.00
60	Diethylphthalate	1.477	1.447	2.0	96	0.00
61	4-Chlorophenyl-phenylether	0.692	0.689	0.4	99	0.00
62	4-Nitroaniline	0.361	0.361	0.0	94	0.00
63	Azobenzene	1.269	1.262	0.6	97	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	99	0.00
65	4,6-Dinitro-2-methylphenol	0.118	0.121	-2.5	97	0.00
66 c	n-Nitrosodiphenylamine	0.530	0.534	-0.8	95	0.00
67	4-Bromophenyl-phenylether	0.210	0.215	-2.4	99	0.00
68	Hexachlorobenzene	0.276	0.278	-0.7	97	0.00
69	Atrazine	0.163	0.162	0.6	87	0.00
70 C	Pentachlorophenol	0.159	0.171	-7.5	98	0.00
71	Phenanthrene	0.958	0.952	0.6	95	0.00
72	Anthracene	0.935	0.944	-1.0	95	0.00
73	Carbazole	0.957	0.950	0.7	94	0.00
74	Di-n-butylphthalate	1.053	1.131	-7.4	98	0.00
75 C	Fluoranthene	1.163	1.164	-0.1	96	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	99	0.00
77	Benzidine	0.254	0.453	-78.3#	130	0.00
78	Pyrene	1.100	1.121	-1.9	95	0.00
79 S	Terphenyl-d14	0.869	0.814	6.3	96	0.00
80	Butylbenzylphthalate	0.482	0.510	-5.8	99	0.00
81	Benzo(a)anthracene	1.124	1.135	-1.0	96	0.00
82	3,3'-Dichlorobenzidine	0.440	0.469	-6.6	97	0.00
83	Chrysene	1.087	1.082	0.5	97	0.00
84	Bis(2-ethylhexyl)phthalate	0.641	0.711	-10.9	101	0.00
85 c	Di-n-octyl phthalate	1.051	1.156	-10.0	101	0.00
86 I	Perylene-d12	1.000	1.000	0.0	98	0.00
87	Indeno(1,2,3-cd)pyrene	1.338	1.335	0.2	94	0.00
88	Benzo(b)fluoranthene	1.042	1.047	-0.5	93	0.00
89	Benzo(k)fluoranthene	0.974	1.007	-3.4	98	0.00
90 C	Benzo(a)pyrene	0.912	0.929	-1.9	95	0.00
91	Dibenzo(a,h)anthracene	1.106	1.121	-1.4	94	0.00
92	Benzo(g,h,i)perylene	1.140	1.126	1.2	94	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101425.D
Acq On : 31 Oct 2024 10:18
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
LabSampleId :
SSTDCCC040

Quant Time: Oct 31 11:02:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 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_E\Data\BE103124\
 Data File : BE101425.D
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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	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	35.346	11.6	87	0.00
3	Pyridine	40.000	38.768	3.1	95	0.00
4	n-Nitrosodimethylamine	40.000	39.843	0.4	94	0.00
5 S	2-Fluorophenol	80.000	76.699	4.1	92	0.00
6	Aniline	40.000	48.418	-21.0	106	0.00
7 S	Phenol-d6	80.000	80.074	-0.1	94	0.00
8	2-Chlorophenol	40.000	39.801	0.5	94	0.00
9	Benzaldehyde	40.000	42.808	-7.0	98	0.00
10 C	Phenol	40.000	41.432	-3.6	94	0.00
11	bis(2-Chloroethyl)ether	40.000	36.764	8.1	85	0.00
12	1,3-Dichlorobenzene	40.000	38.434	3.9	92	0.00
13 C	1,4-Dichlorobenzene	40.000	38.740	3.1	94	0.00
14	1,2-Dichlorobenzene	40.000	39.277	1.8	94	0.00
15	Benzyl Alcohol	40.000	43.642	-9.1	94	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	41.504	-3.8	99	0.00
17	2-Methylphenol	40.000	40.565	-1.4	94	0.00
18	Hexachloroethane	40.000	40.750	-1.9	98	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	44.954	-12.4	99	0.00
20	3+4-Methylphenols	40.000	41.957	-4.9	97	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	102	0.00
22	Acetophenone	40.000	40.215	-0.5	97	0.00
23 S	Nitrobenzene-d5	80.000	80.445	-0.6	98	0.00
24	Nitrobenzene	40.000	39.838	0.4	97	0.00
25	Isophorone	40.000	41.174	-2.9	98	0.00
26 C	2-Nitrophenol	40.000	42.281	-5.7	99	0.00
27	2,4-Dimethylphenol	40.000	39.477	1.3	97	0.00
28	bis(2-Chloroethoxy)methane	40.000	41.291	-3.2	102	0.00
29 C	2,4-Dichlorophenol	40.000	40.697	-1.7	100	0.00
30	1,2,4-Trichlorobenzene	40.000	39.371	1.6	100	0.00
31	Naphthalene	40.000	38.784	3.0	97	0.00
32	Benzoic acid	40.000	39.074	2.3	103	0.00
33	4-Chloroaniline	40.000	43.042	-7.6	98	0.00
34 C	Hexachlorobutadiene	40.000	40.099	-0.2	101	0.00
35	Caprolactam	40.000	39.079	2.3	92	0.00
36 C	4-Chloro-3-methylphenol	40.000	39.879	0.3	97	0.00
37	2-Methylnaphthalene	40.000	39.641	0.9	99	0.00
38	1-Methylnaphthalene	40.000	39.111	2.2	98	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	102	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	40.011	-0.0	100	0.00
41 P	Hexachlorocyclopentadiene	40.000	42.852	-7.1	102	0.00
42 S	2,4,6-Tribromophenol	80.000	80.706	-0.9	98	0.00
43 C	2,4,6-Trichlorophenol	40.000	40.927	-2.3	98	0.00
44	2,4,5-Trichlorophenol	40.000	39.753	0.6	97	0.00
45 S	2-Fluorobiphenyl	80.000	80.360	-0.4	98	0.00
46	1,1'-Biphenyl	40.000	39.444	1.4	98	0.00
47	2-Chloronaphthalene	40.000	39.540	1.2	99	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
 Data File : BE101425.D
 Acq On : 31 Oct 2024 10:18
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 LabSampleId :
 SSTDCCC040

Quant Time: Oct 31 11:02:07 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 29 01:26:30 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	41.856	-4.6	97	0.00
49	Acenaphthylene	40.000	39.722	0.7	96	0.00
50	Dimethylphthalate	40.000	39.153	2.1	97	0.00
51	2,6-Dinitrotoluene	40.000	39.547	1.1	95	0.00
52 C	Acenaphthene	40.000	39.113	2.2	97	0.00
53	3-Nitroaniline	40.000	41.614	-4.0	96	0.00
54 P	2,4-Dinitrophenol	40.000	37.163	7.1	96	0.00
55	Dibenzofuran	40.000	38.935	2.7	97	0.00
56 P	4-Nitrophenol	40.000	37.141	7.1	90	0.00
57	2,4-Dinitrotoluene	40.000	40.406	-1.0	96	0.00
58	Fluorene	40.000	39.382	1.5	96	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	40.054	-0.1	98	0.00
60	Diethylphthalate	40.000	39.194	2.0	96	0.00
61	4-Chlorophenyl-phenylether	40.000	39.845	0.4	99	0.00
62	4-Nitroaniline	40.000	40.053	-0.1	94	0.00
63	Azobenzene	40.000	39.759	0.6	97	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	99	0.00
65	4,6-Dinitro-2-methylphenol	40.000	41.349	-3.4	97	0.00
66 c	n-Nitrosodiphenylamine	40.000	40.289	-0.7	95	0.00
67	4-Bromophenyl-phenylether	40.000	40.898	-2.2	99	0.00
68	Hexachlorobenzene	40.000	40.354	-0.9	97	0.00
69	Atrazine	40.000	39.790	0.5	87	0.00
70 C	Pentachlorophenol	40.000	43.089	-7.7	98	0.00
71	Phenanthrene	40.000	39.747	0.6	95	0.00
72	Anthracene	40.000	40.389	-1.0	95	0.00
73	Carbazole	40.000	39.706	0.7	94	0.00
74	Di-n-butylphthalate	40.000	42.937	-7.3	98	0.00
75 C	Fluoranthene	40.000	40.031	-0.1	96	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	99	0.00
77	Benzydine	40.000	71.432	-78.6#	130	0.00
78	Pyrene	40.000	40.762	-1.9	95	0.00
79 S	Terphenyl-d14	80.000	74.924	6.3	96	0.00
80	Butylbenzylphthalate	40.000	42.277	-5.7	99	0.00
81	Benzo(a)anthracene	40.000	40.379	-0.9	96	0.00
82	3,3'-Dichlorobenzidine	40.000	42.644	-6.6	97	0.00
83	Chrysene	40.000	39.813	0.5	97	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	44.379	-10.9	101	0.00
85 c	Di-n-octyl phthalate	40.000	43.996	-10.0	101	0.00
86 I	Perylene-d12	20.000	20.000	0.0	98	0.00
87	Indeno(1,2,3-cd)pyrene	40.000	39.892	0.3	94	0.00
88	Benzo(b)fluoranthene	40.000	40.187	-0.5	93	0.00
89	Benzo(k)fluoranthene	40.000	41.360	-3.4	98	0.00
90 C	Benzo(a)pyrene	40.000	40.775	-1.9	95	0.00
91	Dibenzo(a,h)anthracene	40.000	40.526	-1.3	94	0.00
92	Benzo(g,h,i)perylene	40.000	39.532	1.2	94	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101425.D
Acq On : 31 Oct 2024 10:18
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
LabSampleId :
SSTDCCC040

Quant Time: Oct 31 11:02:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 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.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/29/2024 09:37

Lab File ID: BF140100.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.231		-3.7	
Benzaldehyde	0.931	0.890		-4.4	
Phenol-d6	1.655	1.553		-6.2	
Phenol	1.706	1.612		-5.5	20.0
bis(2-Chloroethyl)ether	1.319	1.262		-4.3	
2-Chlorophenol	1.306	1.256		-3.8	
2-Methylphenol	1.114	1.060		-4.8	
2,2-oxybis(1-Chloropropane)	2.248	2.041		-9.2	
Acetophenone	0.490	0.474		-3.3	
3+4-Methylphenols	1.424	1.345		-5.5	
n-Nitroso-di-n-propylamine	1.004	0.914	0.050	-9.0	
Nitrobenzene-d5	0.361	0.382		5.8	
Hexachloroethane	0.534	0.535		0.2	
Nitrobenzene	0.396	0.400		1.0	
Isophorone	0.685	0.661		-3.5	
2-Nitrophenol	0.149	0.175		17.5	20.0
2,4-Dimethylphenol	0.249	0.232		-6.8	
bis(2-Chloroethoxy)methane	0.415	0.398		-4.1	
2,4-Dichlorophenol	0.283	0.280		-1.1	20.0
Naphthalene	1.031	1.010		-2.0	
4-Chloroaniline	0.352	0.331		-6.0	
Hexachlorobutadiene	0.197	0.203		3.0	20.0
Caprolactam	0.090	0.090		0.0	
4-Chloro-3-methylphenol	0.314	0.310		-1.3	20.0
2-Methylnaphthalene	0.632	0.616		-2.5	
Hexachlorocyclopentadiene	0.188	0.193	0.050	2.7	
2,4,6-Trichlorophenol	0.382	0.376		-1.6	20.0
2-Fluorobiphenyl	1.210	1.180		-2.5	
2,4,5-Trichlorophenol	0.394	0.411		4.3	
1,1-Biphenyl	1.392	1.364		-2.0	
2-Chloronaphthalene	1.121	1.108		-1.2	
2-Nitroaniline	0.343	0.385		12.2	
Dimethylphthalate	1.246	1.227		-1.5	
Acenaphthylene	1.621	1.605		-1.0	
2,6-Dinitrotoluene	0.270	0.295		9.3	
3-Nitroaniline	0.278	0.297		6.8	
Acenaphthene	1.049	1.061		1.1	20.0
2,4-Dinitrophenol	0.093	0.155	0.050	66.7	
4-Nitrophenol	0.214	0.236	0.050	10.3	



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.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/29/2024 09:37

Lab File ID: BF140100.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.505	1.476		-1.9	
2,4-Dinitrotoluene	0.332	0.388		16.9	
Diethylphthalate	1.223	1.207		-1.3	
4-Chlorophenyl-phenylether	0.579	0.583		0.7	
Fluorene	1.146	1.132		-1.2	
4-Nitroaniline	0.263	0.293		11.4	
4,6-Dinitro-2-methylphenol	0.082	0.119		45.1	
n-Nitrosodiphenylamine	0.599	0.566		-5.5	20.0
2,4,6-Tribromophenol	0.187	0.203		8.6	
4-Bromophenyl-phenylether	0.206	0.207		0.5	
Hexachlorobenzene	0.232	0.232		0.0	
Atrazine	0.162	0.160		-1.2	
Pentachlorophenol	0.141	0.154		9.2	20.0
Phenanthrene	0.945	0.913		-3.4	
Anthracene	0.922	0.902		-2.2	
Carbazole	0.857	0.840		-2.0	
Di-n-butylphthalate	0.990	1.010		2.0	
Fluoranthene	0.955	0.943		-1.3	20.0
Pyrene	1.751	1.837		4.9	
Terphenyl-d14	1.227	1.284		4.6	
Butylbenzylphthalate	0.525	0.589		12.2	
3,3-Dichlorobenzidine	0.380	0.407		7.1	
Benzo (a) anthracene	1.302	1.341		3.0	
Chrysene	1.194	1.129		-5.4	
Bis(2-ethylhexyl)phthalate	0.589	0.667		13.2	
Di-n-octyl phthalate	1.071	1.049		-2.1	20.0
Benzo (b) fluoranthene	1.218	1.185		-2.7	
Benzo (k) fluoranthene	1.051	1.034		-1.6	
Benzo (a) pyrene	1.002	0.999		-0.3	20.0
Indeno (1,2,3-cd) pyrene	1.287	1.323		2.8	
Dibenzo (a,h) anthracene	1.073	1.086		1.2	
Benzo (g,h,i) perylene	1.072	1.142		6.5	
1,2,4,5-Tetrachlorobenzene	0.540	0.549		1.7	
1,4-Dioxane	0.596	0.537		-9.9	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.316		2.3	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
 Data File : BF140100.D
 Acq On : 29 Oct 2024 09:37
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
 Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 29 09:59:29 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 18 15:07:50 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	138305	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	518016	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	286088	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	513809	20.000	ng	0.00
76) Chrysene-d12	14.051	240	264357	20.000	ng	0.00
86) Perylene-d12	15.527	264	264628	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.499	112	681198	77.105	ng	0.00
7) Phenol-d6	6.516	99	859036	75.076	ng	0.00
23) Nitrobenzene-d5	7.451	82	791747	84.711	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	232556	86.905	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1349912	77.983	ng	0.00
79) Terphenyl-d14	12.998	244	1357416	83.670	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.669	88	148556	36.065	ng	97
3) Pyridine	3.434	79	372903	36.523	ng	100
4) n-Nitrosodimethylamine	3.387	42	192951	35.174	ng	99
6) Aniline	6.551	93	380858	35.714	ng	99
8) 2-Chlorophenol	6.675	128	347358	38.460	ng	100
9) Benzaldehyde	6.440	77	246060	38.226	ng	98
10) Phenol	6.528	94	445947m	37.804	ng	
11) bis(2-Chloroethyl)ether	6.628	93	349101	38.288	ng	100
12) 1,3-Dichlorobenzene	6.834	146	410460	39.591	ng	99
13) 1,4-Dichlorobenzene	6.910	146	409365	39.522	ng	99
14) 1,2-Dichlorobenzene	7.063	146	383492	39.670	ng	99
15) Benzyl Alcohol	7.028	79	320036	38.130	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.163	45	564639	36.318	ng	98
17) 2-Methylphenol	7.134	107	293073	38.055	ng	99
18) Hexachloroethane	7.404	117	147974	40.062	ng	97
19) n-Nitroso-di-n-propyla...	7.304	70	252757	36.422	ng	97
20) 3+4-Methylphenols	7.287	107	372087	37.773	ng	97
22) Acetophenone	7.298	105	491097	38.706	ng	99
24) Nitrobenzene	7.475	77	414874	40.486	ng	99
25) Isophorone	7.710	82	684378	38.579	ng	100
26) 2-Nitrophenol	7.787	139	181297	46.897	ng	98
27) 2,4-Dimethylphenol	7.816	122	240401	37.294	ng	98
28) bis(2-Chloroethoxy)met...	7.916	93	412663	38.395	ng	100
29) 2,4-Dichlorophenol	8.028	162	290020	39.500	ng	98
30) 1,2,4-Trichlorobenzene	8.110	180	324335	39.921	ng	99
31) Naphthalene	8.192	128	1046243	39.161	ng	100
32) Benzoic acid	7.928	122	231302	41.140	ng	99
33) 4-Chloroaniline	8.240	127	342997	37.651	ng	99
34) Hexachlorobutadiene	8.310	225	210297	41.197	ng	99
35) Caprolactam	8.610	113	93232	39.935	ng	97
36) 4-Chloro-3-methylphenol	8.716	107	321026	39.486	ng	98
37) 2-Methylnaphthalene	8.887	142	638545	39.026	ng	99
38) 1-Methylnaphthalene	8.987	142	621727	38.730	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	314265	40.717	ng	99
41) Hexachlorocyclopentadiene	9.039	237	110357	41.093	ng	100
43) 2,4,6-Trichlorophenol	9.157	196	215379	39.415	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
 Data File : BF140100.D
 Acq On : 29 Oct 2024 09:37
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
 Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 29 09:59:29 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 18 15:07:50 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	235263	41.730	ng	99
46) 1,1'-Biphenyl	9.351	154	780707	39.200	ng	99
47) 2-Chloronaphthalene	9.375	162	634031	39.527	ng	99
48) 2-Nitroaniline	9.463	65	220417	44.929	ng	99
49) Acenaphthylene	9.787	152	918315	39.600	ng	99
50) Dimethylphthalate	9.645	163	702032	39.396	ng	100
51) 2,6-Dinitrotoluene	9.710	165	168631	43.705	ng	96
52) Acenaphthene	9.963	154	607030	40.465	ng	100
53) 3-Nitroaniline	9.875	138	169830	42.683	ng	99
54) 2,4-Dinitrophenol	9.981	184	88438	57.194	ng	# 1
55) Dibenzofuran	10.134	168	844602	39.241	ng	100
56) 4-Nitrophenol	10.028	139	134760	44.022	ng	98
57) 2,4-Dinitrotoluene	10.110	165	221887	46.765	ng	99
58) Fluorene	10.475	166	647654	39.507	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	180790	40.906	ng	98
60) Diethylphthalate	10.345	149	690855	39.485	ng	100
61) 4-Chlorophenyl-phenyle...	10.469	204	333515	40.286	ng	98
62) 4-Nitroaniline	10.492	138	167689	44.623	ng	98
63) Azobenzene	10.628	77	717815	38.698	ng	98
65) 4,6-Dinitro-2-methylph...	10.522	198	122428	58.416	ng	91
66) n-Nitrosodiphenylamine	10.586	169	581540	37.816	ng	99
67) 4-Bromophenyl-phenylether	10.957	248	212925	40.226	ng	97
68) Hexachlorobenzene	11.022	284	238332	40.035	ng	99
69) Atrazine	11.110	200	164083	39.389	ng	99
70) Pentachlorophenol	11.216	266	158271	43.806	ng	98
71) Phenanthrene	11.439	178	938128	38.654	ng	100
72) Anthracene	11.492	178	926551	39.128	ng	100
73) Carbazole	11.645	167	863413	39.205	ng	99
74) Di-n-butylphthalate	11.969	149	1038242	40.805	ng	100
75) Fluoranthene	12.627	202	969481	39.514	ng	100
77) Benzidine	12.745	184	204646	47.078	ng	99
78) Pyrene	12.857	202	971455	41.982	ng	100
80) Butylbenzylphthalate	13.469	149	311541	44.907	ng	100
81) Benzo(a)anthracene	14.039	228	708901	41.194	ng	99
82) 3,3'-Dichlorobenzidine	14.004	252	215253	42.900	ng	99
83) Chrysene	14.080	228	597023	37.838	ng	100
84) Bis(2-ethylhexyl)phtha...	14.027	149	352704	45.315	ng	99
85) Di-n-octyl phthalate	14.639	149	554641	39.177	ng	98
87) Indeno(1,2,3-cd)pyrene	17.027	276	700166	41.128	ng	98
88) Benzo(b)fluoranthene	15.092	252	627304	38.915	ng	99
89) Benzo(k)fluoranthene	15.121	252	546998	39.346	ng	100
90) Benzo(a)pyrene	15.468	252	528715	39.861	ng	99
91) Dibenzo(a,h)anthracene	17.045	278	574920	40.482	ng	99
92) Benzo(g,h,i)perylene	17.486	276	604580	42.618	ng	98

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

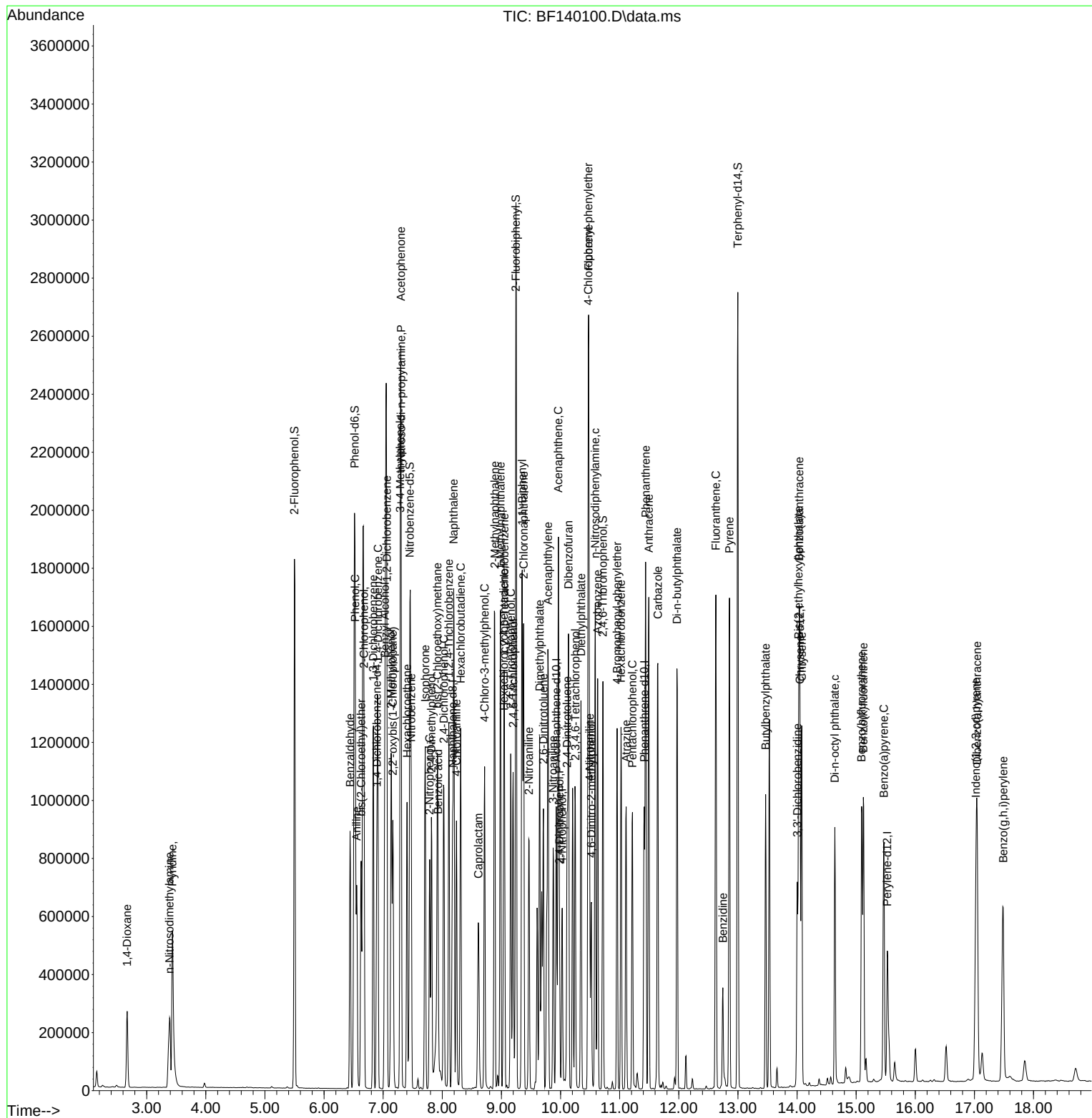
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140100.D
Acq On : 29 Oct 2024 09:37
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 29 09:59:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
 Data File : BF140100.D
 Acq On : 29 Oct 2024 09:37
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Oct 29 09:59:29 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 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	76	0.00
2	1,4-Dioxane	0.596	0.537	9.9	69	-0.02
3	Pyridine	1.476	1.348	8.7	68	-0.01
4	n-Nitrosodimethylamine	0.793	0.698	12.0	66	-0.01
5 S	2-Fluorophenol	1.278	1.231	3.7	73	0.00
6	Aniline	1.542	1.377	10.7	66	0.00
7 S	Phenol-d6	1.655	1.553	6.2	72	0.00
8	2-Chlorophenol	1.306	1.256	3.8	73	0.00
9	Benzaldehyde	0.931	0.890	4.4	72	0.00
10 C	Phenol	1.706	1.612	5.5	72	0.00
11	bis(2-Chloroethyl)ether	1.319	1.262	4.3	74	0.00
12	1,3-Dichlorobenzene	1.499	1.484	1.0	75	0.00
13 C	1,4-Dichlorobenzene	1.498	1.480	1.2	76	0.00
14	1,2-Dichlorobenzene	1.398	1.386	0.9	76	0.00
15	Benzyl Alcohol	1.214	1.157	4.7	72	0.00
16	2,2'-oxybis(1-Chloropropane	2.248	2.041	9.2	69	0.00
17	2-Methylphenol	1.114	1.060	4.8	72	0.00
18	Hexachloroethane	0.534	0.535	-0.2	75	0.00
19 P	n-Nitroso-di-n-propylamine	1.004	0.914	9.0	71	0.00
20	3+4-Methylphenols	1.424	1.345	5.5	72	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	75	0.00
22	Acetophenone	0.490	0.474	3.3	74	0.00
23 S	Nitrobenzene-d5	0.361	0.382	-5.8	77	0.00
24	Nitrobenzene	0.396	0.400	-1.0	75	0.00
25	Isophorone	0.685	0.661	3.5	73	0.00
26 C	2-Nitrophenol	0.149	0.175	-17.4	84	0.00
27	2,4-Dimethylphenol	0.249	0.232	6.8	70	0.00
28	bis(2-Chloroethoxy)methane	0.415	0.398	4.1	73	0.00
29 C	2,4-Dichlorophenol	0.283	0.280	1.1	74	0.00
30	1,2,4-Trichlorobenzene	0.314	0.313	0.3	75	0.00
31	Naphthalene	1.031	1.010	2.0	74	0.00
32	Benzoic acid	0.217	0.223	-2.8	76	0.00
33	4-Chloroaniline	0.352	0.331	6.0	71	0.00
34 C	Hexachlorobutadiene	0.197	0.203	-3.0	78	0.00
35	Caprolactam	0.090	0.090	0.0	74	0.00
36 C	4-Chloro-3-methylphenol	0.314	0.310	1.3	74	0.00
37	2-Methylnaphthalene	0.632	0.616	2.5	75	0.00
38	1-Methylnaphthalene	0.620	0.600	3.2	74	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	75	0.00
40	1,2,4,5-Tetrachlorobenzene	0.540	0.549	-1.7	77	0.00
41 P	Hexachlorocyclopentadiene	0.188	0.193	-2.7	73	0.00
42 S	2,4,6-Tribromophenol	0.187	0.203	-8.6	82	0.00
43 C	2,4,6-Trichlorophenol	0.382	0.376	1.6	73	0.00
44	2,4,5-Trichlorophenol	0.394	0.411	-4.3	77	0.00
45 S	2-Fluorobiphenyl	1.210	1.180	2.5	77	0.00
46	1,1'-Biphenyl	1.392	1.364	2.0	75	0.00
47	2-Chloronaphthalene	1.121	1.108	1.2	75	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
 Data File : BF140100.D
 Acq On : 29 Oct 2024 09:37
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Oct 29 09:59:29 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 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	0.343	0.385	-12.2	80	0.00
49	Acenaphthylene	1.621	1.605	1.0	75	0.00
50	Dimethylphthalate	1.246	1.227	1.5	75	0.00
51	2,6-Dinitrotoluene	0.270	0.295	-9.3	79	0.00
52 C	Acenaphthene	1.049	1.061	-1.1	77	0.00
53	3-Nitroaniline	0.278	0.297	-6.8	76	0.00
54 P	2,4-Dinitrophenol	0.093	0.155	-66.7#	115	0.00
55	Dibenzofuran	1.505	1.476	1.9	75	0.00
56 P	4-Nitrophenol	0.214	0.236	-10.3	77	0.00
57	2,4-Dinitrotoluene	0.332	0.388	-16.9	82	0.00
58	Fluorene	1.146	1.132	1.2	77	0.00
59	2,3,4,6-Tetrachlorophenol	0.309	0.316	-2.3	77	0.00
60	Diethylphthalate	1.223	1.207	1.3	75	0.00
61	4-Chlorophenyl-phenylether	0.579	0.583	-0.7	77	0.00
62	4-Nitroaniline	0.263	0.293	-11.4	80	0.00
63	Azobenzene	1.297	1.255	3.2	72	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	77	0.00
65	4,6-Dinitro-2-methylphenol	0.082	0.119	-45.1#	106	0.00
66 c	n-Nitrosodiphenylamine	0.599	0.566	5.5	74	0.00
67	4-Bromophenyl-phenylether	0.206	0.207	-0.5	79	0.00
68	Hexachlorobenzene	0.232	0.232	0.0	78	0.00
69	Atrazine	0.162	0.160	1.2	71	0.00
70 C	Pentachlorophenol	0.141	0.154	-9.2	79	0.00
71	Phenanthrene	0.945	0.913	3.4	76	0.00
72	Anthracene	0.922	0.902	2.2	76	0.00
73	Carbazole	0.857	0.840	2.0	77	0.00
74	Di-n-butylphthalate	0.990	1.010	-2.0	77	0.00
75 C	Fluoranthene	0.955	0.943	1.3	77	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	76	0.00
77	Benzydine	0.329	0.387	-17.6	81	0.00
78	Pyrene	1.751	1.837	-4.9	78	0.00
79 S	Terphenyl-d14	1.227	1.284	-4.6	79	0.00
80	Butylbenzylphthalate	0.525	0.589	-12.2	81	0.00
81	Benzo(a)anthracene	1.302	1.341	-3.0	77	0.00
82	3,3'-Dichlorobenzidine	0.380	0.407	-7.1	80	0.00
83	Chrysene	1.194	1.129	5.4	74	0.00
84	Bis(2-ethylhexyl)phthalate	0.589	0.667	-13.2	82	0.00
85 c	Di-n-octyl phthalate	1.071	1.049	2.1	71	-0.01
86 I	Perylene-d12	1.000	1.000	0.0	72	0.00
87	Indeno(1,2,3-cd)pyrene	1.287	1.323	-2.8	71	0.00
88	Benzo(b)fluoranthene	1.218	1.185	2.7	72	0.00
89	Benzo(k)fluoranthene	1.051	1.034	1.6	70	0.00
90 C	Benzo(a)pyrene	1.002	0.999	0.3	71	0.00
91	Dibenzo(a,h)anthracene	1.073	1.086	-1.2	70	0.00
92	Benzo(g,h,i)perylene	1.072	1.142	-6.5	73	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140100.D
Acq On : 29 Oct 2024 09:37
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 29 09:59:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 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\BF102924\
 Data File : BF140100.D
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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	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	76	0.00
2	1,4-Dioxane	40.000	36.065	9.8	69	-0.02
3	Pyridine	40.000	36.523	8.7	68	-0.01
4	n-Nitrosodimethylamine	40.000	35.174	12.1	66	-0.01
5 S	2-Fluorophenol	80.000	77.105	3.6	73	0.00
6	Aniline	40.000	35.714	10.7	66	0.00
7 S	Phenol-d6	80.000	75.076	6.2	72	0.00
8	2-Chlorophenol	40.000	38.460	3.8	73	0.00
9	Benzaldehyde	40.000	38.226	4.4	72	0.00
10 C	Phenol	40.000	37.804	5.5	72	0.00
11	bis(2-Chloroethyl)ether	40.000	38.288	4.3	74	0.00
12	1,3-Dichlorobenzene	40.000	39.591	1.0	75	0.00
13 C	1,4-Dichlorobenzene	40.000	39.522	1.2	76	0.00
14	1,2-Dichlorobenzene	40.000	39.670	0.8	76	0.00
15	Benzyl Alcohol	40.000	38.130	4.7	72	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	36.318	9.2	69	0.00
17	2-Methylphenol	40.000	38.055	4.9	72	0.00
18	Hexachloroethane	40.000	40.062	-0.2	75	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	36.422	8.9	71	0.00
20	3+4-Methylphenols	40.000	37.773	5.6	72	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	75	0.00
22	Acetophenone	40.000	38.706	3.2	74	0.00
23 S	Nitrobenzene-d5	80.000	84.711	-5.9	77	0.00
24	Nitrobenzene	40.000	40.486	-1.2	75	0.00
25	Isophorone	40.000	38.579	3.6	73	0.00
26 C	2-Nitrophenol	40.000	46.897	-17.2	84	0.00
27	2,4-Dimethylphenol	40.000	37.294	6.8	70	0.00
28	bis(2-Chloroethoxy)methane	40.000	38.395	4.0	73	0.00
29 C	2,4-Dichlorophenol	40.000	39.500	1.3	74	0.00
30	1,2,4-Trichlorobenzene	40.000	39.921	0.2	75	0.00
31	Naphthalene	40.000	39.161	2.1	74	0.00
32	Benzoic acid	40.000	41.140	-2.9	76	0.00
33	4-Chloroaniline	40.000	37.651	5.9	71	0.00
34 C	Hexachlorobutadiene	40.000	41.197	-3.0	78	0.00
35	Caprolactam	40.000	39.935	0.2	74	0.00
36 C	4-Chloro-3-methylphenol	40.000	39.486	1.3	74	0.00
37	2-Methylnaphthalene	40.000	39.026	2.4	75	0.00
38	1-Methylnaphthalene	40.000	38.730	3.2	74	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	75	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	40.717	-1.8	77	0.00
41 P	Hexachlorocyclopentadiene	40.000	41.093	-2.7	73	0.00
42 S	2,4,6-Tribromophenol	80.000	86.905	-8.6	82	0.00
43 C	2,4,6-Trichlorophenol	40.000	39.415	1.5	73	0.00
44	2,4,5-Trichlorophenol	40.000	41.730	-4.3	77	0.00
45 S	2-Fluorobiphenyl	80.000	77.983	2.5	77	0.00
46	1,1'-Biphenyl	40.000	39.200	2.0	75	0.00
47	2-Chloronaphthalene	40.000	39.527	1.2	75	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
 Data File : BF140100.D
 Acq On : 29 Oct 2024 09:37
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Oct 29 09:59:29 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 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	44.929	-12.3	80	0.00
49	Acenaphthylene	40.000	39.600	1.0	75	0.00
50	Dimethylphthalate	40.000	39.396	1.5	75	0.00
51	2,6-Dinitrotoluene	40.000	43.705	-9.3	79	0.00
52 C	Acenaphthene	40.000	40.465	-1.2	77	0.00
53	3-Nitroaniline	40.000	42.683	-6.7	76	0.00
54 P	2,4-Dinitrophenol	40.000	57.194	-43.0#	115	0.00
55	Dibenzofuran	40.000	39.241	1.9	75	0.00
56 P	4-Nitrophenol	40.000	44.022	-10.1	77	0.00
57	2,4-Dinitrotoluene	40.000	46.765	-16.9	82	0.00
58	Fluorene	40.000	39.507	1.2	77	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	40.906	-2.3	77	0.00
60	Diethylphthalate	40.000	39.485	1.3	75	0.00
61	4-Chlorophenyl-phenylether	40.000	40.286	-0.7	77	0.00
62	4-Nitroaniline	40.000	44.623	-11.6	80	0.00
63	Azobenzene	40.000	38.698	3.3	72	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	77	0.00
65	4,6-Dinitro-2-methylphenol	40.000	58.416	-46.0#	106	0.00
66 c	n-Nitrosodiphenylamine	40.000	37.816	5.5	74	0.00
67	4-Bromophenyl-phenylether	40.000	40.226	-0.6	79	0.00
68	Hexachlorobenzene	40.000	40.035	-0.1	78	0.00
69	Atrazine	40.000	39.389	1.5	71	0.00
70 C	Pentachlorophenol	40.000	43.806	-9.5	79	0.00
71	Phenanthrene	40.000	38.654	3.4	76	0.00
72	Anthracene	40.000	39.128	2.2	76	0.00
73	Carbazole	40.000	39.205	2.0	77	0.00
74	Di-n-butylphthalate	40.000	40.805	-2.0	77	0.00
75 C	Fluoranthene	40.000	39.514	1.2	77	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	76	0.00
77	Benzydine	40.000	47.078	-17.7	81	0.00
78	Pyrene	40.000	41.982	-5.0	78	0.00
79 S	Terphenyl-d14	80.000	83.670	-4.6	79	0.00
80	Butylbenzylphthalate	40.000	44.907	-12.3	81	0.00
81	Benzo(a)anthracene	40.000	41.194	-3.0	77	0.00
82	3,3'-Dichlorobenzidine	40.000	42.900	-7.2	80	0.00
83	Chrysene	40.000	37.838	5.4	74	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	45.315	-13.3	82	0.00
85 c	Di-n-octyl phthalate	40.000	39.177	2.1	71	-0.01
86 I	Perylene-d12	20.000	20.000	0.0	72	0.00
87	Indeno(1,2,3-cd)pyrene	40.000	41.128	-2.8	71	0.00
88	Benzo(b)fluoranthene	40.000	38.915	2.7	72	0.00
89	Benzo(k)fluoranthene	40.000	39.346	1.6	70	0.00
90 C	Benzo(a)pyrene	40.000	39.861	0.3	71	0.00
91	Dibenzo(a,h)anthracene	40.000	40.482	-1.2	70	0.00
92	Benzo(g,h,i)perylene	40.000	42.618	-6.5	73	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140100.D
Acq On : 29 Oct 2024 09:37
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 29 09:59:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 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.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/29/2024 16:01

Lab File ID: BF140113.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.205		-5.7	
Benzaldehyde	0.931	0.974		4.6	
Phenol-d6	1.655	1.537		-7.1	
Phenol	1.706	1.605		-5.9	20.0
bis(2-Chloroethyl)ether	1.319	1.266		-4.0	
2-Chlorophenol	1.306	1.245		-4.7	
2-Methylphenol	1.114	1.067		-4.2	
2,2-oxybis(1-Chloropropane)	2.248	2.083		-7.3	
Acetophenone	0.490	0.470		-4.1	
3+4-Methylphenols	1.424	1.318		-7.4	
n-Nitroso-di-n-propylamine	1.004	0.946	0.050	-5.8	
Nitrobenzene-d5	0.361	0.383		6.1	
Hexachloroethane	0.534	0.545		2.1	
Nitrobenzene	0.396	0.402		1.5	
Isophorone	0.685	0.680		-0.7	
2-Nitrophenol	0.149	0.181		21.5	20.0
2,4-Dimethylphenol	0.249	0.233		-6.4	
bis(2-Chloroethoxy)methane	0.415	0.408		-1.7	
2,4-Dichlorophenol	0.283	0.282		-0.4	20.0
Naphthalene	1.031	1.010		-2.0	
4-Chloroaniline	0.352	0.329		-6.5	
Hexachlorobutadiene	0.197	0.207		5.1	20.0
Caprolactam	0.090	0.091		1.1	
4-Chloro-3-methylphenol	0.314	0.318		1.3	20.0
2-Methylnaphthalene	0.632	0.625		-1.1	
Hexachlorocyclopentadiene	0.188	0.190	0.050	1.1	
2,4,6-Trichlorophenol	0.382	0.377		-1.3	20.0
2-Fluorobiphenyl	1.210	1.189		-1.7	
2,4,5-Trichlorophenol	0.394	0.416		5.6	
1,1-Biphenyl	1.392	1.372		-1.4	
2-Chloronaphthalene	1.121	1.104		-1.5	
2-Nitroaniline	0.343	0.381		11.1	
Dimethylphthalate	1.246	1.264		1.4	
Acenaphthylene	1.621	1.599		-1.4	
2,6-Dinitrotoluene	0.270	0.296		9.6	
3-Nitroaniline	0.278	0.292		5.0	
Acenaphthene	1.049	1.075		2.5	20.0
2,4-Dinitrophenol	0.093	0.159	0.050	71.0	
4-Nitrophenol	0.214	0.221	0.050	3.3	



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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/29/2024 16:01

Lab File ID: BF140113.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.505	1.480		-1.7	
2,4-Dinitrotoluene	0.332	0.389		17.2	
Diethylphthalate	1.223	1.260		3.0	
4-Chlorophenyl-phenylether	0.579	0.591		2.1	
Fluorene	1.146	1.142		-0.3	
4-Nitroaniline	0.263	0.285		8.4	
4,6-Dinitro-2-methylphenol	0.082	0.125		52.4	
n-Nitrosodiphenylamine	0.599	0.594		-0.8	20.0
2,4,6-Tribromophenol	0.187	0.205		9.6	
4-Bromophenyl-phenylether	0.206	0.220		6.8	
Hexachlorobenzene	0.232	0.242		4.3	
Atrazine	0.162	0.161		-0.6	
Pentachlorophenol	0.141	0.155		9.9	20.0
Phenanthrene	0.945	0.912		-3.5	
Anthracene	0.922	0.902		-2.2	
Carbazole	0.857	0.799		-6.8	
Di-n-butylphthalate	0.990	1.023		3.3	
Fluoranthene	0.955	0.899		-5.9	20.0
Pyrene	1.751	1.679		-4.1	
Terphenyl-d14	1.227	1.209		-1.5	
Butylbenzylphthalate	0.525	0.610		16.2	
3,3-Dichlorobenzidine	0.380	0.442		16.3	
Benzo (a) anthracene	1.302	1.290		-0.9	
Chrysene	1.194	1.183		-0.9	
Bis(2-ethylhexyl)phthalate	0.589	0.782		32.8	
Di-n-octyl phthalate	1.071	1.324		23.6	20.0
Benzo (b) fluoranthene	1.218	1.164		-4.4	
Benzo (k) fluoranthene	1.051	1.021		-2.9	
Benzo (a) pyrene	1.002	0.991		-1.1	20.0
Indeno (1,2,3-cd) pyrene	1.287	1.296		0.7	
Dibenzo (a,h) anthracene	1.073	1.071		-0.2	
Benzo (g,h,i) perylene	1.072	1.091		1.8	
1,2,4,5-Tetrachlorobenzene	0.540	0.552		2.2	
1,4-Dioxane	0.596	0.528		-11.4	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.322		4.2	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
 Data File : BF140113.D
 Acq On : 29 Oct 2024 16:01
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
 Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 29 16:37:26 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 18 15:07:50 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	154336	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	582321	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	326390	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	563401	20.000	ng	0.00
76) Chrysene-d12	14.074	240	296186	20.000	ng	0.02
86) Perylene-d12	15.592	264	329400	20.000	ng	0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	743996	75.466	ng	0.00
7) Phenol-d6	6.516	99	948872	74.313	ng	0.00
23) Nitrobenzene-d5	7.457	82	891222	84.824	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	267663	87.674	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1552720	78.623	ng	0.00
79) Terphenyl-d14	12.998	244	1431872	78.775	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.669	88	162943	35.449	ng	98
3) Pyridine	3.440	79	421889	37.029	ng	99
4) n-Nitrosodimethylamine	3.399	42	223333	36.484	ng	99
6) Aniline	6.557	93	445056	37.400	ng	99
8) 2-Chlorophenol	6.675	128	384327	38.133	ng	99
9) Benzaldehyde	6.439	77	300771	41.873	ng	99
10) Phenol	6.528	94	495266m	37.623	ng	
11) bis(2-Chloroethyl)ether	6.628	93	390779	38.407	ng	100
12) 1,3-Dichlorobenzene	6.834	146	456471	39.455	ng	100
13) 1,4-Dichlorobenzene	6.910	146	457203	39.556	ng	99
14) 1,2-Dichlorobenzene	7.063	146	421208	39.046	ng	99
15) Benzyl Alcohol	7.028	79	367803	39.269	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.163	45	642999	37.062	ng	98
17) 2-Methylphenol	7.134	107	329484	38.339	ng	98
18) Hexachloroethane	7.404	117	168286	40.829	ng	97
19) n-Nitroso-di-n-propyla...	7.304	70	292090	37.718	ng	98
20) 3+4-Methylphenols	7.292	107	406879	37.015	ng	# 83
22) Acetophenone	7.298	105	547054	38.355	ng	98
24) Nitrobenzene	7.475	77	467909	40.619	ng	100
25) Isophorone	7.710	82	792075	39.719	ng	99
26) 2-Nitrophenol	7.786	139	210871	48.523	ng	98
27) 2,4-Dimethylphenol	7.816	122	271833	37.513	ng	97
28) bis(2-Chloroethoxy)met...	7.922	93	475498	39.356	ng	100
29) 2,4-Dichlorophenol	8.028	162	327963	39.735	ng	99
30) 1,2,4-Trichlorobenzene	8.110	180	367887	40.281	ng	99
31) Naphthalene	8.192	128	1175766	39.150	ng	100
32) Benzoic acid	7.939	122	270416	42.786	ng	99
33) 4-Chloroaniline	8.239	127	382919	37.392	ng	99
34) Hexachlorobutadiene	8.310	225	241270	42.045	ng	99
35) Caprolactam	8.616	113	105823	40.322	ng	97
36) 4-Chloro-3-methylphenol	8.716	107	370459	40.534	ng	99
37) 2-Methylnaphthalene	8.886	142	728121	39.586	ng	99
38) 1-Methylnaphthalene	8.981	142	707632	39.213	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	360611	40.953	ng	99
41) Hexachlorocyclopentadiene	9.033	237	124083	40.499	ng	100
43) 2,4,6-Trichlorophenol	9.157	196	245975	39.456	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
 Data File : BF140113.D
 Acq On : 29 Oct 2024 16:01
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
 Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 29 16:37:26 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 18 15:07:50 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	271707	42.243	ng	99
46) 1,1'-Biphenyl	9.351	154	895579	39.415	ng	99
47) 2-Chloronaphthalene	9.375	162	720392	39.365	ng	99
48) 2-Nitroaniline	9.469	65	248826	44.457	ng	95
49) Acenaphthylene	9.792	152	1043630	39.447	ng	100
50) Dimethylphthalate	9.651	163	824802	40.570	ng	100
51) 2,6-Dinitrotoluene	9.710	165	193043	43.855	ng	99
52) Acenaphthene	9.963	154	701432	40.984	ng	99
53) 3-Nitroaniline	9.880	138	190432	41.951	ng	96
54) 2,4-Dinitrophenol	9.980	184	103525	58.514	ng	# 1
55) Dibenzofuran	10.133	168	966386	39.355	ng	99
56) 4-Nitrophenol	10.028	139	143961	41.221	ng	97
57) 2,4-Dinitrotoluene	10.110	165	253696	46.867	ng	100
58) Fluorene	10.475	166	745319	39.850	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.251	232	210025	41.653	ng	98
60) Diethylphthalate	10.345	149	822514	41.206	ng	99
61) 4-Chlorophenyl-phenyle...	10.469	204	386070	40.876	ng	99
62) 4-Nitroaniline	10.492	138	186065	43.399	ng	98
63) Azobenzene	10.627	77	827895	39.122	ng	98
65) 4,6-Dinitro-2-methylph...	10.522	198	140612	61.186	ng	94
66) n-Nitrosodiphenylamine	10.586	169	669526	39.705	ng	100
67) 4-Bromophenyl-phenylether	10.957	248	247494	42.641	ng	99
68) Hexachlorobenzene	11.022	284	272750	41.784	ng	99
69) Atrazine	11.110	200	181908	39.824	ng	99
70) Pentachlorophenol	11.216	266	174262	43.987	ng	99
71) Phenanthrene	11.439	178	1027169	38.597	ng	100
72) Anthracene	11.492	178	1016521	39.149	ng	100
73) Carbazole	11.645	167	900780	37.302	ng	99
74) Di-n-butylphthalate	11.974	149	1152766	41.318	ng	100
75) Fluoranthene	12.627	202	1012672	37.641	ng	100
77) Benzidine	12.751	184	313360	64.341	ng	99
78) Pyrene	12.857	202	994568	38.362	ng	100
80) Butylbenzylphthalate	13.474	149	361607	46.523	ng	100
81) Benzo(a)anthracene	14.063	228	764088	39.630	ng	99
82) 3,3'-Dichlorobenzidine	14.021	252	262064	46.617	ng	99
83) Chrysene	14.098	228	700836	39.644	ng	100
84) Bis(2-ethylhexyl)phtha...	14.045	149	463194	53.115	ng	99
85) Di-n-octyl phthalate	14.698	149	784324	49.448	ng	98
87) Indeno(1,2,3-cd)pyrene	17.109	276	854097	40.304	ng	98
88) Benzo(b)fluoranthene	15.151	252	767024	38.226	ng	99
89) Benzo(k)fluoranthene	15.186	252	672813	38.880	ng	100
90) Benzo(a)pyrene	15.527	252	653063	39.554	ng	100
91) Dibenzo(a,h)anthracene	17.127	278	705262	39.895	ng	98
92) Benzo(g,h,i)perylene	17.568	276	718764	40.704	ng	98

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

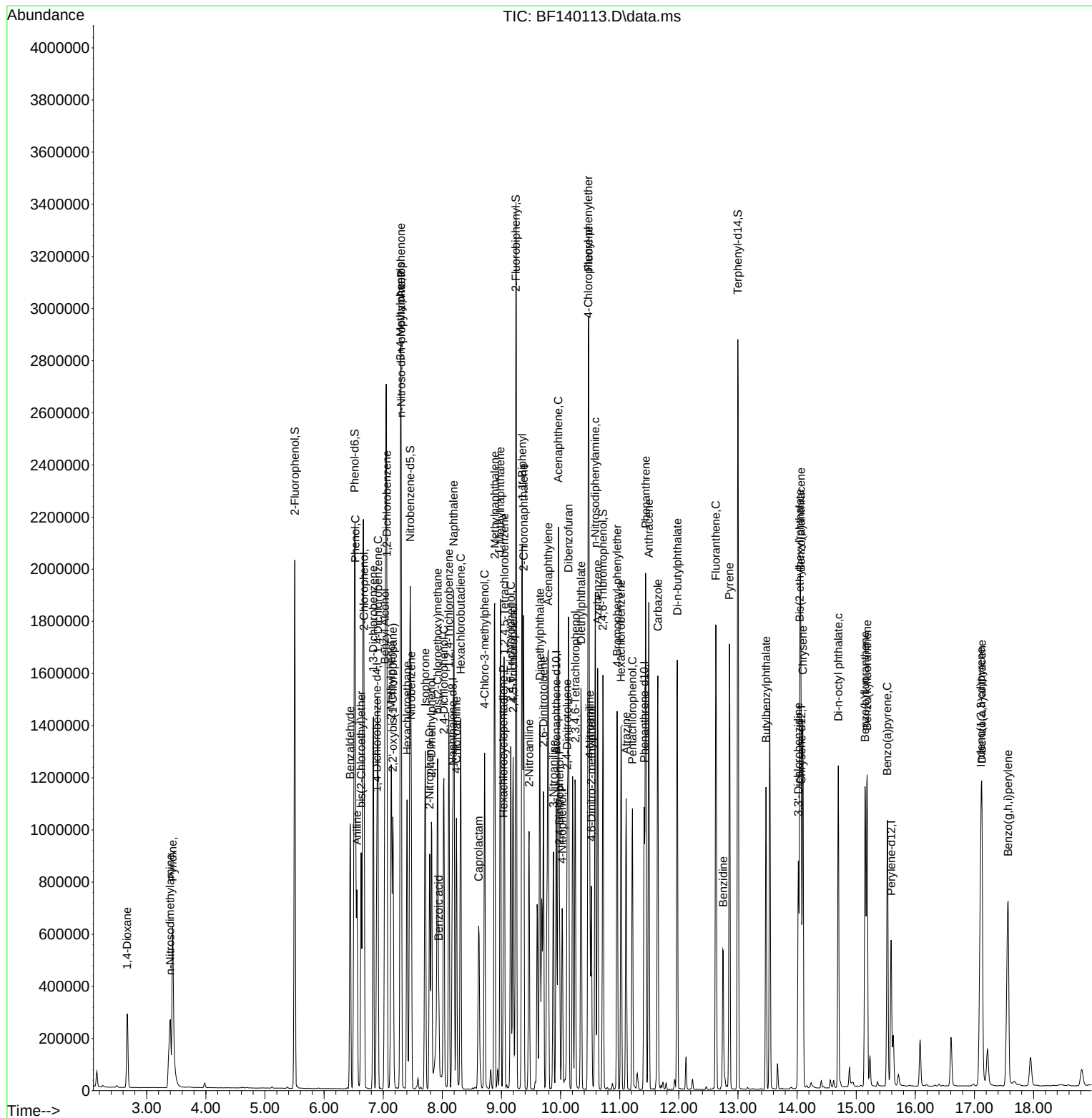
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140113.D
Acq On : 29 Oct 2024 16:01
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 29 16:37:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
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Quant Time: Oct 29 16:37:26 2024
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 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	85	0.00
2	1,4-Dioxane	0.596	0.528	11.4	76	-0.02
3	Pyridine	1.476	1.367	7.4	77	0.00
4	n-Nitrosodimethylamine	0.793	0.724	8.7	76	0.00
5 S	2-Fluorophenol	1.278	1.205	5.7	80	0.00
6	Aniline	1.542	1.442	6.5	77	0.00
7 S	Phenol-d6	1.655	1.537	7.1	79	0.00
8	2-Chlorophenol	1.306	1.245	4.7	81	0.00
9	Benzaldehyde	0.931	0.974	-4.6	88	0.00
10 C	Phenol	1.706	1.605	5.9	80	0.00
11	bis(2-Chloroethyl)ether	1.319	1.266	4.0	83	0.00
12	1,3-Dichlorobenzene	1.499	1.479	1.3	84	0.00
13 C	1,4-Dichlorobenzene	1.498	1.481	1.1	85	0.00
14	1,2-Dichlorobenzene	1.398	1.365	2.4	84	0.00
15	Benzyl Alcohol	1.214	1.192	1.8	83	0.00
16	2,2'-oxybis(1-Chloropropane	2.248	2.083	7.3	78	0.00
17	2-Methylphenol	1.114	1.067	4.2	81	0.00
18	Hexachloroethane	0.534	0.545	-2.1	86	0.00
19 P	n-Nitroso-di-n-propylamine	1.004	0.946	5.8	82	0.00
20	3+4-Methylphenols	1.424	1.318	7.4	79	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	85	0.00
22	Acetophenone	0.490	0.470	4.1	82	0.00
23 S	Nitrobenzene-d5	0.361	0.383	-6.1	87	0.00
24	Nitrobenzene	0.396	0.402	-1.5	84	0.00
25	Isophorone	0.685	0.680	0.7	85	0.00
26 C	2-Nitrophenol	0.149	0.181	-21.5#	97	0.00
27	2,4-Dimethylphenol	0.249	0.233	6.4	79	0.00
28	bis(2-Chloroethoxy)methane	0.415	0.408	1.7	84	0.00
29 C	2,4-Dichlorophenol	0.283	0.282	0.4	84	0.00
30	1,2,4-Trichlorobenzene	0.314	0.316	-0.6	85	0.00
31	Naphthalene	1.031	1.010	2.0	83	0.00
32	Benzoic acid	0.217	0.232	-6.9	89	0.02
33	4-Chloroaniline	0.352	0.329	6.5	79	0.00
34 C	Hexachlorobutadiene	0.197	0.207	-5.1	89	0.00
35	Caprolactam	0.090	0.091	-1.1	84	0.00
36 C	4-Chloro-3-methylphenol	0.314	0.318	-1.3	85	0.00
37	2-Methylnaphthalene	0.632	0.625	1.1	85	0.00
38	1-Methylnaphthalene	0.620	0.608	1.9	84	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	86	0.00
40	1,2,4,5-Tetrachlorobenzene	0.540	0.552	-2.2	88	0.00
41 P	Hexachlorocyclopentadiene	0.188	0.190	-1.1	82	0.00
42 S	2,4,6-Tribromophenol	0.187	0.205	-9.6	94	0.00
43 C	2,4,6-Trichlorophenol	0.382	0.377	1.3	84	0.00
44	2,4,5-Trichlorophenol	0.394	0.416	-5.6	89	0.00
45 S	2-Fluorobiphenyl	1.210	1.189	1.7	88	0.00
46	1,1'-Biphenyl	1.392	1.372	1.4	86	0.00
47	2-Chloronaphthalene	1.121	1.104	1.5	85	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
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 Acq On : 29 Oct 2024 16:01
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Oct 29 16:37:26 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 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	0.343	0.381	-11.1	90	0.00
49	Acenaphthylene	1.621	1.599	1.4	85	0.00
50	Dimethylphthalate	1.246	1.264	-1.4	88	0.00
51	2,6-Dinitrotoluene	0.270	0.296	-9.6	91	0.00
52 C	Acenaphthene	1.049	1.075	-2.5	88	0.00
53	3-Nitroaniline	0.278	0.292	-5.0	86	0.00
54 P	2,4-Dinitrophenol	0.093	0.159	-71.0#	135	0.00
55	Dibenzofuran	1.505	1.480	1.7	86	0.00
56 P	4-Nitrophenol	0.214	0.221	-3.3	82	0.00
57	2,4-Dinitrotoluene	0.332	0.389	-17.2	94	0.00
58	Fluorene	1.146	1.142	0.3	88	0.00
59	2,3,4,6-Tetrachlorophenol	0.309	0.322	-4.2	89	0.00
60	Diethylphthalate	1.223	1.260	-3.0	89	0.00
61	4-Chlorophenyl-phenylether	0.579	0.591	-2.1	89	0.00
62	4-Nitroaniline	0.263	0.285	-8.4	89	0.00
63	Azobenzene	1.297	1.268	2.2	83	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	85	0.00
65	4,6-Dinitro-2-methylphenol	0.082	0.125	-52.4#	121	0.00
66 c	n-Nitrosodiphenylamine	0.599	0.594	0.8	85	0.00
67	4-Bromophenyl-phenylether	0.206	0.220	-6.8	92	0.00
68	Hexachlorobenzene	0.232	0.242	-4.3	89	0.00
69	Atrazine	0.162	0.161	0.6	78	0.00
70 C	Pentachlorophenol	0.141	0.155	-9.9	86	0.00
71	Phenanthrene	0.945	0.912	3.5	83	0.00
72	Anthracene	0.922	0.902	2.2	84	0.00
73	Carbazole	0.857	0.799	6.8	80	0.00
74	Di-n-butylphthalate	0.990	1.023	-3.3	86	0.00
75 C	Fluoranthene	0.955	0.899	5.9	81	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	86	0.02
77	Benzydine	0.329	0.529	-60.8#	124	0.00
78	Pyrene	1.751	1.679	4.1	80	0.00
79 S	Terphenyl-d14	1.227	1.209	1.5	83	0.00
80	Butylbenzylphthalate	0.525	0.610	-16.2	94	0.00
81	Benzo(a)anthracene	1.302	1.290	0.9	83	0.02
82	3,3'-Dichlorobenzidine	0.380	0.442	-16.3	98	0.02
83	Chrysene	1.194	1.183	0.9	87	0.02
84	Bis(2-ethylhexyl)phthalate	0.589	0.782	-32.8#	107	0.01
85 c	Di-n-octyl phthalate	1.071	1.324	-23.6#	100	0.05
86 I	Perylene-d12	1.000	1.000	0.0	90	0.06
87	Indeno(1,2,3-cd)pyrene	1.287	1.296	-0.7	87	0.09
88	Benzo(b)fluoranthene	1.218	1.164	4.4	88	0.05
89	Benzo(k)fluoranthene	1.051	1.021	2.9	86	0.06
90 C	Benzo(a)pyrene	1.002	0.991	1.1	87	0.06
91	Dibenzo(a,h)anthracene	1.073	1.071	0.2	86	0.08
92	Benzo(g,h,i)perylene	1.072	1.091	-1.8	87	0.09

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Misc :
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Instrument :
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SSTDCCC040

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 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 = 2

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
 Data File : BF140113.D
 Acq On : 29 Oct 2024 16:01
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Oct 29 16:37:26 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 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	85	0.00
2	1,4-Dioxane	40.000	35.449	11.4	76	-0.02
3	Pyridine	40.000	37.029	7.4	77	0.00
4	n-Nitrosodimethylamine	40.000	36.484	8.8	76	0.00
5 S	2-Fluorophenol	80.000	75.466	5.7	80	0.00
6	Aniline	40.000	37.400	6.5	77	0.00
7 S	Phenol-d6	80.000	74.313	7.1	79	0.00
8	2-Chlorophenol	40.000	38.133	4.7	81	0.00
9	Benzaldehyde	40.000	41.873	-4.7	88	0.00
10 C	Phenol	40.000	37.623	5.9	80	0.00
11	bis(2-Chloroethyl)ether	40.000	38.407	4.0	83	0.00
12	1,3-Dichlorobenzene	40.000	39.455	1.4	84	0.00
13 C	1,4-Dichlorobenzene	40.000	39.556	1.1	85	0.00
14	1,2-Dichlorobenzene	40.000	39.046	2.4	84	0.00
15	Benzyl Alcohol	40.000	39.269	1.8	83	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	37.062	7.3	78	0.00
17	2-Methylphenol	40.000	38.339	4.2	81	0.00
18	Hexachloroethane	40.000	40.829	-2.1	86	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	37.718	5.7	82	0.00
20	3+4-Methylphenols	40.000	37.015	7.5	79	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	85	0.00
22	Acetophenone	40.000	38.355	4.1	82	0.00
23 S	Nitrobenzene-d5	80.000	84.824	-6.0	87	0.00
24	Nitrobenzene	40.000	40.619	-1.5	84	0.00
25	Isophorone	40.000	39.719	0.7	85	0.00
26 C	2-Nitrophenol	40.000	48.523	-21.3#	97	0.00
27	2,4-Dimethylphenol	40.000	37.513	6.2	79	0.00
28	bis(2-Chloroethoxy)methane	40.000	39.356	1.6	84	0.00
29 C	2,4-Dichlorophenol	40.000	39.735	0.7	84	0.00
30	1,2,4-Trichlorobenzene	40.000	40.281	-0.7	85	0.00
31	Naphthalene	40.000	39.150	2.1	83	0.00
32	Benzoic acid	40.000	42.786	-7.0	89	0.02
33	4-Chloroaniline	40.000	37.392	6.5	79	0.00
34 C	Hexachlorobutadiene	40.000	42.045	-5.1	89	0.00
35	Caprolactam	40.000	40.322	-0.8	84	0.00
36 C	4-Chloro-3-methylphenol	40.000	40.534	-1.3	85	0.00
37	2-Methylnaphthalene	40.000	39.586	1.0	85	0.00
38	1-Methylnaphthalene	40.000	39.213	2.0	84	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	86	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	40.953	-2.4	88	0.00
41 P	Hexachlorocyclopentadiene	40.000	40.499	-1.2	82	0.00
42 S	2,4,6-Tribromophenol	80.000	87.674	-9.6	94	0.00
43 C	2,4,6-Trichlorophenol	40.000	39.456	1.4	84	0.00
44	2,4,5-Trichlorophenol	40.000	42.243	-5.6	89	0.00
45 S	2-Fluorobiphenyl	80.000	78.623	1.7	88	0.00
46	1,1'-Biphenyl	40.000	39.415	1.5	86	0.00
47	2-Chloronaphthalene	40.000	39.365	1.6	85	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
 Data File : BF140113.D
 Acq On : 29 Oct 2024 16:01
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Oct 29 16:37:26 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 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	44.457	-11.1	90	0.00
49	Acenaphthylene	40.000	39.447	1.4	85	0.00
50	Dimethylphthalate	40.000	40.570	-1.4	88	0.00
51	2,6-Dinitrotoluene	40.000	43.855	-9.6	91	0.00
52 C	Acenaphthene	40.000	40.984	-2.5	88	0.00
53	3-Nitroaniline	40.000	41.951	-4.9	86	0.00
54 P	2,4-Dinitrophenol	40.000	58.514	-46.3#	135	0.00
55	Dibenzofuran	40.000	39.355	1.6	86	0.00
56 P	4-Nitrophenol	40.000	41.221	-3.1	82	0.00
57	2,4-Dinitrotoluene	40.000	46.867	-17.2	94	0.00
58	Fluorene	40.000	39.850	0.4	88	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	41.653	-4.1	89	0.00
60	Diethylphthalate	40.000	41.206	-3.0	89	0.00
61	4-Chlorophenyl-phenylether	40.000	40.876	-2.2	89	0.00
62	4-Nitroaniline	40.000	43.399	-8.5	89	0.00
63	Azobenzene	40.000	39.122	2.2	83	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	85	0.00
65	4,6-Dinitro-2-methylphenol	40.000	61.186	-53.0#	121	0.00
66 c	n-Nitrosodiphenylamine	40.000	39.705	0.7	85	0.00
67	4-Bromophenyl-phenylether	40.000	42.641	-6.6	92	0.00
68	Hexachlorobenzene	40.000	41.784	-4.5	89	0.00
69	Atrazine	40.000	39.824	0.4	78	0.00
70 C	Pentachlorophenol	40.000	43.987	-10.0	86	0.00
71	Phenanthrene	40.000	38.597	3.5	83	0.00
72	Anthracene	40.000	39.149	2.1	84	0.00
73	Carbazole	40.000	37.302	6.7	80	0.00
74	Di-n-butylphthalate	40.000	41.318	-3.3	86	0.00
75 C	Fluoranthene	40.000	37.641	5.9	81	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	86	0.02
77	Benzydine	40.000	64.341	-60.9#	124	0.00
78	Pyrene	40.000	38.362	4.1	80	0.00
79 S	Terphenyl-d14	80.000	78.775	1.5	83	0.00
80	Butylbenzylphthalate	40.000	46.523	-16.3	94	0.00
81	Benzo(a)anthracene	40.000	39.630	0.9	83	0.02
82	3,3'-Dichlorobenzidine	40.000	46.617	-16.5	98	0.02
83	Chrysene	40.000	39.644	0.9	87	0.02
84	Bis(2-ethylhexyl)phthalate	40.000	53.115	-32.8#	107	0.01
85 c	Di-n-octyl phthalate	40.000	49.448	-23.6#	100	0.05
86 I	Perylene-d12	20.000	20.000	0.0	90	0.06
87	Indeno(1,2,3-cd)pyrene	40.000	40.304	-0.8	87	0.09
88	Benzo(b)fluoranthene	40.000	38.226	4.4	88	0.05
89	Benzo(k)fluoranthene	40.000	38.880	2.8	86	0.06
90 C	Benzo(a)pyrene	40.000	39.554	1.1	87	0.06
91	Dibenzo(a,h)anthracene	40.000	39.895	0.3	86	0.08
92	Benzo(g,h,i)perylene	40.000	40.704	-1.8	87	0.09

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140113.D
Acq On : 29 Oct 2024 16:01
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 29 16:37:26 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 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 = 2



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.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/30/2024 12:50

Lab File ID: BF140152.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.251		-2.1	
Benzaldehyde	0.931	0.947		1.7	
Phenol-d6	1.655	1.614		-2.5	
Phenol	1.706	1.677		-1.7	20.0
bis(2-Chloroethyl)ether	1.319	1.299		-1.5	
2-Chlorophenol	1.306	1.283		-1.8	
2-Methylphenol	1.114	1.110		-0.4	
2,2-oxybis(1-Chloropropane)	2.248	2.246		-0.1	
Acetophenone	0.490	0.493		0.6	
3+4-Methylphenols	1.424	1.392		-2.2	
n-Nitroso-di-n-propylamine	1.004	0.987	0.050	-1.7	
Nitrobenzene-d5	0.361	0.403		11.6	
Hexachloroethane	0.534	0.572		7.1	
Nitrobenzene	0.396	0.423		6.8	
Isophorone	0.685	0.698		1.9	
2-Nitrophenol	0.149	0.185		24.2	20.0
2,4-Dimethylphenol	0.249	0.243		-2.4	
bis(2-Chloroethoxy)methane	0.415	0.422		1.7	
2,4-Dichlorophenol	0.283	0.293		3.5	20.0
Naphthalene	1.031	1.048		1.6	
4-Chloroaniline	0.352	0.314		-10.8	
Hexachlorobutadiene	0.197	0.215		9.1	20.0
Caprolactam	0.090	0.098		8.9	
4-Chloro-3-methylphenol	0.314	0.326		3.8	20.0
2-Methylnaphthalene	0.632	0.653		3.3	
Hexachlorocyclopentadiene	0.188	0.206	0.050	9.6	
2,4,6-Trichlorophenol	0.382	0.410		7.3	20.0
2-Fluorobiphenyl	1.210	1.261		4.2	
2,4,5-Trichlorophenol	0.394	0.412		4.6	
1,1-Biphenyl	1.392	1.428		2.6	
2-Chloronaphthalene	1.121	1.150		2.6	
2-Nitroaniline	0.343	0.410		19.5	
Dimethylphthalate	1.246	1.313		5.4	
Acenaphthylene	1.621	1.674		3.3	
2,6-Dinitrotoluene	0.270	0.307		13.7	
3-Nitroaniline	0.278	0.308		10.8	
Acenaphthene	1.049	1.117		6.5	20.0
2,4-Dinitrophenol	0.093	0.172	0.050	84.9	
4-Nitrophenol	0.214	0.253	0.050	18.2	



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.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/30/2024 12:50

Lab File ID: BF140152.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.505	1.543		2.5	
2,4-Dinitrotoluene	0.332	0.413		24.4	
Diethylphthalate	1.223	1.315		7.5	
4-Chlorophenyl-phenylether	0.579	0.612		5.7	
Fluorene	1.146	1.194		4.2	
4-Nitroaniline	0.263	0.320		21.7	
4,6-Dinitro-2-methylphenol	0.082	0.127		54.9	
n-Nitrosodiphenylamine	0.599	0.585		-2.3	20.0
2,4,6-Tribromophenol	0.187	0.210		12.3	
4-Bromophenyl-phenylether	0.206	0.210		1.9	
Hexachlorobenzene	0.232	0.236		1.7	
Atrazine	0.162	0.168		3.7	
Pentachlorophenol	0.141	0.161		14.2	20.0
Phenanthrene	0.945	0.948		0.3	
Anthracene	0.922	0.924		0.2	
Carbazole	0.857	0.875		2.1	
Di-n-butylphthalate	0.990	1.081		9.2	
Fluoranthene	0.955	1.004		5.1	20.0
Pyrene	1.751	1.697		-3.1	
Terphenyl-d14	1.227	1.240		1.1	
Butylbenzylphthalate	0.525	0.670		27.6	
3,3-Dichlorobenzidine	0.380	0.419		10.3	
Benzo (a) anthracene	1.302	1.276		-2.0	
Chrysene	1.194	1.259		5.4	
Bis(2-ethylhexyl)phthalate	0.589	0.876		48.7	
Di-n-octyl phthalate	1.071	1.375		28.4	20.0
Benzo (b) fluoranthene	1.218	1.180		-3.1	
Benzo (k) fluoranthene	1.051	1.187		12.9	
Benzo (a) pyrene	1.002	1.048		4.6	20.0
Indeno (1,2,3-cd) pyrene	1.287	1.326		3.0	
Dibenzo (a,h) anthracene	1.073	1.091		1.7	
Benzo (g,h,i) perylene	1.072	1.109		3.5	
1,2,4,5-Tetrachlorobenzene	0.540	0.571		5.7	
1,4-Dioxane	0.596	0.546		-8.4	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.334		8.1	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
 Data File : BF140152.D
 Acq On : 30 Oct 2024 12:50
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Yogesh
 Patel

11/04/2024

Supervised By :mohammad
 ahmed

Quant Time: Oct 31 18:55:28 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	120224	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	456321	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	257889	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	475664	20.000	ng	0.00
76) Chrysene-d12	14.068	240	284421	20.000	ng	0.02
86) Perylene-d12	15.574	264	273128	20.000	ng	0.05

11/04/2024

System Monitoring Compounds

5) 2-Fluorophenol	5.498	112	601681	78.347	ng	0.00
7) Phenol-d6	6.510	99	776052	78.024	ng	0.00
23) Nitrobenzene-d5	7.445	82	735942	89.386	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	216646	89.812	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1300634	83.352	ng	0.00
79) Terphenyl-d14	13.004	244	1410500	80.809	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.657	88	131208	36.644	ng	99
3) Pyridine	3.422	79	308915	34.806	ng	97
4) n-Nitrosodimethylamine	3.375	42	188116	39.450	ng	93
6) Aniline	6.551	93	299398	32.298	ng	99
8) 2-Chlorophenol	6.669	128	308493	39.294	ng	97
9) Benzaldehyde	6.434	77	227697	40.694	ng	100
10) Phenol	6.522	94	403317m	39.332	ng	
11) bis(2-Chloroethyl)ether	6.622	93	312442	39.421	ng	99
12) 1,3-Dichlorobenzene	6.828	146	367670	40.797	ng	99
13) 1,4-Dichlorobenzene	6.904	146	372514	41.373	ng	98
14) 1,2-Dichlorobenzene	7.057	146	340237	40.489	ng	100
15) Benzyl Alcohol	7.022	79	296426	40.628	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.157	45	540036	39.960	ng	99
17) 2-Methylphenol	7.128	107	266814	39.856	ng	98
18) Hexachloroethane	7.398	117	137503	42.826	ng	97
19) n-Nitroso-di-n-propyla...	7.298	70	237245	39.328	ng	99
20) 3+4-Methylphenols	7.287	107	334749	39.094	ng	# 78
22) Acetophenone	7.292	105	449816	40.246	ng	98
24) Nitrobenzene	7.469	77	385924	42.752	ng	99
25) Isophorone	7.704	82	637455	40.792	ng	100
26) 2-Nitrophenol	7.781	139	169045	49.639	ng	99
27) 2,4-Dimethylphenol	7.810	122	221945	39.085	ng	98
28) bis(2-Chloroethoxy)met...	7.910	93	385428	40.709	ng	99
29) 2,4-Dichlorophenol	8.016	162	267580	41.371	ng	100
30) 1,2,4-Trichlorobenzene	8.104	180	300204	41.947	ng	99
31) Naphthalene	8.187	128	956891	40.659	ng	100
32) Benzoic acid	7.922	122	225621	45.555	ng	99
33) 4-Chloroaniline	8.234	127	286311	35.678	ng	100
34) Hexachlorobutadiene	8.304	225	196627	43.727	ng	99
35) Caprolactam	8.610	113	89258	43.401	ng	98
36) 4-Chloro-3-methylphenol	8.710	107	297801	41.582	ng	100
37) 2-Methylnaphthalene	8.875	142	595900	41.344	ng	100
38) 1-Methylnaphthalene	8.975	142	586201	41.454	ng	100
40) 1,2,4,5-Tetrachloroben...	9.045	216	294617	42.346	ng	99
41) Hexachlorocyclopentadiene	9.028	237	106481	43.985	ng	98
43) 2,4,6-Trichlorophenol	9.151	196	211316	42.900	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
 Data File : BF140152.D
 Acq On : 30 Oct 2024 12:50
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

Manual Integrations
 APPROVED

Reviewed By :Yogesh
 Patel

11/04/2024

Supervised By :mohammad
 ahmed

Quant Time: Oct 31 18:55:28 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	212347	41.784	ng	99
46) 1,1'-Biphenyl	9.345	154	736346	41.016	ng	99
47) 2-Chloronaphthalene	9.369	162	593254	41.029	ng	99
48) 2-Nitroaniline	9.463	65	211430	47.810	ng	99
49) Acenaphthylene	9.786	152	863599	41.312	ng	100
50) Dimethylphthalate	9.645	163	677276	42.163	ng	100
51) 2,6-Dinitrotoluene	9.710	165	158208	45.488	ng	100
52) Acenaphthene	9.963	154	576232	42.612	ng	99
53) 3-Nitroaniline	9.875	138	158634	44.228	ng	98
54) 2,4-Dinitrophenol	9.981	184	88638	62.862	ng	# 1
55) Dibenzofuran	10.133	168	795628	41.008	ng	100
56) 4-Nitrophenol	10.028	139	130378	47.248	ng	94
57) 2,4-Dinitrotoluene	10.110	165	212894	49.776	ng	97
58) Fluorene	10.475	166	615715	41.665	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	172223	43.229	ng	99
60) Diethylphthalate	10.345	149	678254	43.004	ng	99
61) 4-Chlorophenyl-phenyle...	10.469	204	315432	42.268	ng	100
62) 4-Nitroaniline	10.492	138	164808	48.652	ng	95
63) Azobenzene	10.628	77	691963	41.384	ng	99
65) 4,6-Dinitro-2-methylph...	10.522	198	121218	62.477	ng	96
66) n-Nitrosodiphenylamine	10.586	169	556763	39.108	ng	99
67) 4-Bromophenyl-phenylether	10.957	248	199874	40.789	ng	99
68) Hexachlorobenzene	11.028	284	224862	40.802	ng	98
69) Atrazine	11.110	200	159952	41.476	ng	99
70) Pentachlorophenol	11.216	266	152752	45.669	ng	100
71) Phenanthrene	11.439	178	901799	40.136	ng	100
72) Anthracene	11.492	178	878673	40.082	ng	100
73) Carbazole	11.645	167	832243	40.820	ng	99
74) Di-n-butylphthalate	11.975	149	1028309	43.656	ng	100
75) Fluoranthene	12.633	202	954721	42.033	ng	99
77) Benzidine	12.751	184	204648	43.758	ng	97
78) Pyrene	12.863	202	965481	38.780	ng	100
80) Butylbenzylphthalate	13.480	149	381375	51.095	ng	99
81) Benzo(a)anthracene	14.057	228	725710	39.196	ng	100
82) 3,3'-Dichlorobenzidine	14.021	252	238192	44.123	ng	99
83) Chrysene	14.098	228	716337	42.197	ng	100
84) Bis(2-ethylhexyl)phtha...	14.045	149	498081	59.478	ng	99
85) Di-n-octyl phthalate	14.686	149	782075	51.345	ng	99
87) Indeno(1,2,3-cd)pyrene	17.098	276	724583	41.237	ng	98
88) Benzo(b)fluoranthene	15.139	252	644608	38.744	ng	100
89) Benzo(k)fluoranthene	15.168	252	648199	45.175	ng	99
90) Benzo(a)pyrene	15.515	252	572376	41.809	ng	99
91) Dibenzo(a,h)anthracene	17.115	278	595818	40.648	ng	98
92) Benzo(g,h,i)perylene	17.557	276	605616	41.363	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140152.D
Acq On : 30 Oct 2024 12:50
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

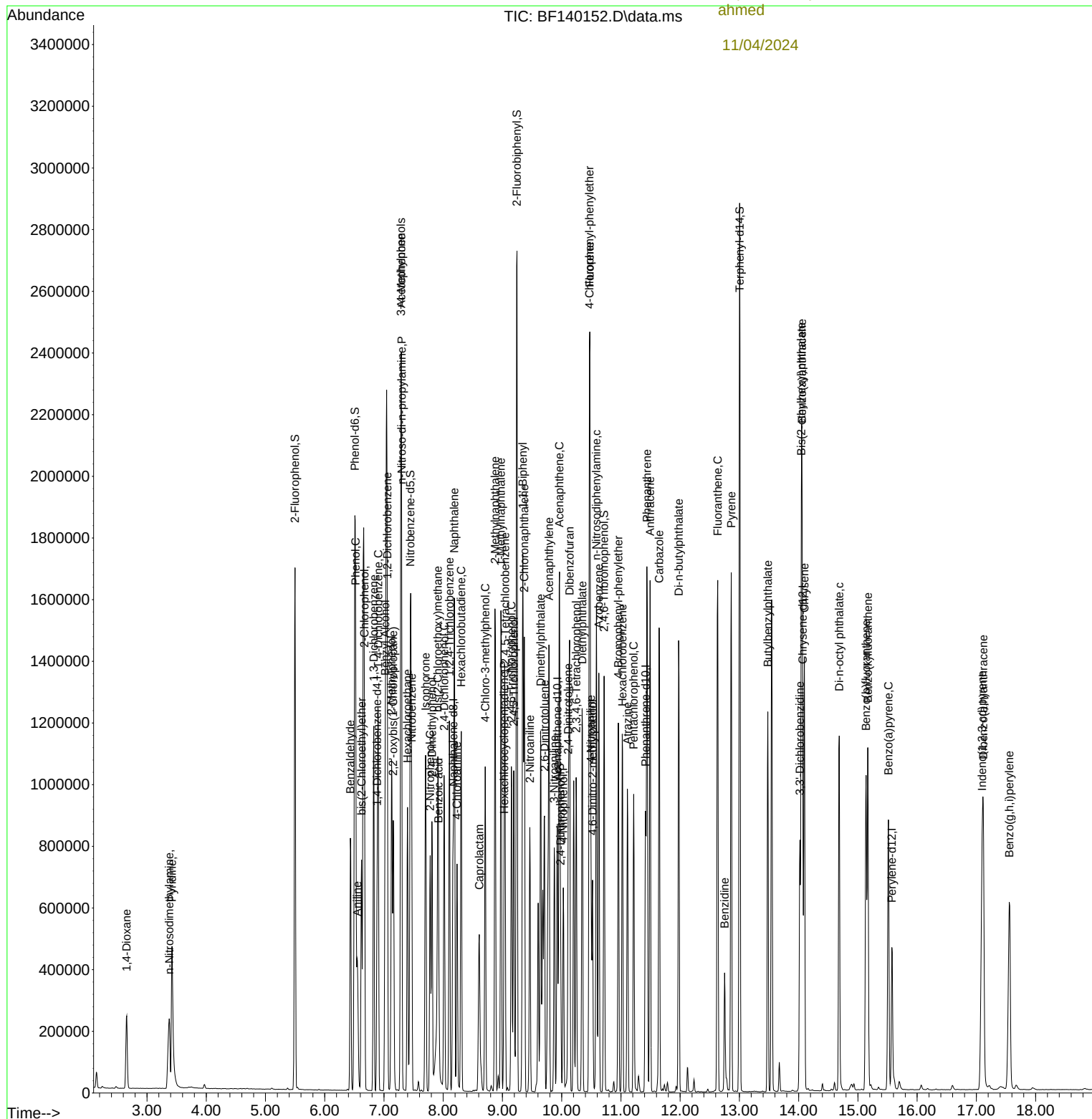
Reviewed By :Yogesh Patel

11/04/2024

Supervised By :mohammad
ahmed

11/04/2024

Quant Time: Oct 31 18:55:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
 Data File : BF140152.D
 Acq On : 30 Oct 2024 12:50
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Oct 31 18:55:28 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 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	66	0.00
2	1,4-Dioxane	0.596	0.546	8.4	61	-0.03
3	Pyridine	1.476	1.285	12.9	56	-0.02
4	n-Nitrosodimethylamine	0.793	0.782	1.4	64	-0.02
5 S	2-Fluorophenol	1.278	1.251	2.1	65	0.00
6	Aniline	1.542	1.245	19.3	52	0.00
7 S	Phenol-d6	1.655	1.614	2.5	65	0.00
8	2-Chlorophenol	1.306	1.283	1.8	65	0.00
9	Benzaldehyde	0.931	0.947	-1.7	67	0.00
10 C	Phenol	1.706	1.677	1.7	65	0.00
11	bis(2-Chloroethyl)ether	1.319	1.299	1.5	66	0.00
12	1,3-Dichlorobenzene	1.499	1.529	-2.0	67	0.00
13 C	1,4-Dichlorobenzene	1.498	1.549	-3.4	69	0.00
14	1,2-Dichlorobenzene	1.398	1.415	-1.2	68	0.00
15	Benzyl Alcohol	1.214	1.233	-1.6	67	0.00
16	2,2'-oxybis(1-Chloropropane	2.248	2.246	0.1	66	-0.01
17	2-Methylphenol	1.114	1.110	0.4	66	0.00
18	Hexachloroethane	0.534	0.572	-7.1	70	0.00
19 P	n-Nitroso-di-n-propylamine	1.004	0.987	1.7	67	0.00
20	3+4-Methylphenols	1.424	1.392	2.2	65	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	66	0.00
22	Acetophenone	0.490	0.493	-0.6	68	0.00
23 S	Nitrobenzene-d5	0.361	0.403	-11.6	72	0.00
24	Nitrobenzene	0.396	0.423	-6.8	70	0.00
25	Isophorone	0.685	0.698	-1.9	68	0.00
26 C	2-Nitrophenol	0.149	0.185	-24.2#	78	0.00
27	2,4-Dimethylphenol	0.249	0.243	2.4	65	0.00
28	bis(2-Chloroethoxy)methane	0.415	0.422	-1.7	68	-0.01
29 C	2,4-Dichlorophenol	0.283	0.293	-3.5	69	0.00
30	1,2,4-Trichlorobenzene	0.314	0.329	-4.8	69	-0.01
31	Naphthalene	1.031	1.048	-1.6	68	-0.01
32	Benzoic acid	0.217	0.247	-13.8	75	0.00
33	4-Chloroaniline	0.352	0.314	10.8	59	0.00
34 C	Hexachlorobutadiene	0.197	0.215	-9.1	72	-0.01
35	Caprolactam	0.090	0.098	-8.9	71	0.00
36 C	4-Chloro-3-methylphenol	0.314	0.326	-3.8	69	0.00
37	2-Methylnaphthalene	0.632	0.653	-3.3	70	-0.01
38	1-Methylnaphthalene	0.620	0.642	-3.5	70	-0.01
39 I	Acenaphthene-d10	1.000	1.000	0.0	68	0.00
40	1,2,4,5-Tetrachlorobenzene	0.540	0.571	-5.7	72	0.00
41 P	Hexachlorocyclopentadiene	0.188	0.206	-9.6	71	-0.01
42 S	2,4,6-Tribromophenol	0.187	0.210	-12.3	76	0.00
43 C	2,4,6-Trichlorophenol	0.382	0.410	-7.3	72	0.00
44	2,4,5-Trichlorophenol	0.394	0.412	-4.6	70	0.00
45 S	2-Fluorobiphenyl	1.210	1.261	-4.2	74	0.00
46	1,1'-Biphenyl	1.392	1.428	-2.6	70	0.00
47	2-Chloronaphthalene	1.121	1.150	-2.6	70	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
 Data File : BF140152.D
 Acq On : 30 Oct 2024 12:50
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Oct 31 18:55:28 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 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	0.343	0.410	-19.5	76	0.00
49	Acenaphthylene	1.621	1.674	-3.3	70	0.00
50	Dimethylphthalate	1.246	1.313	-5.4	72	0.00
51	2,6-Dinitrotoluene	0.270	0.307	-13.7	74	0.00
52 C	Acenaphthene	1.049	1.117	-6.5	73	0.00
53	3-Nitroaniline	0.278	0.308	-10.8	71	0.00
54 P	2,4-Dinitrophenol	0.093	0.172	-84.9#	115	0.00
55	Dibenzofuran	1.505	1.543	-2.5	70	0.00
56 P	4-Nitrophenol	0.214	0.253	-18.2	74	0.00
57	2,4-Dinitrotoluene	0.332	0.413	-24.4	79	0.00
58	Fluorene	1.146	1.194	-4.2	73	0.00
59	2,3,4,6-Tetrachlorophenol	0.309	0.334	-8.1	73	0.00
60	Diethylphthalate	1.223	1.315	-7.5	74	0.00
61	4-Chlorophenyl-phenylether	0.579	0.612	-5.7	73	0.00
62	4-Nitroaniline	0.263	0.320	-21.7	79	0.00
63	Azobenzene	1.297	1.342	-3.5	70	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	72	0.00
65	4,6-Dinitro-2-methylphenol	0.082	0.127	-54.9#	105	0.00
66 c	n-Nitrosodiphenylamine	0.599	0.585	2.3	70	0.00
67	4-Bromophenyl-phenylether	0.206	0.210	-1.9	74	0.00
68	Hexachlorobenzene	0.232	0.236	-1.7	73	0.00
69	Atrazine	0.162	0.168	-3.7	69	0.00
70 C	Pentachlorophenol	0.141	0.161	-14.2	76	0.00
71	Phenanthrene	0.945	0.948	-0.3	73	0.00
72	Anthracene	0.922	0.924	-0.2	73	0.00
73	Carbazole	0.857	0.875	-2.1	74	0.00
74	Di-n-butylphthalate	0.990	1.081	-9.2	76	0.00
75 C	Fluoranthene	0.955	1.004	-5.1	76	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	82	0.02
77	Benzydine	0.329	0.360	-9.4	81	0.00
78	Pyrene	1.751	1.697	3.1	77	0.00
79 S	Terphenyl-d14	1.227	1.240	-1.1	82	0.00
80	Butylbenzylphthalate	0.525	0.670	-27.6#	99	0.00
81	Benzo(a)anthracene	1.302	1.276	2.0	79	0.02
82	3,3'-Dichlorobenzidine	0.380	0.419	-10.3	89	0.02
83	Chrysene	1.194	1.259	-5.4	89	0.02
84	Bis(2-ethylhexyl)phthalate	0.589	0.876	-48.7#	115	0.01
85 c	Di-n-octyl phthalate	1.071	1.375	-28.4#	100	0.04
86 I	Perylene-d12	1.000	1.000	0.0	75	0.05
87	Indeno(1,2,3-cd)pyrene	1.287	1.326	-3.0	73	0.08
88	Benzo(b)fluoranthene	1.218	1.180	3.1	74	0.04
89	Benzo(k)fluoranthene	1.051	1.187	-12.9	83	0.04
90 C	Benzo(a)pyrene	1.002	1.048	-4.6	76	0.05
91	Dibenzo(a,h)anthracene	1.073	1.091	-1.7	73	0.07
92	Benzo(g,h,i)perylene	1.072	1.109	-3.5	74	0.08

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140152.D
Acq On : 30 Oct 2024 12:50
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 31 18:55:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 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 = 2

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
 Data File : BF140152.D
 Acq On : 30 Oct 2024 12:50
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Oct 31 18:55:28 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 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	66	0.00
2	1,4-Dioxane	40.000	36.644	8.4	61	-0.03
3	Pyridine	40.000	34.806	13.0	56	-0.02
4	n-Nitrosodimethylamine	40.000	39.450	1.4	64	-0.02
5 S	2-Fluorophenol	80.000	78.347	2.1	65	0.00
6	Aniline	40.000	32.298	19.3	52	0.00
7 S	Phenol-d6	80.000	78.024	2.5	65	0.00
8	2-Chlorophenol	40.000	39.294	1.8	65	0.00
9	Benzaldehyde	40.000	40.694	-1.7	67	0.00
10 C	Phenol	40.000	39.332	1.7	65	0.00
11	bis(2-Chloroethyl)ether	40.000	39.421	1.4	66	0.00
12	1,3-Dichlorobenzene	40.000	40.797	-2.0	67	0.00
13 C	1,4-Dichlorobenzene	40.000	41.373	-3.4	69	0.00
14	1,2-Dichlorobenzene	40.000	40.489	-1.2	68	0.00
15	Benzyl Alcohol	40.000	40.628	-1.6	67	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	39.960	0.1	66	-0.01
17	2-Methylphenol	40.000	39.856	0.4	66	0.00
18	Hexachloroethane	40.000	42.826	-7.1	70	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	39.328	1.7	67	0.00
20	3+4-Methylphenols	40.000	39.094	2.3	65	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	66	0.00
22	Acetophenone	40.000	40.246	-0.6	68	0.00
23 S	Nitrobenzene-d5	80.000	89.386	-11.7	72	0.00
24	Nitrobenzene	40.000	42.752	-6.9	70	0.00
25	Isophorone	40.000	40.792	-2.0	68	0.00
26 C	2-Nitrophenol	40.000	49.639	-24.1#	78	0.00
27	2,4-Dimethylphenol	40.000	39.085	2.3	65	0.00
28	bis(2-Chloroethoxy)methane	40.000	40.709	-1.8	68	-0.01
29 C	2,4-Dichlorophenol	40.000	41.371	-3.4	69	0.00
30	1,2,4-Trichlorobenzene	40.000	41.947	-4.9	69	-0.01
31	Naphthalene	40.000	40.659	-1.6	68	-0.01
32	Benzoic acid	40.000	45.555	-13.9	75	0.00
33	4-Chloroaniline	40.000	35.678	10.8	59	0.00
34 C	Hexachlorobutadiene	40.000	43.727	-9.3	72	-0.01
35	Caprolactam	40.000	43.401	-8.5	71	0.00
36 C	4-Chloro-3-methylphenol	40.000	41.582	-4.0	69	0.00
37	2-Methylnaphthalene	40.000	41.344	-3.4	70	-0.01
38	1-Methylnaphthalene	40.000	41.454	-3.6	70	-0.01
39 I	Acenaphthene-d10	20.000	20.000	0.0	68	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	42.346	-5.9	72	0.00
41 P	Hexachlorocyclopentadiene	40.000	43.985	-10.0	71	-0.01
42 S	2,4,6-Tribromophenol	80.000	89.812	-12.3	76	0.00
43 C	2,4,6-Trichlorophenol	40.000	42.900	-7.2	72	0.00
44	2,4,5-Trichlorophenol	40.000	41.784	-4.5	70	0.00
45 S	2-Fluorobiphenyl	80.000	83.352	-4.2	74	0.00
46	1,1'-Biphenyl	40.000	41.016	-2.5	70	0.00
47	2-Chloronaphthalene	40.000	41.029	-2.6	70	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
 Data File : BF140152.D
 Acq On : 30 Oct 2024 12:50
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Oct 31 18:55:28 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 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	47.810	-19.5	76	0.00
49	Acenaphthylene	40.000	41.312	-3.3	70	0.00
50	Dimethylphthalate	40.000	42.163	-5.4	72	0.00
51	2,6-Dinitrotoluene	40.000	45.488	-13.7	74	0.00
52 C	Acenaphthene	40.000	42.612	-6.5	73	0.00
53	3-Nitroaniline	40.000	44.228	-10.6	71	0.00
54 P	2,4-Dinitrophenol	40.000	62.862	-57.2#	115	0.00
55	Dibenzofuran	40.000	41.008	-2.5	70	0.00
56 P	4-Nitrophenol	40.000	47.248	-18.1	74	0.00
57	2,4-Dinitrotoluene	40.000	49.776	-24.4	79	0.00
58	Fluorene	40.000	41.665	-4.2	73	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	43.229	-8.1	73	0.00
60	Diethylphthalate	40.000	43.004	-7.5	74	0.00
61	4-Chlorophenyl-phenylether	40.000	42.268	-5.7	73	0.00
62	4-Nitroaniline	40.000	48.652	-21.6	79	0.00
63	Azobenzene	40.000	41.384	-3.5	70	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	72	0.00
65	4,6-Dinitro-2-methylphenol	40.000	62.477	-56.2#	105	0.00
66 c	n-Nitrosodiphenylamine	40.000	39.108	2.2	70	0.00
67	4-Bromophenyl-phenylether	40.000	40.789	-2.0	74	0.00
68	Hexachlorobenzene	40.000	40.802	-2.0	73	0.00
69	Atrazine	40.000	41.476	-3.7	69	0.00
70 C	Pentachlorophenol	40.000	45.669	-14.2	76	0.00
71	Phenanthrene	40.000	40.136	-0.3	73	0.00
72	Anthracene	40.000	40.082	-0.2	73	0.00
73	Carbazole	40.000	40.820	-2.1	74	0.00
74	Di-n-butylphthalate	40.000	43.656	-9.1	76	0.00
75 C	Fluoranthene	40.000	42.033	-5.1	76	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	82	0.02
77	Benzydine	40.000	43.758	-9.4	81	0.00
78	Pyrene	40.000	38.780	3.0	77	0.00
79 S	Terphenyl-d14	80.000	80.809	-1.0	82	0.00
80	Butylbenzylphthalate	40.000	51.095	-27.7#	99	0.00
81	Benzo(a)anthracene	40.000	39.196	2.0	79	0.02
82	3,3'-Dichlorobenzidine	40.000	44.123	-10.3	89	0.02
83	Chrysene	40.000	42.197	-5.5	89	0.02
84	Bis(2-ethylhexyl)phthalate	40.000	59.478	-48.7#	115	0.01
85 c	Di-n-octyl phthalate	40.000	51.345	-28.4#	100	0.04
86 I	Perylene-d12	20.000	20.000	0.0	75	0.05
87	Indeno(1,2,3-cd)pyrene	40.000	41.237	-3.1	73	0.08
88	Benzo(b)fluoranthene	40.000	38.744	3.1	74	0.04
89	Benzo(k)fluoranthene	40.000	45.175	-12.9	83	0.04
90 C	Benzo(a)pyrene	40.000	41.809	-4.5	76	0.05
91	Dibenzo(a,h)anthracene	40.000	40.648	-1.6	73	0.07
92	Benzo(g,h,i)perylene	40.000	41.363	-3.4	74	0.08

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140152.D
Acq On : 30 Oct 2024 12:50
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 31 18:55:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 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 = 2



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.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/31/2024 09:22

Lab File ID: BF140176.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.261		-1.3	
Benzaldehyde	0.931	0.943		1.3	
Phenol-d6	1.655	1.625		-1.8	
Phenol	1.706	1.682		-1.4	20.0
bis(2-Chloroethyl)ether	1.319	1.315		-0.3	
2-Chlorophenol	1.306	1.312		0.5	
2-Methylphenol	1.114	1.121		0.6	
2,2-oxybis(1-Chloropropane)	2.248	2.100		-6.6	
Acetophenone	0.490	0.486		-0.8	
3+4-Methylphenols	1.424	1.392		-2.2	
n-Nitroso-di-n-propylamine	1.004	0.981	0.050	-2.3	
Nitrobenzene-d5	0.361	0.403		11.6	
Hexachloroethane	0.534	0.570		6.7	
Nitrobenzene	0.396	0.418		5.6	
Isophorone	0.685	0.693		1.2	
2-Nitrophenol	0.149	0.187		25.5	20.0
2,4-Dimethylphenol	0.249	0.239		-4.0	
bis(2-Chloroethoxy)methane	0.415	0.421		1.4	
2,4-Dichlorophenol	0.283	0.294		3.9	20.0
Naphthalene	1.031	1.044		1.3	
4-Chloroaniline	0.352	0.314		-10.8	
Hexachlorobutadiene	0.197	0.214		8.6	20.0
Caprolactam	0.090	0.096		6.7	
4-Chloro-3-methylphenol	0.314	0.333		6.1	20.0
2-Methylnaphthalene	0.632	0.660		4.4	
Hexachlorocyclopentadiene	0.188	0.185	0.050	-1.6	
2,4,6-Trichlorophenol	0.382	0.385		0.8	20.0
2-Fluorobiphenyl	1.210	1.231		1.7	
2,4,5-Trichlorophenol	0.394	0.424		7.6	
1,1-Biphenyl	1.392	1.403		0.8	
2-Chloronaphthalene	1.121	1.141		1.8	
2-Nitroaniline	0.343	0.398		16.0	
Dimethylphthalate	1.246	1.337		7.3	
Acenaphthylene	1.621	1.626		0.3	
2,6-Dinitrotoluene	0.270	0.305		13.0	
3-Nitroaniline	0.278	0.312		12.2	
Acenaphthene	1.049	1.115		6.3	20.0
2,4-Dinitrophenol	0.093	0.171	0.050	83.9	
4-Nitrophenol	0.214	0.249	0.050	16.4	



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.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/31/2024 09:22

Lab File ID: BF140176.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.505	1.519		0.9	
2,4-Dinitrotoluene	0.332	0.413		24.4	
Diethylphthalate	1.223	1.309		7.0	
4-Chlorophenyl-phenylether	0.579	0.613		5.9	
Fluorene	1.146	1.217		6.2	
4-Nitroaniline	0.263	0.326		24.0	
4,6-Dinitro-2-methylphenol	0.082	0.130		58.5	
n-Nitrosodiphenylamine	0.599	0.593		-1.0	20.0
2,4,6-Tribromophenol	0.187	0.215		15.0	
4-Bromophenyl-phenylether	0.206	0.214		3.9	
Hexachlorobenzene	0.232	0.237		2.2	
Atrazine	0.162	0.170		4.9	
Pentachlorophenol	0.141	0.157		11.3	20.0
Phenanthrene	0.945	0.952		0.7	
Anthracene	0.922	0.929		0.8	
Carbazole	0.857	0.884		3.2	
Di-n-butylphthalate	0.990	1.111		12.2	
Fluoranthene	0.955	1.036		8.5	20.0
Pyrene	1.751	1.635		-6.6	
Terphenyl-d14	1.227	1.195		-2.6	
Butylbenzylphthalate	0.525	0.676		28.8	
3,3-Dichlorobenzidine	0.380	0.430		13.2	
Benzo (a) anthracene	1.302	1.320		1.4	
Chrysene	1.194	1.225		2.6	
Bis (2-ethylhexyl) phthalate	0.589	0.900		52.8	
Di-n-octyl phthalate	1.071	1.388		29.6	20.0
Benzo (b) fluoranthene	1.218	1.432		17.6	
Benzo (k) fluoranthene	1.051	1.079		2.7	
Benzo (a) pyrene	1.002	1.042		4.0	20.0
Indeno (1,2,3-cd) pyrene	1.287	1.176		-8.6	
Dibenzo (a,h) anthracene	1.073	0.977		-8.9	
Benzo (g,h,i) perylene	1.072	0.971		-9.4	
1,2,4,5-Tetrachlorobenzene	0.540	0.566		4.8	
1,4-Dioxane	0.596	0.510		-14.4	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.326		5.5	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
 Data File : BF140176.D
 Acq On : 31 Oct 2024 09:22
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 31 12:02:58 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	122098	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	468668	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	269255	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	495112	20.000	ng	0.01
76) Chrysene-d12	14.098	240	315081	20.000	ng	0.05
86) Perylene-d12	15.627	264	256770	20.000	ng	0.10
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	615859	78.963	ng	0.00
7) Phenol-d6	6.516	99	793873	78.590	ng	0.00
23) Nitrobenzene-d5	7.451	82	756098	89.414	ng	0.00
42) 2,4,6-Tribromophenol	10.727	330	231902	92.078	ng	0.01
45) 2-Fluorobiphenyl	9.251	172	1325601	81.366	ng	0.00
79) Terphenyl-d14	13.021	244	1506599	77.916	ng	0.02
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.675	88	124570	34.256	ng	97
3) Pyridine	3.440	79	308246	34.198	ng	99
4) n-Nitrosodimethylamine	3.398	42	185389	38.282	ng	93
6) Aniline	6.551	93	321702	34.172	ng	97
8) 2-Chlorophenol	6.675	128	320463	40.192	ng	98
9) Benzaldehyde	6.439	77	230328	40.532	ng	99
10) Phenol	6.534	94	410658m	39.433	ng	
11) bis(2-Chloroethyl)ether	6.628	93	321010	39.880	ng	99
12) 1,3-Dichlorobenzene	6.828	146	377809	41.278	ng	99
13) 1,4-Dichlorobenzene	6.904	146	379106	41.459	ng	99
14) 1,2-Dichlorobenzene	7.063	146	351630	41.202	ng	100
15) Benzyl Alcohol	7.028	79	306033	41.301	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.163	45	512932	37.372	ng	97
17) 2-Methylphenol	7.139	107	273822	40.275	ng	97
18) Hexachloroethane	7.398	117	139231	42.698	ng	99
19) n-Nitroso-di-n-propyla...	7.304	70	239458	39.086	ng	98
20) 3+4-Methylphenols	7.292	107	339931	39.090	ng	# 79
22) Acetophenone	7.298	105	455723	39.700	ng	97
24) Nitrobenzene	7.475	77	391913	42.272	ng	100
25) Isophorone	7.710	82	649685	40.480	ng	99
26) 2-Nitrophenol	7.786	139	175019	50.040	ng	98
27) 2,4-Dimethylphenol	7.822	122	224286	38.457	ng	97
28) bis(2-Chloroethoxy)met...	7.916	93	394217	40.541	ng	99
29) 2,4-Dichlorophenol	8.028	162	275241	41.434	ng	99
30) 1,2,4-Trichlorobenzene	8.110	180	311648	42.398	ng	98
31) Naphthalene	8.192	128	978584	40.486	ng	100
32) Benzoic acid	7.945	122	231612	45.533	ng	97
33) 4-Chloroaniline	8.239	127	294453	35.726	ng	100
34) Hexachlorobutadiene	8.304	225	201022	43.526	ng	99
35) Caprolactam	8.622	113	89615	42.427	ng	96
36) 4-Chloro-3-methylphenol	8.722	107	311832	42.394	ng	99
37) 2-Methylnaphthalene	8.880	142	619045	41.818	ng	100
38) 1-Methylnaphthalene	8.986	142	601449	41.411	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	304787	41.958	ng	99
41) Hexachlorocyclopentadiene	9.033	237	99664	39.431	ng	100
43) 2,4,6-Trichlorophenol	9.163	196	207523	40.351	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
 Data File : BF140176.D
 Acq On : 31 Oct 2024 09:22
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 31 12:02:58 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 18 15:07:50 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	228084	42.986	ng	99
46) 1,1'-Biphenyl	9.351	154	755651	40.314	ng	99
47) 2-Chloronaphthalene	9.375	162	614419	40.699	ng	99
48) 2-Nitroaniline	9.475	65	214591	46.476	ng	97
49) Acenaphthylene	9.792	152	875529	40.115	ng	99
50) Dimethylphthalate	9.657	163	720178	42.941	ng	99
51) 2,6-Dinitrotoluene	9.716	165	164360	45.262	ng	97
52) Acenaphthene	9.969	154	600586	42.538	ng	99
53) 3-Nitroaniline	9.886	138	168206	44.918	ng	99
54) 2,4-Dinitrophenol	9.992	184	92258	62.687	ng	# 1
55) Dibenzofuran	10.139	168	817852	40.374	ng	99
56) 4-Nitrophenol	10.045	139	134108	46.548	ng	95
57) 2,4-Dinitrotoluene	10.127	165	222639	49.857	ng	95
58) Fluorene	10.486	166	655241	42.468	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.257	232	175732	42.248	ng	98
60) Diethylphthalate	10.357	149	704862	42.805	ng	99
61) 4-Chlorophenyl-phenyle...	10.475	204	330332	42.396	ng	98
62) 4-Nitroaniline	10.504	138	175772	49.698	ng	96
63) Azobenzene	10.639	77	706619	40.476	ng	98
65) 4,6-Dinitro-2-methylph...	10.539	198	128563	63.659	ng	91
66) n-Nitrosodiphenylamine	10.598	169	586859	39.603	ng	99
67) 4-Bromophenyl-phenylether	10.969	248	211629	41.491	ng	97
68) Hexachlorobenzene	11.039	284	234223	40.831	ng	97
69) Atrazine	11.127	200	168522	41.982	ng	99
70) Pentachlorophenol	11.233	266	155956	44.796	ng	98
71) Phenanthrene	11.451	178	942468	40.299	ng	99
72) Anthracene	11.504	178	920031	40.320	ng	100
73) Carbazole	11.663	167	875087	41.236	ng	99
74) Di-n-butylphthalate	11.986	149	1099858	44.859	ng	100
75) Fluoranthene	12.645	202	1025637	43.381	ng	99
77) Benzidine	12.768	184	336979	65.041	ng	99
78) Pyrene	12.880	202	1030281	37.356	ng	99
80) Butylbenzylphthalate	13.498	149	426086	51.531	ng	100
81) Benzo(a)anthracene	14.086	228	831795	40.554	ng	99
82) 3,3'-Dichlorobenzidine	14.045	252	271007	45.317	ng	99
83) Chrysene	14.127	228	772207	41.062	ng	99
84) Bis(2-ethylhexyl)phtha...	14.068	149	567311	61.153	ng	99
85) Di-n-octyl phthalate	14.715	149	874904	51.851	ng	99
87) Indeno(1,2,3-cd)pyrene	17.174	276	604008	36.565	ng	97
88) Benzo(b)fluoranthene	15.180	252	735155m	47.001	ng	
89) Benzo(k)fluoranthene	15.209	252	554291	41.091	ng	99
90) Benzo(a)pyrene	15.562	252	535027	41.571	ng	98
91) Dibenzo(a,h)anthracene	17.192	278	501585	36.399	ng	98
92) Benzo(g,h,i)perylene	17.645	276	498837	36.240	ng	97

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

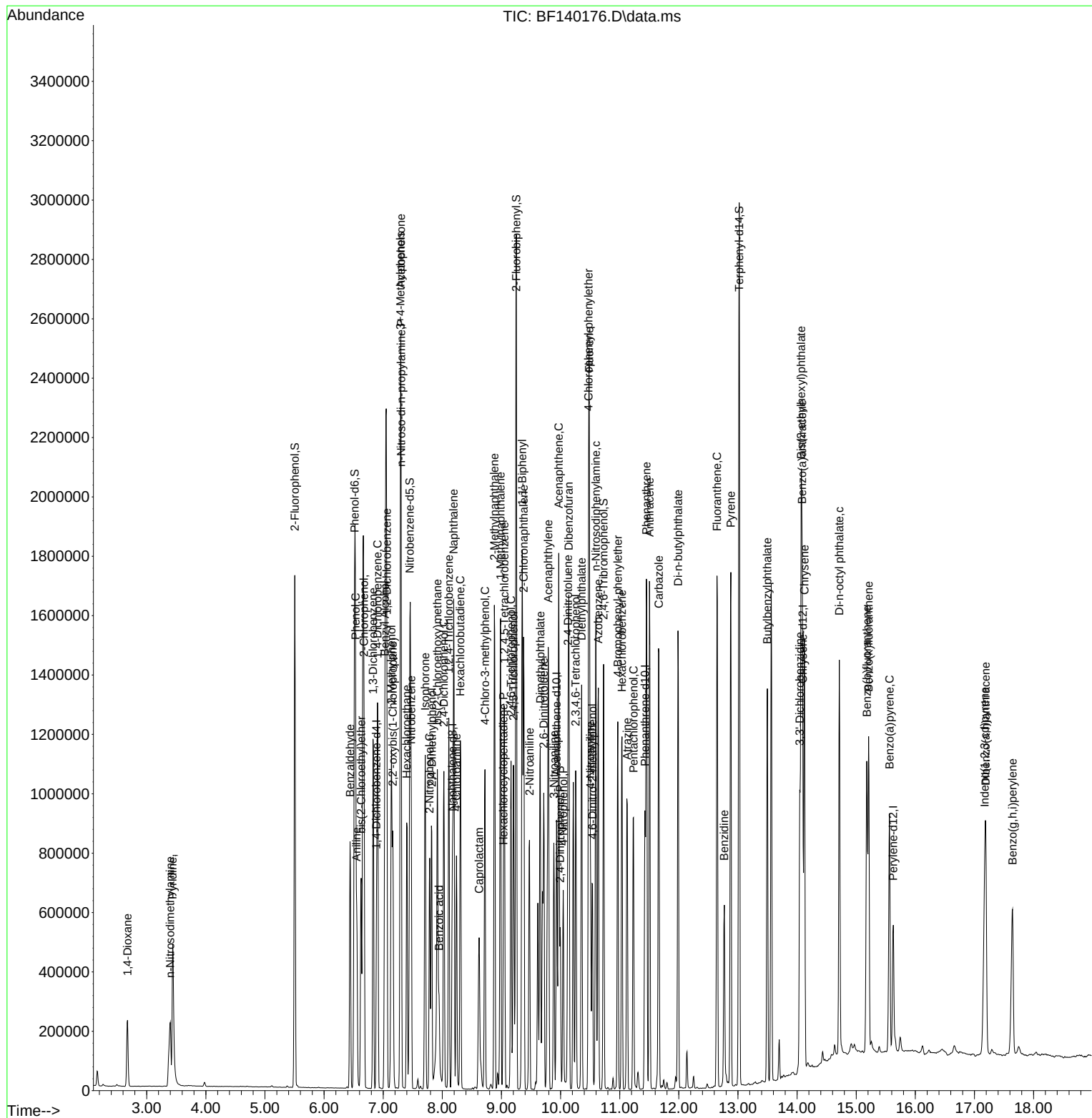
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\  
Data File : BF140176.D  
Acq On    : 31 Oct 2024  09:22  
Operator  : RC/JU  
Sample    : SSTDCCC040  
Misc      :  
ALS Vial  : 2    Sample Multiplier: 1
```

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 31 12:02:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
 Data File : BF140176.D
 Acq On : 31 Oct 2024 09:22
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Oct 31 12:02:58 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 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	67	0.00
2	1,4-Dioxane	0.596	0.510	14.4	58	-0.01
3	Pyridine	1.476	1.262	14.5	56	0.00
4	n-Nitrosodimethylamine	0.793	0.759	4.3	63	0.00
5 S	2-Fluorophenol	1.278	1.261	1.3	66	0.00
6	Aniline	1.542	1.317	14.6	56	0.00
7 S	Phenol-d6	1.655	1.625	1.8	66	0.00
8	2-Chlorophenol	1.306	1.312	-0.5	67	0.00
9	Benzaldehyde	0.931	0.943	-1.3	67	0.00
10 C	Phenol	1.706	1.682	1.4	66	0.01
11	bis(2-Chloroethyl)ether	1.319	1.315	0.3	68	0.00
12	1,3-Dichlorobenzene	1.499	1.547	-3.2	69	0.00
13 C	1,4-Dichlorobenzene	1.498	1.552	-3.6	70	0.00
14	1,2-Dichlorobenzene	1.398	1.440	-3.0	70	0.00
15	Benzyl Alcohol	1.214	1.253	-3.2	69	0.00
16	2,2'-oxybis(1-Chloropropane	2.248	2.100	6.6	63	0.00
17	2-Methylphenol	1.114	1.121	-0.6	68	0.00
18	Hexachloroethane	0.534	0.570	-6.7	71	0.00
19 P	n-Nitroso-di-n-propylamine	1.004	0.981	2.3	68	0.00
20	3+4-Methylphenols	1.424	1.392	2.2	66	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	68	0.00
22	Acetophenone	0.490	0.486	0.8	69	0.00
23 S	Nitrobenzene-d5	0.361	0.403	-11.6	74	0.00
24	Nitrobenzene	0.396	0.418	-5.6	71	0.00
25	Isophorone	0.685	0.693	-1.2	69	0.00
26 C	2-Nitrophenol	0.149	0.187	-25.5#	81	0.00
27	2,4-Dimethylphenol	0.249	0.239	4.0	66	0.00
28	bis(2-Chloroethoxy)methane	0.415	0.421	-1.4	70	0.00
29 C	2,4-Dichlorophenol	0.283	0.294	-3.9	71	0.00
30	1,2,4-Trichlorobenzene	0.314	0.332	-5.7	72	0.00
31	Naphthalene	1.031	1.044	-1.3	69	0.00
32	Benzoic acid	0.217	0.247	-13.8	77	0.02
33	4-Chloroaniline	0.352	0.314	10.8	61	0.00
34 C	Hexachlorobutadiene	0.197	0.214	-8.6	74	-0.01
35	Caprolactam	0.090	0.096	-6.7	71	0.01
36 C	4-Chloro-3-methylphenol	0.314	0.333	-6.1	72	0.01
37	2-Methylnaphthalene	0.632	0.660	-4.4	72	0.00
38	1-Methylnaphthalene	0.620	0.642	-3.5	71	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	71	0.00
40	1,2,4,5-Tetrachlorobenzene	0.540	0.566	-4.8	75	0.00
41 P	Hexachlorocyclopentadiene	0.188	0.185	1.6	66	0.00
42 S	2,4,6-Tribromophenol	0.187	0.215	-15.0	81	0.01
43 C	2,4,6-Trichlorophenol	0.382	0.385	-0.8	71	0.00
44	2,4,5-Trichlorophenol	0.394	0.424	-7.6	75	0.01
45 S	2-Fluorobiphenyl	1.210	1.231	-1.7	75	0.00
46	1,1'-Biphenyl	1.392	1.403	-0.8	72	0.00
47	2-Chloronaphthalene	1.121	1.141	-1.8	73	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
 Data File : BF140176.D
 Acq On : 31 Oct 2024 09:22
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Oct 31 12:02:58 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 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	0.343	0.398	-16.0	77	0.01
49	Acenaphthylene	1.621	1.626	-0.3	71	0.00
50	Dimethylphthalate	1.246	1.337	-7.3	77	0.00
51	2,6-Dinitrotoluene	0.270	0.305	-13.0	77	0.00
52 C	Acenaphthene	1.049	1.115	-6.3	76	0.00
53	3-Nitroaniline	0.278	0.312	-12.2	76	0.01
54 P	2,4-Dinitrophenol	0.093	0.171	-83.9#	120	0.02
55	Dibenzofuran	1.505	1.519	-0.9	72	0.00
56 P	4-Nitrophenol	0.214	0.249	-16.4	76	0.02
57	2,4-Dinitrotoluene	0.332	0.413	-24.4	82	0.02
58	Fluorene	1.146	1.217	-6.2	78	0.01
59	2,3,4,6-Tetrachlorophenol	0.309	0.326	-5.5	75	0.01
60	Diethylphthalate	1.223	1.309	-7.0	76	0.00
61	4-Chlorophenyl-phenylether	0.579	0.613	-5.9	76	0.00
62	4-Nitroaniline	0.263	0.326	-24.0	84	0.02
63	Azobenzene	1.297	1.312	-1.2	71	0.01
64 I	Phenanthrene-d10	1.000	1.000	0.0	75	0.01
65	4,6-Dinitro-2-methylphenol	0.082	0.130	-58.5#	111	0.02
66 c	n-Nitrosodiphenylamine	0.599	0.593	1.0	74	0.01
67	4-Bromophenyl-phenylether	0.206	0.214	-3.9	79	0.01
68	Hexachlorobenzene	0.232	0.237	-2.2	76	0.02
69	Atrazine	0.162	0.170	-4.9	73	0.02
70 C	Pentachlorophenol	0.141	0.157	-11.3	77	0.02
71	Phenanthrene	0.945	0.952	-0.7	76	0.01
72	Anthracene	0.922	0.929	-0.8	76	0.01
73	Carbazole	0.857	0.884	-3.2	78	0.02
74	Di-n-butylphthalate	0.990	1.111	-12.2	82	0.01
75 C	Fluoranthene	0.955	1.036	-8.5	82	0.02
76 I	Chrysene-d12	1.000	1.000	0.0	91	0.05
77	Benzidine	0.329	0.535	-62.6#	133	0.02
78	Pyrene	1.751	1.635	6.6	83	0.02
79 S	Terphenyl-d14	1.227	1.195	2.6	88	0.02
80	Butylbenzylphthalate	0.525	0.676	-28.8#	111	0.02
81	Benzo(a)anthracene	1.302	1.320	-1.4	90	0.05
82	3,3'-Dichlorobenzidine	0.380	0.430	-13.2	101	0.04
83	Chrysene	1.194	1.225	-2.6	96	0.05
84	Bis(2-ethylhexyl)phthalate	0.589	0.900	-52.8#	131	0.04
85 c	Di-n-octyl phthalate	1.071	1.388	-29.6#	111	0.06
86 I	Perylene-d12	1.000	1.000	0.0	70	0.10
87	Indeno(1,2,3-cd)pyrene	1.287	1.176	8.6	61	0.15
88	Benzo(b)fluoranthene	1.218	1.432	-17.6	84	0.08
89	Benzo(k)fluoranthene	1.051	1.079	-2.7	71	0.08
90 C	Benzo(a)pyrene	1.002	1.042	-4.0	71	0.09
91	Dibenzo(a,h)anthracene	1.073	0.977	8.9	61	0.15
92	Benzo(g,h,i)perylene	1.072	0.971	9.4	61	0.16

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140176.D
Acq On : 31 Oct 2024 09:22
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 31 12:02:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 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 = 2

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
 Data File : BF140176.D
 Acq On : 31 Oct 2024 09:22
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Oct 31 12:02:58 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 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	67	0.00
2	1,4-Dioxane	40.000	34.256	14.4	58	-0.01
3	Pyridine	40.000	34.198	14.5	56	0.00
4	n-Nitrosodimethylamine	40.000	38.282	4.3	63	0.00
5 S	2-Fluorophenol	80.000	78.963	1.3	66	0.00
6	Aniline	40.000	34.172	14.6	56	0.00
7 S	Phenol-d6	80.000	78.590	1.8	66	0.00
8	2-Chlorophenol	40.000	40.192	-0.5	67	0.00
9	Benzaldehyde	40.000	40.532	-1.3	67	0.00
10 C	Phenol	40.000	39.433	1.4	66	0.01
11	bis(2-Chloroethyl)ether	40.000	39.880	0.3	68	0.00
12	1,3-Dichlorobenzene	40.000	41.278	-3.2	69	0.00
13 C	1,4-Dichlorobenzene	40.000	41.459	-3.6	70	0.00
14	1,2-Dichlorobenzene	40.000	41.202	-3.0	70	0.00
15	Benzyl Alcohol	40.000	41.301	-3.3	69	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	37.372	6.6	63	0.00
17	2-Methylphenol	40.000	40.275	-0.7	68	0.00
18	Hexachloroethane	40.000	42.698	-6.7	71	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	39.086	2.3	68	0.00
20	3+4-Methylphenols	40.000	39.090	2.3	66	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	68	0.00
22	Acetophenone	40.000	39.700	0.7	69	0.00
23 S	Nitrobenzene-d5	80.000	89.414	-11.8	74	0.00
24	Nitrobenzene	40.000	42.272	-5.7	71	0.00
25	Isophorone	40.000	40.480	-1.2	69	0.00
26 C	2-Nitrophenol	40.000	50.040	-25.1#	81	0.00
27	2,4-Dimethylphenol	40.000	38.457	3.9	66	0.00
28	bis(2-Chloroethoxy)methane	40.000	40.541	-1.4	70	0.00
29 C	2,4-Dichlorophenol	40.000	41.434	-3.6	71	0.00
30	1,2,4-Trichlorobenzene	40.000	42.398	-6.0	72	0.00
31	Naphthalene	40.000	40.486	-1.2	69	0.00
32	Benzoic acid	40.000	45.533	-13.8	77	0.02
33	4-Chloroaniline	40.000	35.726	10.7	61	0.00
34 C	Hexachlorobutadiene	40.000	43.526	-8.8	74	-0.01
35	Caprolactam	40.000	42.427	-6.1	71	0.01
36 C	4-Chloro-3-methylphenol	40.000	42.394	-6.0	72	0.01
37	2-Methylnaphthalene	40.000	41.818	-4.5	72	0.00
38	1-Methylnaphthalene	40.000	41.411	-3.5	71	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	71	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	41.958	-4.9	75	0.00
41 P	Hexachlorocyclopentadiene	40.000	39.431	1.4	66	0.00
42 S	2,4,6-Tribromophenol	80.000	92.078	-15.1	81	0.01
43 C	2,4,6-Trichlorophenol	40.000	40.351	-0.9	71	0.00
44	2,4,5-Trichlorophenol	40.000	42.986	-7.5	75	0.01
45 S	2-Fluorobiphenyl	80.000	81.366	-1.7	75	0.00
46	1,1'-Biphenyl	40.000	40.314	-0.8	72	0.00
47	2-Chloronaphthalene	40.000	40.699	-1.7	73	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
 Data File : BF140176.D
 Acq On : 31 Oct 2024 09:22
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Oct 31 12:02:58 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 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	46.476	-16.2	77	0.01
49	Acenaphthylene	40.000	40.115	-0.3	71	0.00
50	Dimethylphthalate	40.000	42.941	-7.4	77	0.00
51	2,6-Dinitrotoluene	40.000	45.262	-13.2	77	0.00
52 C	Acenaphthene	40.000	42.538	-6.3	76	0.00
53	3-Nitroaniline	40.000	44.918	-12.3	76	0.01
54 P	2,4-Dinitrophenol	40.000	62.687	-56.7#	120	0.02
55	Dibenzofuran	40.000	40.374	-0.9	72	0.00
56 P	4-Nitrophenol	40.000	46.548	-16.4	76	0.02
57	2,4-Dinitrotoluene	40.000	49.857	-24.6	82	0.02
58	Fluorene	40.000	42.468	-6.2	78	0.01
59	2,3,4,6-Tetrachlorophenol	40.000	42.248	-5.6	75	0.01
60	Diethylphthalate	40.000	42.805	-7.0	76	0.00
61	4-Chlorophenyl-phenylether	40.000	42.396	-6.0	76	0.00
62	4-Nitroaniline	40.000	49.698	-24.2	84	0.02
63	Azobenzene	40.000	40.476	-1.2	71	0.01
64 I	Phenanthrene-d10	20.000	20.000	0.0	75	0.01
65	4,6-Dinitro-2-methylphenol	40.000	63.659	-59.1#	111	0.02
66 c	n-Nitrosodiphenylamine	40.000	39.603	1.0	74	0.01
67	4-Bromophenyl-phenylether	40.000	41.491	-3.7	79	0.01
68	Hexachlorobenzene	40.000	40.831	-2.1	76	0.02
69	Atrazine	40.000	41.982	-5.0	73	0.02
70 C	Pentachlorophenol	40.000	44.796	-12.0	77	0.02
71	Phenanthrene	40.000	40.299	-0.7	76	0.01
72	Anthracene	40.000	40.320	-0.8	76	0.01
73	Carbazole	40.000	41.236	-3.1	78	0.02
74	Di-n-butylphthalate	40.000	44.859	-12.1	82	0.01
75 C	Fluoranthene	40.000	43.381	-8.5	82	0.02
76 I	Chrysene-d12	20.000	20.000	0.0	91	0.05
77	Benzydine	40.000	65.041	-62.6#	133	0.02
78	Pyrene	40.000	37.356	6.6	83	0.02
79 S	Terphenyl-d14	80.000	77.916	2.6	88	0.02
80	Butylbenzylphthalate	40.000	51.531	-28.8#	111	0.02
81	Benzo(a)anthracene	40.000	40.554	-1.4	90	0.05
82	3,3'-Dichlorobenzidine	40.000	45.317	-13.3	101	0.04
83	Chrysene	40.000	41.062	-2.7	96	0.05
84	Bis(2-ethylhexyl)phthalate	40.000	61.153	-52.9#	131	0.04
85 c	Di-n-octyl phthalate	40.000	51.851	-29.6#	111	0.06
86 I	Perylene-d12	20.000	20.000	0.0	70	0.10
87	Indeno(1,2,3-cd)pyrene	40.000	36.565	8.6	61	0.15
88	Benzo(b)fluoranthene	40.000	47.001	-17.5	84	0.08
89	Benzo(k)fluoranthene	40.000	41.091	-2.7	71	0.08
90 C	Benzo(a)pyrene	40.000	41.571	-3.9	71	0.09
91	Dibenzo(a,h)anthracene	40.000	36.399	9.0	61	0.15
92	Benzo(g,h,i)perylene	40.000	36.240	9.4	61	0.16

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140176.D
Acq On : 31 Oct 2024 09:22
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Oct 31 12:02:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 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 = 2



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.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 11/01/2024 09:22

Lab File ID: BF140200.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.245		-2.7	
Benzaldehyde	0.931	0.962		3.3	
Phenol-d6	1.655	1.646		-0.5	
Phenol	1.706	1.707		0.1	20.0
bis(2-Chloroethyl)ether	1.319	1.336		1.3	
2-Chlorophenol	1.306	1.308		0.2	
2-Methylphenol	1.114	1.140		2.3	
2,2-oxybis(1-Chloropropane)	2.248	2.316		3.0	
Acetophenone	0.490	0.483		-1.4	
3+4-Methylphenols	1.424	1.392		-2.2	
n-Nitroso-di-n-propylamine	1.004	0.996	0.050	-0.8	
Nitrobenzene-d5	0.361	0.401		11.1	
Hexachloroethane	0.534	0.561		5.1	
Nitrobenzene	0.396	0.419		5.8	
Isophorone	0.685	0.699		2.0	
2-Nitrophenol	0.149	0.184		23.5	20.0
2,4-Dimethylphenol	0.249	0.239		-4.0	
bis(2-Chloroethoxy)methane	0.415	0.418		0.7	
2,4-Dichlorophenol	0.283	0.288		1.8	20.0
Naphthalene	1.031	1.035		0.4	
4-Chloroaniline	0.352	0.334		-5.1	
Hexachlorobutadiene	0.197	0.205		4.1	20.0
Caprolactam	0.090	0.100		11.1	
4-Chloro-3-methylphenol	0.314	0.326		3.8	20.0
2-Methylnaphthalene	0.632	0.643		1.7	
Hexachlorocyclopentadiene	0.188	0.186	0.050	-1.1	
2,4,6-Trichlorophenol	0.382	0.399		4.4	20.0
2-Fluorobiphenyl	1.210	1.197		-1.1	
2,4,5-Trichlorophenol	0.394	0.403		2.3	
1,1-Biphenyl	1.392	1.370		-1.6	
2-Chloronaphthalene	1.121	1.119		-0.2	
2-Nitroaniline	0.343	0.409		19.2	
Dimethylphthalate	1.246	1.300		4.3	
Acenaphthylene	1.621	1.616		-0.3	
2,6-Dinitrotoluene	0.270	0.305		13.0	
3-Nitroaniline	0.278	0.318		14.4	
Acenaphthene	1.049	1.094		4.3	20.0
2,4-Dinitrophenol	0.093	0.177	0.050	90.3	
4-Nitrophenol	0.214	0.257	0.050	20.1	



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.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 11/01/2024 09:22

Lab File ID: BF140200.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.505	1.497		-0.5	
2,4-Dinitrotoluene	0.332	0.409		23.2	
Diethylphthalate	1.223	1.283		4.9	
4-Chlorophenyl-phenylether	0.579	0.592		2.2	
Fluorene	1.146	1.175		2.5	
4-Nitroaniline	0.263	0.334		27.0	
4,6-Dinitro-2-methylphenol	0.082	0.129		57.3	
n-Nitrosodiphenylamine	0.599	0.588		-1.8	20.0
2,4,6-Tribromophenol	0.187	0.211		12.8	
4-Bromophenyl-phenylether	0.206	0.207		0.5	
Hexachlorobenzene	0.232	0.231		-0.4	
Atrazine	0.162	0.166		2.5	
Pentachlorophenol	0.141	0.159		12.8	20.0
Phenanthrene	0.945	0.934		-1.2	
Anthracene	0.922	0.926		0.4	
Carbazole	0.857	0.877		2.3	
Di-n-butylphthalate	0.990	1.074		8.5	
Fluoranthene	0.955	1.027		7.5	20.0
Pyrene	1.751	1.637		-6.5	
Terphenyl-d14	1.227	1.172		-4.5	
Butylbenzylphthalate	0.525	0.656		25.0	
3,3-Dichlorobenzidine	0.380	0.424		11.6	
Benzo (a) anthracene	1.302	1.323		1.6	
Chrysene	1.194	1.237		3.6	
Bis(2-ethylhexyl)phthalate	0.589	0.869		47.5	
Di-n-octyl phthalate	1.071	1.344		25.5	20.0
Benzo (b) fluoranthene	1.218	1.286		5.6	
Benzo (k) fluoranthene	1.051	1.245		18.5	
Benzo (a) pyrene	1.002	1.068		6.6	20.0
Indeno (1,2,3-cd) pyrene	1.287	1.255		-2.5	
Dibenzo (a,h) anthracene	1.073	1.035		-3.5	
Benzo (g,h,i) perylene	1.072	1.055		-1.6	
1,2,4,5-Tetrachlorobenzene	0.540	0.549		1.7	
1,4-Dioxane	0.596	0.508		-14.8	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.324		4.9	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
 Data File : BF140200.D
 Acq On : 01 Nov 2024 09:22
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :mohammad ahmed 11/04/2024

Quant Time: Nov 01 11:18:01 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 18 15:07:50 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	147950	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	577069	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	331720	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	606919	20.000	ng	0.00
76) Chrysene-d12	14.080	240	388668	20.000	ng	0.03
86) Perylene-d12	15.580	264	308087	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.499	112	736495	77.930	ng	0.00
7) Phenol-d6	6.516	99	974120	79.584	ng	0.00
23) Nitrobenzene-d5	7.451	82	925105	88.850	ng	0.00
42) 2,4,6-Tribromophenol	10.722	330	279792	90.174	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1587676	79.101	ng	0.00
79) Terphenyl-d14	13.016	244	1822572	76.411	ng	0.02
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.664	88	150204	34.088	ng	99
3) Pyridine	3.434	79	370797	33.949	ng	97
4) n-Nitrosodimethylamine	3.387	42	222121	37.852	ng	# 92
6) Aniline	6.551	93	414919	36.372	ng	100
8) 2-Chlorophenol	6.675	128	387068	40.063	ng	99
9) Benzaldehyde	6.440	77	284659	41.340	ng	99
10) Phenol	6.528	94	505138m	40.030	ng	
11) bis(2-Chloroethyl)ether	6.622	93	395369	40.536	ng	97
12) 1,3-Dichlorobenzene	6.828	146	447454	40.345	ng	99
13) 1,4-Dichlorobenzene	6.904	146	449890	40.603	ng	100
14) 1,2-Dichlorobenzene	7.057	146	418160	40.436	ng	99
15) Benzyl Alcohol	7.028	79	373415	41.589	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.157	45	685167	41.198	ng	99
17) 2-Methylphenol	7.134	107	337377	40.952	ng	99
18) Hexachloroethane	7.398	117	166034	42.021	ng	98
19) n-Nitroso-di-n-propyla...	7.298	70	294658	39.692	ng	98
20) 3+4-Methylphenols	7.287	107	412021	39.101	ng	# 88
22) Acetophenone	7.298	105	557438	39.439	ng	99
24) Nitrobenzene	7.469	77	483474	42.352	ng	99
25) Isophorone	7.704	82	806784	40.825	ng	99
26) 2-Nitrophenol	7.781	139	212827	49.419	ng	99
27) 2,4-Dimethylphenol	7.816	122	276182	38.460	ng	97
28) bis(2-Chloroethoxy)met...	7.916	93	482108	40.266	ng	100
29) 2,4-Dichlorophenol	8.022	162	331884	40.576	ng	100
30) 1,2,4-Trichlorobenzene	8.110	180	368165	40.679	ng	99
31) Naphthalene	8.193	128	1194339	40.130	ng	100
32) Benzoic acid	7.940	122	274707	43.860	ng	99
33) 4-Chloroaniline	8.240	127	385323	37.969	ng	99
34) Hexachlorobutadiene	8.304	225	236249	41.545	ng	99
35) Caprolactam	8.622	113	115423	44.380	ng	99
36) 4-Chloro-3-methylphenol	8.716	107	375904	41.505	ng	98
37) 2-Methylnaphthalene	8.881	142	741603	40.686	ng	100
38) 1-Methylnaphthalene	8.981	142	725580	40.574	ng	99
40) 1,2,4,5-Tetrachloroben...	9.045	216	364186	40.694	ng	100
41) Hexachlorocyclopentadiene	9.034	237	123567	39.682	ng	99
43) 2,4,6-Trichlorophenol	9.157	196	264511	41.747	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
 Data File : BF140200.D
 Acq On : 01 Nov 2024 09:22
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :mohammad ahmed 11/04/2024

Quant Time: Nov 01 11:18:01 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	267076	40.856	ng	99
46) 1,1'-Biphenyl	9.345	154	908989	39.363	ng	100
47) 2-Chloronaphthalene	9.375	162	742472	39.920	ng	100
48) 2-Nitroaniline	9.469	65	271275	47.689	ng	97
49) Acenaphthylene	9.792	152	1071903	39.864	ng	99
50) Dimethylphthalate	9.651	163	862666	41.751	ng	99
51) 2,6-Dinitrotoluene	9.716	165	202613	45.289	ng	99
52) Acenaphthene	9.963	154	725746	41.724	ng	98
53) 3-Nitroaniline	9.887	138	211048	45.745	ng	98
54) 2,4-Dinitrophenol	9.987	184	117466	64.567	ng	# 1
55) Dibenzofuran	10.139	168	993093	39.793	ng	100
56) 4-Nitrophenol	10.039	139	170483	48.031	ng	97
57) 2,4-Dinitrotoluene	10.122	165	271261	49.306	ng	96
58) Fluorene	10.481	166	779808	41.025	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	214757	41.907	ng	99
60) Diethylphthalate	10.351	149	850987	41.947	ng	99
61) 4-Chlorophenyl-phenyle...	10.469	204	392561	40.895	ng	98
62) 4-Nitroaniline	10.504	138	221916	50.930	ng	96
63) Azobenzene	10.634	77	885583	41.175	ng	99
65) 4,6-Dinitro-2-methylph...	10.534	198	156728	63.309	ng	95
66) n-Nitrosodiphenylamine	10.592	169	713314	39.269	ng	100
67) 4-Bromophenyl-phenylether	10.963	248	251648	40.248	ng	99
68) Hexachlorobenzene	11.034	284	280969	39.957	ng	99
69) Atrazine	11.122	200	201635	40.978	ng	99
70) Pentachlorophenol	11.222	266	192795	45.176	ng	100
71) Phenanthrene	11.451	178	1133808	39.549	ng	100
72) Anthracene	11.498	178	1124155	40.190	ng	100
73) Carbazole	11.657	167	1064234	40.910	ng	99
74) Di-n-butylphthalate	11.986	149	1303205	43.361	ng	100
75) Fluoranthene	12.639	202	1247084	43.031	ng	99
77) Benzidine	12.763	184	336591	52.666	ng	100
78) Pyrene	12.875	202	1272270	37.396	ng	99
80) Butylbenzylphthalate	13.492	149	510189	50.020	ng	100
81) Benzo(a)anthracene	14.069	228	1028407	40.647	ng	100
82) 3,3'-Dichlorobenzidine	14.027	252	329234	44.630	ng	100
83) Chrysene	14.104	228	961686	41.456	ng	100
84) Bis(2-ethylhexyl)phtha...	14.051	149	675581	59.036	ng	99
85) Di-n-octyl phthalate	14.680	149	1045098	50.210	ng	99
87) Indeno(1,2,3-cd)pyrene	17.110	276	773204	39.011	ng	99
88) Benzo(b)fluoranthene	15.139	252	792579	42.232	ng	99
89) Benzo(k)fluoranthene	15.169	252	767307	47.408	ng	99
90) Benzo(a)pyrene	15.516	252	658000	42.610	ng	100
91) Dibenzo(a,h)anthracene	17.127	278	637774	38.573	ng	99
92) Benzo(g,h,i)perylene	17.574	276	650364	39.379	ng	99

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

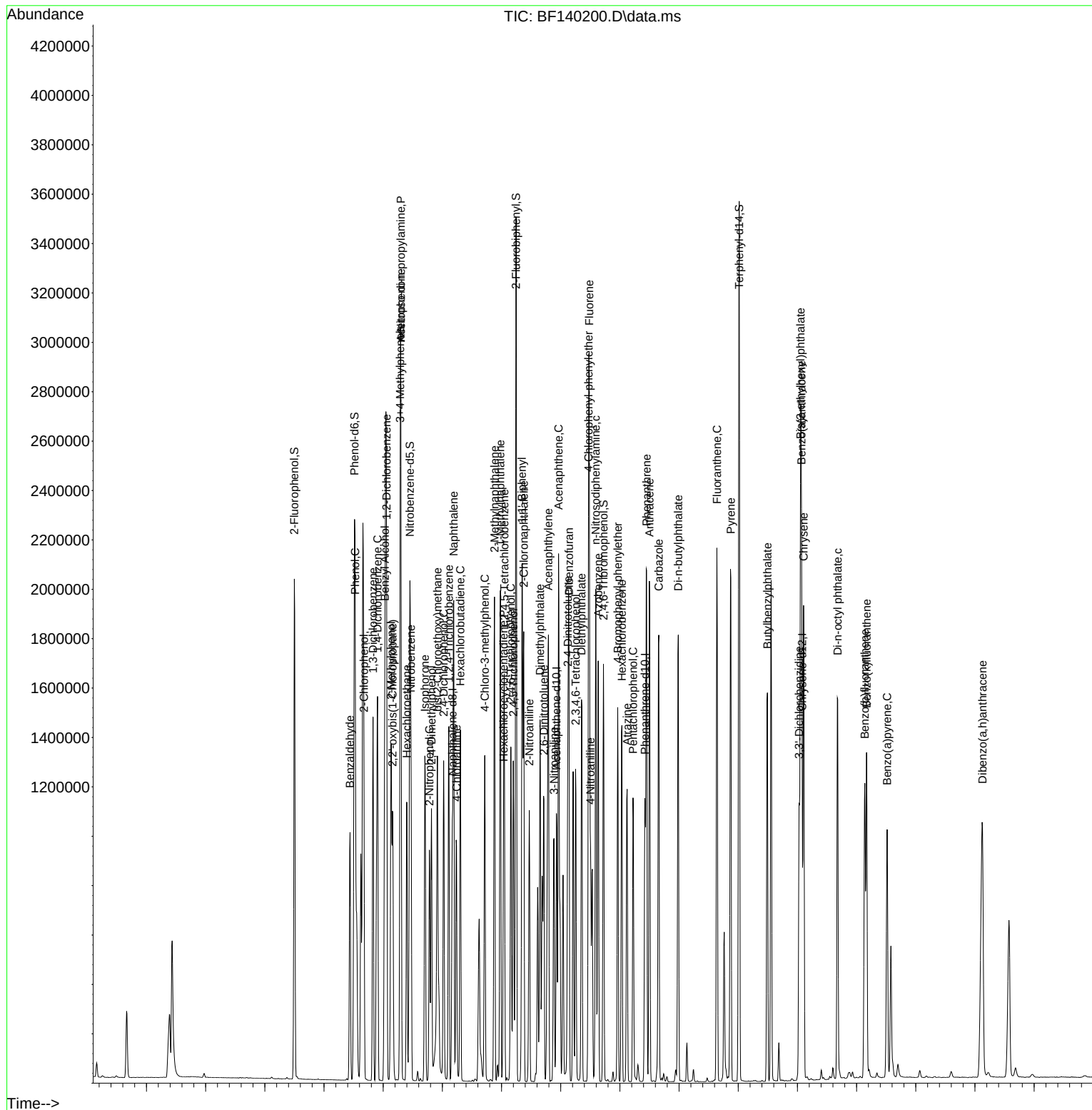
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140200.D
Acq On : 01 Nov 2024 09:22
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Quant Time: Nov 01 11:18:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 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	81	0.00
2	1,4-Dioxane	0.596	0.508	14.8	70	-0.02
3	Pyridine	1.476	1.253	15.1	68	-0.01
4	n-Nitrosodimethylamine	0.793	0.751	5.3	76	-0.01
5 S	2-Fluorophenol	1.278	1.244	2.7	79	0.00
6	Aniline	1.542	1.402	9.1	72	0.00
7 S	Phenol-d6	1.655	1.646	0.5	81	0.00
8	2-Chlorophenol	1.306	1.308	-0.2	81	0.00
9	Benzaldehyde	0.931	0.962	-3.3	83	0.00
10 C	Phenol	1.706	1.707	-0.1	81	0.00
11	bis(2-Chloroethyl)ether	1.319	1.336	-1.3	84	0.00
12	1,3-Dichlorobenzene	1.499	1.512	-0.9	82	0.00
13 C	1,4-Dichlorobenzene	1.498	1.520	-1.5	83	0.00
14	1,2-Dichlorobenzene	1.398	1.413	-1.1	83	0.00
15	Benzyl Alcohol	1.214	1.262	-4.0	85	0.00
16	2,2'-oxybis(1-Chloropropane	2.248	2.316	-3.0	84	-0.01
17	2-Methylphenol	1.114	1.140	-2.3	83	0.00
18	Hexachloroethane	0.534	0.561	-5.1	84	0.00
19 P	n-Nitroso-di-n-propylamine	1.004	0.996	0.8	83	0.00
20	3+4-Methylphenols	1.424	1.392	2.2	80	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	84	0.00
22	Acetophenone	0.490	0.483	1.4	84	0.00
23 S	Nitrobenzene-d5	0.361	0.401	-11.1	91	0.00
24	Nitrobenzene	0.396	0.419	-5.8	87	0.00
25	Isophorone	0.685	0.699	-2.0	86	0.00
26 C	2-Nitrophenol	0.149	0.184	-23.5#	98	0.00
27	2,4-Dimethylphenol	0.249	0.239	4.0	81	0.00
28	bis(2-Chloroethoxy)methane	0.415	0.418	-0.7	85	0.00
29 C	2,4-Dichlorophenol	0.283	0.288	-1.8	85	0.00
30	1,2,4-Trichlorobenzene	0.314	0.319	-1.6	85	0.00
31	Naphthalene	1.031	1.035	-0.4	85	0.00
32	Benzoic acid	0.217	0.238	-9.7	91	0.02
33	4-Chloroaniline	0.352	0.334	5.1	80	0.00
34 C	Hexachlorobutadiene	0.197	0.205	-4.1	87	-0.01
35	Caprolactam	0.090	0.100	-11.1	91	0.01
36 C	4-Chloro-3-methylphenol	0.314	0.326	-3.8	87	0.00
37	2-Methylnaphthalene	0.632	0.643	-1.7	87	0.00
38	1-Methylnaphthalene	0.620	0.629	-1.5	86	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	87	0.00
40	1,2,4,5-Tetrachlorobenzene	0.540	0.549	-1.7	89	0.00
41 P	Hexachlorocyclopentadiene	0.188	0.186	1.1	82	0.00
42 S	2,4,6-Tribromophenol	0.187	0.211	-12.8	98	0.00
43 C	2,4,6-Trichlorophenol	0.382	0.399	-4.5	90	0.00
44	2,4,5-Trichlorophenol	0.394	0.403	-2.3	88	0.00
45 S	2-Fluorobiphenyl	1.210	1.197	1.1	90	0.00
46	1,1'-Biphenyl	1.392	1.370	1.6	87	0.00
47	2-Chloronaphthalene	1.121	1.119	0.2	88	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
 Data File : BF140200.D
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 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 01 11:18:01 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 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	0.343	0.409	-19.2	98	0.00
49	Acenaphthylene	1.621	1.616	0.3	87	0.00
50	Dimethylphthalate	1.246	1.300	-4.3	92	0.00
51	2,6-Dinitrotoluene	0.270	0.305	-13.0	95	0.00
52 C	Acenaphthene	1.049	1.094	-4.3	92	0.00
53	3-Nitroaniline	0.278	0.318	-14.4	95	0.01
54 P	2,4-Dinitrophenol	0.093	0.177	-90.3#	153#	0.01
55	Dibenzofuran	1.505	1.497	0.5	88	0.00
56 P	4-Nitrophenol	0.214	0.257	-20.1	97	0.02
57	2,4-Dinitrotoluene	0.332	0.409	-23.2	100	0.01
58	Fluorene	1.146	1.175	-2.5	92	0.00
59	2,3,4,6-Tetrachlorophenol	0.309	0.324	-4.9	91	0.00
60	Diethylphthalate	1.223	1.283	-4.9	92	0.00
61	4-Chlorophenyl-phenylether	0.579	0.592	-2.2	91	0.00
62	4-Nitroaniline	0.263	0.334	-27.0#	106	0.02
63	Azobenzene	1.297	1.335	-2.9	89	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	91	0.00
65	4,6-Dinitro-2-methylphenol	0.082	0.129	-57.3#	135	0.02
66 c	n-Nitrosodiphenylamine	0.599	0.588	1.8	90	0.00
67	4-Bromophenyl-phenylether	0.206	0.207	-0.5	94	0.00
68	Hexachlorobenzene	0.232	0.231	0.4	92	0.01
69	Atrazine	0.162	0.166	-2.5	87	0.01
70 C	Pentachlorophenol	0.141	0.159	-12.8	96	0.01
71	Phenanthrene	0.945	0.934	1.2	92	0.01
72	Anthracene	0.922	0.926	-0.4	93	0.00
73	Carbazole	0.857	0.877	-2.3	95	0.02
74	Di-n-butylphthalate	0.990	1.074	-8.5	97	0.01
75 C	Fluoranthene	0.955	1.027	-7.5	100	0.01
76 I	Chrysene-d12	1.000	1.000	0.0	112	0.03
77	Benzidine	0.329	0.433	-31.6#	133	0.02
78	Pyrene	1.751	1.637	6.5	102	0.02
79 S	Terphenyl-d14	1.227	1.172	4.5	106	0.02
80	Butylbenzylphthalate	0.525	0.656	-25.0	133	0.02
81	Benzo(a)anthracene	1.302	1.323	-1.6	112	0.03
82	3,3'-Dichlorobenzidine	0.380	0.424	-11.6	123	0.02
83	Chrysene	1.194	1.237	-3.6	119	0.02
84	Bis(2-ethylhexyl)phthalate	0.589	0.869	-47.5#	156#	0.02
85 c	Di-n-octyl phthalate	1.071	1.344	-25.5#	133	0.03
86 I	Perylene-d12	1.000	1.000	0.0	84	0.05
87	Indeno(1,2,3-cd)pyrene	1.287	1.255	2.5	78	0.09
88	Benzo(b)fluoranthene	1.218	1.286	-5.6	91	0.04
89	Benzo(k)fluoranthene	1.051	1.245	-18.5	99	0.04
90 C	Benzo(a)pyrene	1.002	1.068	-6.6	88	0.05
91	Dibenzo(a,h)anthracene	1.073	1.035	3.5	78	0.08
92	Benzo(g,h,i)perylene	1.072	1.055	1.6	79	0.09

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Quant Time: Nov 01 11:18:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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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 = 2

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
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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	81	0.00
2	1,4-Dioxane	40.000	34.088	14.8	70	-0.02
3	Pyridine	40.000	33.949	15.1	68	-0.01
4	n-Nitrosodimethylamine	40.000	37.852	5.4	76	-0.01
5 S	2-Fluorophenol	80.000	77.930	2.6	79	0.00
6	Aniline	40.000	36.372	9.1	72	0.00
7 S	Phenol-d6	80.000	79.584	0.5	81	0.00
8	2-Chlorophenol	40.000	40.063	-0.2	81	0.00
9	Benzaldehyde	40.000	41.340	-3.4	83	0.00
10 C	Phenol	40.000	40.030	-0.1	81	0.00
11	bis(2-Chloroethyl)ether	40.000	40.536	-1.3	84	0.00
12	1,3-Dichlorobenzene	40.000	40.345	-0.9	82	0.00
13 C	1,4-Dichlorobenzene	40.000	40.603	-1.5	83	0.00
14	1,2-Dichlorobenzene	40.000	40.436	-1.1	83	0.00
15	Benzyl Alcohol	40.000	41.589	-4.0	85	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	41.198	-3.0	84	-0.01
17	2-Methylphenol	40.000	40.952	-2.4	83	0.00
18	Hexachloroethane	40.000	42.021	-5.1	84	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	39.692	0.8	83	0.00
20	3+4-Methylphenols	40.000	39.101	2.2	80	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	84	0.00
22	Acetophenone	40.000	39.439	1.4	84	0.00
23 S	Nitrobenzene-d5	80.000	88.850	-11.1	91	0.00
24	Nitrobenzene	40.000	42.352	-5.9	87	0.00
25	Isophorone	40.000	40.825	-2.1	86	0.00
26 C	2-Nitrophenol	40.000	49.419	-23.5#	98	0.00
27	2,4-Dimethylphenol	40.000	38.460	3.8	81	0.00
28	bis(2-Chloroethoxy)methane	40.000	40.266	-0.7	85	0.00
29 C	2,4-Dichlorophenol	40.000	40.576	-1.4	85	0.00
30	1,2,4-Trichlorobenzene	40.000	40.679	-1.7	85	0.00
31	Naphthalene	40.000	40.130	-0.3	85	0.00
32	Benzoic acid	40.000	43.860	-9.6	91	0.02
33	4-Chloroaniline	40.000	37.969	5.1	80	0.00
34 C	Hexachlorobutadiene	40.000	41.545	-3.9	87	-0.01
35	Caprolactam	40.000	44.380	-11.0	91	0.01
36 C	4-Chloro-3-methylphenol	40.000	41.505	-3.8	87	0.00
37	2-Methylnaphthalene	40.000	40.686	-1.7	87	0.00
38	1-Methylnaphthalene	40.000	40.574	-1.4	86	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	87	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	40.694	-1.7	89	0.00
41 P	Hexachlorocyclopentadiene	40.000	39.682	0.8	82	0.00
42 S	2,4,6-Tribromophenol	80.000	90.174	-12.7	98	0.00
43 C	2,4,6-Trichlorophenol	40.000	41.747	-4.4	90	0.00
44	2,4,5-Trichlorophenol	40.000	40.856	-2.1	88	0.00
45 S	2-Fluorobiphenyl	80.000	79.101	1.1	90	0.00
46	1,1'-Biphenyl	40.000	39.363	1.6	87	0.00
47	2-Chloronaphthalene	40.000	39.920	0.2	88	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
 Data File : BF140200.D
 Acq On : 01 Nov 2024 09:22
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 01 11:18:01 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 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	47.689	-19.2	98	0.00
49	Acenaphthylene	40.000	39.864	0.3	87	0.00
50	Dimethylphthalate	40.000	41.751	-4.4	92	0.00
51	2,6-Dinitrotoluene	40.000	45.289	-13.2	95	0.00
52 C	Acenaphthene	40.000	41.724	-4.3	92	0.00
53	3-Nitroaniline	40.000	45.745	-14.4	95	0.01
54 P	2,4-Dinitrophenol	40.000	64.567	-61.4#	153	0.01
55	Dibenzofuran	40.000	39.793	0.5	88	0.00
56 P	4-Nitrophenol	40.000	48.031	-20.1	97	0.02
57	2,4-Dinitrotoluene	40.000	49.306	-23.3	100	0.01
58	Fluorene	40.000	41.025	-2.6	92	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	41.907	-4.8	91	0.00
60	Diethylphthalate	40.000	41.947	-4.9	92	0.00
61	4-Chlorophenyl-phenylether	40.000	40.895	-2.2	91	0.00
62	4-Nitroaniline	40.000	50.930	-27.3#	106	0.02
63	Azobenzene	40.000	41.175	-2.9	89	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	91	0.00
65	4,6-Dinitro-2-methylphenol	40.000	63.309	-58.3#	135	0.02
66 c	n-Nitrosodiphenylamine	40.000	39.269	1.8	90	0.00
67	4-Bromophenyl-phenylether	40.000	40.248	-0.6	94	0.00
68	Hexachlorobenzene	40.000	39.957	0.1	92	0.01
69	Atrazine	40.000	40.978	-2.4	87	0.01
70 C	Pentachlorophenol	40.000	45.176	-12.9	96	0.01
71	Phenanthrene	40.000	39.549	1.1	92	0.01
72	Anthracene	40.000	40.190	-0.5	93	0.00
73	Carbazole	40.000	40.910	-2.3	95	0.02
74	Di-n-butylphthalate	40.000	43.361	-8.4	97	0.01
75 C	Fluoranthene	40.000	43.031	-7.6	100	0.01
76 I	Chrysene-d12	20.000	20.000	0.0	112	0.03
77	Benzidine	40.000	52.666	-31.7#	133	0.02
78	Pyrene	40.000	37.396	6.5	102	0.02
79 S	Terphenyl-d14	80.000	76.411	4.5	106	0.02
80	Butylbenzylphthalate	40.000	50.020	-25.1#	133	0.02
81	Benzo(a)anthracene	40.000	40.647	-1.6	112	0.03
82	3,3'-Dichlorobenzidine	40.000	44.630	-11.6	123	0.02
83	Chrysene	40.000	41.456	-3.6	119	0.02
84	Bis(2-ethylhexyl)phthalate	40.000	59.036	-47.6#	156	0.02
85 c	Di-n-octyl phthalate	40.000	50.210	-25.5#	133	0.03
86 I	Perylene-d12	20.000	20.000	0.0	84	0.05
87	Indeno(1,2,3-cd)pyrene	40.000	39.011	2.5	78	0.09
88	Benzo(b)fluoranthene	40.000	42.232	-5.6	91	0.04
89	Benzo(k)fluoranthene	40.000	47.408	-18.5	99	0.04
90 C	Benzo(a)pyrene	40.000	42.610	-6.5	88	0.05
91	Dibenzo(a,h)anthracene	40.000	38.573	3.6	78	0.08
92	Benzo(g,h,i)perylene	40.000	39.379	1.6	79	0.09

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140200.D
Acq On : 01 Nov 2024 09:22
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 01 11:18:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 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 = 2



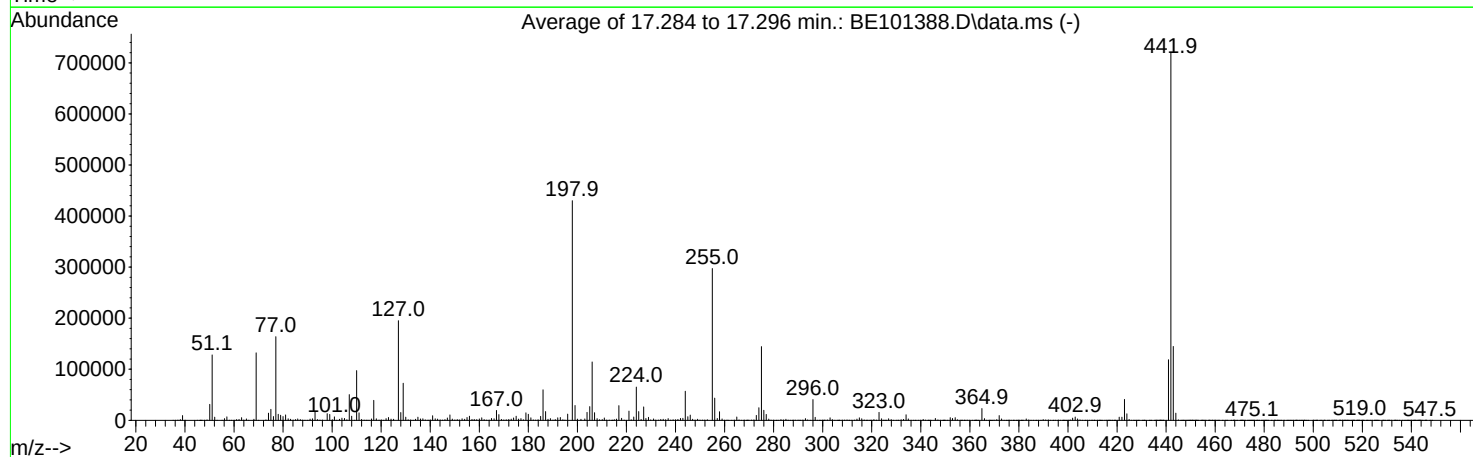
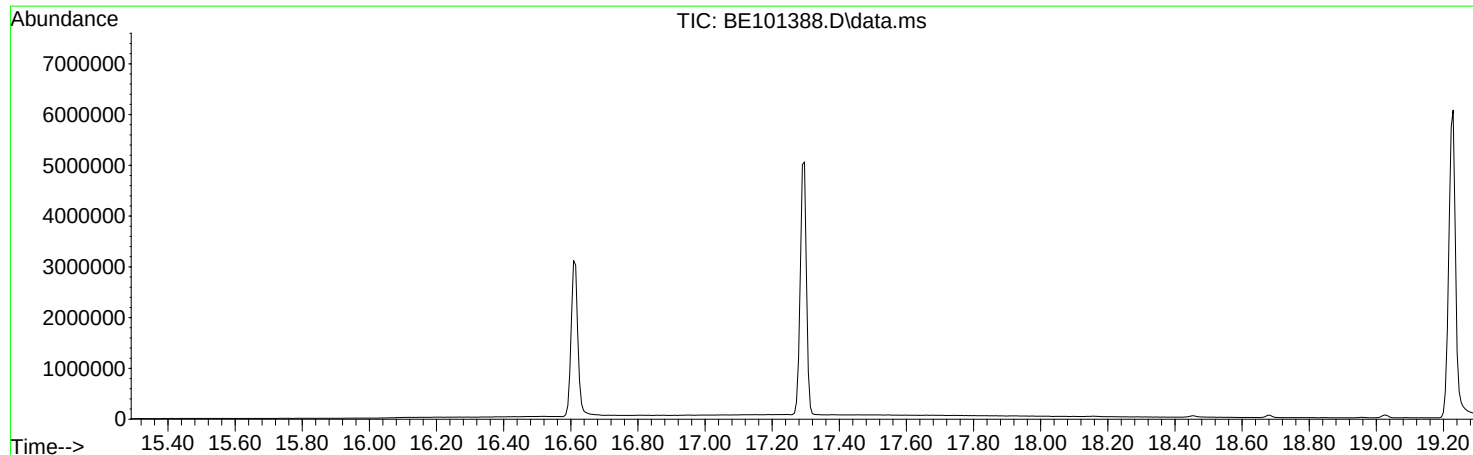
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101388.D
Acq On : 28 Oct 2024 10:51
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Oct 29 01:26:30 2024



AutoFind: Scans 2501, 2502, 2503; Background Corrected with Scan 2494

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	29.8	128023	PASS
68	69	0.00	2	1.5	1984	PASS
69	198	0.00	100	30.7	132146	PASS
70	69	0.00	2	0.1	198	PASS
127	198	10	80	45.4	195155	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	430187	PASS
199	198	5	9	6.7	28884	PASS
275	198	10	60	33.5	144206	PASS
365	198	1	100	5.4	23020	PASS
441	198	0.01	100	27.6	118563	PASS
442	442	50	100	100.0	720425	PASS
443	442	15	24	20.1	144667	PASS

DDT Breakdown

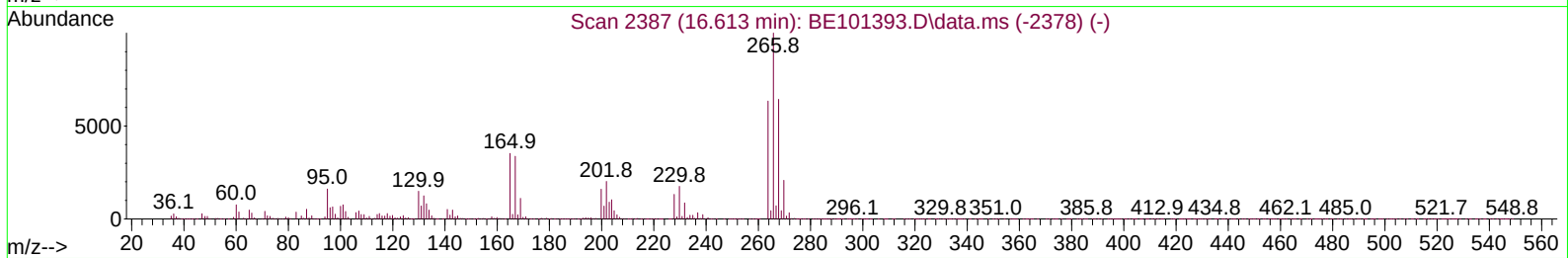
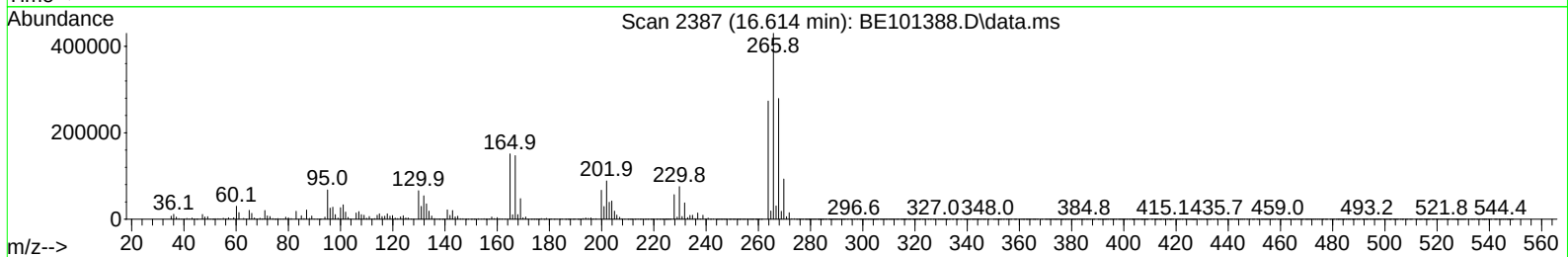
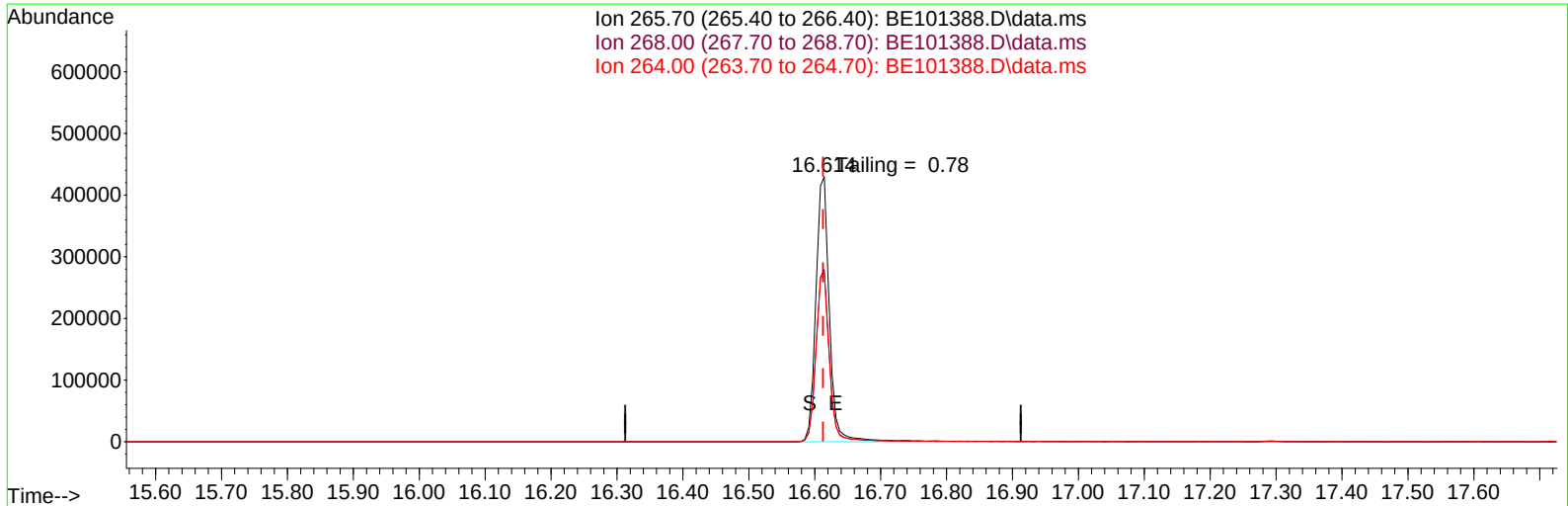
Date	Instrument Name	DFTPP Data File
10/28/2024	BNA_E	<u>BE101388.D</u>
Compound Name	Response	Retention Time
DDT	1836699	20.351
DDD	25787	19.916
DDE	1987	19.405
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
27774	1864473	1.49

Instrument :
BNA_E
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101388.D
Acq On : 28 Oct 2024 10:51
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
DFTPP

Quant Time: Oct 29 01:32:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration



TIC: BE101388.D\data.ms

(70) Pentachlorophenol (C)

16.614min (+ 0.002) 1241130.64 ng

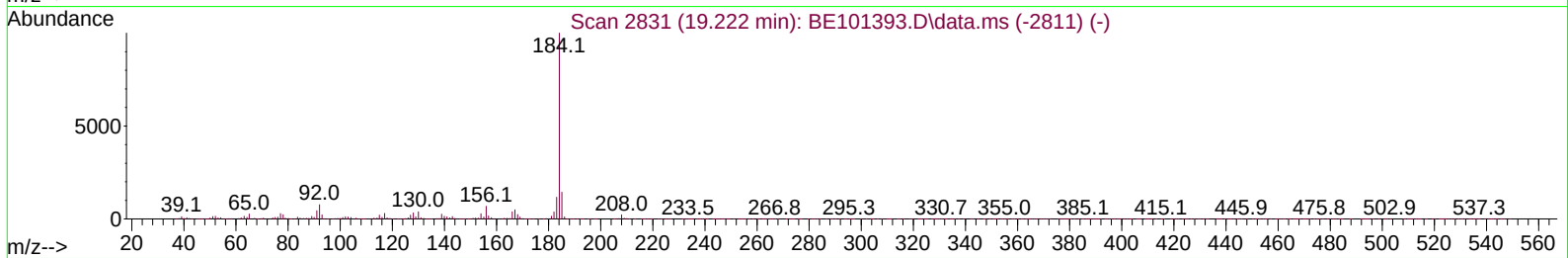
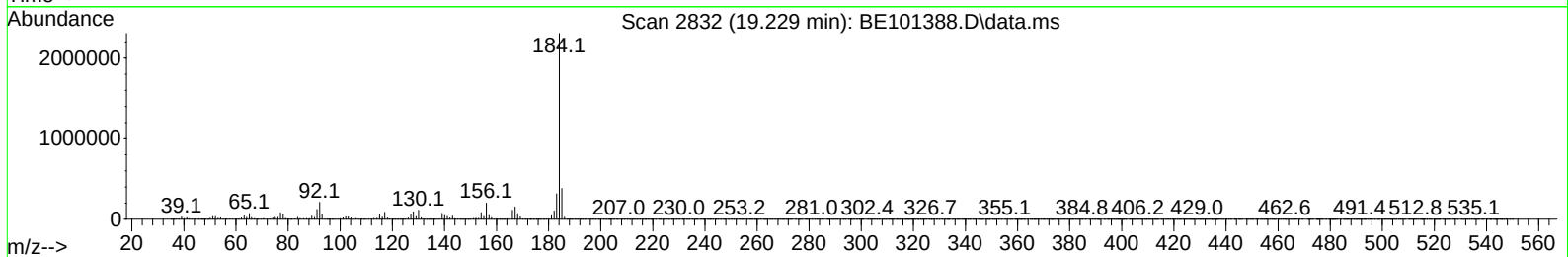
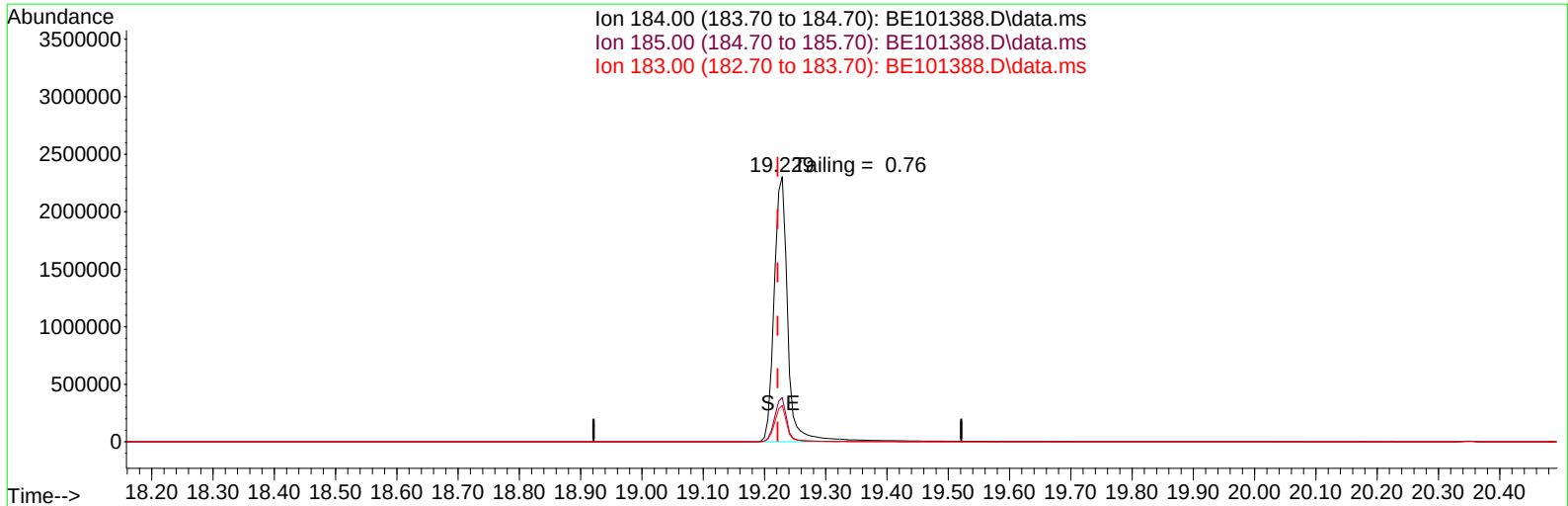
response 610726

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	64.40	64.96
264.00	63.40	63.56
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE102824\
Data File : BE101388.D
Acq On : 28 Oct 2024 10:51
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
DFTPP

Quant Time: Oct 29 01:32:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration



TIC: BE101388.D\data.ms

(77) Benzidine**19.229min (+ 0.008) 277076.80 ng****response 3629102**

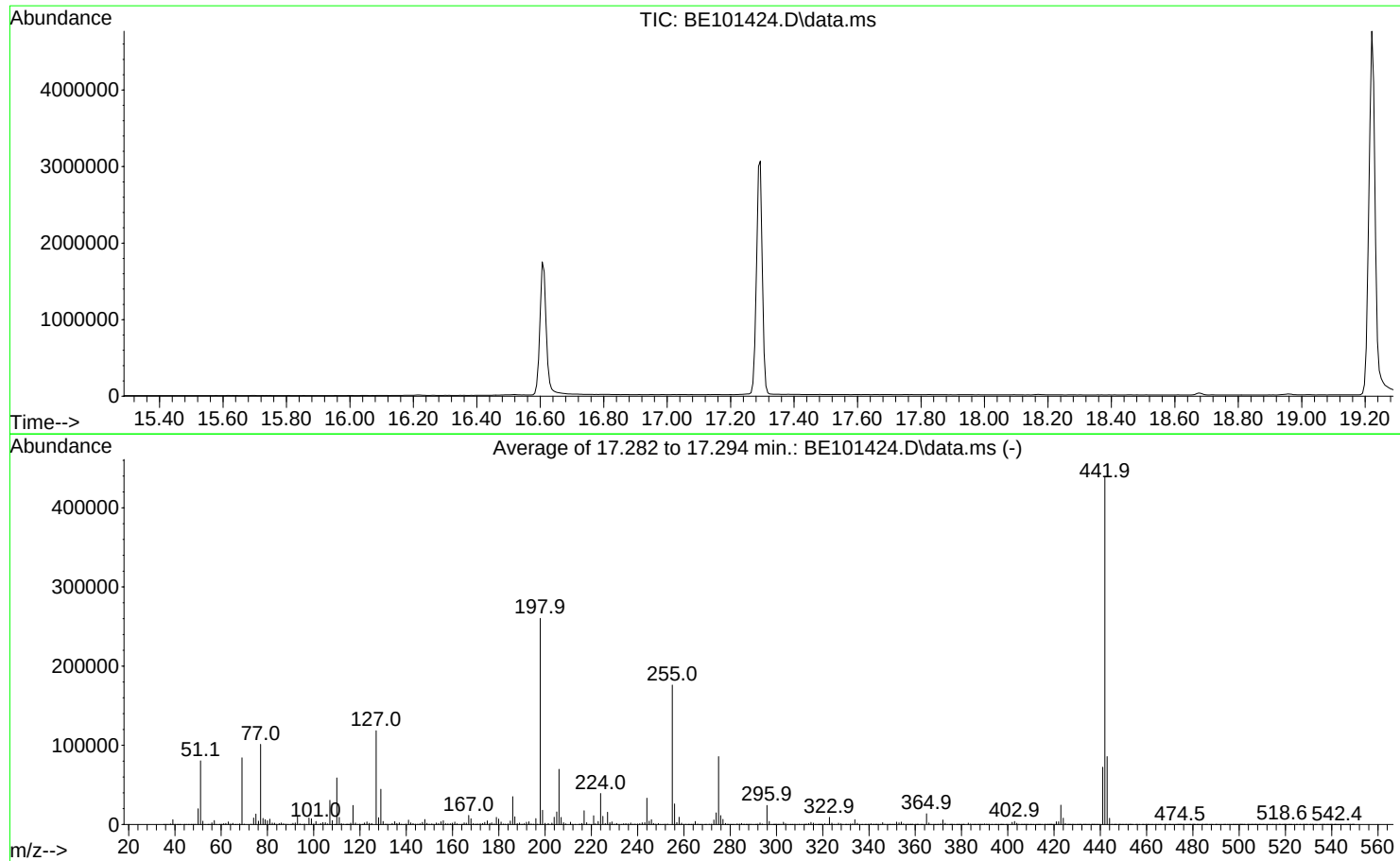
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.40	16.64
183.00	11.60	13.72
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101424.D
Acq On : 31 Oct 2024 9:40
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Oct 29 01:26:30 2024



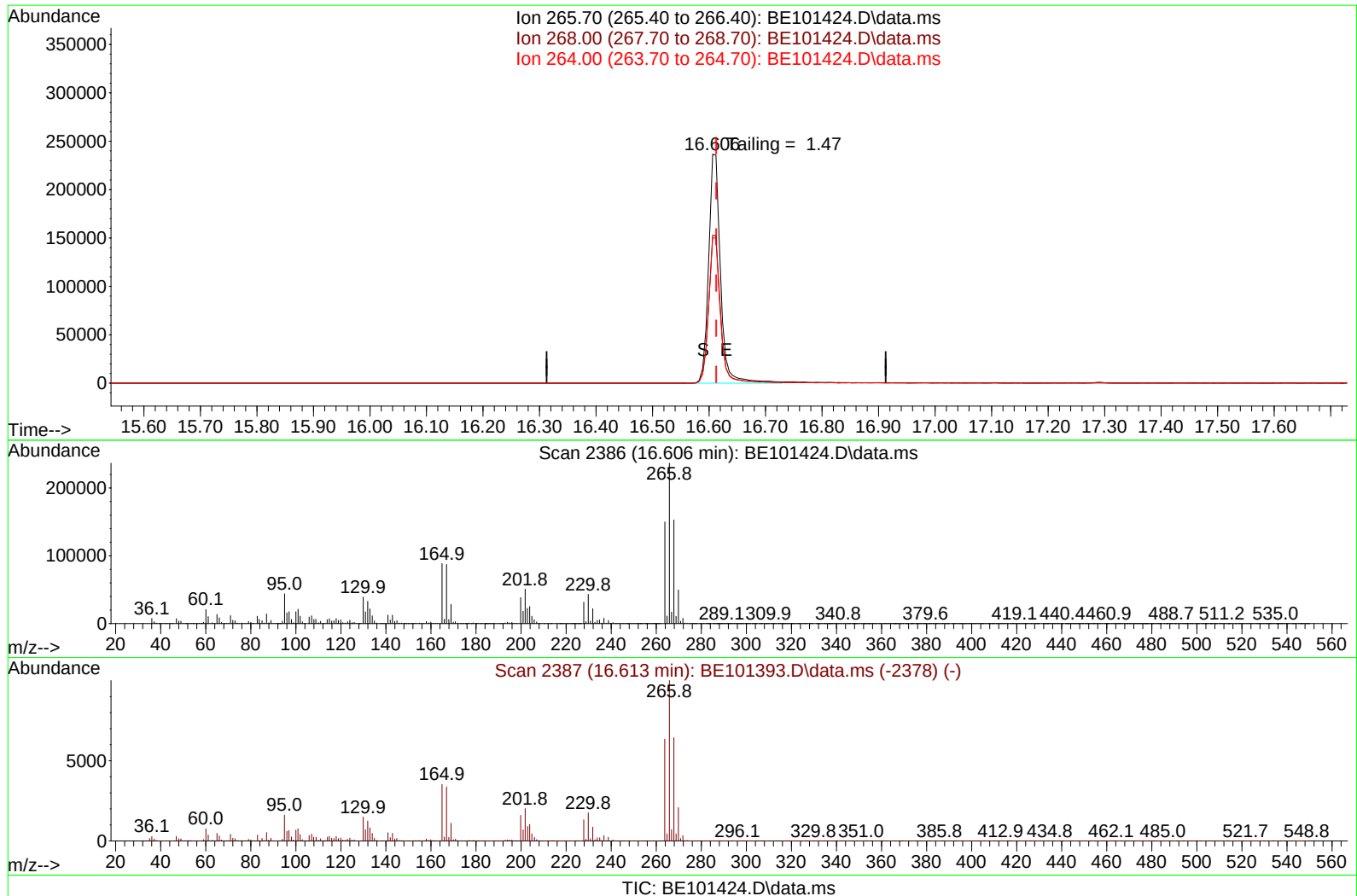
AutoFind: Scans 2501, 2502, 2503; Background Corrected with Scan 2492

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	30.9	80401	PASS
68	69	0.00	2	0.8	691	PASS
69	198	0.00	100	32.4	84267	PASS
70	69	0.00	2	0.5	389	PASS
127	198	10	80	45.5	118439	PASS
197	198	0.00	2	0.2	400	PASS
198	198	100	100	100.0	260309	PASS
199	198	5	9	6.9	17941	PASS
275	198	10	60	32.9	85684	PASS
365	198	1	100	5.2	13582	PASS
441	198	0.01	100	27.8	72413	PASS
442	442	50	100	100.0	439142	PASS
443	442	15	24	19.6	85860	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101424.D
Acq On : 31 Oct 2024 9:40
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
DFTPP

Quant Time: Oct 31 18:55:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration



TIC: BE101424.D\data.ms

(70) Pentachlorophenol (C)

16.606min (-0.007) 35129.78 ng

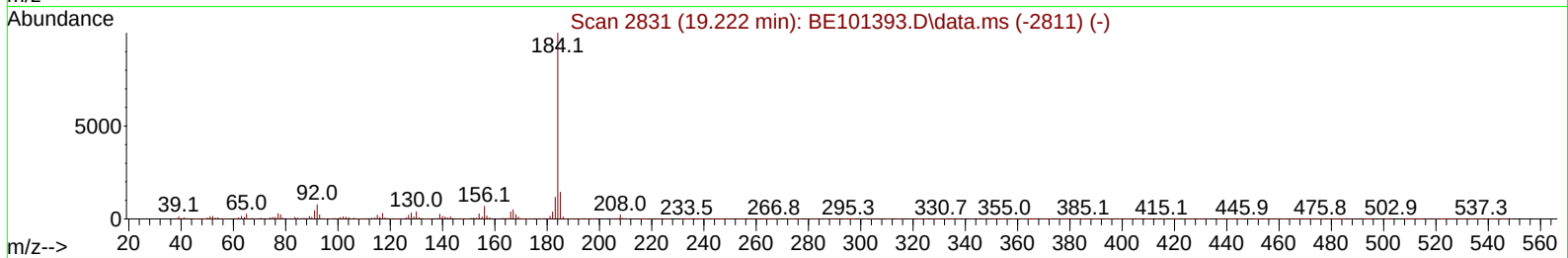
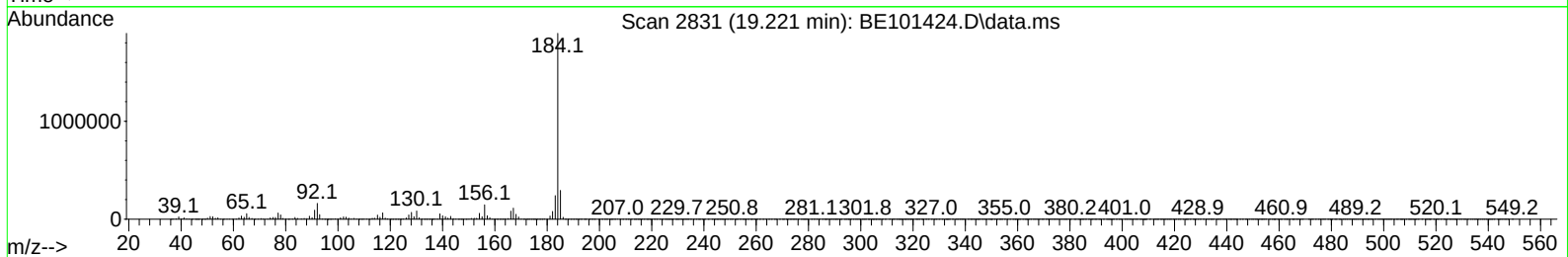
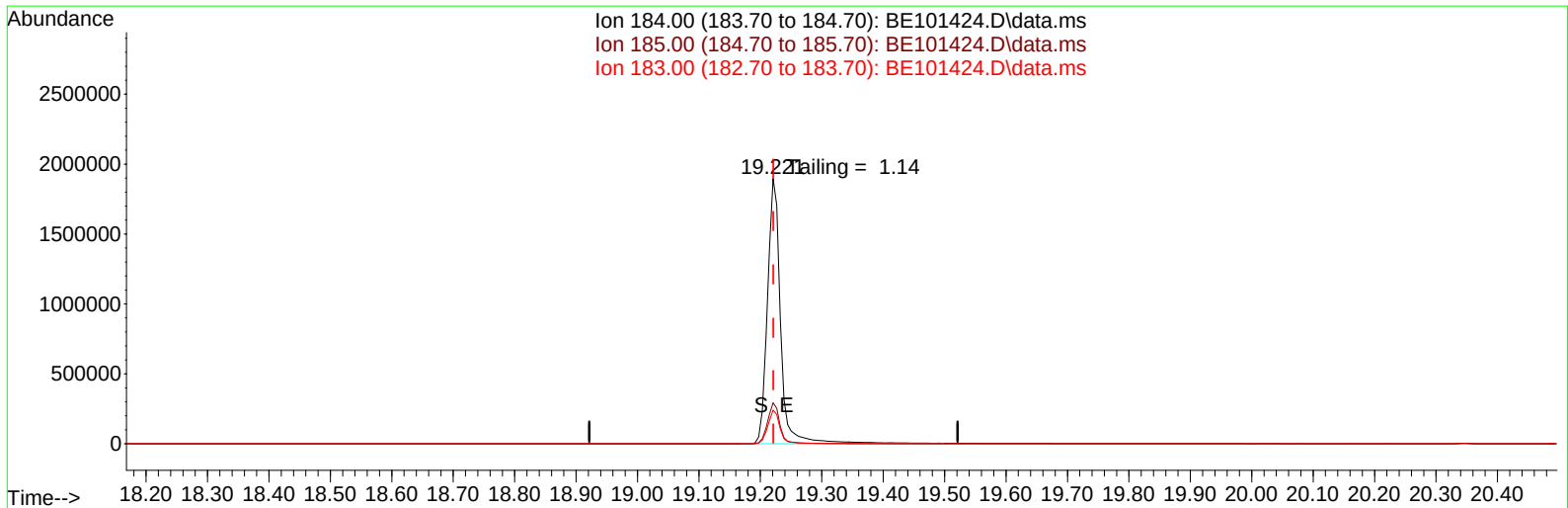
response 348516

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	64.40	64.63
264.00	63.40	63.44
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101424.D
Acq On : 31 Oct 2024 9:40
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
DFTPP

Quant Time: Oct 31 18:55:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration



TIC: BE101424.D\data.ms

(77) Benzidine**19.221min (-0.001) 20555.57 ng****response 2867124**

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.40	15.47
183.00	11.60	12.69
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
10/31/2024	BNA_E	<u>BE101424.D</u>
Compound Name	Response	Retention Time
DDT	1107960	20.349
DDD	32485	19.914
DDE	1234	19.403
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
33719	1141679	2.95

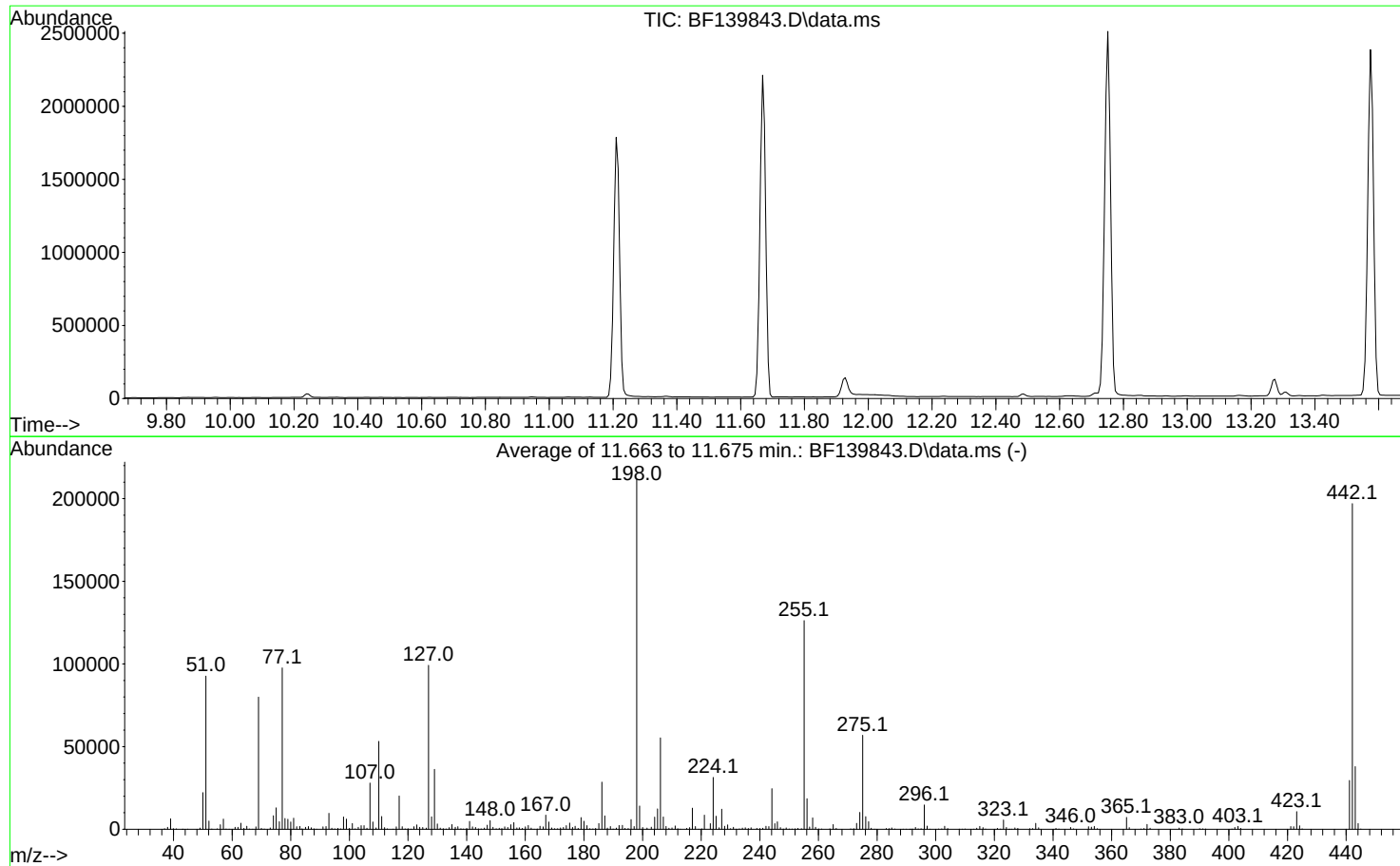
Instrument :
BNA_E
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139843.D
Acq On : 18 Oct 2024 09:22
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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024



AutoFind: Scans 1627, 1628, 1629; Background Corrected with Scan 1621

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	43.8	92701	PASS
68	69	0.00	2	1.9	1486	PASS
69	198	0.00	100	37.8	79959	PASS
70	69	0.00	2	0.7	529	PASS
127	198	10	80	46.9	99176	PASS
197	198	0.00	2	0.8	1650	PASS
198	198	100	100	100.0	211520	PASS
199	198	5	9	6.7	14078	PASS
275	198	10	60	26.9	56867	PASS
365	198	1	100	3.4	7148	PASS
441	198	0.01	100	14.0	29512	PASS
442	442	50	100	100.0	196979	PASS
443	442	15	24	19.2	37896	PASS

DDT Breakdown

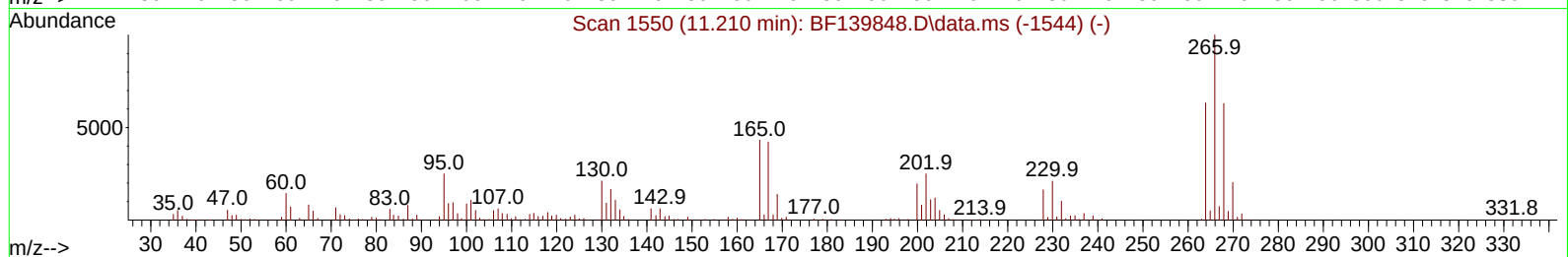
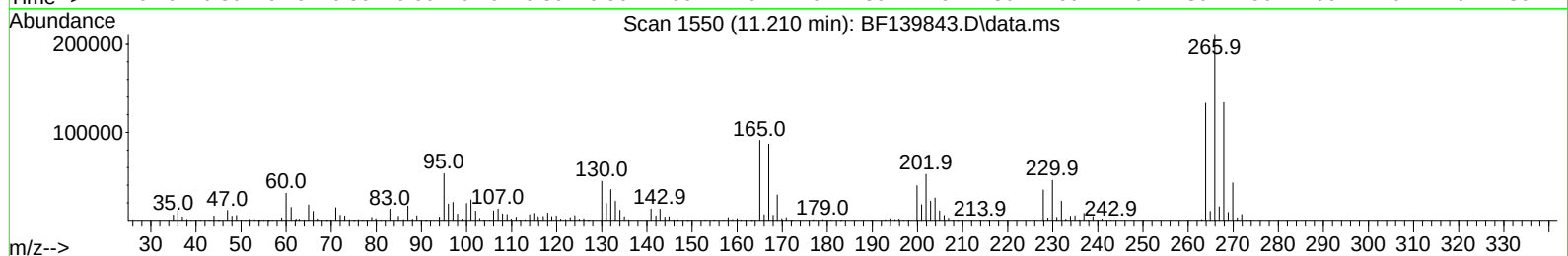
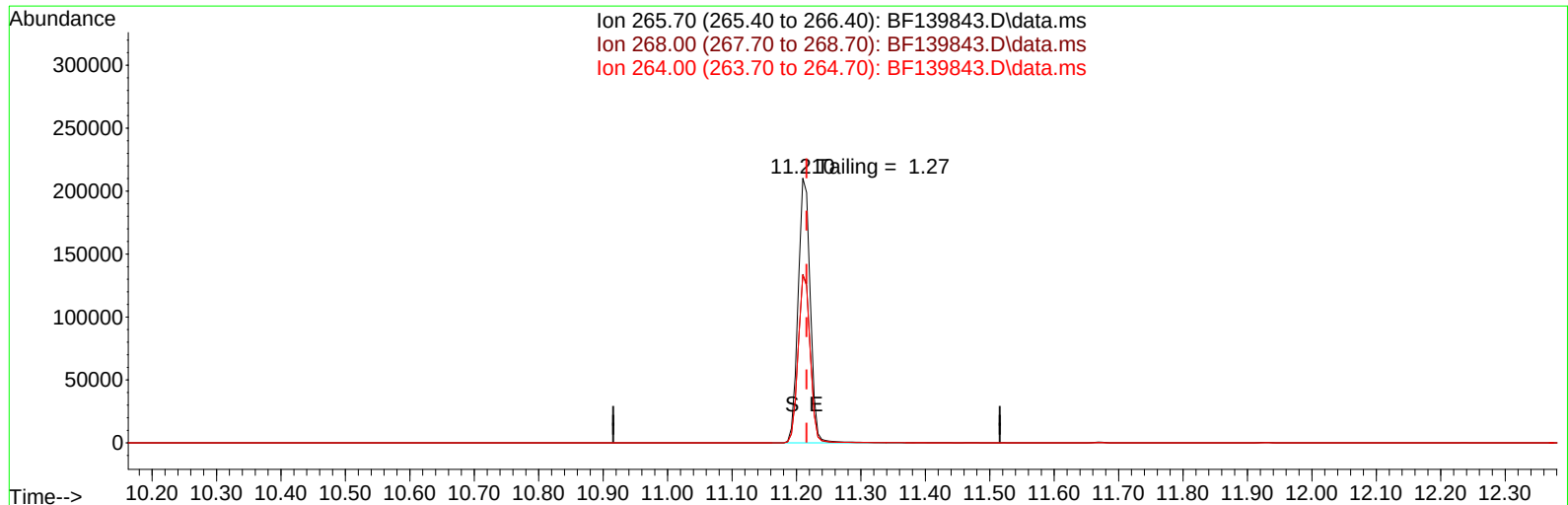
Date	Instrument Name	DFTPP Data File
10/18/2024	BNA_F	<u>BF139843.D</u>
Compound Name	Response	Retention Time
DDT	585942	13.574
DDD	33558	13.274
DDE	421	12.939
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
33979	619921	5.48

Instrument :
BNA_F
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139843.D
Acq On : 18 Oct 2024 09:22
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 18 11:03:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 11:03:04 2024
Response via : Initial Calibration



TIC: BF139843.D\data.ms

(70) Pentachlorophenol (C)

11.210min (-0.006) 60102.24 ng

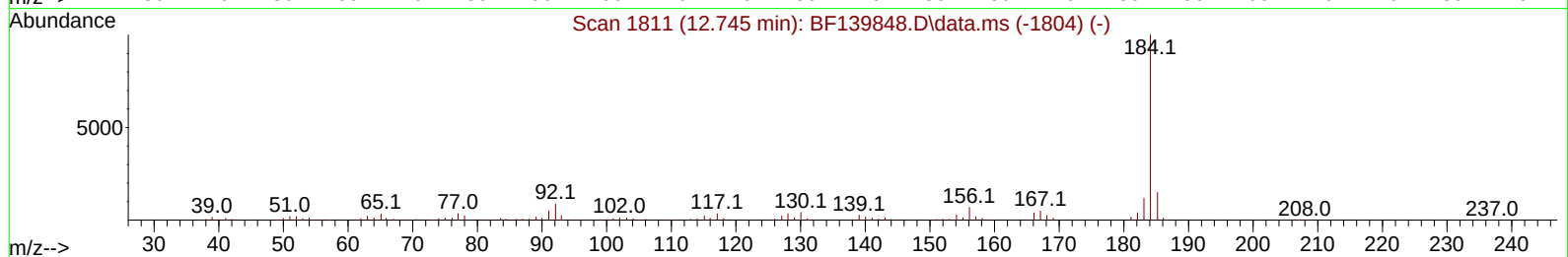
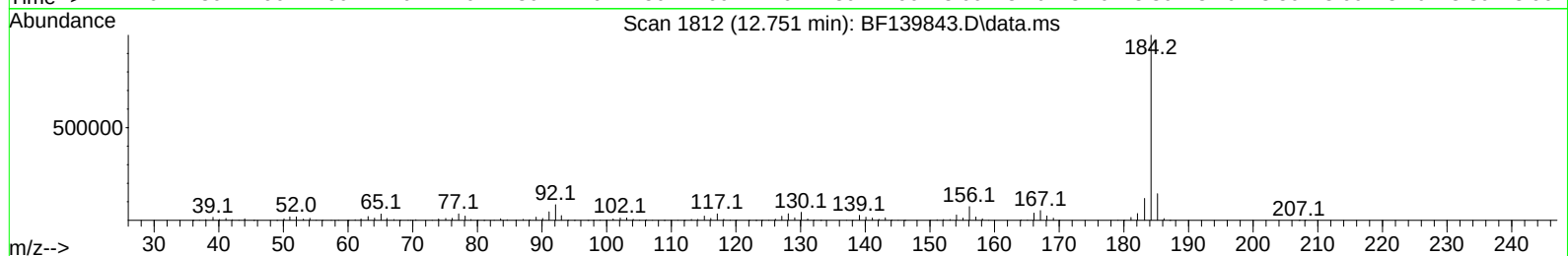
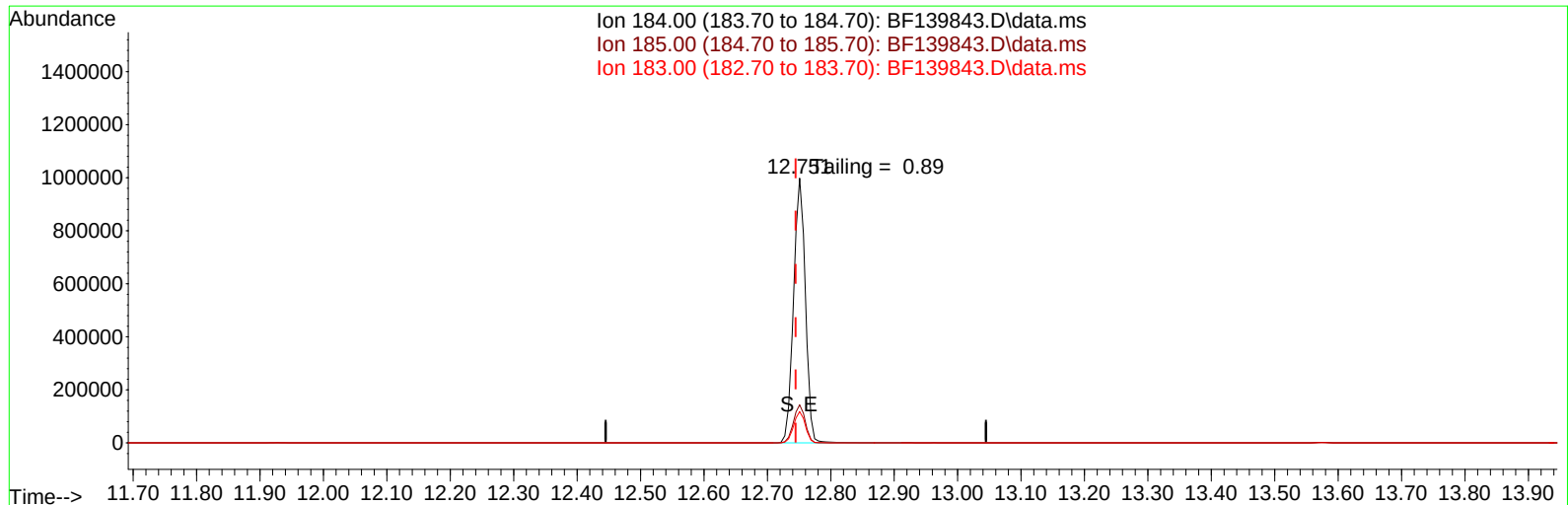
response 277191

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.00	63.60
264.00	62.50	63.30
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101824\
Data File : BF139843.D
Acq On : 18 Oct 2024 09:22
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 18 11:03:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 11:03:04 2024
Response via : Initial Calibration



TIC: BF139843.D\data.ms

(77) Benzidine

12.751min (+ 0.006) 86231.01 ng

response 1303015

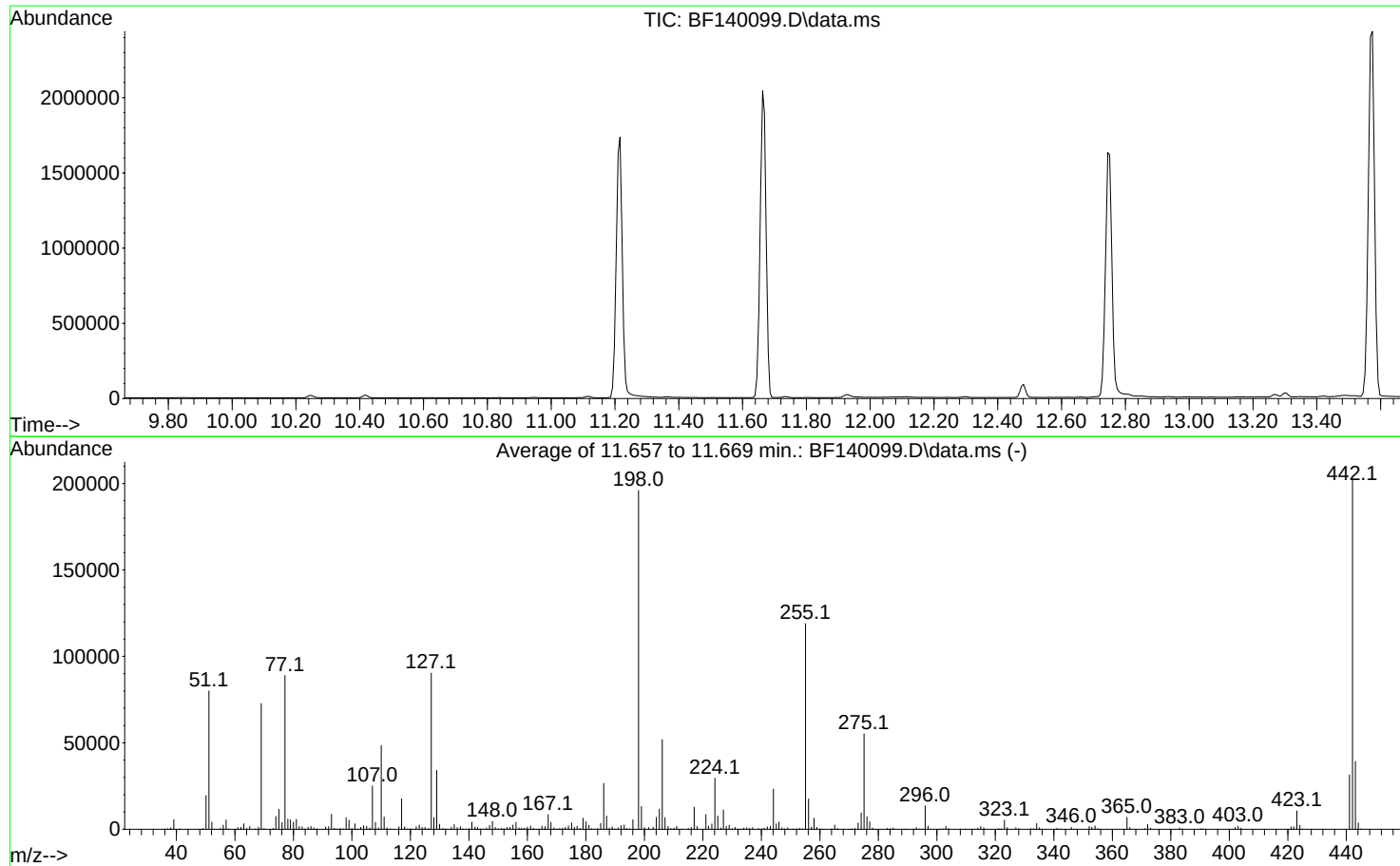
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.40	14.39
183.00	11.70	11.82
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140099.D
Acq On : 29 Oct 2024 09:09
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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024



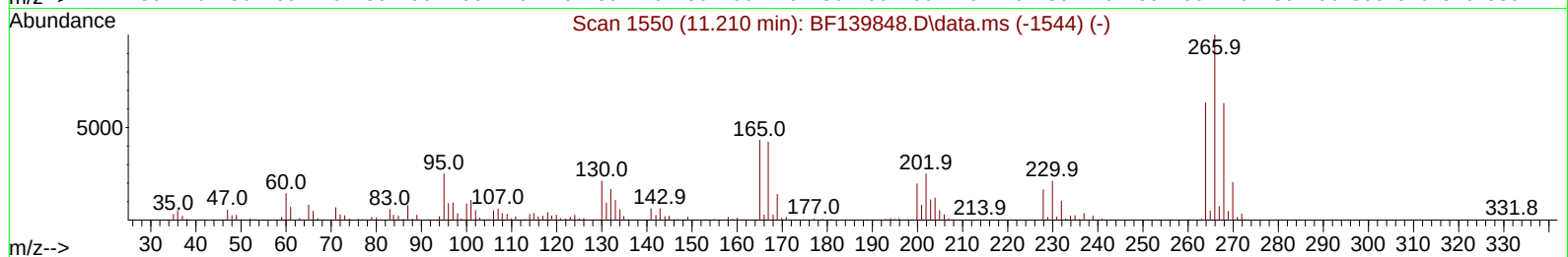
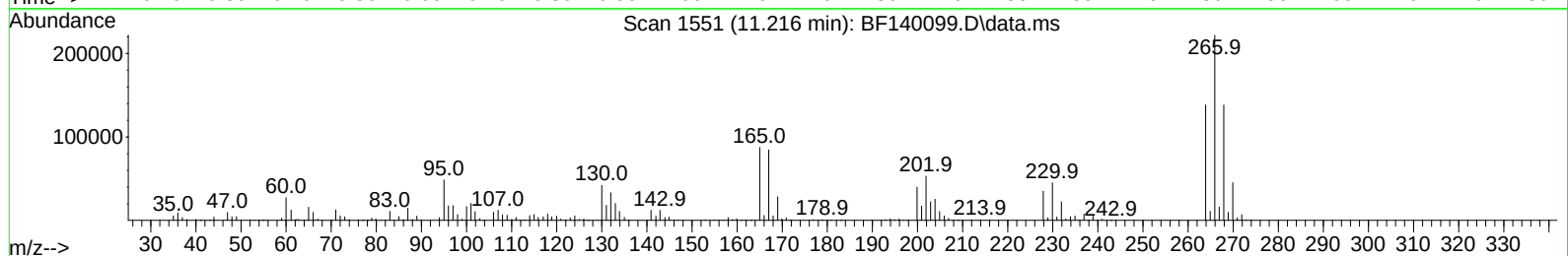
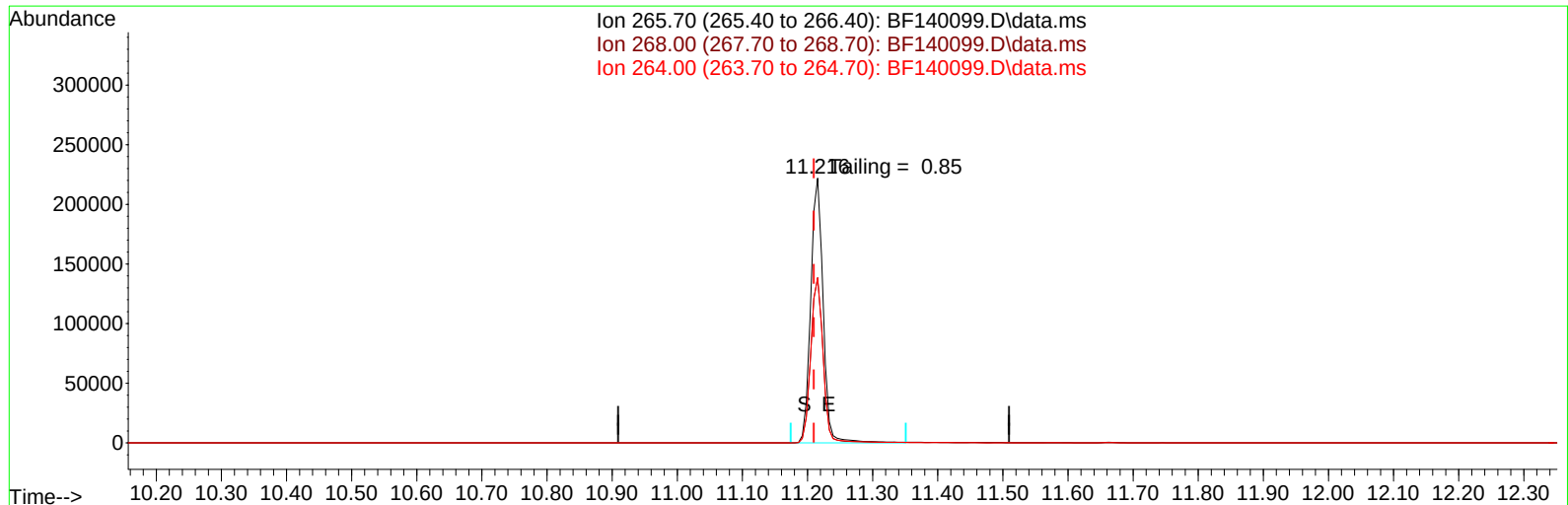
AutoFind: Scans 1626, 1627, 1628; Background Corrected with Scan 1620

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.8	80040	PASS
68	69	0.00	2	1.7	1255	PASS
69	198	0.00	100	37.1	72723	PASS
70	69	0.00	2	0.6	405	PASS
127	198	10	80	46.1	90352	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	196011	PASS
199	198	5	9	6.7	13220	PASS
275	198	10	60	28.2	55243	PASS
365	198	1	100	3.5	6943	PASS
441	198	0.01	100	16.0	31424	PASS
442	442	50	100	100.0	202248	PASS
443	442	15	24	19.4	39285	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140099.D
Acq On : 29 Oct 2024 09:09
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 29 11:41:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



TIC: BF140099.D\data.ms

(70) Pentachlorophenol (C)

11.216min (+ 0.006) 154699.04 ng

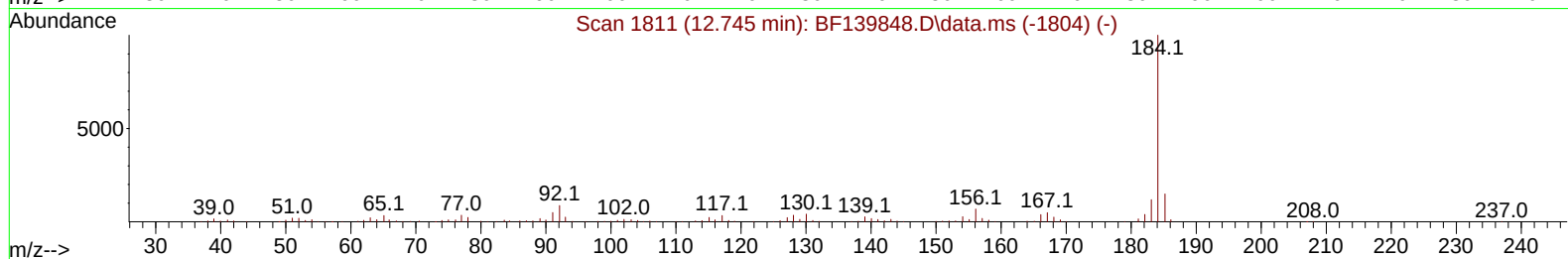
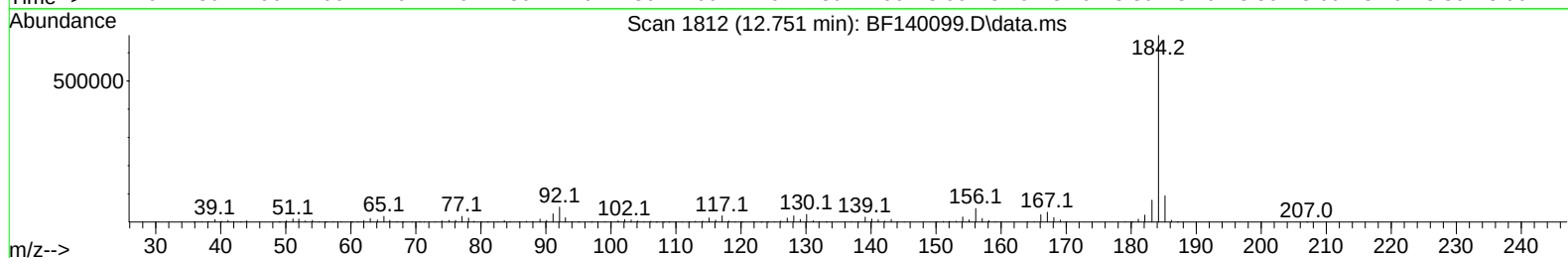
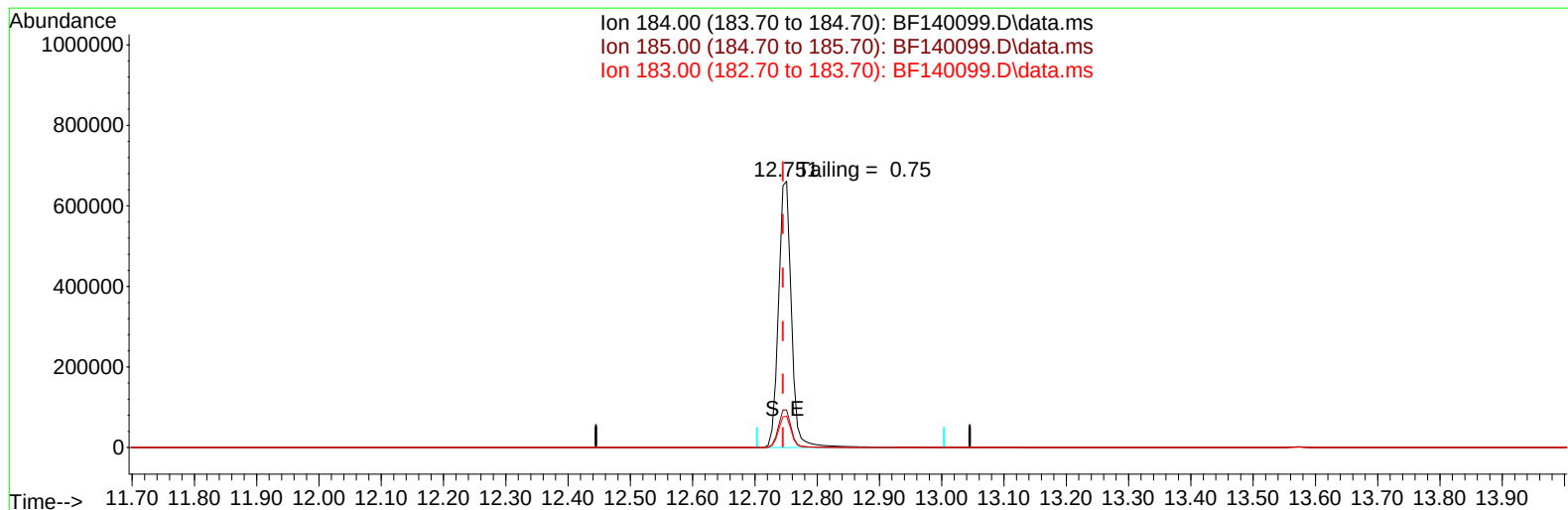
response 294794

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.00	62.34
264.00	63.20	62.34
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140099.D
Acq On : 29 Oct 2024 09:09
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 29 11:41:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



TIC: BF140099.D\data.ms

(77) Benzidine

12.751min (+ 0.006) 163338.70 ng

response 958846

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.00	14.10
183.00	11.80	11.74
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
10/29/2024	BNA_F	<u>BF140099.D</u>
Compound Name	Response	Retention Time
DDT	662990	13.574
DDD	10774	13.304
DDE	1143	12.933
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
11917	674907	1.77

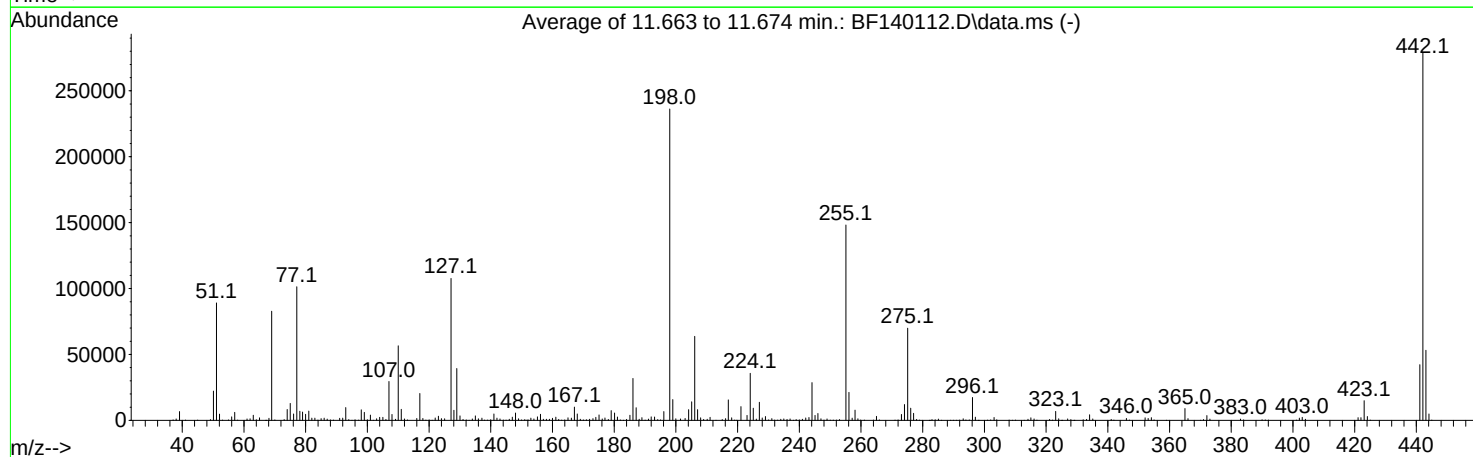
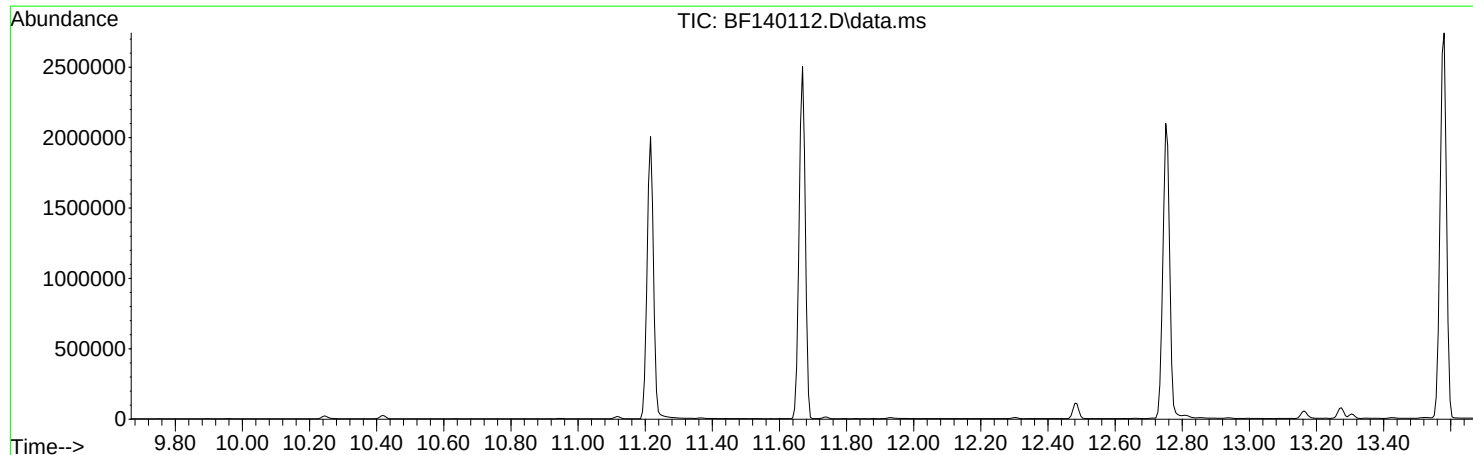
Instrument :
BNA_F
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140112.D
Acq On : 29 Oct 2024 15:35
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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024



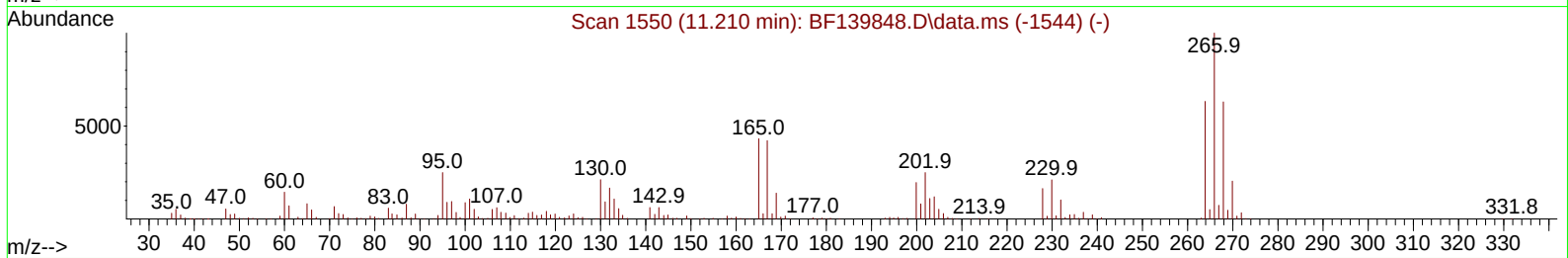
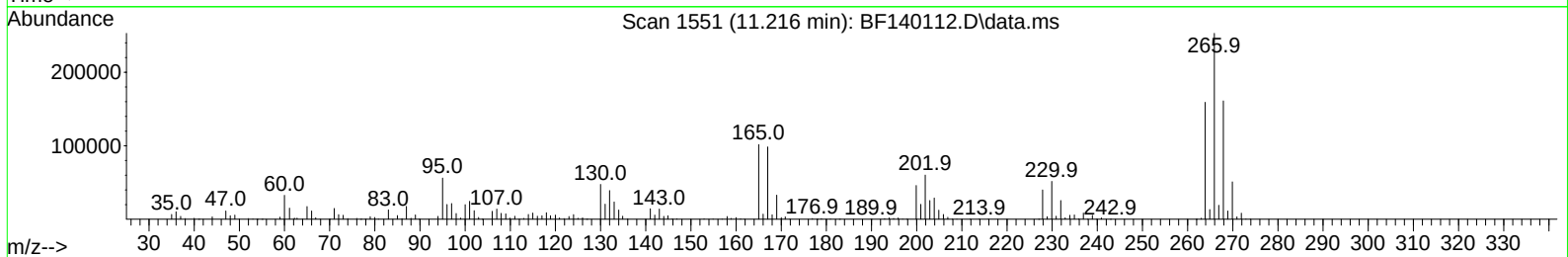
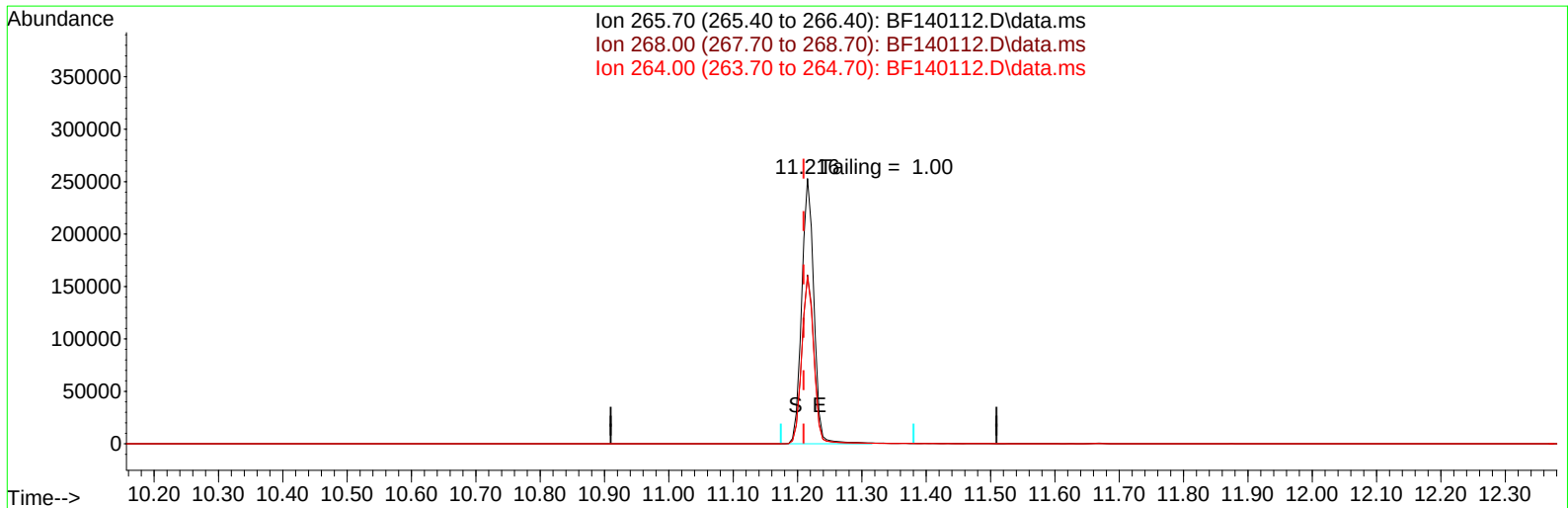
AutoFind: Scans 1627, 1628, 1629; Background Corrected with Scan 1620

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.7	89133	PASS
68	69	0.00	2	1.9	1537	PASS
69	198	0.00	100	35.1	82843	PASS
70	69	0.00	2	0.5	379	PASS
127	198	10	80	45.6	107720	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	236160	PASS
199	198	5	9	6.7	15805	PASS
275	198	10	60	29.6	69907	PASS
365	198	1	100	3.8	8929	PASS
441	198	0.01	100	17.9	42256	PASS
442	442	50	100	100.0	279061	PASS
443	442	15	24	19.1	53197	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140112.D
Acq On : 29 Oct 2024 15:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 29 16:07:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



TIC: BF140112.D\data.ms

(70) Pentachlorophenol (C)

11.216min (+ 0.006) 107927.56 ng

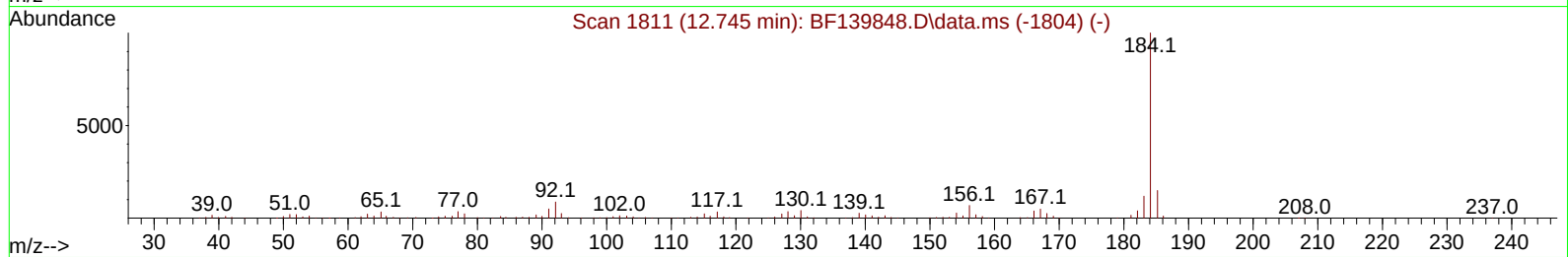
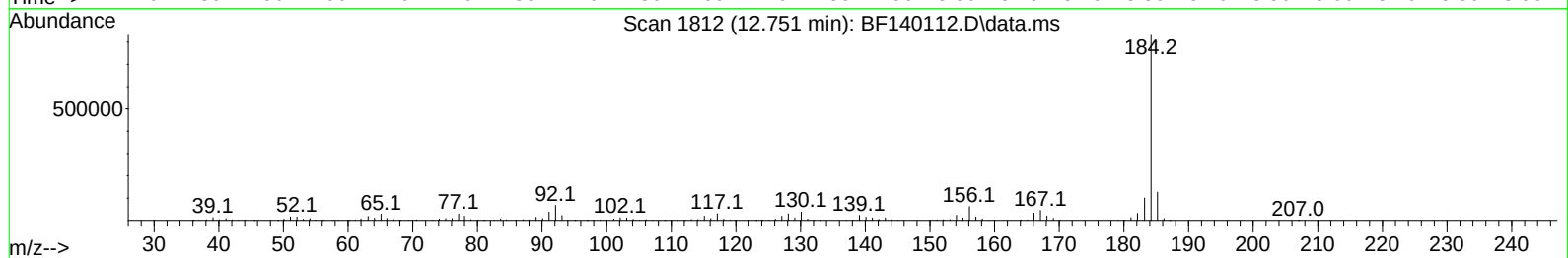
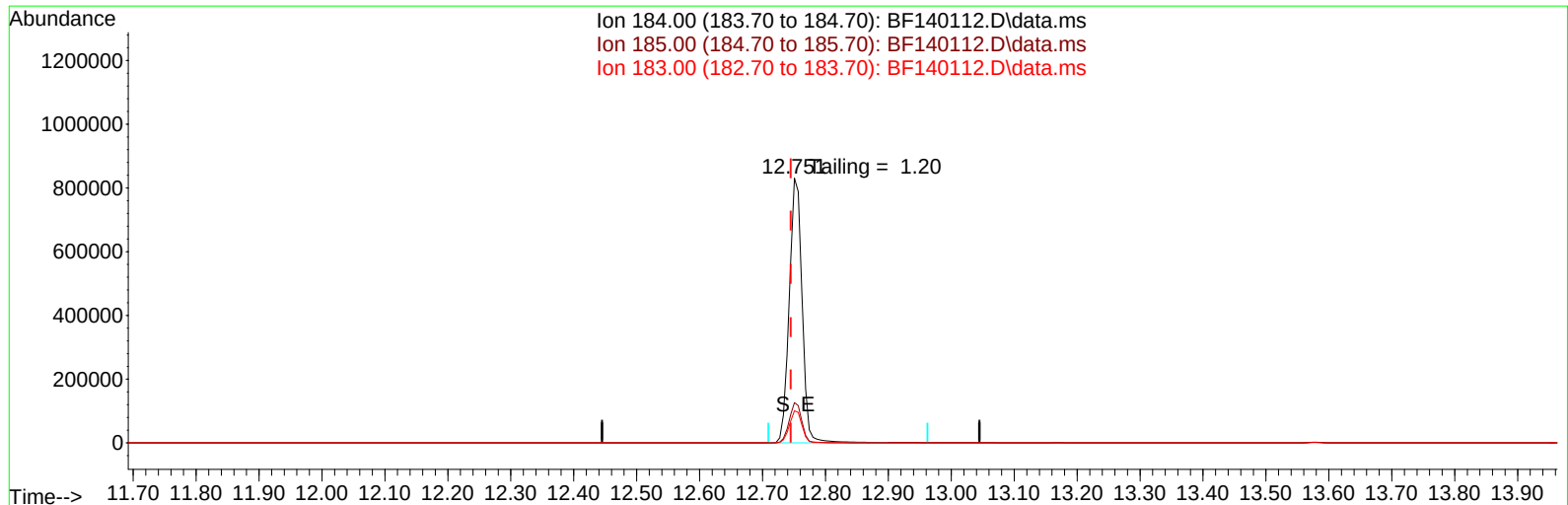
response 336959

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.00	63.70
264.00	63.20	62.91
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140112.D
Acq On : 29 Oct 2024 15:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 29 16:07:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



TIC: BF140112.D\data.ms

(77) Benzidine

12.751min (+ 0.006) 174264.48 ng

response 1186317

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.00	15.23
183.00	11.80	12.10
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
10/29/2024	BNA_F	<u>BF140112.D</u>
Compound Name	Response	Retention Time
DDT	730796	13.58
DDD	10774	13.304
DDE	1439	12.939
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
12213	743009	1.64

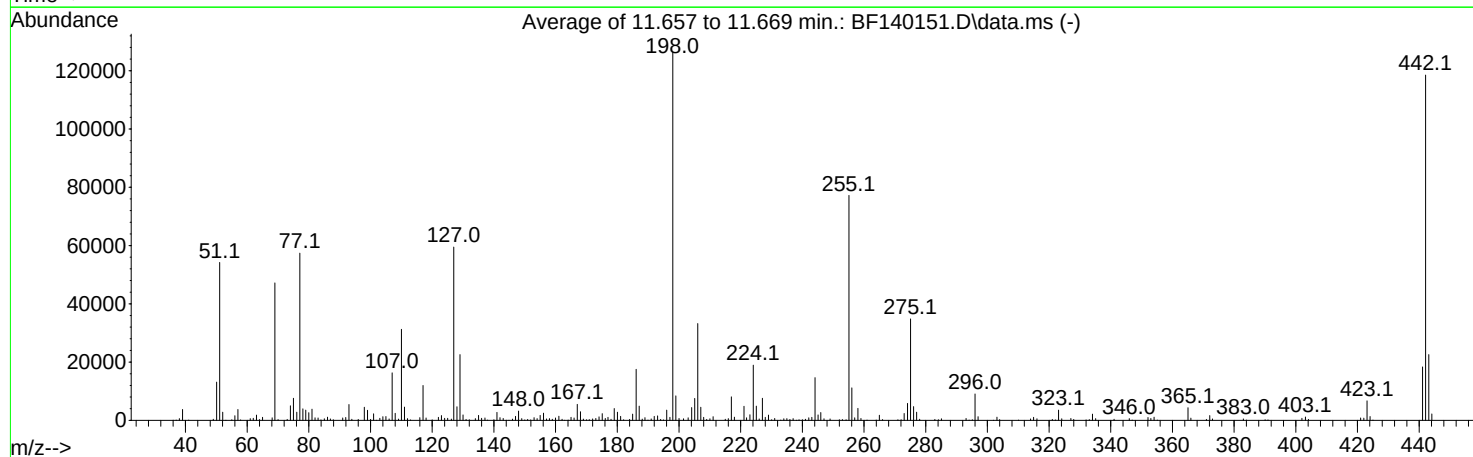
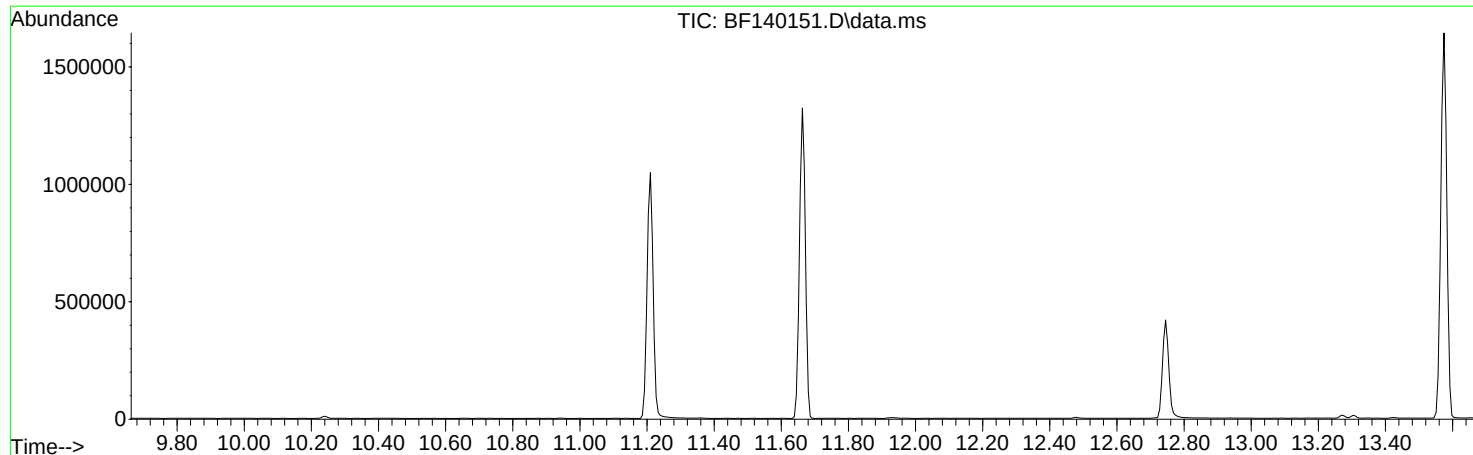
Instrument :
BNA_F
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140151.D
Acq On : 30 Oct 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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024



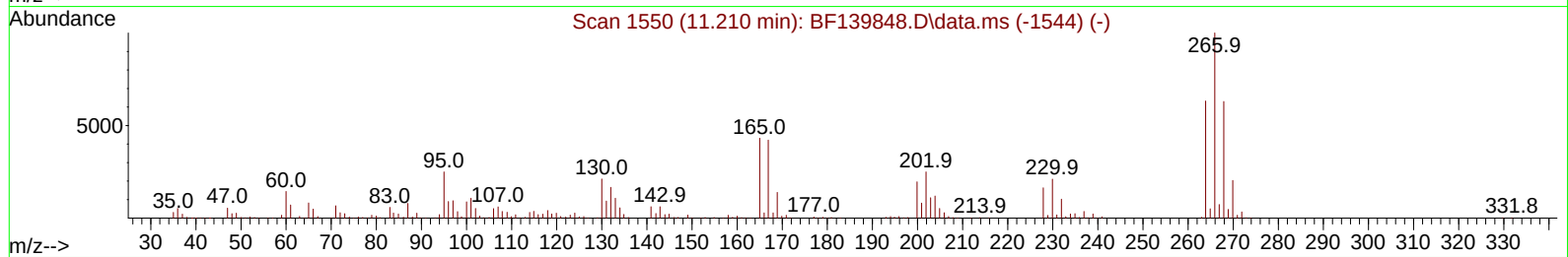
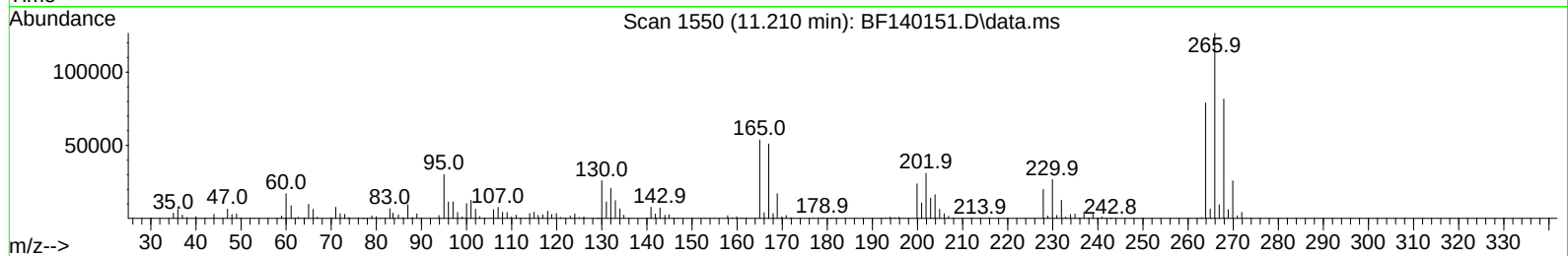
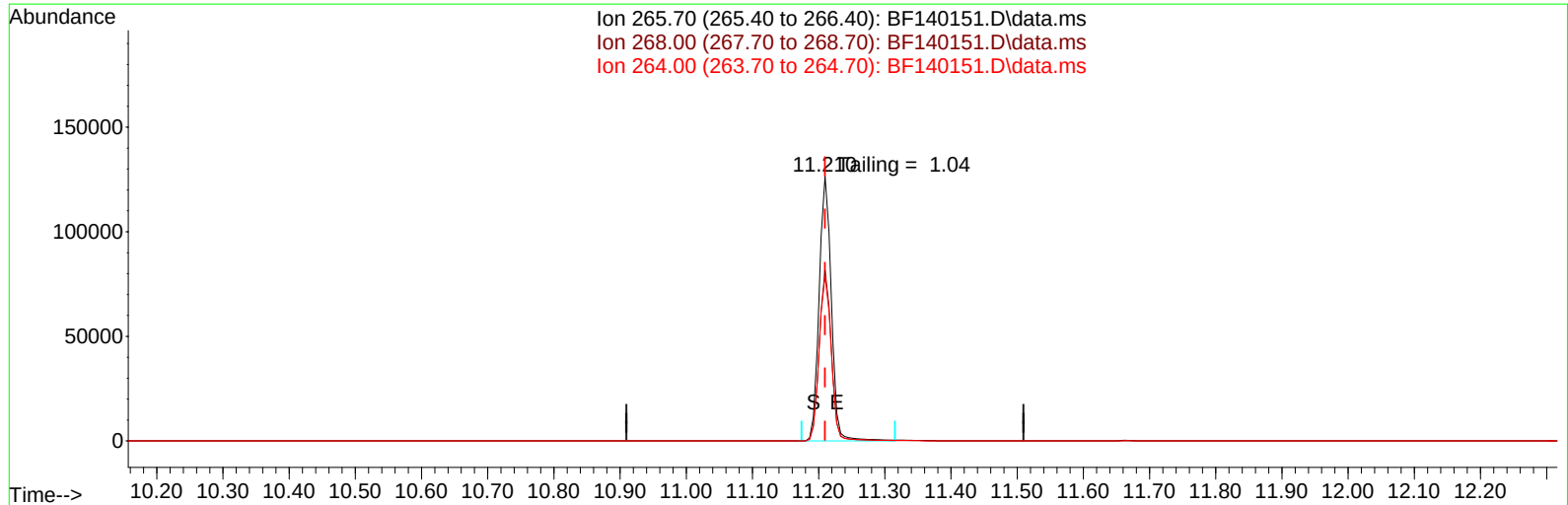
AutoFind: Scans 1626, 1627, 1628; Background Corrected with Scan 1620

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	42.9	54205	PASS
68	69	0.00	2	1.9	911	PASS
69	198	0.00	100	37.4	47179	PASS
70	69	0.00	2	0.6	260	PASS
127	198	10	80	47.1	59464	PASS
197	198	0.00	2	0.8	1062	PASS
198	198	100	100	100.0	126277	PASS
199	198	5	9	6.7	8423	PASS
275	198	10	60	27.6	34829	PASS
365	198	1	100	3.4	4328	PASS
441	198	0.01	100	14.5	18370	PASS
442	442	50	100	100.0	118523	PASS
443	442	15	24	19.1	22598	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140151.D
Acq On : 30 Oct 2024 11:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 30 13:37:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



TIC: BF140151.D\data.ms

(70) Pentachlorophenol (C)

11.210min (+ 0.000) 36507.12 ng

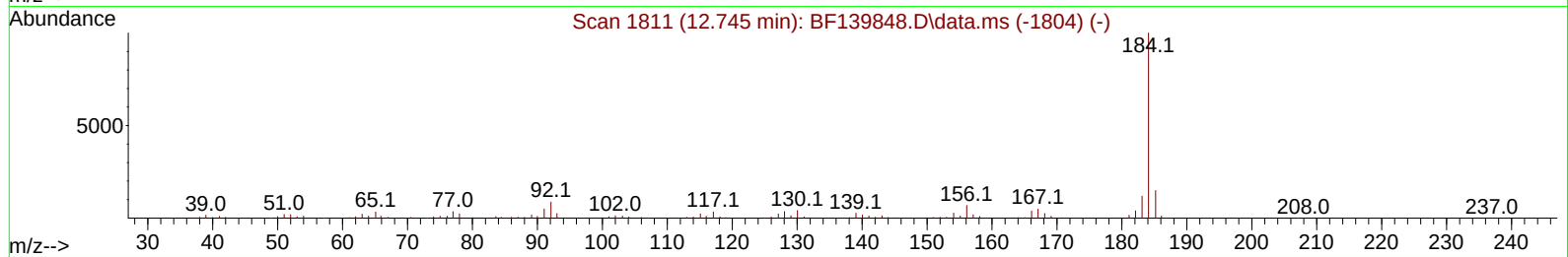
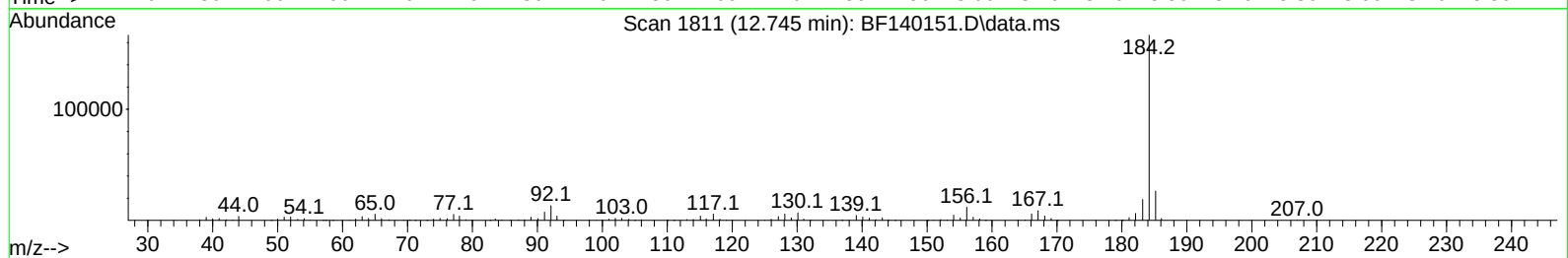
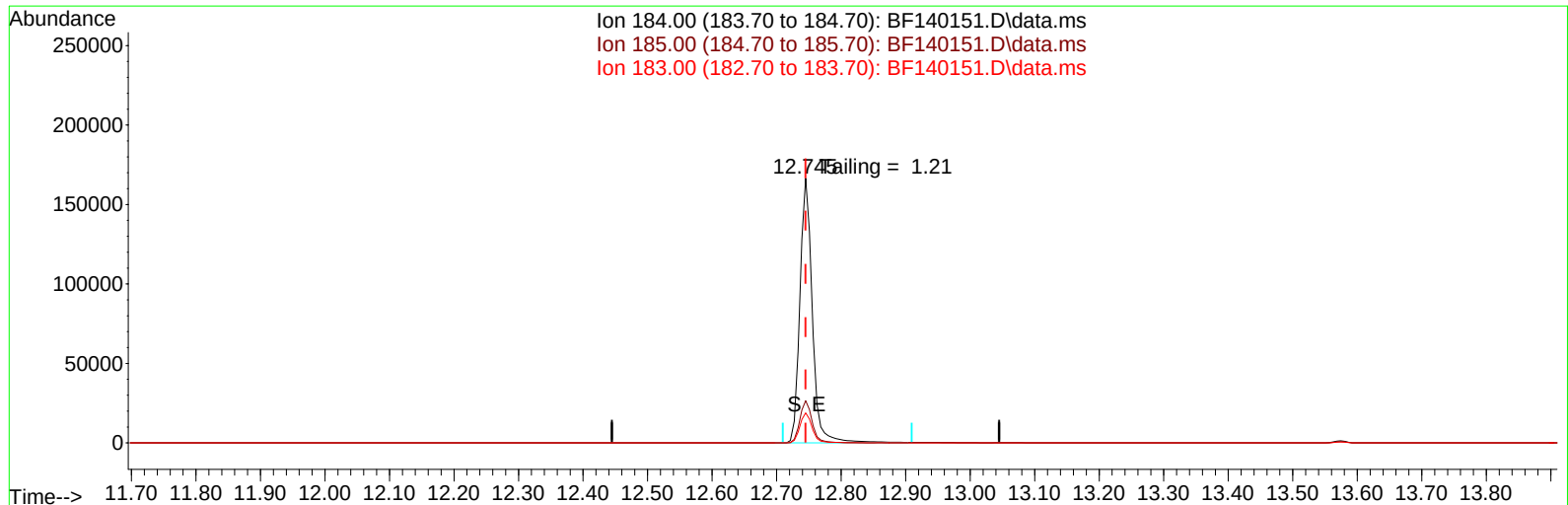
response 161726

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.00	64.47
264.00	63.20	62.33
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140151.D
Acq On : 30 Oct 2024 11:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 30 13:37:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



TIC: BF140151.D\data.ms

(77) Benzidine

12.745min (-0.000) 0.00 ng

response 224304

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.00	15.92
183.00	11.80	11.37
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
10/30/2024	BNA_F	<u>BF140151.D</u>
Compound Name	Response	Retention Time
DDT	401063	13.574
DDD	7330	13.274
DDE	529	12.933
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
7859	408922	1.92

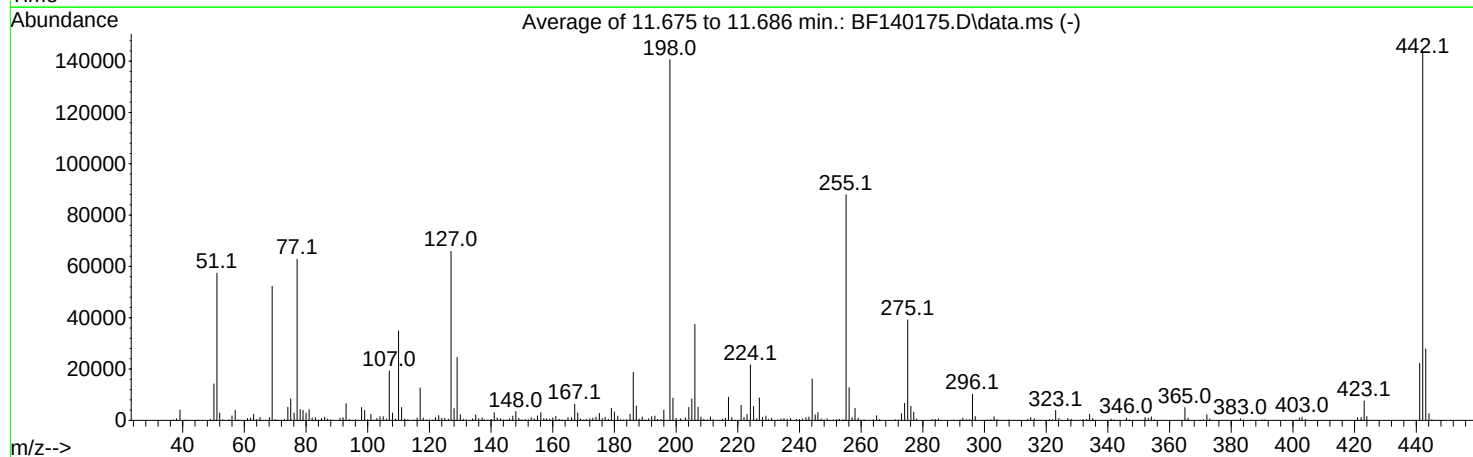
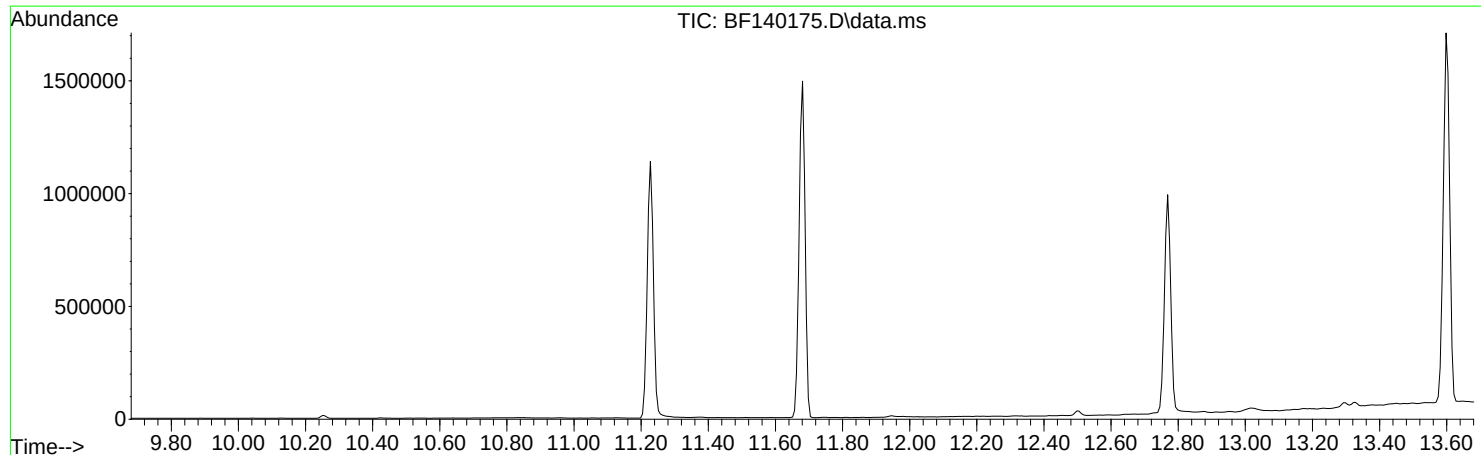
Instrument :
BNA_F
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140175.D
Acq On : 31 Oct 2024 08:56
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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024



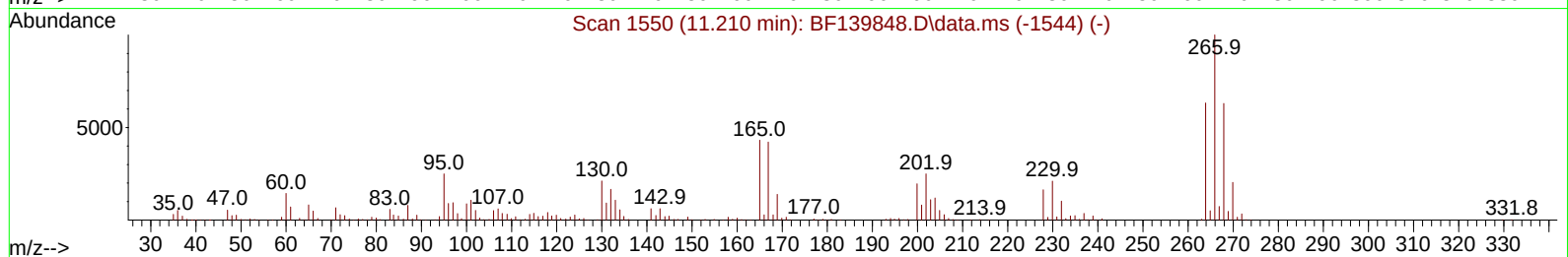
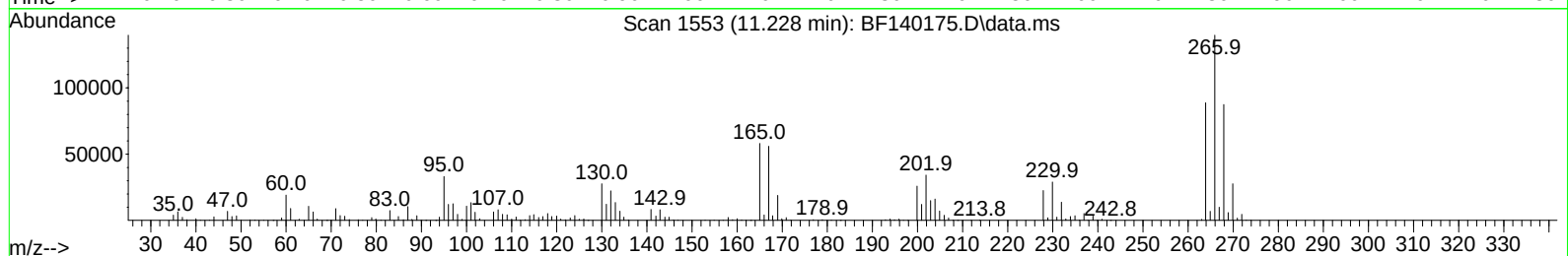
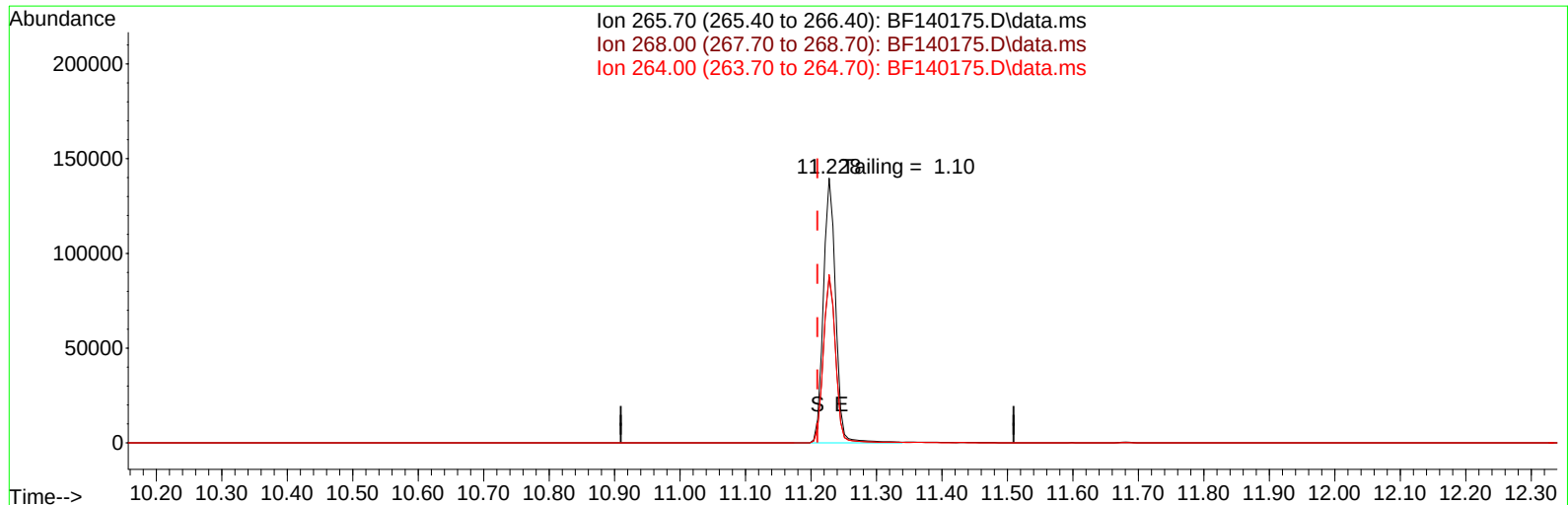
AutoFind: Scans 1629, 1630, 1631; Background Corrected with Scan 1622

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.8	57381	PASS
68	69	0.00	2	2.0	1036	PASS
69	198	0.00	100	37.2	52250	PASS
70	69	0.00	2	0.7	348	PASS
127	198	10	80	46.9	65869	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	140544	PASS
199	198	5	9	6.2	8676	PASS
275	198	10	60	27.9	39160	PASS
365	198	1	100	3.6	4993	PASS
441	198	0.01	100	15.8	22235	PASS
442	442	50	100	100.0	143365	PASS
443	442	15	24	19.4	27880	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140175.D
Acq On : 31 Oct 2024 08:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 31 19:50:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



TIC: BF140175.D\data.ms

(70) Pentachlorophenol (C)

11.228min (+ 0.018) 96214.53 ng

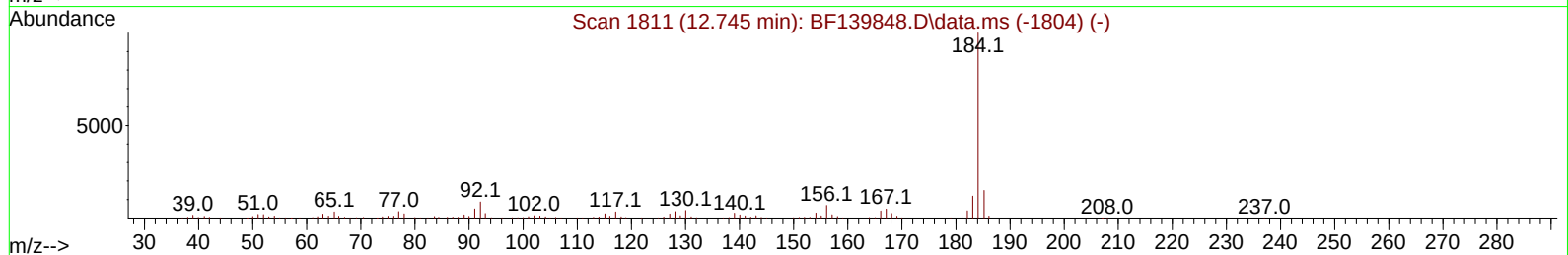
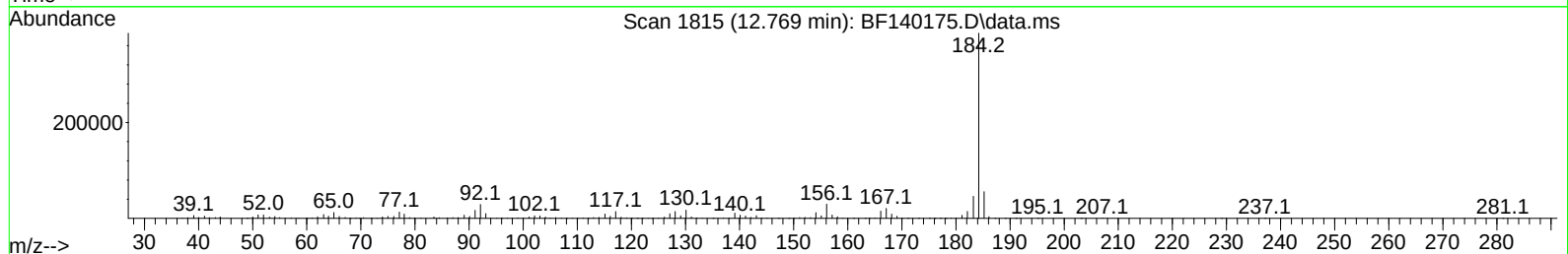
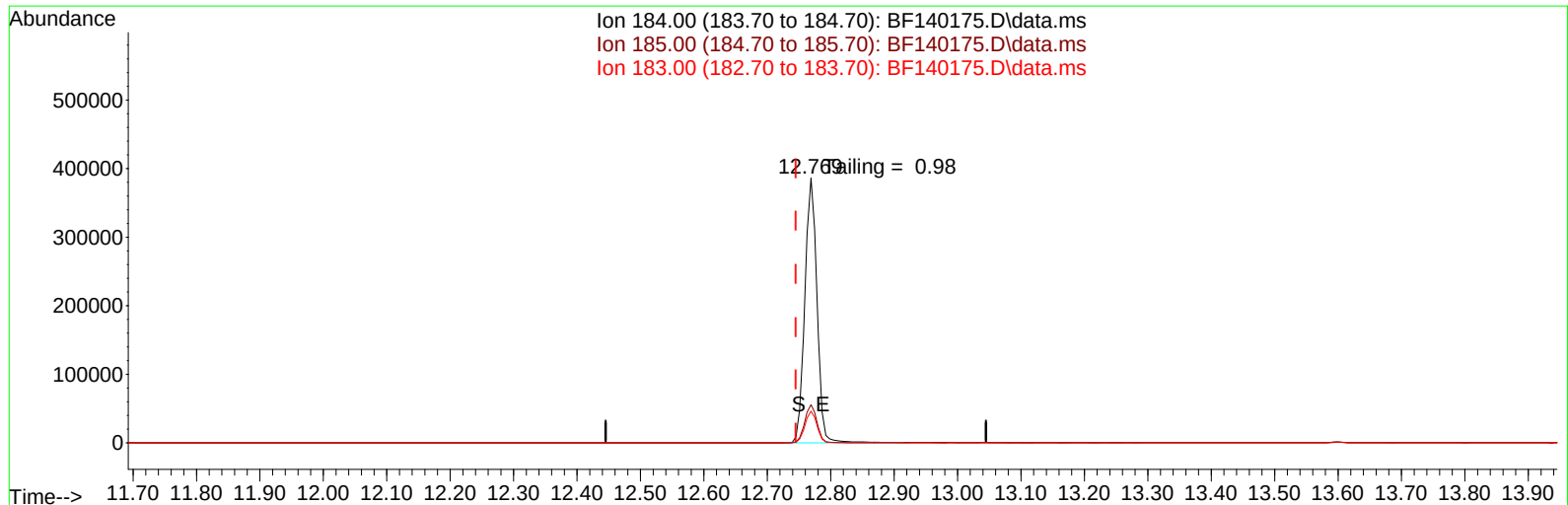
response 181993

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.00	62.62
264.00	63.20	63.55
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140175.D
Acq On : 31 Oct 2024 08:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Oct 31 19:50:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



TIC: BF140175.D\data.ms

(77) Benzidine

12.769min (+ 0.024) 28582.51 ng

response 516523

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.00	14.45
183.00	11.80	11.98
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
10/31/2024	BNA_F	<u>BF140175.D</u>
Compound Name	Response	Retention Time
DDT	423753	13.598
DDD	10560	13.292
DDE	411	12.957
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
10971	434724	2.52

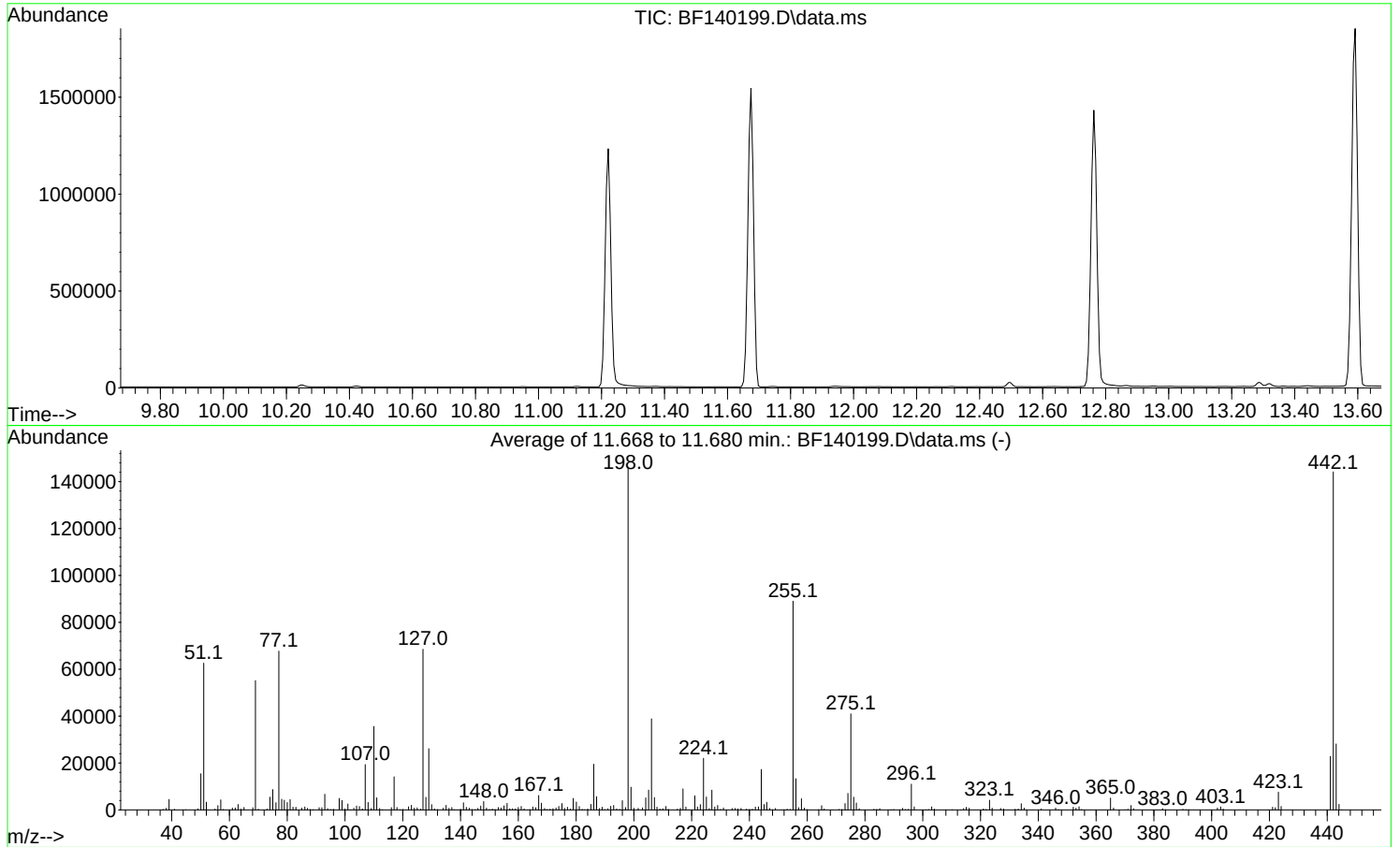
Instrument :
BNA_F
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140199.D
Acq On : 01 Nov 2024 08:56
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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024



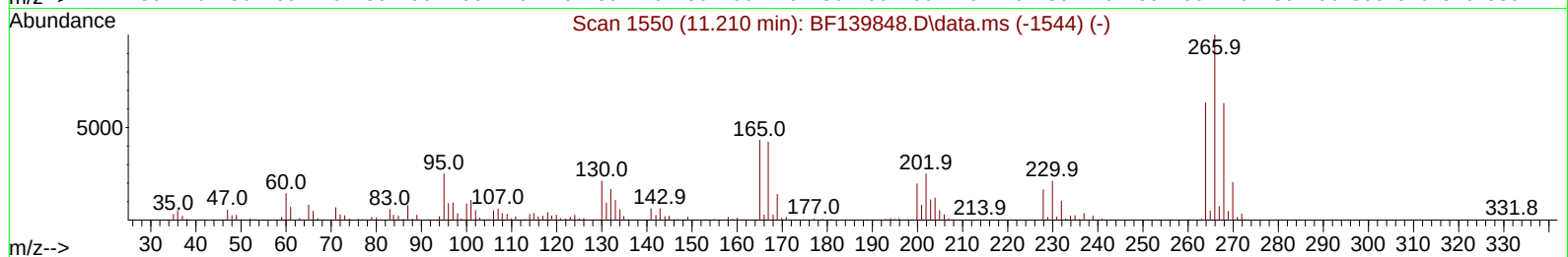
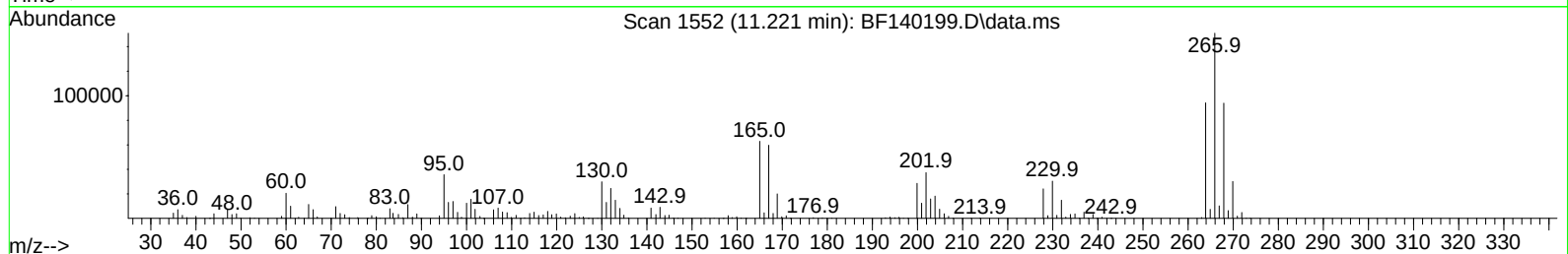
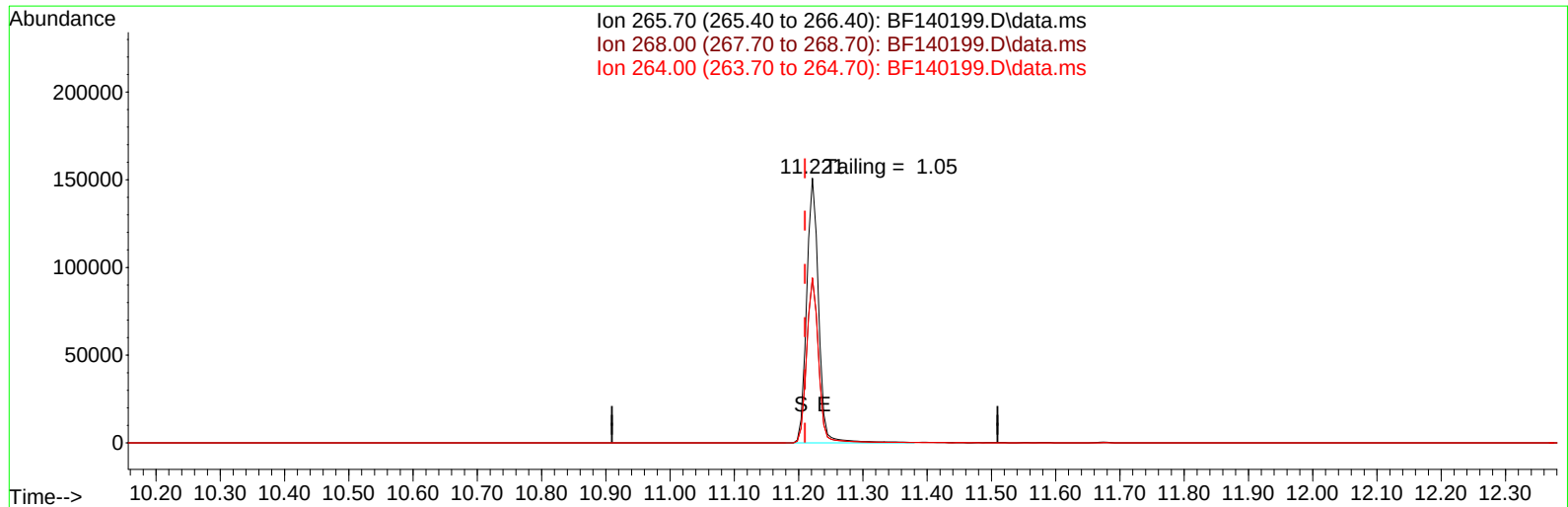
AutoFind: Scans 1628, 1629, 1630; Background Corrected with Scan 1621

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	42.9	62603	PASS
68	69	0.00	2	1.7	956	PASS
69	198	0.00	100	37.8	55155	PASS
70	69	0.00	2	0.6	315	PASS
127	198	10	80	47.0	68533	PASS
197	198	0.00	2	0.7	1013	PASS
198	198	100	100	100.0	145960	PASS
199	198	5	9	6.6	9704	PASS
275	198	10	60	28.1	40979	PASS
365	198	1	100	3.5	5070	PASS
441	198	0.01	100	15.6	22800	PASS
442	442	50	100	100.0	144173	PASS
443	442	15	24	19.5	28141	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140199.D
Acq On : 01 Nov 2024 08:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 01 11:17:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



TIC: BF140199.D\data.ms

(70) Pentachlorophenol (C)

11.221min (+ 0.012) 111304.73 ng

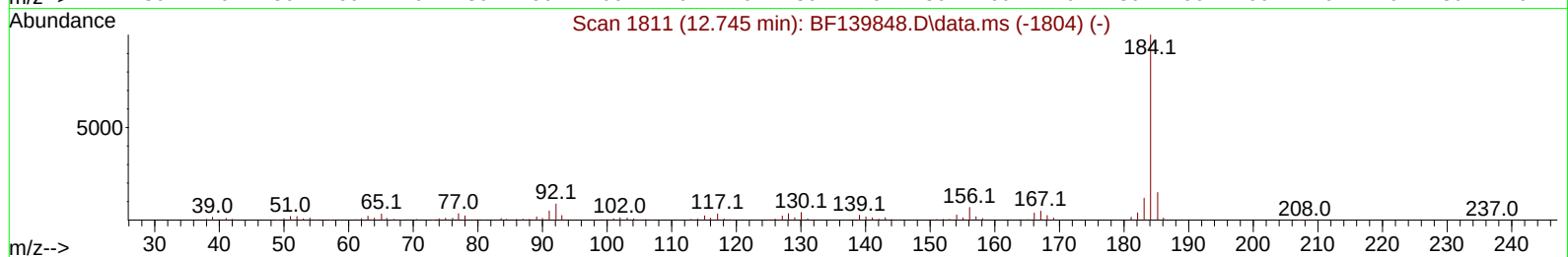
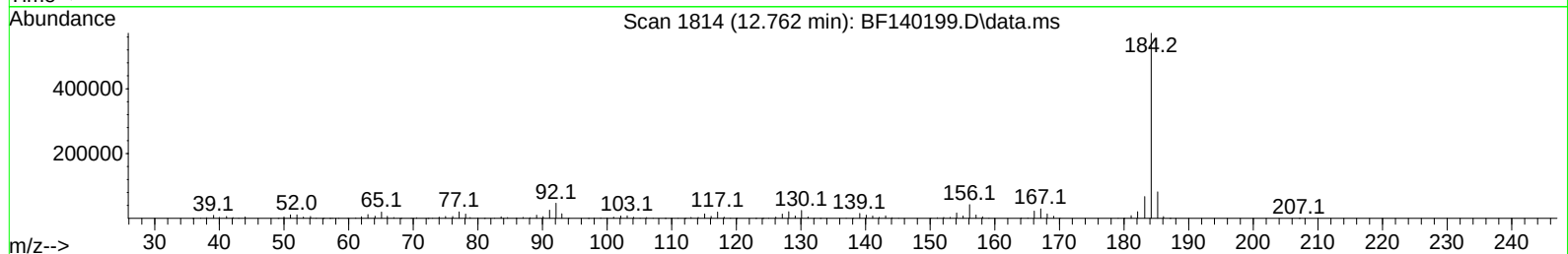
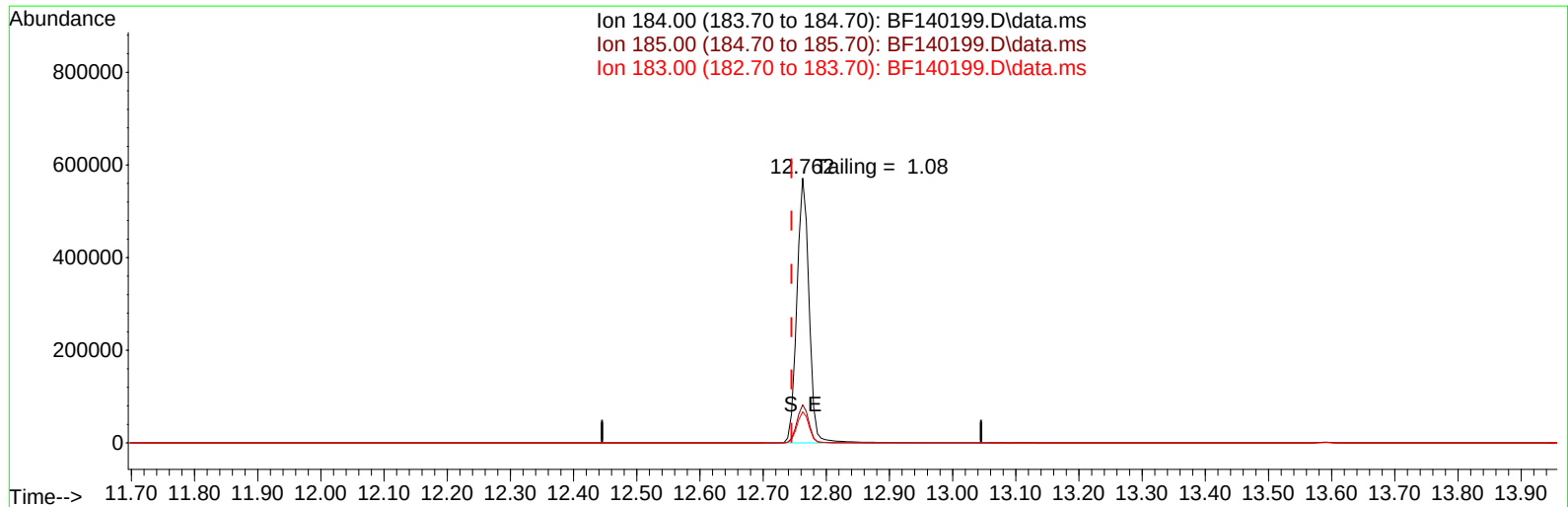
response 195666

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.00	62.21
264.00	63.20	62.38
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140199.D
Acq On : 01 Nov 2024 08:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 01 11:17:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



TIC: BF140199.D\data.ms

(77) Benzidine

12.762min (+ 0.017) 118399.71 ng

response 767076

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.00	14.36
183.00	11.80	11.79
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/1/2024	BNA_F	<u>BF140199.D</u>
Compound Name	Response	Retention Time
DDT	471343	13.592
DDD	9865	13.286
DDE	718	12.951
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
10583	481926	2.20

Instrument :
BNA_F
ClientSampleId :
DFTPP

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164461BL	SDG No.:	P4578
Lab Sample ID:	PB164461BL	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
BF140101.D	1	10/28/24 09:00	10/29/24 10:05	PB164461

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	82.9	U	82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.7	U	83.7	170	ug/Kg
95-57-8	2-Chlorophenol	83.5	U	83.5	170	ug/Kg
95-48-7	2-Methylphenol	80.6	U	80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.9	U	90.9	170	ug/Kg
98-86-2	Acetophenone	86.9	U	86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.8	U	79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	83.0	U	83.0	170	ug/Kg
98-95-3	Nitrobenzene	90.8	U	90.8	170	ug/Kg
78-59-1	Isophorone	84.6	U	84.6	170	ug/Kg
88-75-5	2-Nitrophenol	94.5	U	94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.2	U	93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.8	U	85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.5	U	75.5	170	ug/Kg
91-20-3	Naphthalene	82.6	U	82.6	170	ug/Kg
106-47-8	4-Chloroaniline	82.6	U	82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.3	U	83.3	170	ug/Kg
105-60-2	Caprolactam	86.8	U	86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.5	U	77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.5	U	82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.4	U	71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	74.0	U	74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	87.4	U	87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.3	U	83.3	170	ug/Kg
88-74-4	2-Nitroaniline	95.0	U	95.0	170	ug/Kg
131-11-3	Dimethylphthalate	81.7	U	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:	PB164461BL	SDG No.:	P4578
Lab Sample ID:	PB164461BL	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
BF140101.D	1	10/28/24 09:00	10/29/24 10:05	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	86.5	U	86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.2	U	83.2	170	ug/Kg
99-09-2	3-Nitroaniline	89.2	U	89.2	170	ug/Kg
83-32-9	Acenaphthene	81.1	U	81.1	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	84.4	U	84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.2	U	86.2	170	ug/Kg
84-66-2	Diethylphthalate	80.1	U	80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.6	U	85.6	170	ug/Kg
86-73-7	Fluorene	85.5	U	85.5	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	81.6	U	81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.9	U	78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	85.0	U	85.0	170	ug/Kg
1912-24-9	Atrazine	91.4	U	91.4	170	ug/Kg
87-86-5	Pentachlorophenol	77.3	U	77.3	330	ug/Kg
85-01-8	Phenanthrene	84.0	U	84.0	170	ug/Kg
120-12-7	Anthracene	84.4	U	84.4	170	ug/Kg
86-74-8	Carbazole	80.3	U	80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.3	U	84.3	170	ug/Kg
206-44-0	Fluoranthene	81.7	U	81.7	170	ug/Kg
129-00-0	Pyrene	83.0	U	83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.8	U	96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.6	U	98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.7	U	80.7	170	ug/Kg
218-01-9	Chrysene	79.5	U	79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	91.0	U	91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.1	U	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:	PB164461BL	SDG No.:	P4578
Lab Sample ID:	PB164461BL	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
BF140101.D	1	10/28/24 09:00	10/29/24 10:05	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	82.6	U	82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	93.0	U	93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.1	U	78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.2	U	81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.1	U	80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.8	U	86.8	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.7	U	74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	119		30 (18) - 130 (112)	79%	SPK: 150
13127-88-3	Phenol-d6	116		30 (15) - 130 (107)	77%	SPK: 150
4165-60-0	Nitrobenzene-d5	89.7		30 (18) - 130 (107)	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.0		30 (20) - 130 (109)	86%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		30 (10) - 130 (116)	90%	SPK: 150
1718-51-0	Terphenyl-d14	81.7		30 (10) - 130 (105)	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	132000	6.887			
1146-65-2	Naphthalene-d8	522000	8.169			
15067-26-2	Acenaphthene-d10	294000	9.922			
1517-22-2	Phenanthrene-d10	532000	11.41			
1719-03-5	Chrysene-d12	354000	14.045			
1520-96-3	Perylene-d12	265000	15.527			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	91.0	J		2.26	ug/Kg
000111-06-8	Hexadecanoic acid, butyl ester	89.6	J		12.8	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164461BL	SDG No.:	P4578
Lab Sample ID:	PB164461BL	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
BF140101.D	1	10/28/24 09:00	10/29/24 10:05	PB164461

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\BF102924\
Data File : BF140101.D
Acq On : 29 Oct 2024 10:05
Operator : RC/JU
Sample : PB164461BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Quant Time: Oct 29 11:31:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	132334	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	522078	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	293840	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	532374	20.000	ng	0.00
76) Chrysene-d12	14.045	240	353787	20.000	ng	0.00
86) Perylene-d12	15.527	264	265432	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1005416	118.939	ng	0.02
7) Phenol-d6	6.510	99	1269087	115.917	ng	0.00
23) Nitrobenzene-d5	7.445	82	844513	89.653	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	371294	135.090	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1529595	86.032	ng	0.00
79) Terphenyl-d14	12.998	244	1772789	81.652	ng	0.00

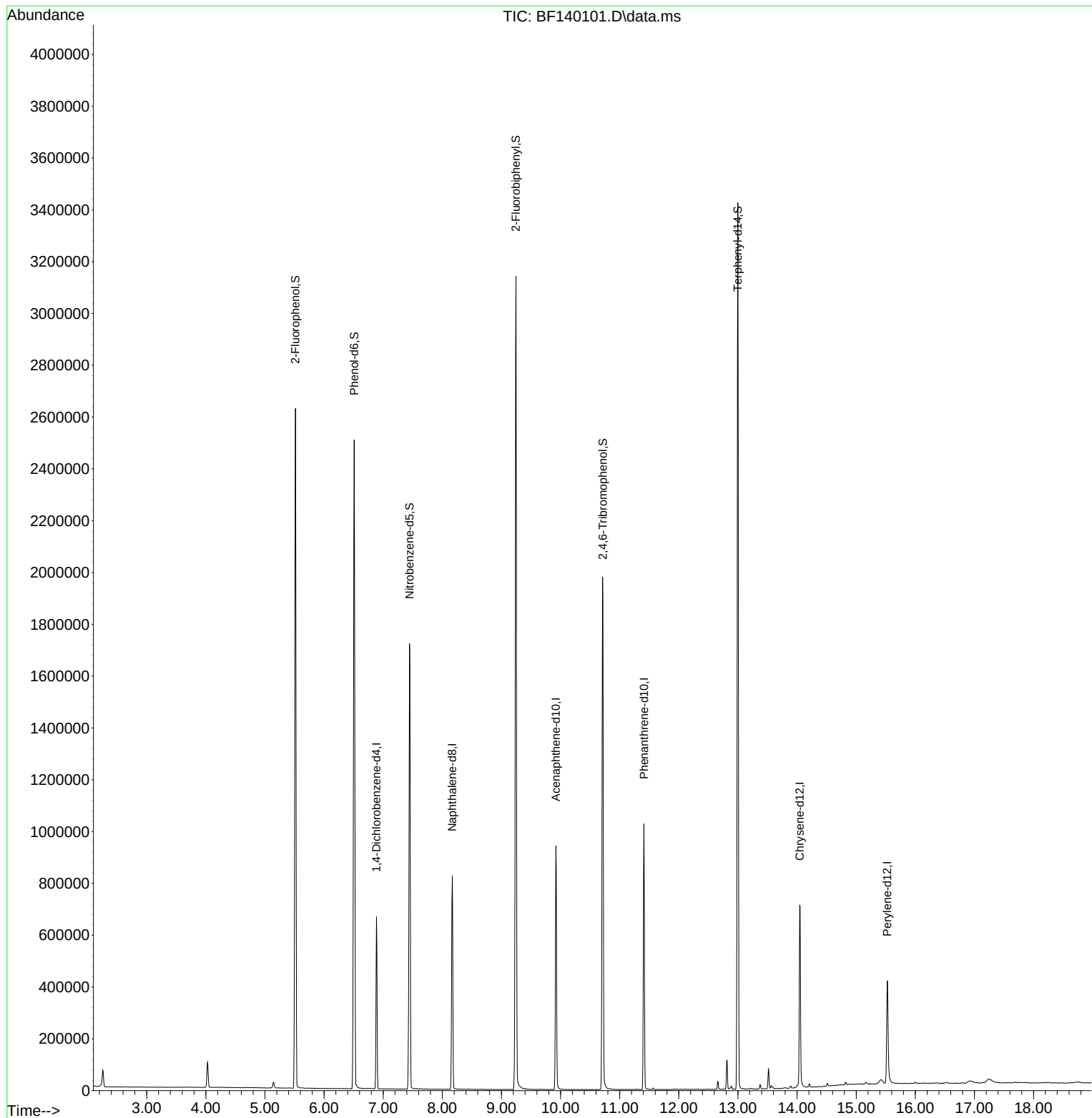
Target Compounds	Qvalue

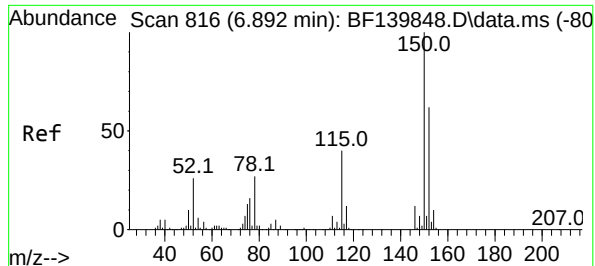
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140101.D
Acq On : 29 Oct 2024 10:05
Operator : RC/JU
Sample : PB164461BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Quant Time: Oct 29 11:31:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

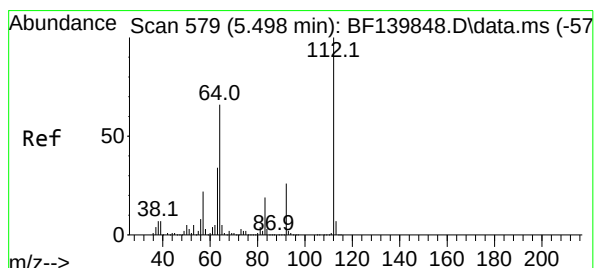
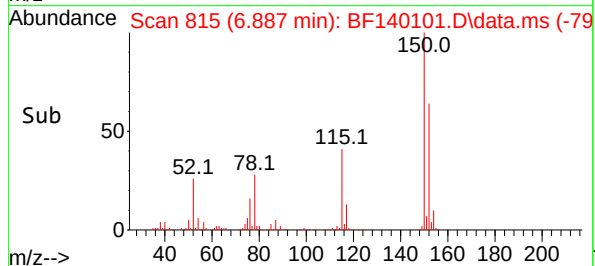
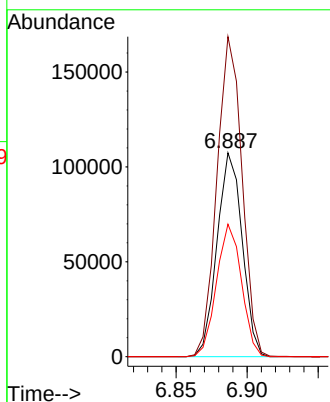
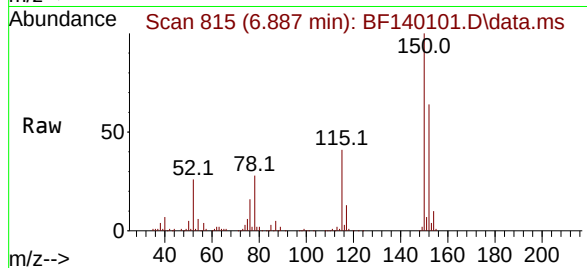




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 816
Delta R.T. -0.005 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

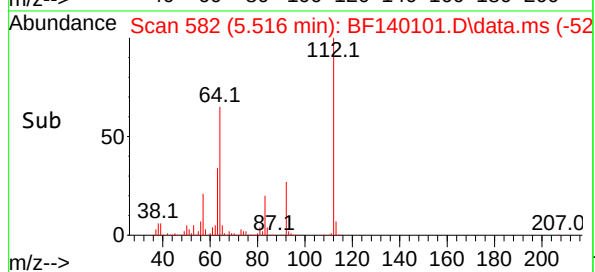
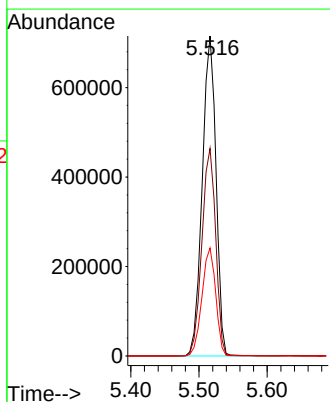
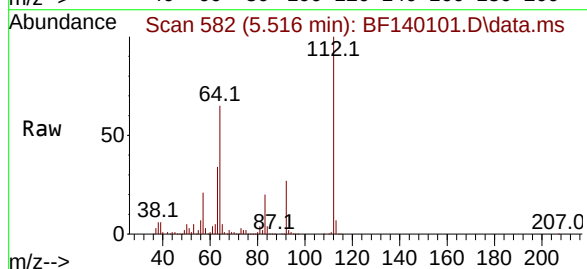
Instrument :
BNA_F
ClientSampleId :
PB164461BL

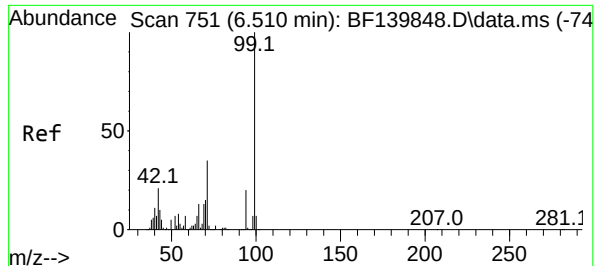
Tgt Ion:152 Resp: 132334
Ion Ratio Lower Upper
152 100
150 156.9 130.2 195.2
115 65.0 51.4 77.2



#5
2-Fluorophenol
Concen: 118.939 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Tgt Ion:112 Resp: 1005416
Ion Ratio Lower Upper
112 100
64 64.9 53.0 79.6
63 33.7 27.0 40.4

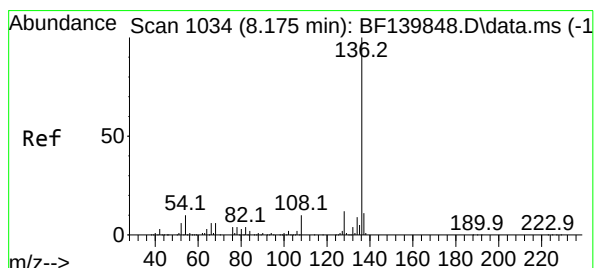
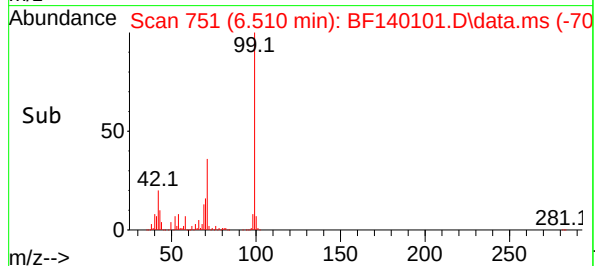
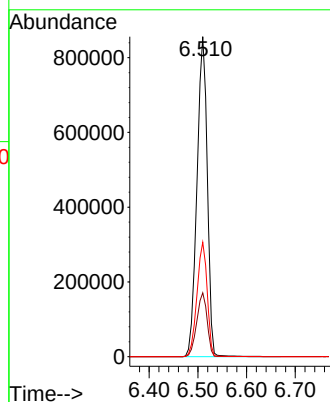
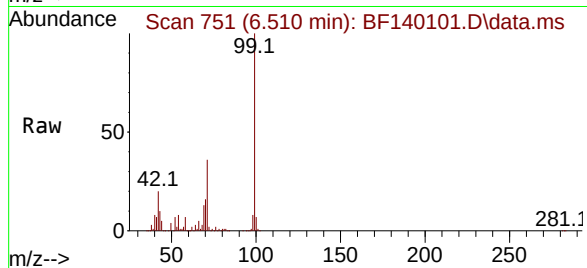




#7
Phenol-d6
Concen: 115.917 ng
RT: 6.510 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

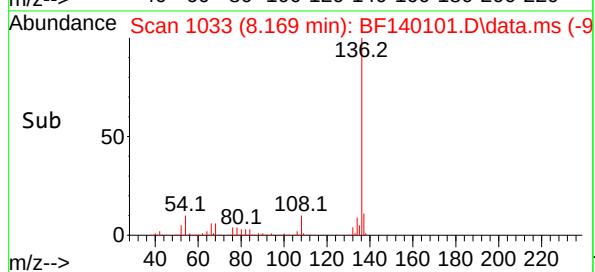
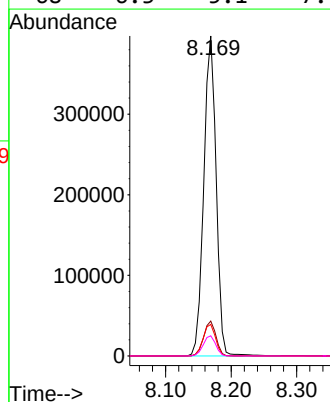
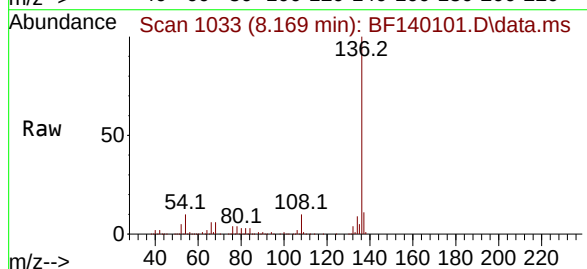
Instrument :
BNA_F
ClientSampleId :
PB164461BL

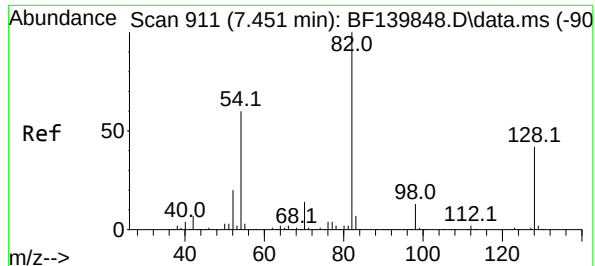
Tgt Ion: 99 Resp: 1269087
Ion Ratio Lower Upper
99 100
42 19.9 16.7 25.1
71 35.7 27.7 41.5



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Tgt Ion: 136 Resp: 522078
Ion Ratio Lower Upper
136 100
137 10.9 8.6 12.8
54 9.8 8.4 12.6
68 6.3 5.1 7.7





#23

Nitrobenzene-d5

Concen: 89.653 ng

RT: 7.445 min Scan# 911

Delta R.T. -0.006 min

Lab File: BF140101.D

Acq: 29 Oct 2024 10:05

Instrument :

BNA_F

ClientSampleId :

PB164461BL

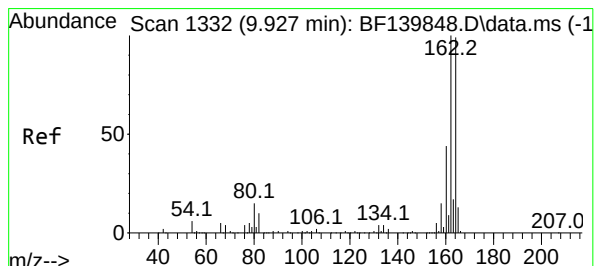
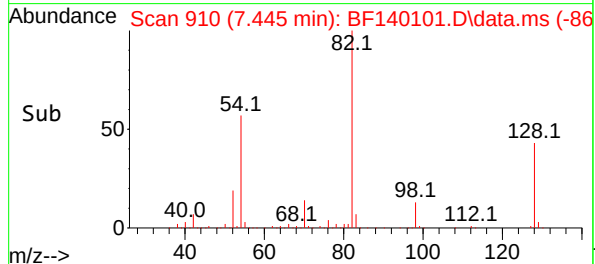
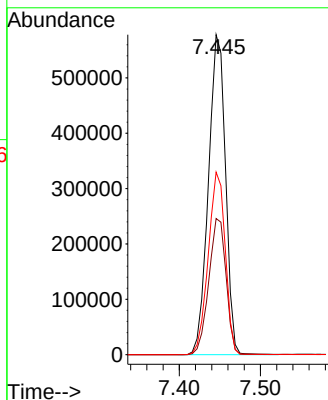
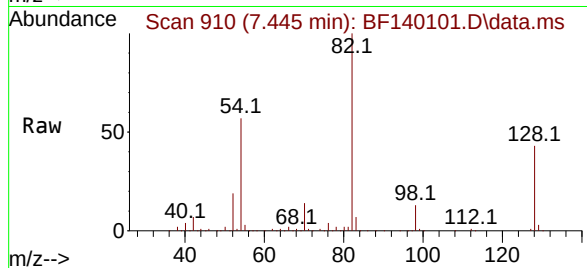
Tgt Ion: 82 Resp: 844513

Ion Ratio Lower Upper

82 100

128 42.5 33.4 50.0

54 57.0 47.8 71.8



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 1331

Delta R.T. -0.005 min

Lab File: BF140101.D

Acq: 29 Oct 2024 10:05

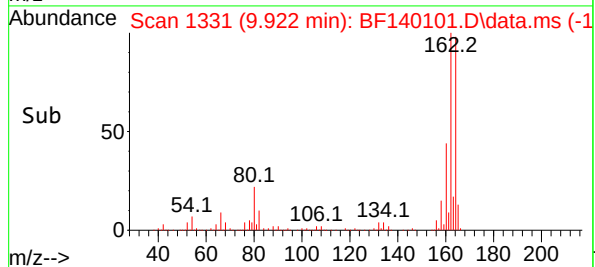
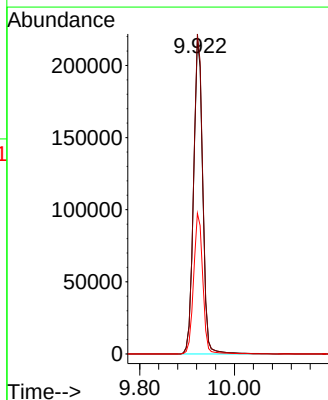
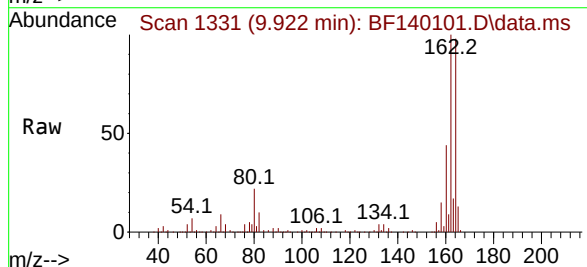
Tgt Ion:164 Resp: 293840

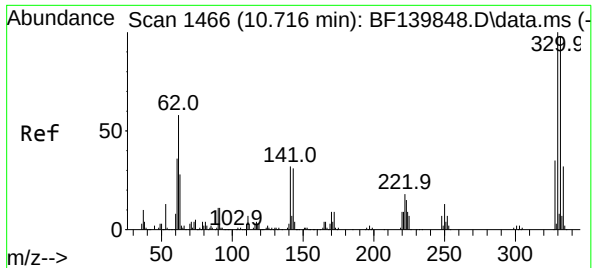
Ion Ratio Lower Upper

164 100

162 101.6 81.0 121.4

160 44.7 35.4 53.0





#42

2,4,6-Tribromophenol

Concen: 135.090 ng

RT: 10.716 min Scan# 1466

Delta R.T. 0.000 min

Lab File: BF140101.D

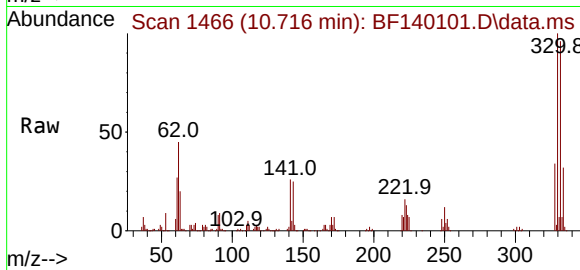
Acq: 29 Oct 2024 10:05

Instrument :

BNA_F

ClientSampleId :

PB164461BL



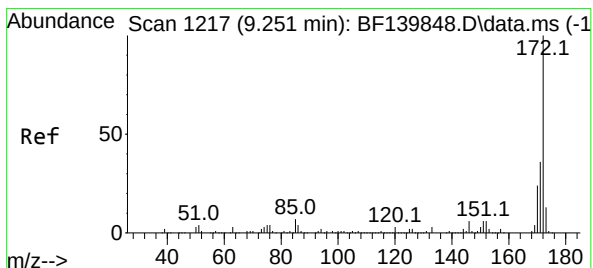
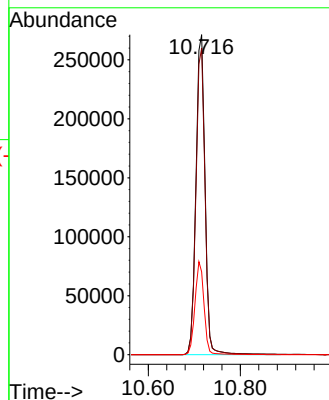
Tgt Ion:330 Resp: 371294

Ion Ratio Lower Upper

330 100

332 95.8 78.1 117.1

141 29.0 26.6 39.8



#45

2-Fluorobiphenyl

Concen: 86.032 ng

RT: 9.245 min Scan# 1216

Delta R.T. -0.006 min

Lab File: BF140101.D

Acq: 29 Oct 2024 10:05

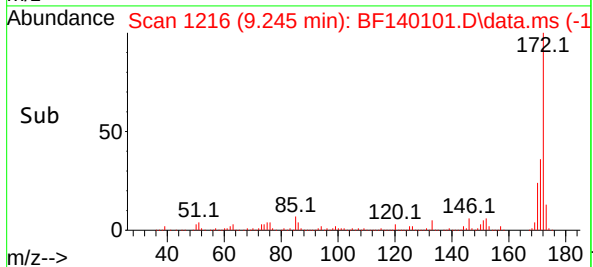
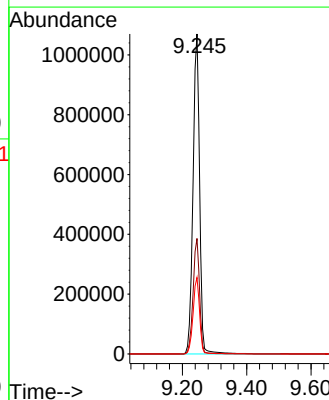
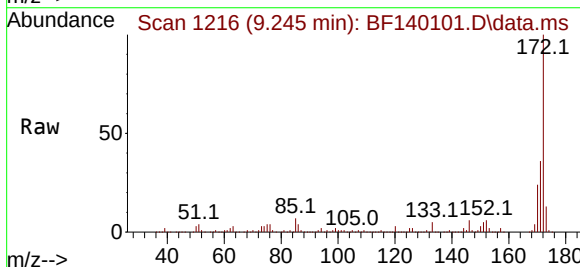
Tgt Ion:172 Resp: 1529595

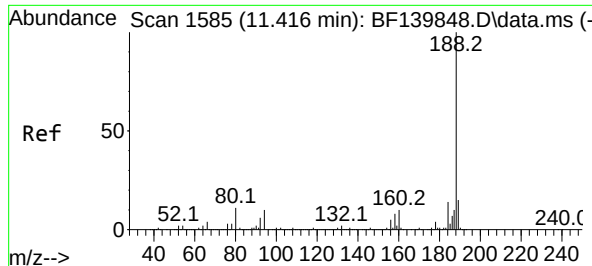
Ion Ratio Lower Upper

172 100

171 36.1 28.6 43.0

170 23.9 19.1 28.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.410 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF140101.D

Acq: 29 Oct 2024 10:05

Instrument :

BNA_F

ClientSampleId :

PB164461BL

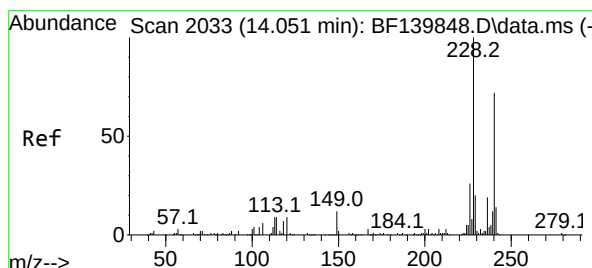
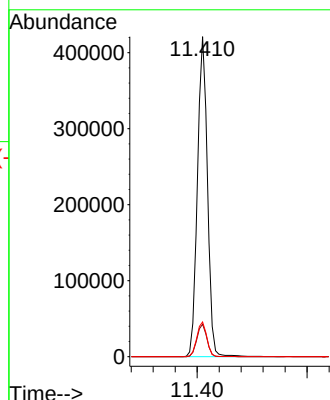
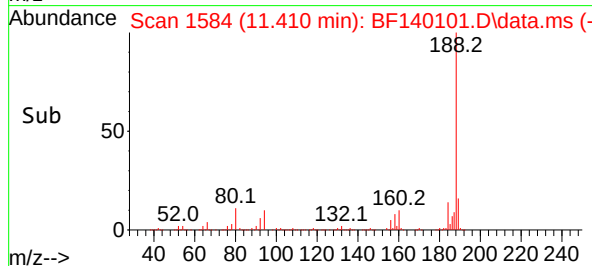
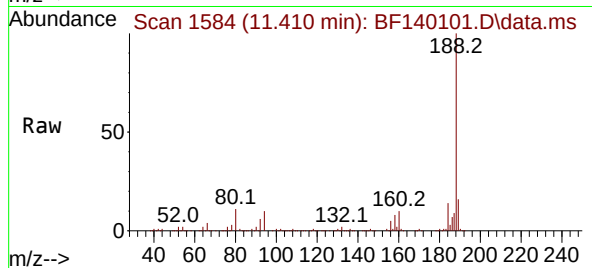
Tgt Ion:188 Resp: 532374

Ion Ratio Lower Upper

188 100

94 10.2 7.9 11.9

80 10.9 9.0 13.4



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.045 min Scan# 2032

Delta R.T. -0.006 min

Lab File: BF140101.D

Acq: 29 Oct 2024 10:05

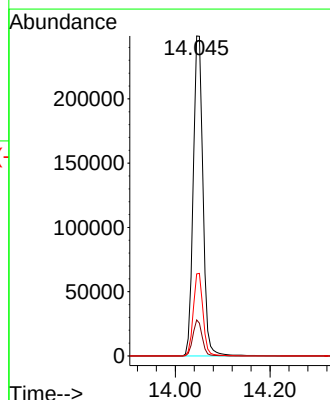
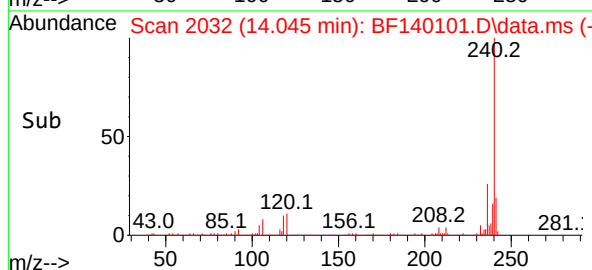
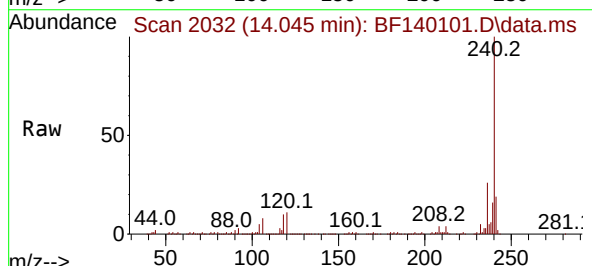
Tgt Ion:240 Resp: 353787

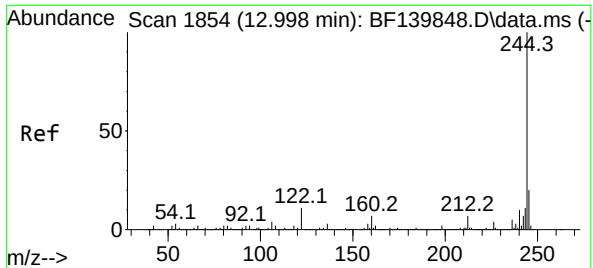
Ion Ratio Lower Upper

240 100

120 11.2 9.4 14.2

236 25.7 20.9 31.3





#79

Terphenyl-d14

Concen: 81.652 ng

RT: 12.998 min Scan# 1854

Delta R.T. 0.000 min

Lab File: BF140101.D

Acq: 29 Oct 2024 10:05

Instrument :

BNA_F

ClientSampleId :

PB164461BL

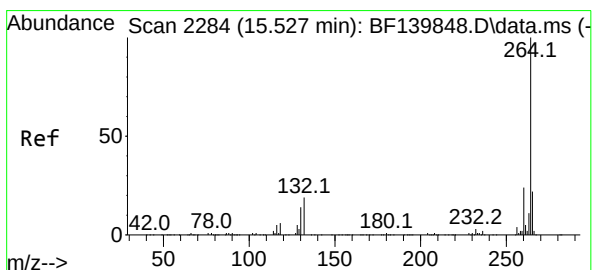
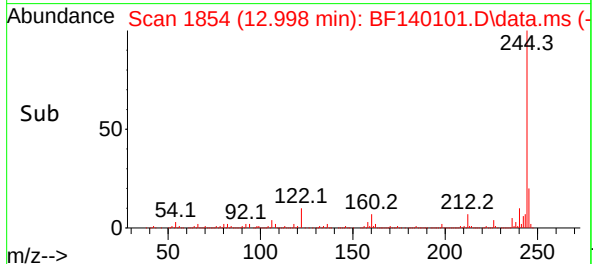
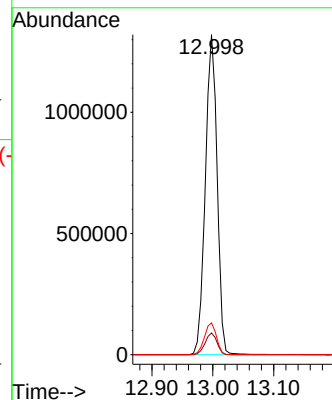
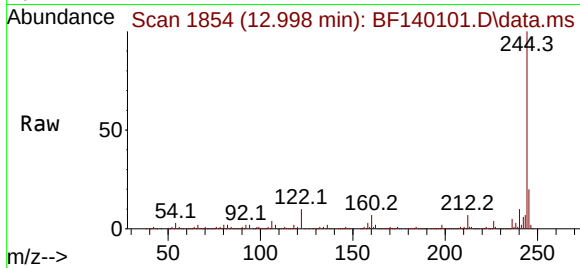
Tgt Ion:244 Resp: 1772789

Ion Ratio Lower Upper

244 100

212 6.8 5.7 8.5

122 9.9 8.6 13.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.527 min Scan# 2284

Delta R.T. 0.000 min

Lab File: BF140101.D

Acq: 29 Oct 2024 10:05

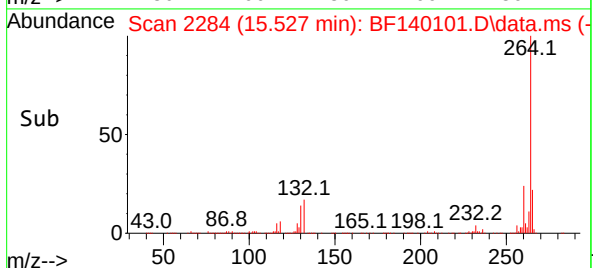
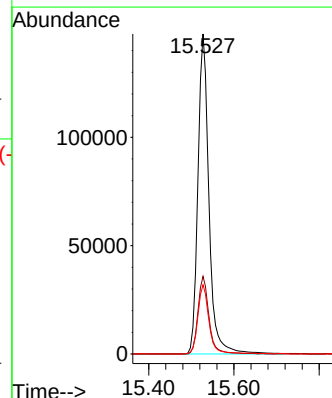
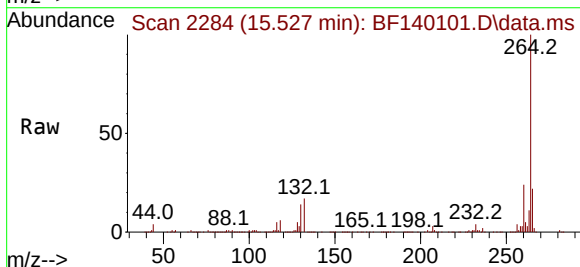
Tgt Ion:264 Resp: 265432

Ion Ratio Lower Upper

264 100

260 24.2 19.4 29.2

265 21.6 17.4 26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140101.D
Acq On : 29 Oct 2024 10:05
Operator : RC/JU
Sample : PB164461BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164461BL

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-BF101824.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140101.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.257	22	28	35	rVB	64016	110751	2.42%	0.392%
2	4.028	323	329	336	rVB	95189	148334	3.24%	0.525%
3	5.516	575	582	587	rBV	2624062	3686953	80.42%	13.044%
4	6.510	744	751	756	rBV	2505060	3692827	80.55%	13.065%
5	6.887	810	815	820	rBV	663892	811248	17.70%	2.870%
6	7.445	903	910	916	rBV	1719891	2511645	54.78%	8.886%
7	8.169	1027	1033	1038	rBV	823553	1075342	23.46%	3.804%
8	9.245	1208	1216	1221	rBV	3139567	4388519	95.72%	15.526%
9	9.922	1325	1331	1350	rBV	941396	1253723	27.35%	4.436%
10	10.710	1459	1465	1483	rBV	1978273	2735902	59.68%	9.679%
11	11.410	1578	1584	1593	rBV	1025478	1284527	28.02%	4.544%
12	12.816	1818	1823	1827	rBV	111062	140421	3.06%	0.497%
13	12.998	1848	1854	1859	rBV	3421747	4584564	100.00%	16.220%
14	13.516	1937	1942	1947	rBV	75508	98002	2.14%	0.347%
15	14.045	2020	2032	2046	rBV	704368	1043721	22.77%	3.693%
16	15.527	2278	2284	2301	rBV	393768	699137	15.25%	2.473%

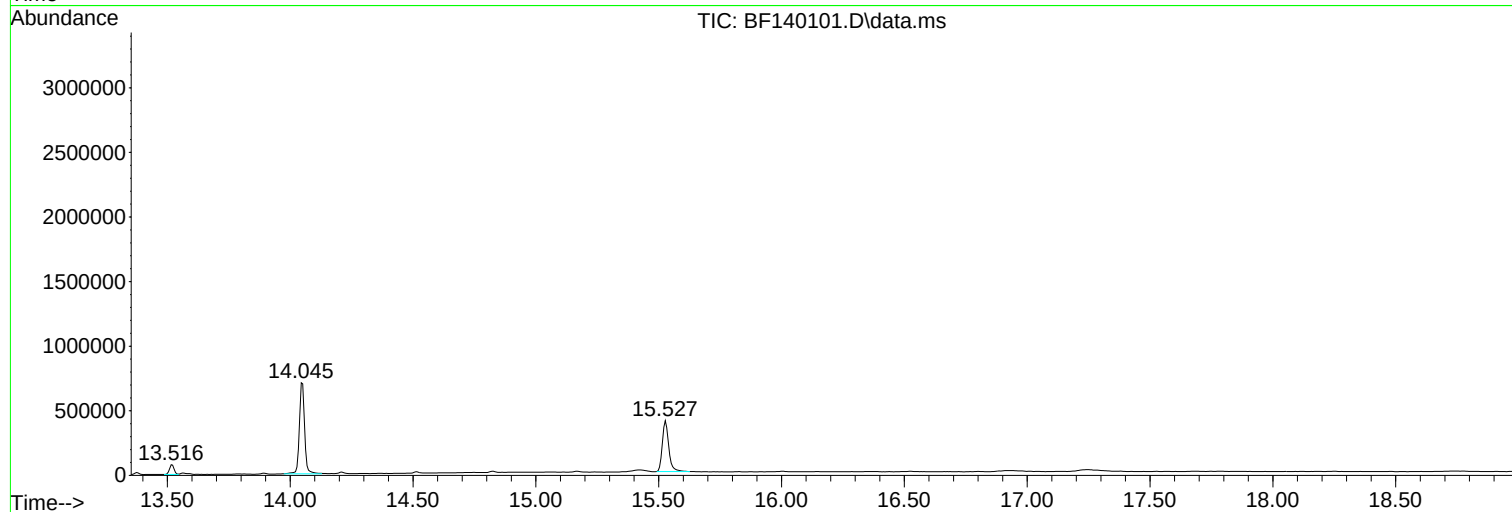
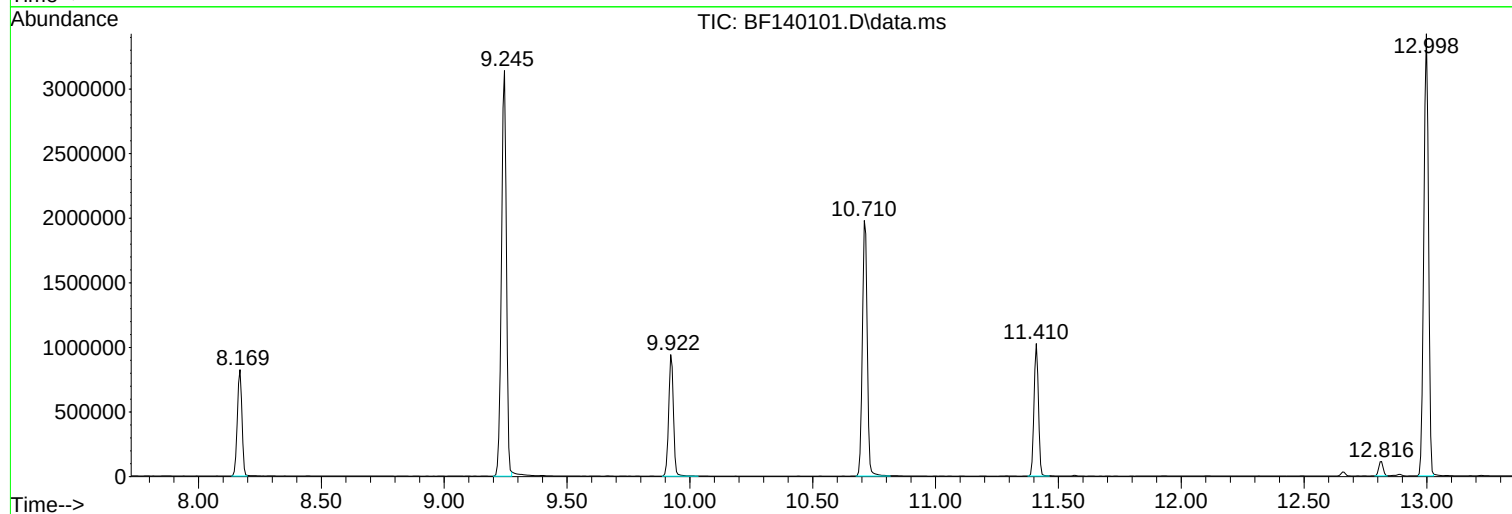
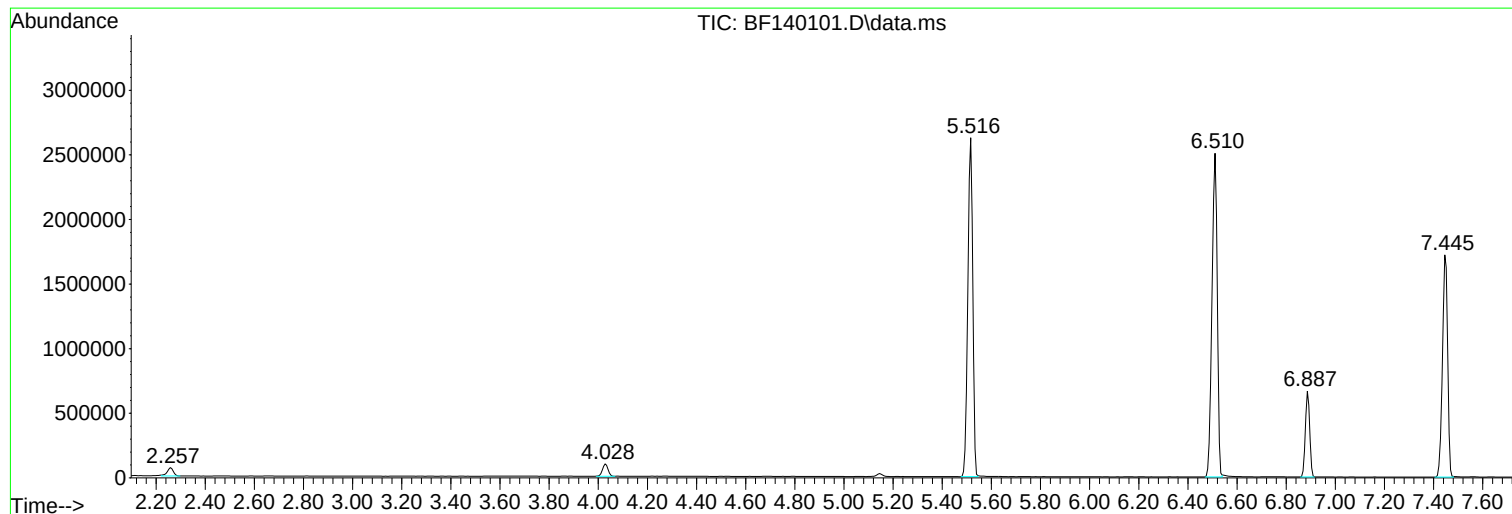
Sum of corrected areas: 28265616

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140101.D
Acq On : 29 Oct 2024 10:05
Operator : RC/JU
Sample : PB164461BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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\BF102924\
Data File : BF140101.D
Acq On : 29 Oct 2024 10:05
Operator : RC/JU
Sample : PB164461BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164461BL

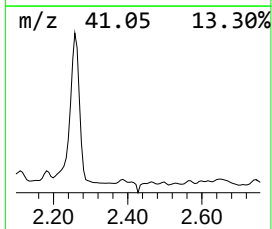
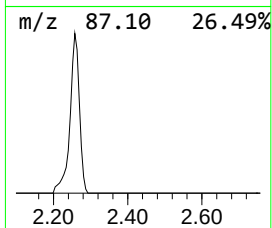
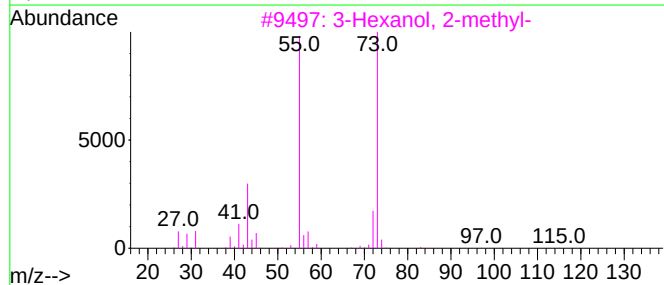
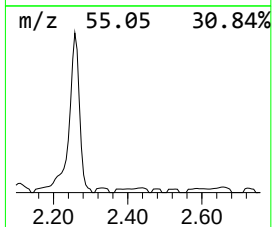
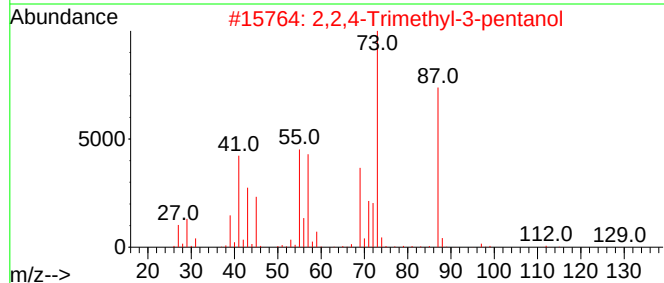
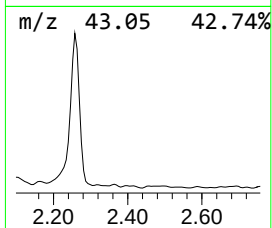
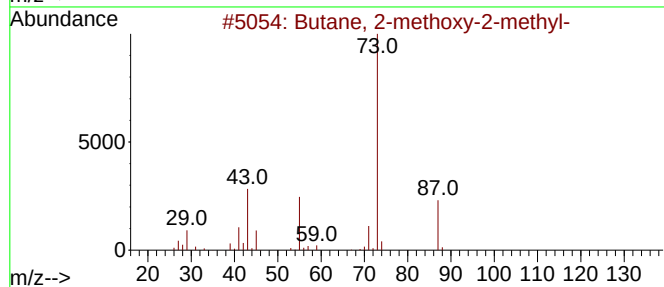
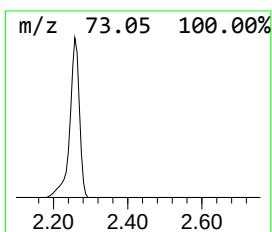
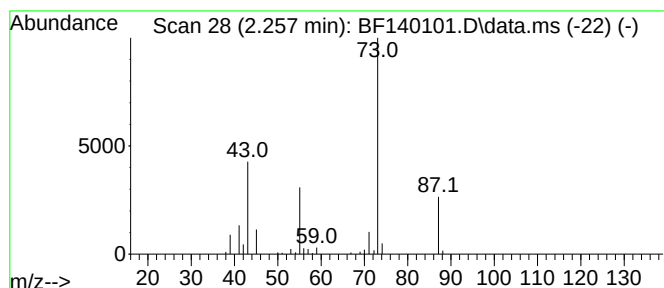
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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.
2.257	2.73 ng	110751	1,4-Dichlorobenzene-d4	6.887

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			Silane, tetramethyl-	88	C4H12Si	000075-76-3	25
5			Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140101.D
Acq On : 29 Oct 2024 10:05
Operator : RC/JU
Sample : PB164461BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

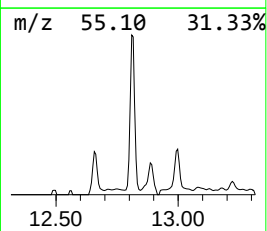
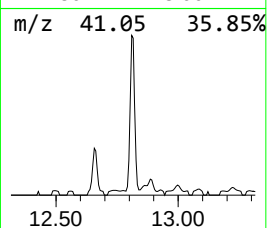
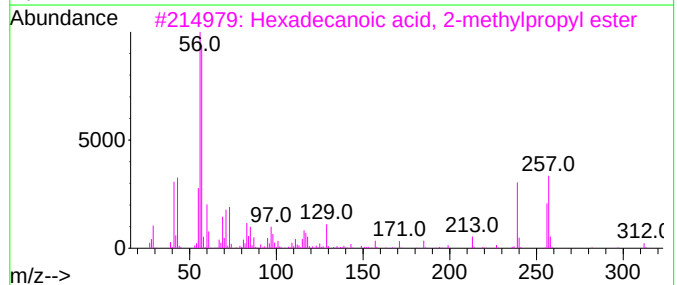
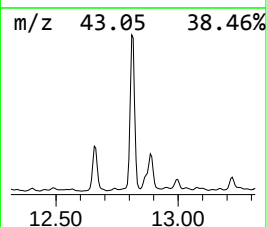
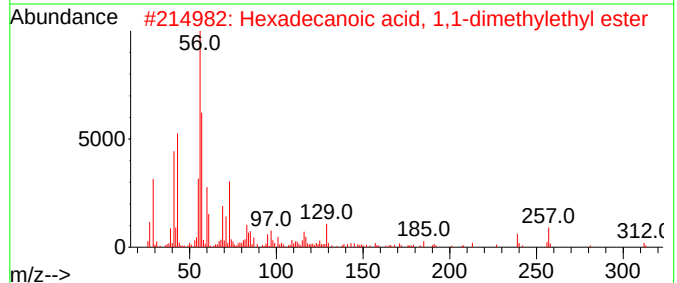
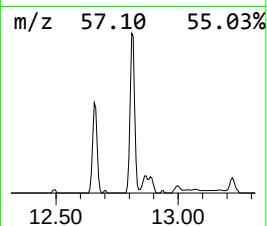
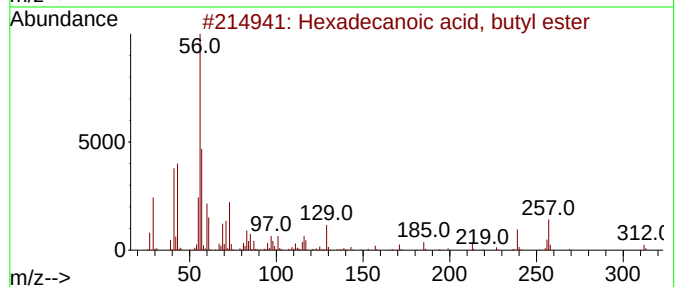
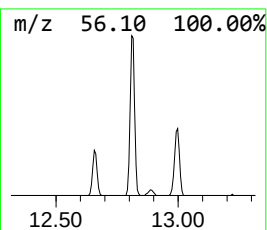
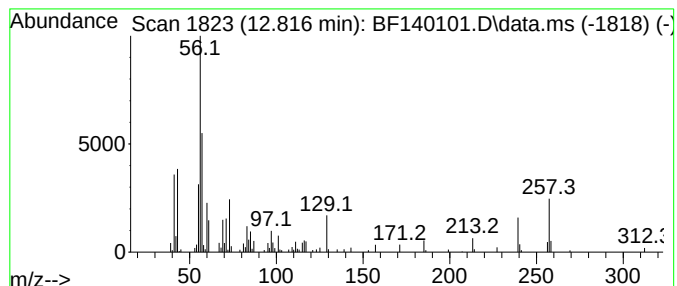
Instrument :
BNA_F
ClientSampleId :
PB164461BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 Hexadecanoic acid, butyl ester Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.816	2.69 ng	140421	Chrysene-d12	14.045	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanoic acid, butyl ester	312	C20H40O2	000111-06-8	99
2	Hexadecanoic acid, 1,1-dimethyle...	312	C20H40O2	031158-91-5	96
3	Hexadecanoic acid, 2-methylpropy...	312	C20H40O2	000110-34-9	91
4	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	30
5	Cyclohexanol, 4-amino-, trans-	115	C6H13NO	027489-62-9	30



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140101.D
Acq On : 29 Oct 2024 10:05
Operator : RC/JU
Sample : PB164461BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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...	2.257	2.7	ng	110751	1	6.887	811248	20.0
Hexadecanoic ac...	12.816	2.7	ng	140421	5	14.045	1043720	20.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164533BL	SDG No.:	P4578
Lab Sample ID:	PB164533BL	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
BE101426.D	1	10/30/24 08:50	10/31/24 10:57	PB164533

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:	PB164533BL	SDG No.:	P4578
Lab Sample ID:	PB164533BL	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
BE101426.D	1	10/30/24 08:50	10/31/24 10:57	PB164533

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:	PB164533BL	SDG No.:	P4578
Lab Sample ID:	PB164533BL	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
BE101426.D	1	10/30/24 08:50	10/31/24 10:57	PB164533

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	160		15 (10) - 110 (139)	107%	SPK: 150
13127-88-3	Phenol-d6	148		15 (10) - 110 (134)	99%	SPK: 150
4165-60-0	Nitrobenzene-d5	98.4		30 (49) - 130 (133)	98%	SPK: 100
321-60-8	2-Fluorobiphenyl	104		30 (52) - 130 (132)	104%	SPK: 100
118-79-6	2,4,6-Tribromophenol	150		15 (44) - 110 (137)	100%	SPK: 150
1718-51-0	Terphenyl-d14	89.9		30 (48) - 130 (125)	90%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	111000	7.567			
1146-65-2	Naphthalene-d8	479000	10.34			
15067-26-2	Acenaphthene-d10	322000	14.177			
1517-22-2	Phenanthrene-d10	765000	16.915			
1719-03-5	Chrysene-d12	978000	21.075			
1520-96-3	Perylene-d12	1300000	23.361			

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_E\Data\BE103124\
Data File : BE101426.D
Acq On : 31 Oct 2024 10:57
Operator : RC/JU
Sample : PB164533BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Quant Time: Oct 31 14:12:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.567	152	111412	20.000	ng	0.00
21) Naphthalene-d8	10.340	136	479387	20.000	ng	0.00
39) Acenaphthene-d10	14.177	164	322455	20.000	ng	0.00
64) Phenanthrene-d10	16.915	188	764639	20.000	ng	0.00
76) Chrysene-d12	21.075	240	978042	20.000	ng	0.00
86) Perylene-d12	23.361	264	1302952	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.317	112	1015593	159.767	ng	0.00
7) Phenol-d6	6.944	99	1307959	148.392	ng	0.00
23) Nitrobenzene-d5	8.783	82	750895	98.382	ng	0.00
42) 2,4,6-Tribromophenol	15.687	330	850212	150.437	ng	0.00
45) 2-Fluorobiphenyl	12.802	172	1974331	103.692	ng	0.00
79) Terphenyl-d14	19.512	244	3819837	89.889	ng	0.00

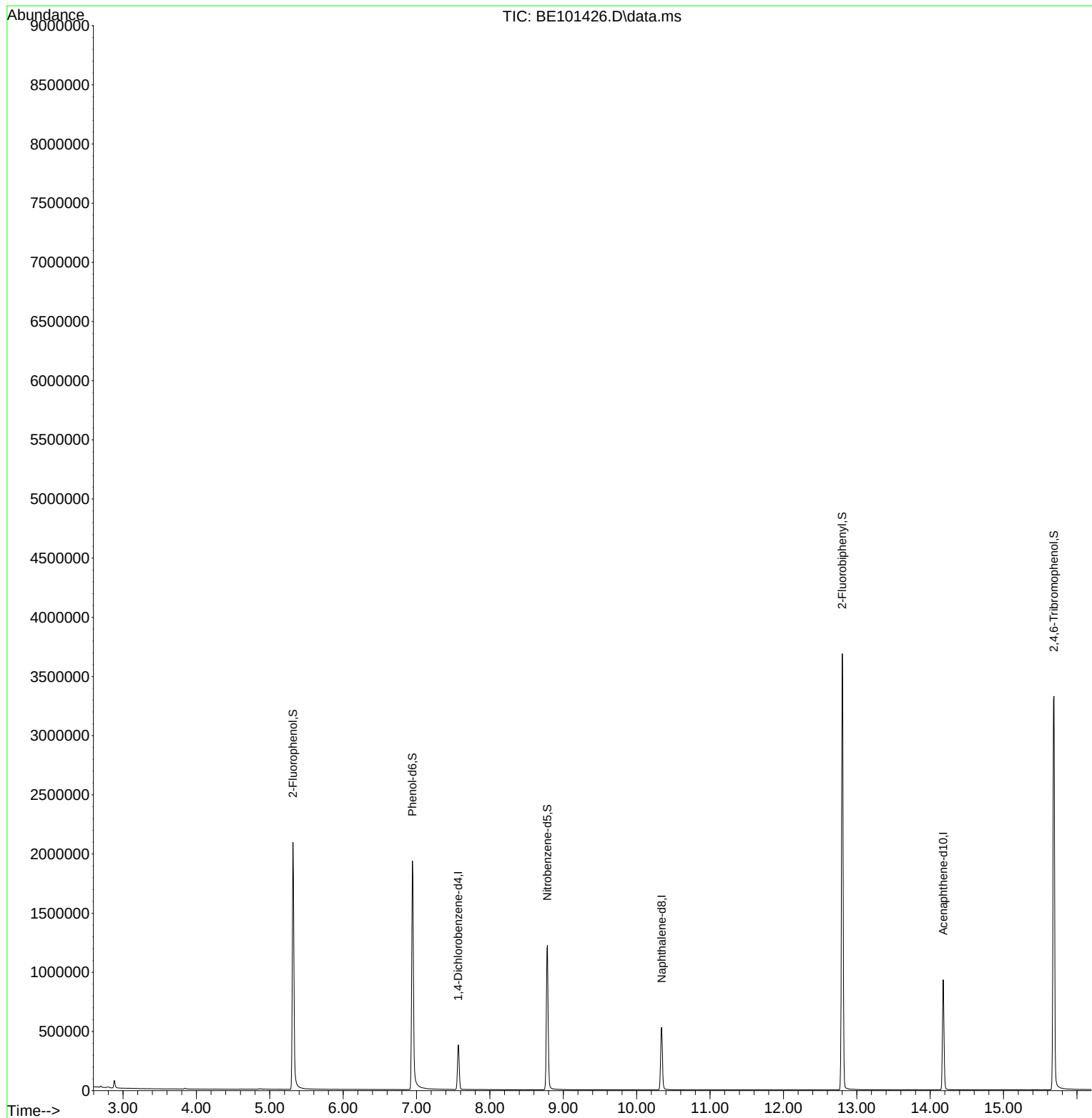
Target Compounds	Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101426.D
Acq On : 31 Oct 2024 10:57
Operator : RC/JU
Sample : PB164533BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164533BL

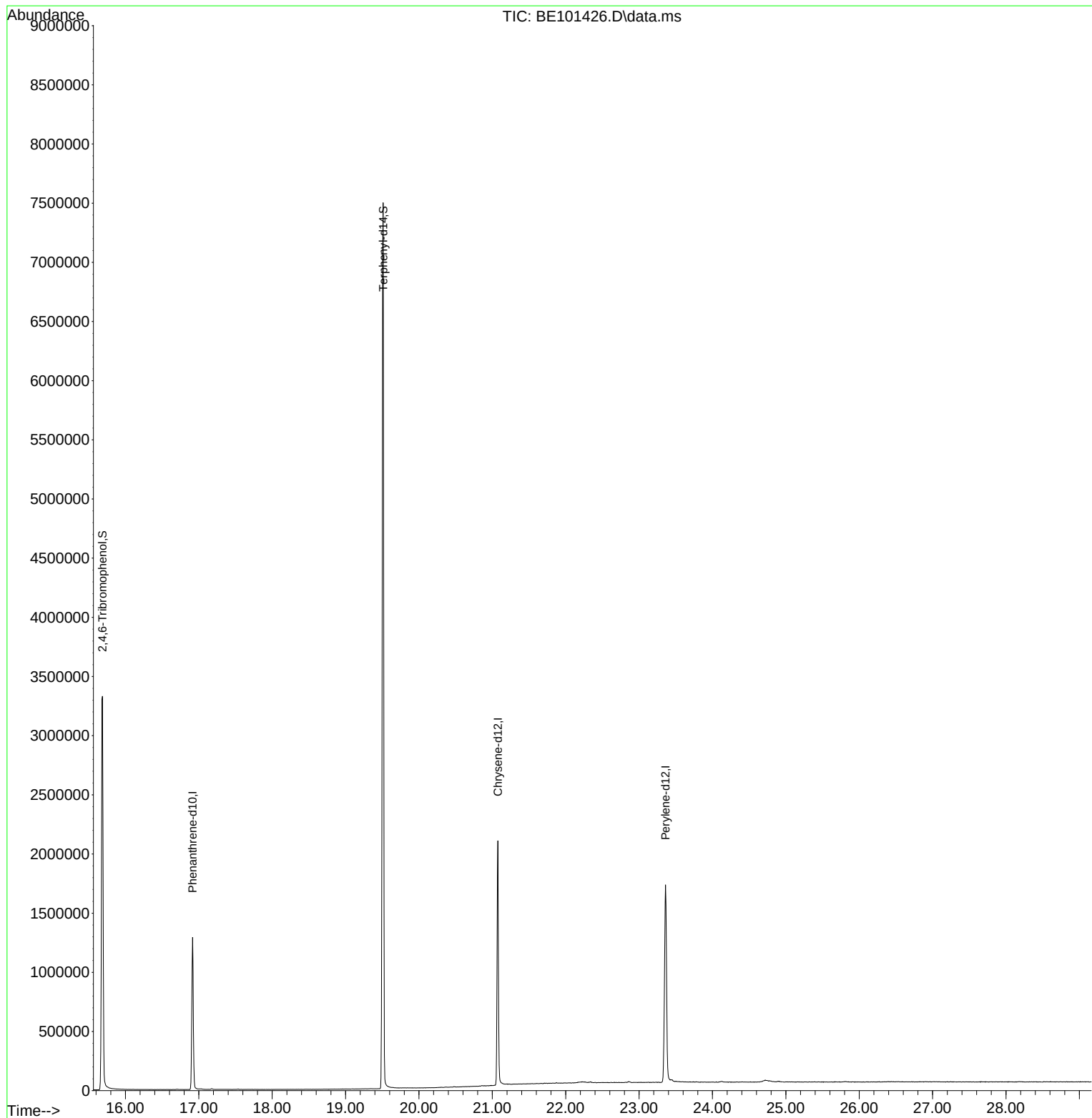
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

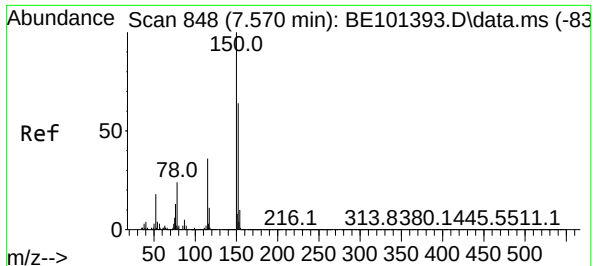


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Acq On : 31 Oct 2024 10:57
Operator : RC/JU
Sample : PB164533BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Quant Time: Oct 31 14:12:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

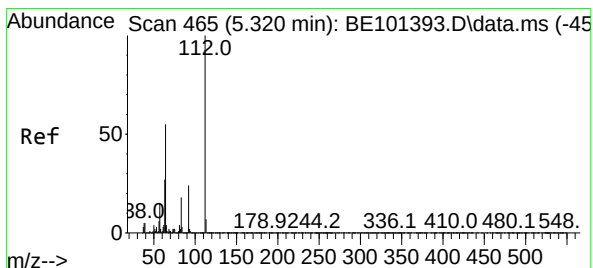
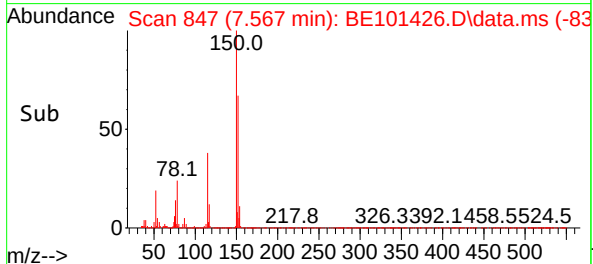
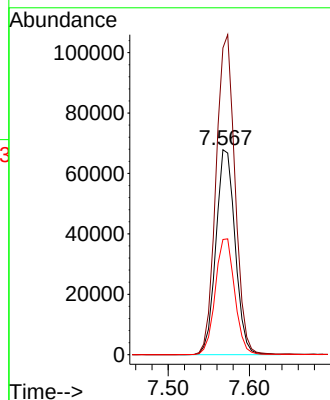
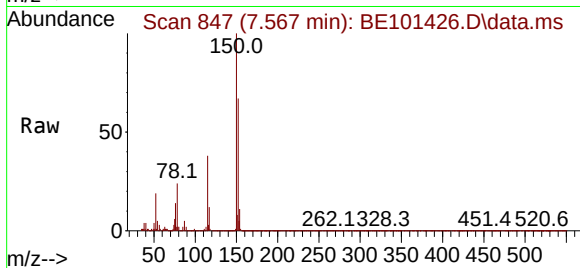




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.567 min Scan# 84
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

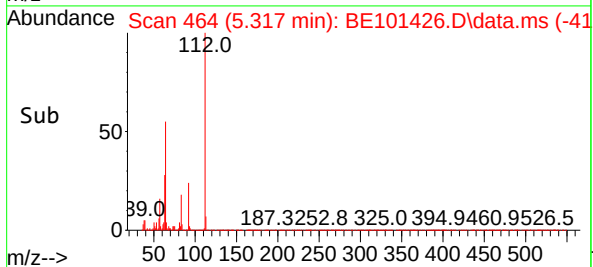
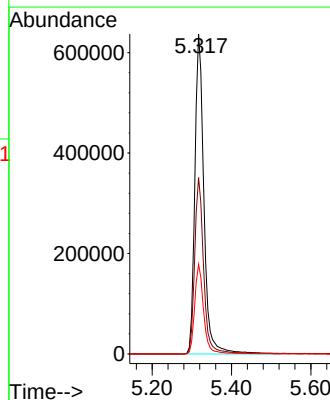
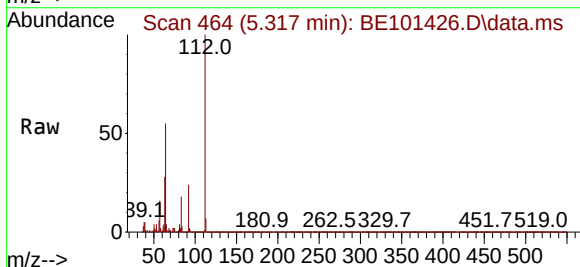
Instrument :
BNA_E
ClientSampleId :
PB164533BL

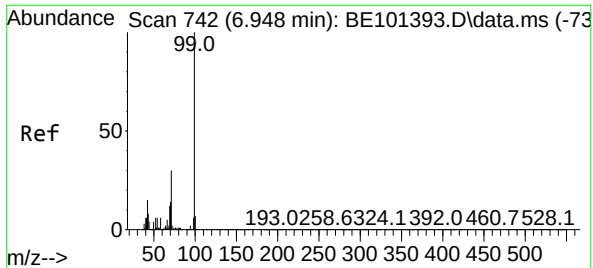
Tgt Ion:152 Resp: 111412
Ion Ratio Lower Upper
152 100
150 149.6 124.2 186.4
115 56.2 45.3 67.9



#5
2-Fluorophenol
Concen: 159.767 ng
RT: 5.317 min Scan# 464
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Tgt Ion:112 Resp: 1015593
Ion Ratio Lower Upper
112 100
64 55.1 43.7 65.5
63 28.0 21.4 32.2

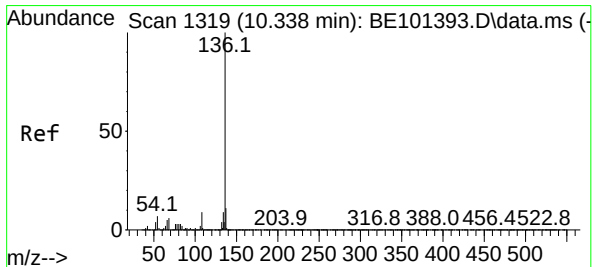
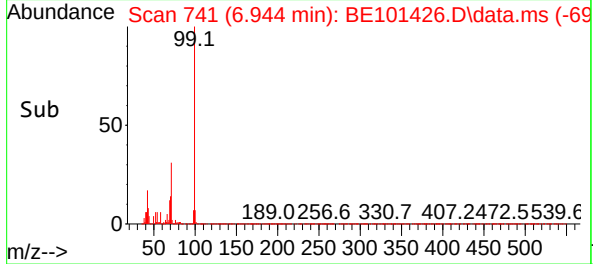
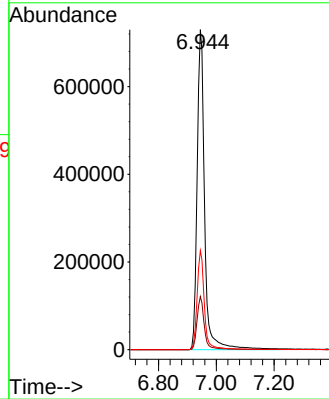
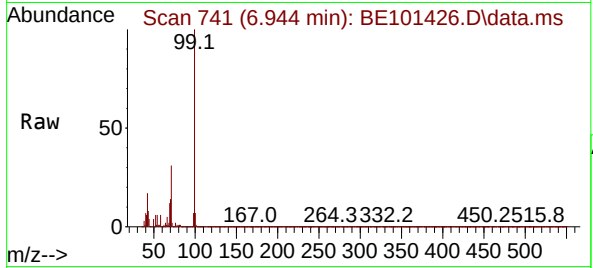




#7
Phenol-d6
Concen: 148.392 ng
RT: 6.944 min Scan# 741
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

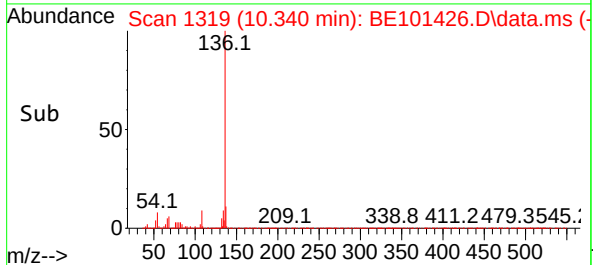
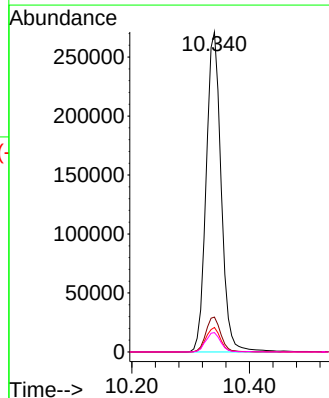
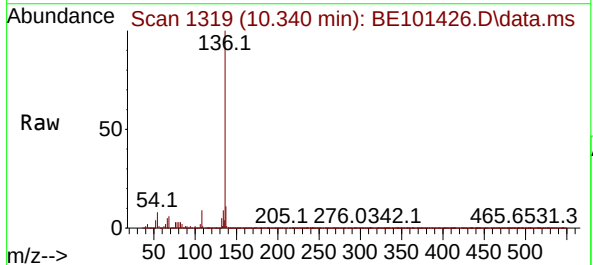
Instrument :
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ClientSampleId :
PB164533BL

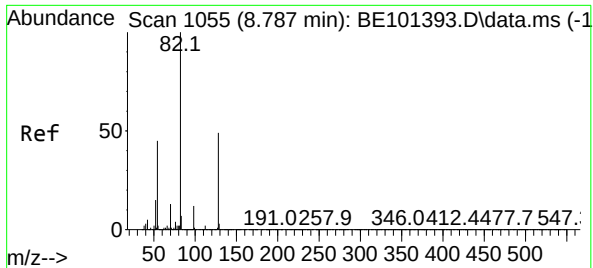
Tgt Ion: 99 Resp: 1307959
Ion Ratio Lower Upper
99 100
42 16.6 12.3 18.5
71 31.0 23.8 35.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.340 min Scan# 1319
Delta R.T. 0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Tgt Ion:136 Resp: 479387
Ion Ratio Lower Upper
136 100
137 10.9 9.0 13.6
54 7.6 5.9 8.9
68 6.0 4.8 7.2





#23

Nitrobenzene-d5

Concen: 98.382 ng

RT: 8.783 min Scan# 1054

Delta R.T. -0.003 min

Lab File: BE101426.D

Acq: 31 Oct 2024 10:57

Instrument :

BNA_E

ClientSampleId :

PB164533BL

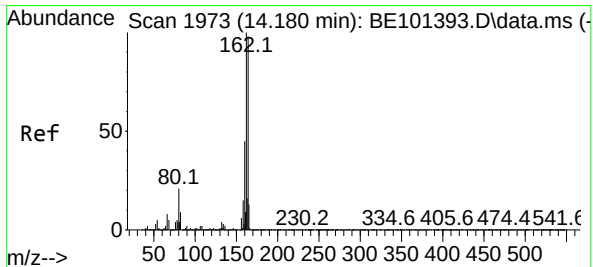
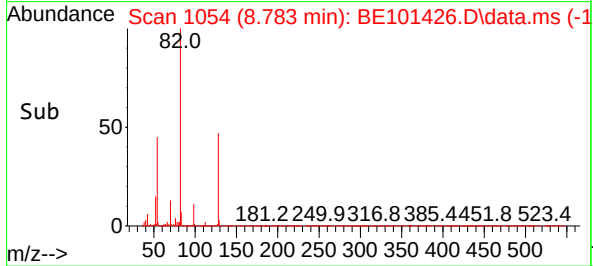
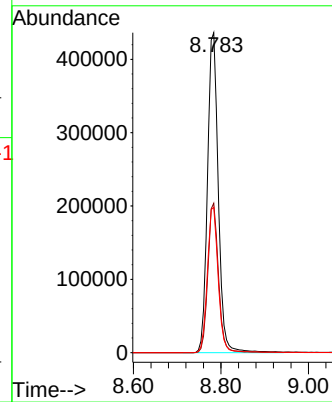
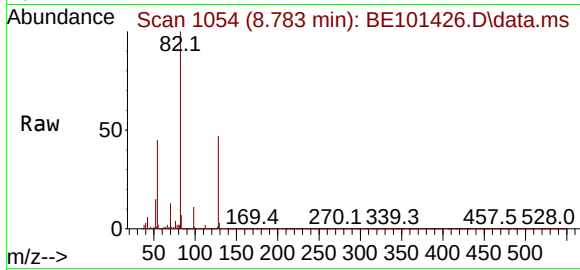
Tgt Ion: 82 Resp: 750895

Ion Ratio Lower Upper

82 100

128 46.7 38.9 58.3

54 45.5 36.2 54.4



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.177 min Scan# 1972

Delta R.T. -0.003 min

Lab File: BE101426.D

Acq: 31 Oct 2024 10:57

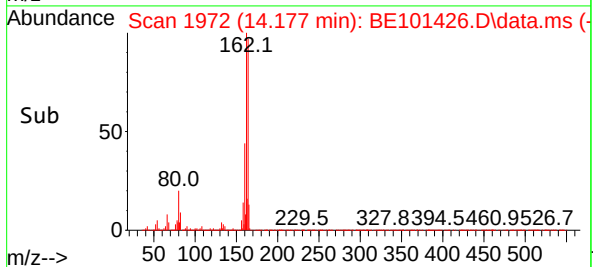
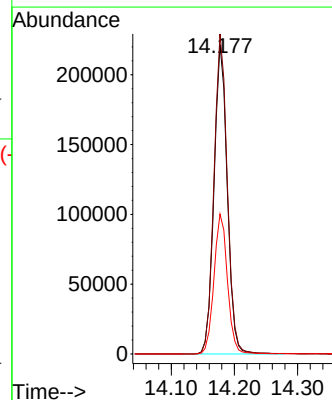
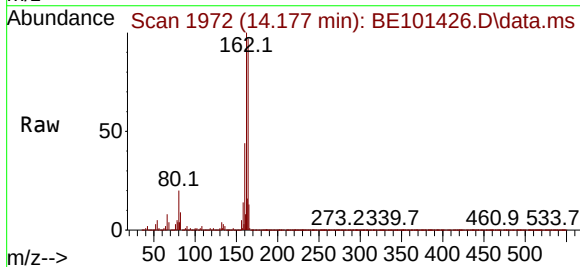
Tgt Ion: 164 Resp: 322455

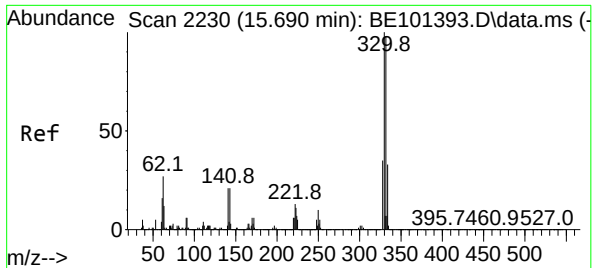
Ion Ratio Lower Upper

164 100

162 103.4 81.3 121.9

160 45.2 36.4 54.6

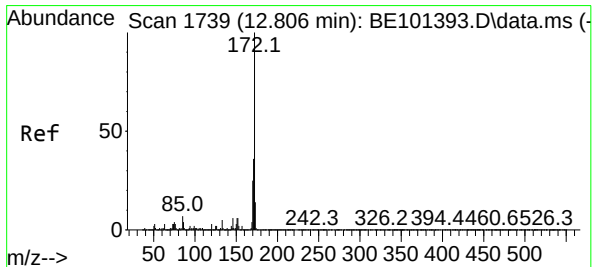
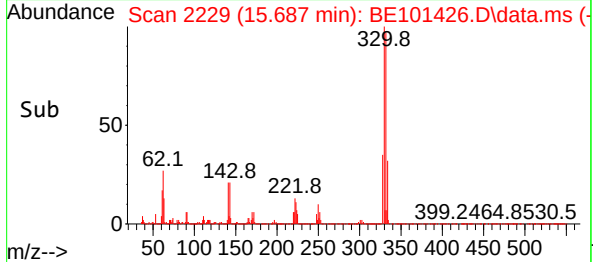
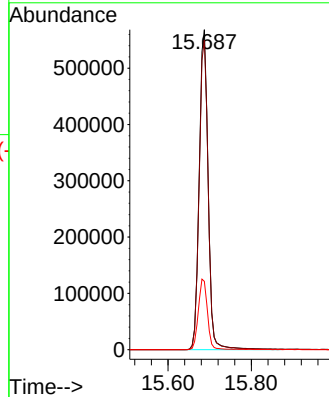
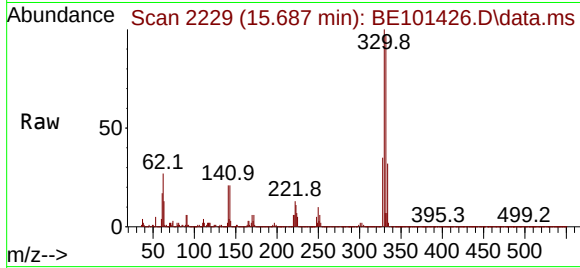




#42
2,4,6-Tribromophenol
Concen: 150.437 ng
RT: 15.687 min Scan# 211
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

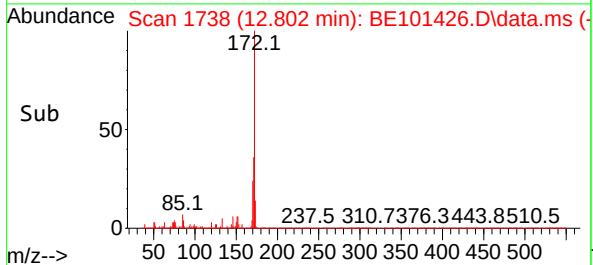
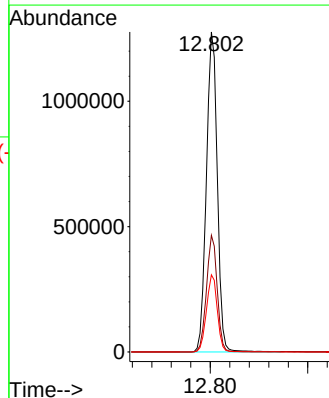
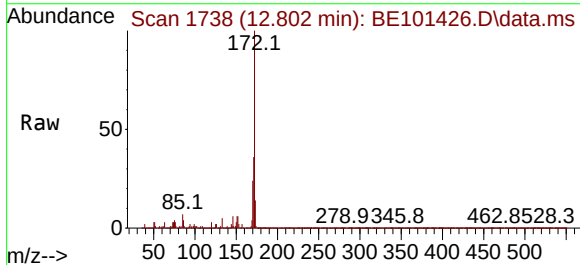
Instrument :
BNA_E
ClientSampleId :
PB164533BL

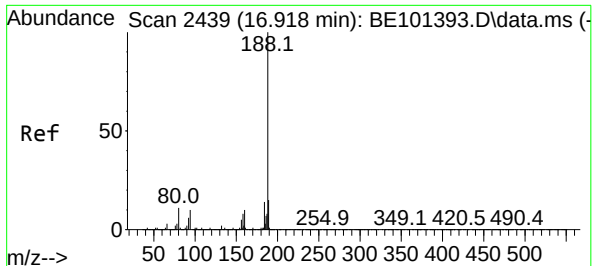
Tgt Ion:330 Resp: 850212
Ion Ratio Lower Upper
330 100
332 97.7 78.2 117.2
141 22.7 18.3 27.5



#45
2-Fluorobiphenyl
Concen: 103.692 ng
RT: 12.802 min Scan# 1738
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Tgt Ion:172 Resp: 1974331
Ion Ratio Lower Upper
172 100
171 36.5 29.2 43.8
170 24.1 19.8 29.6

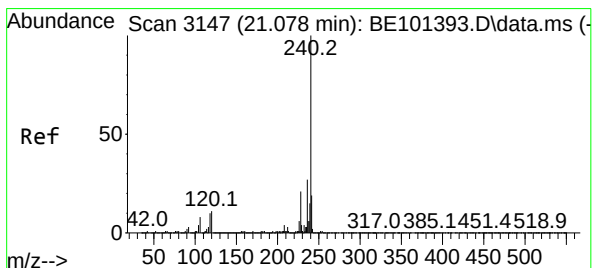
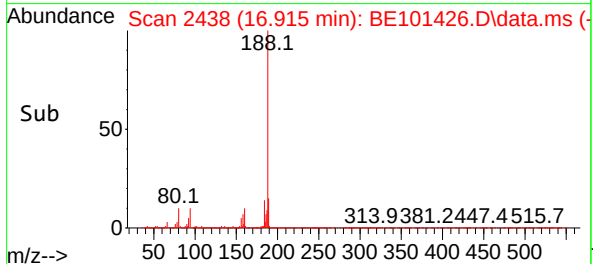
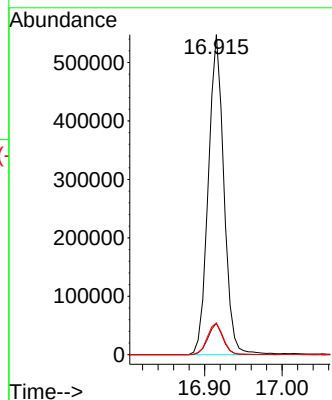
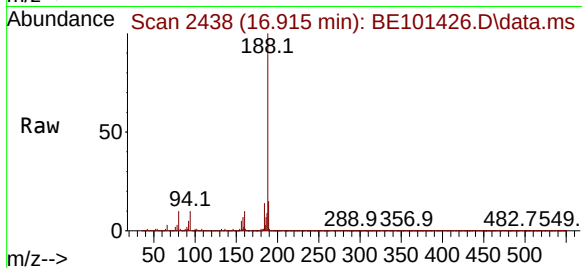




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.915 min Scan# 2439
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

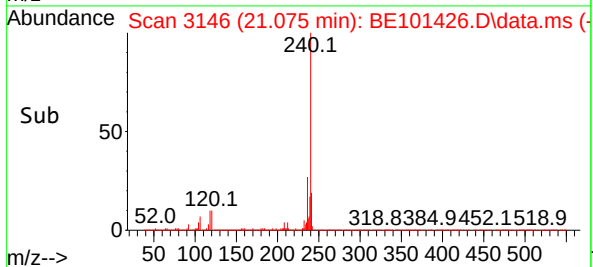
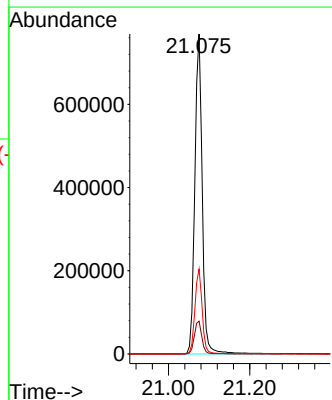
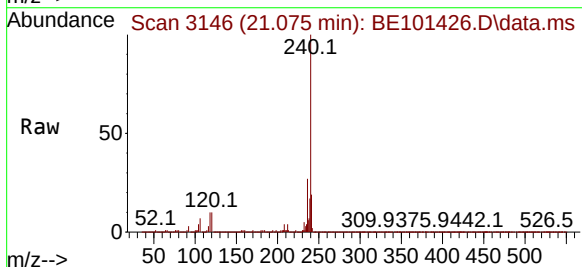
Instrument :
BNA_E
ClientSampleId :
PB164533BL

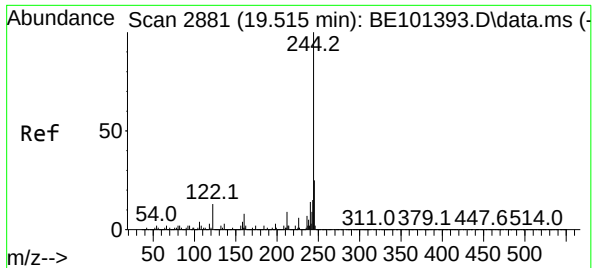
Tgt Ion:188 Resp: 764639
Ion Ratio Lower Upper
188 100
94 9.8 7.8 11.8
80 9.9 8.6 12.8



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.075 min Scan# 3146
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Tgt Ion:240 Resp: 978042
Ion Ratio Lower Upper
240 100
120 10.3 9.0 13.4
236 26.5 21.4 32.0

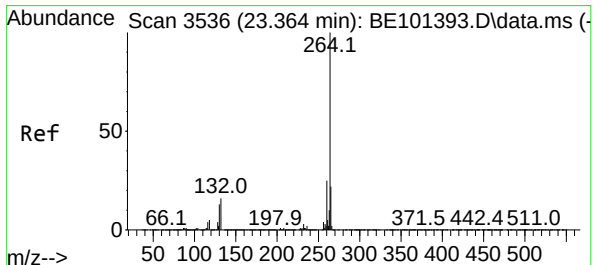
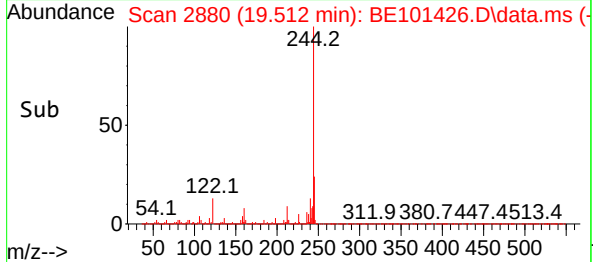
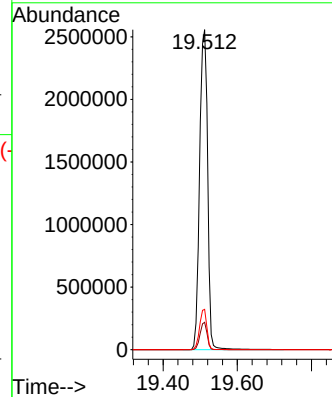
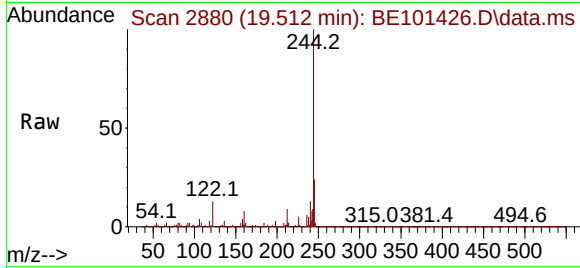




#79
Terphenyl-d14
Concen: 89.889 ng
RT: 19.512 min Scan# 2880
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

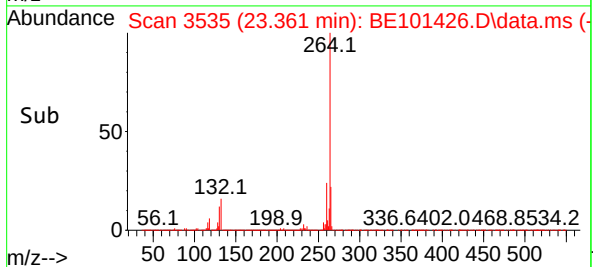
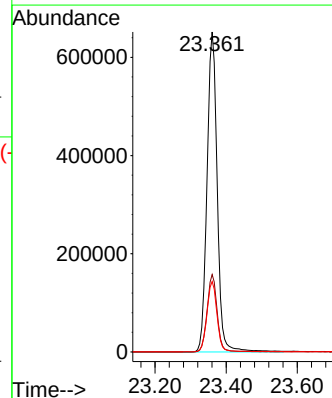
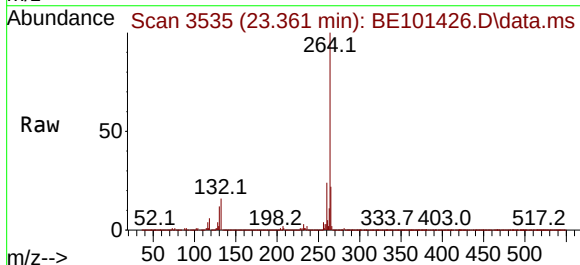
Instrument :
BNA_E
ClientSampleId :
PB164533BL

Tgt Ion:244 Resp: 3819837
Ion Ratio Lower Upper
244 100
212 8.6 7.2 10.8
122 12.6 10.4 15.6



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.361 min Scan# 3535
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Tgt Ion:264 Resp: 1302952
Ion Ratio Lower Upper
264 100
260 24.2 19.8 29.8
265 22.0 17.6 26.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101426.D
Acq On : 31 Oct 2024 10:57
Operator : RC/JU
Sample : PB164533BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164533BL

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_E\Methods\8270-BE102824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BE101426.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.317	458	464	496	rBV	2087337	3291924	31.49%	8.061%
2	6.944	734	741	782	rBV	1934783	3476026	33.25%	8.511%
3	7.573	838	848	858	rBV	377109	626690	5.99%	1.535%
4	8.783	1045	1054	1078	rBV	1223310	2123328	20.31%	5.199%
5	10.340	1311	1319	1340	rBV	529149	937626	8.97%	2.296%
6	12.802	1730	1738	1759	rBV	3686589	5627324	53.83%	13.779%
7	14.177	1965	1972	1984	rBV	931398	1369332	13.10%	3.353%
8	15.687	2220	2229	2260	rBV	3326740	5202581	49.76%	12.739%
9	16.915	2431	2438	2452	rBV	1288833	1813390	17.35%	4.440%
10	19.512	2873	2880	2902	rBV	7487309	10454738	100.00%	25.599%
11	21.075	3140	3146	3164	rBV	2066648	2649913	25.35%	6.489%
12	23.361	3527	3535	3546	rBV	1667724	3266984	31.25%	7.999%

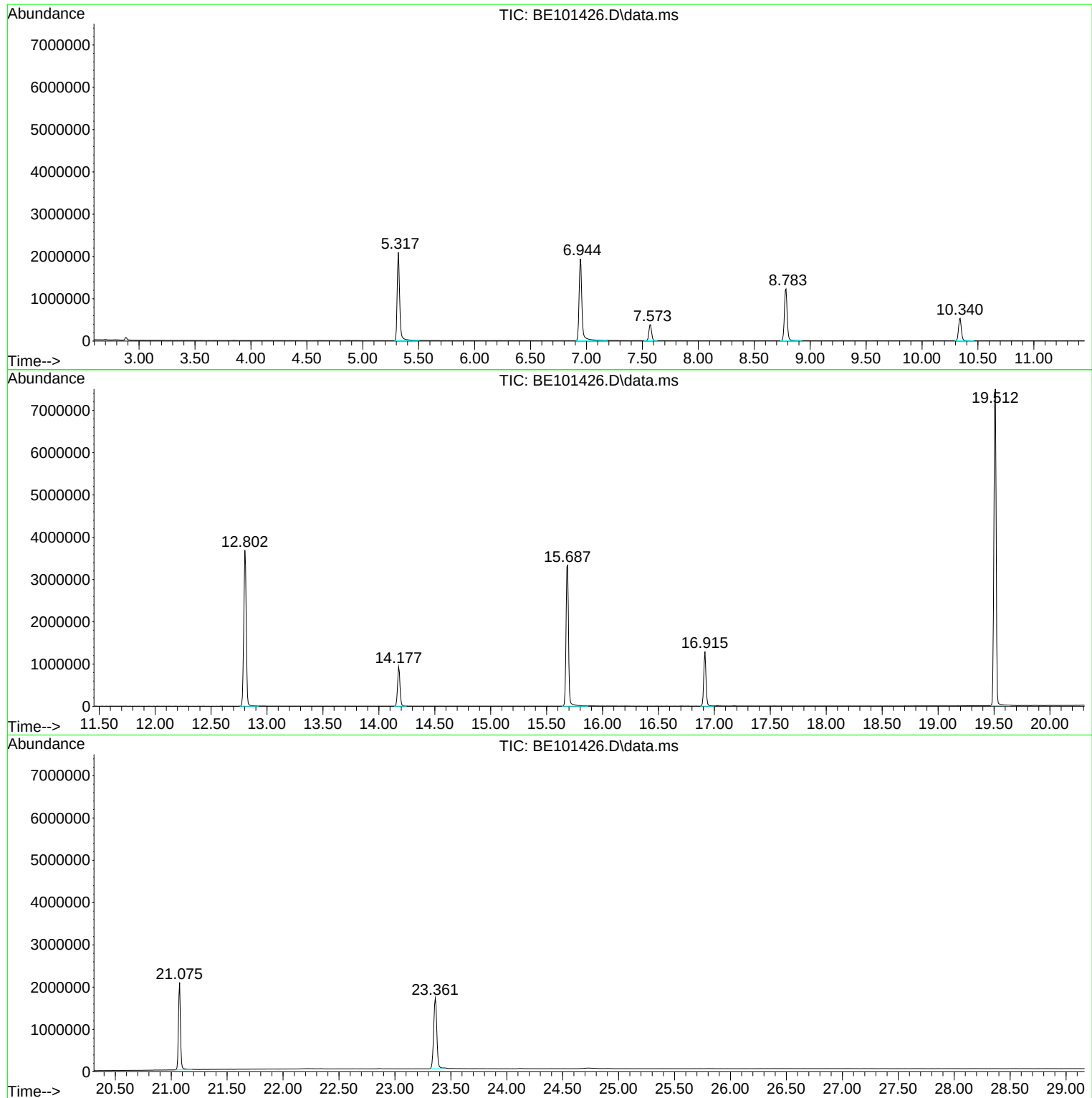
Sum of corrected areas: 40839856

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101426.D
Acq On : 31 Oct 2024 10:57
Operator : RC/JU
Sample : PB164533BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.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_E\Data\BE103124\
Data File : BE101426.D
Acq On : 31 Oct 2024 10:57
Operator : RC/JU
Sample : PB164533BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

No Library Search Compounds Detected

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101426.D
Acq On : 31 Oct 2024 10:57
Operator : RC/JU
Sample : PB164533BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.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	#	RT	Resp	Conc

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164461BS	SDG No.:	P4578
Lab Sample ID:	PB164461BS	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
BF140102.D	1	10/28/24 09:00	10/29/24 10:33	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	420		180	330	ug/Kg
108-95-2	Phenol	1500		82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		83.6	170	ug/Kg
95-57-8	2-Chlorophenol	1500		83.4	170	ug/Kg
95-48-7	2-Methylphenol	1500		80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		90.8	170	ug/Kg
98-86-2	Acetophenone	1400		86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	1400		79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	1500		82.9	170	ug/Kg
98-95-3	Nitrobenzene	1400		90.7	170	ug/Kg
78-59-1	Isophorone	1500		84.5	170	ug/Kg
88-75-5	2-Nitrophenol	1800		94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		75.4	170	ug/Kg
91-20-3	Naphthalene	1400		82.5	170	ug/Kg
106-47-8	4-Chloroaniline	550		82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		83.2	170	ug/Kg
105-60-2	Caprolactam	1600		86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1500		82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	5600	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		71.3	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		73.9	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		83.2	170	ug/Kg
88-74-4	2-Nitroaniline	1700		94.9	170	ug/Kg
131-11-3	Dimethylphthalate	1500		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:	PB164461BS	SDG No.:	P4578
Lab Sample ID:	PB164461BS	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
BF140102.D	1	10/28/24 09:00	10/29/24 10:33	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.1	170	ug/Kg
99-09-2	3-Nitroaniline	960		89.1	170	ug/Kg
83-32-9	Acenaphthene	1700		81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	4300	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3300	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1500		84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		86.1	170	ug/Kg
84-66-2	Diethylphthalate	1500		80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		85.5	170	ug/Kg
86-73-7	Fluorene	1500		85.4	170	ug/Kg
100-01-6	4-Nitroaniline	1700		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2200		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1500		78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1500		84.9	170	ug/Kg
1912-24-9	Atrazine	1800		91.3	170	ug/Kg
87-86-5	Pentachlorophenol	3100	E	77.2	330	ug/Kg
85-01-8	Phenanthrene	1500		83.9	170	ug/Kg
120-12-7	Anthracene	1600		84.3	170	ug/Kg
86-74-8	Carbazole	1500		80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1600		84.2	170	ug/Kg
206-44-0	Fluoranthene	1500		81.6	170	ug/Kg
129-00-0	Pyrene	1600		82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	1900		96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1000		98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	1600		80.6	170	ug/Kg
218-01-9	Chrysene	1500		79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2000		90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1500		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		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:	PB164461BS	SDG No.:	P4578
Lab Sample ID:	PB164461BS	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
BF140102.D	1	10/28/24 09:00	10/29/24 10:33	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	1700		92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		86.7	170	ug/Kg
123-91-1	1,4-Dioxane	1100		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		74.6	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	122		30 (18) - 130 (112)	81%	SPK: 150
13127-88-3	Phenol-d6	119		30 (15) - 130 (107)	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.1		30 (18) - 130 (107)	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.6		30 (20) - 130 (109)	88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	144		30 (10) - 130 (116)	96%	SPK: 150
1718-51-0	Terphenyl-d14	100		30 (10) - 130 (105)	100%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	127000	6.887			
1146-65-2	Naphthalene-d8	501000	8.169			
15067-26-2	Acenaphthene-d10	278000	9.928			
1517-22-2	Phenanthrene-d10	514000	11.416			
1719-03-5	Chrysene-d12	266000	14.051			
1520-96-3	Perylene-d12	256000	15.527			

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\BF102924\
 Data File : BF140102.D
 Acq On : 29 Oct 2024 10:33
 Operator : RC/JU
 Sample : PB164461BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PB164461BS

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
 Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 29 11:35:02 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	127430	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	500801	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	278385	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	513541	20.000	ng	0.00
76) Chrysene-d12	14.051	240	266065	20.000	ng	0.00
86) Perylene-d12	15.527	264	256361	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	993671	122.073	ng	0.02
7) Phenol-d6	6.516	99	1259140	119.434	ng	0.00
23) Nitrobenzene-d5	7.451	82	832307	92.111	ng	0.00
42) 2,4,6-Tribromophenol	10.722	330	375298	144.128	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1475257	87.582	ng	0.00
79) Terphenyl-d14	12.998	244	1640280	100.457	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.769	88	129062	34.006	ng	97
3) Pyridine	3.528	79	345549	36.732	ng	99
4) n-Nitrosodimethylamine	3.475	42	200636	39.696	ng	99
6) Aniline	6.551	93	373487	38.012	ng	100
8) 2-Chlorophenol	6.675	128	380367	45.709	ng	98
9) Benzaldehyde	6.440	77	75532	12.736	ng	97
10) Phenol	6.528	94	485856m	44.702	ng	
11) bis(2-Chloroethyl)ether	6.622	93	374078	44.529	ng	99
12) 1,3-Dichlorobenzene	6.828	146	411835	43.113	ng	99
13) 1,4-Dichlorobenzene	6.904	146	412401	43.213	ng	99
14) 1,2-Dichlorobenzene	7.057	146	399868	44.894	ng	99
15) Benzyl Alcohol	7.028	79	357866	46.276	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	631415	44.079	ng	98
17) 2-Methylphenol	7.140	107	318963	44.951	ng	98
18) Hexachloroethane	7.404	117	150509	44.226	ng	96
19) n-Nitroso-di-n-propyla...	7.304	70	279877	43.772	ng	96
20) 3+4-Methylphenols	7.293	107	390148	42.987	ng	# 76
22) Acetophenone	7.298	105	528314	43.071	ng	99
24) Nitrobenzene	7.469	77	428354	43.238	ng	99
25) Isophorone	7.710	82	767951	44.778	ng	99
26) 2-Nitrophenol	7.787	139	200360	53.609	ng	97
27) 2,4-Dimethylphenol	7.822	122	321436	51.579	ng	98
28) bis(2-Chloroethoxy)met...	7.916	93	456565	43.940	ng	100
29) 2,4-Dichlorophenol	8.028	162	320640	45.171	ng	99
30) 1,2,4-Trichlorobenzene	8.110	180	333493	42.459	ng	99
31) Naphthalene	8.192	128	1112457	43.071	ng	99
32) Benzoic acid	7.934	122	240344	44.218	ng	98
33) 4-Chloroaniline	8.234	127	146520	16.637	ng	99
34) Hexachlorobutadiene	8.310	225	217159	44.004	ng	99
35) Caprolactam	8.610	113	106047m	46.985	ng	
36) 4-Chloro-3-methylphenol	8.716	107	360311	45.842	ng	99
37) 2-Methylnaphthalene	8.886	142	710773	44.934	ng	100
38) 1-Methylnaphthalene	8.986	142	654008	42.141	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	336224	44.768	ng	99
41) Hexachlorocyclopentadiene	9.039	237	437928	167.579	ng	99
43) 2,4,6-Trichlorophenol	9.157	196	248514	46.737	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
 Data File : BF140102.D
 Acq On : 29 Oct 2024 10:33
 Operator : RC/JU
 Sample : PB164461BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PB164461BS

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
 Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 29 11:35:02 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	253928	46.287	ng	98
46) 1,1'-Biphenyl	9.351	154	857279	44.236	ng	99
47) 2-Chloronaphthalene	9.375	162	685431	43.914	ng	100
48) 2-Nitroaniline	9.469	65	242126	50.720	ng	94
49) Acenaphthylene	9.792	152	1071550	47.486	ng	100
50) Dimethylphthalate	9.651	163	796125	45.913	ng	100
51) 2,6-Dinitrotoluene	9.710	165	177248	47.210	ng	98
52) Acenaphthene	9.963	154	750474	51.411	ng	100
53) 3-Nitroaniline	9.875	138	112113	28.957	ng	99
54) 2,4-Dinitrophenol	9.986	184	205710	127.641	ng	# 1
55) Dibenzofuran	10.133	168	949974	45.358	ng	100
56) 4-Nitrophenol	10.034	139	297830	99.985	ng	96
57) 2,4-Dinitrotoluene	10.116	165	245903	53.260	ng	98
58) Fluorene	10.475	166	725048	45.452	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	214271	49.823	ng	98
60) Diethylphthalate	10.351	149	779453	45.782	ng	100
61) 4-Chlorophenyl-phenyle...	10.469	204	371429	46.107	ng	99
62) 4-Nitroaniline	10.492	138	183008	50.047	ng	98
63) Azobenzene	10.628	77	805434	44.623	ng	99
65) 4,6-Dinitro-2-methylph...	10.522	198	141178	67.397	ng	93
66) n-Nitrosodiphenylamine	10.586	169	677802	44.099	ng	100
67) 4-Bromophenyl-phenylether	10.957	248	235997	44.608	ng	97
68) Hexachlorobenzene	11.022	284	264678	44.484	ng	100
69) Atrazine	11.110	200	227268	54.585	ng	98
70) Pentachlorophenol	11.216	266	333392	92.325	ng	99
71) Phenanthrene	11.439	178	1081706	44.593	ng	100
72) Anthracene	11.492	178	1118559	47.261	ng	100
73) Carbazole	11.645	167	980816	44.559	ng	100
74) Di-n-butylphthalate	11.975	149	1192125	46.878	ng	99
75) Fluoranthene	12.627	202	1132991	46.202	ng	99
77) Benzidine	12.745	184	179073	40.931	ng	99
78) Pyrene	12.857	202	1137589	48.846	ng	100
80) Butylbenzylphthalate	13.469	149	402746	57.681	ng	100
81) Benzo(a)anthracene	14.039	228	841427	48.581	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	157179	31.125	ng	98
83) Chrysene	14.080	228	734528	46.254	ng	99
84) Bis(2-ethylhexyl)phtha...	14.027	149	461897	58.963	ng	100
85) Di-n-octyl phthalate	14.639	149	650652	45.664	ng	97
87) Indeno(1,2,3-cd)pyrene	17.033	276	815498	49.447	ng	98
88) Benzo(b)fluoranthene	15.098	252	697670	44.675	ng	100
89) Benzo(k)fluoranthene	15.127	252	656050	48.712	ng	100
90) Benzo(a)pyrene	15.468	252	648512	50.469	ng	99
91) Dibenzo(a,h)anthracene	17.051	278	662425	48.147	ng	99
92) Benzo(g,h,i)perylene	17.486	276	627022	45.626	ng	99

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

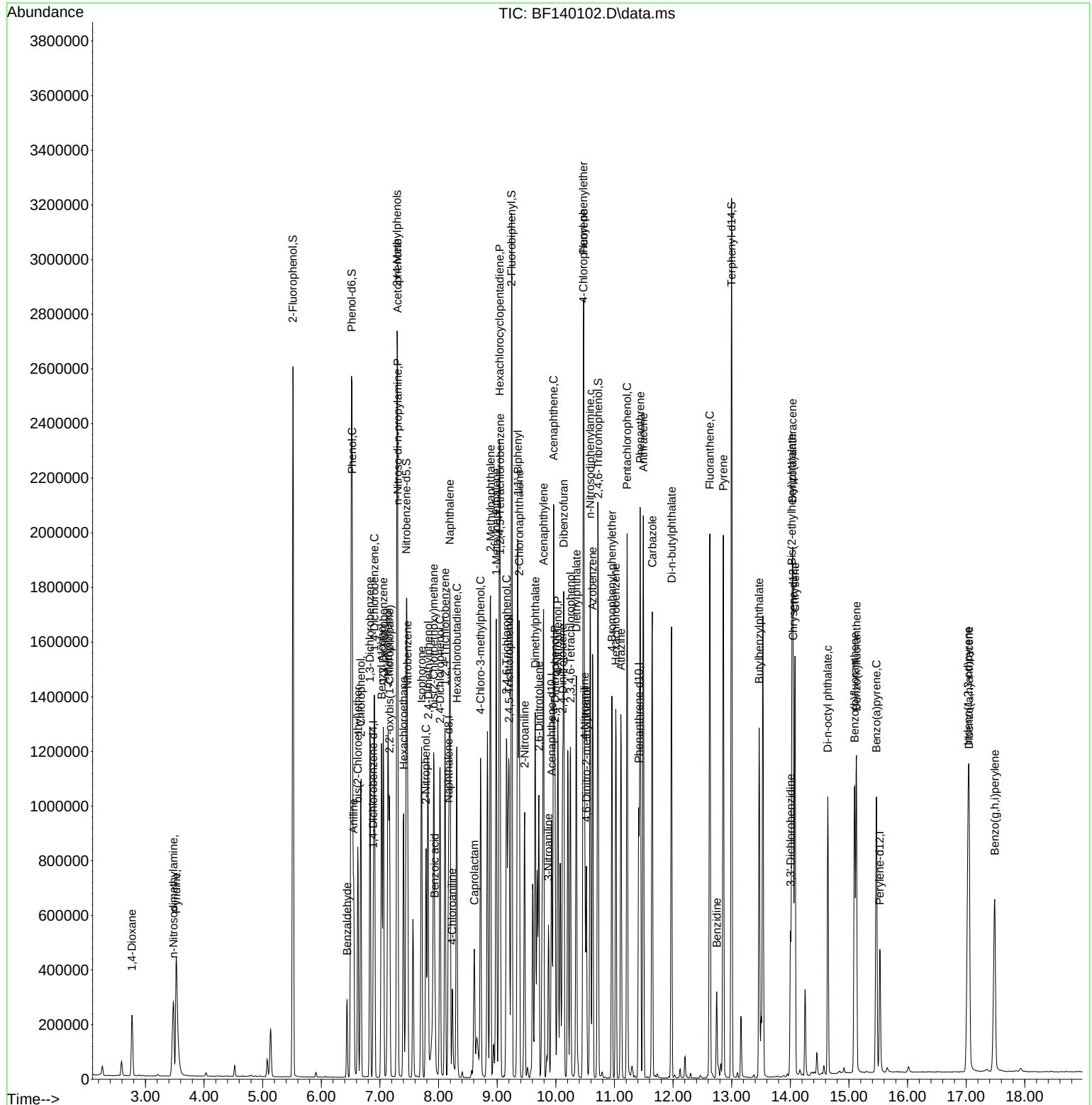
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\  
Data File : BF140102.D  
Acq On    : 29 Oct 2024  10:33  
Operator  : RC/JU  
Sample    : PB164461BS  
Misc      :  
ALS Vial  : 4    Sample Multiplier: 1
```

Instrument :
BNA_F
ClientSampleId :
PB164461BS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 29 11:35:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 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:	PB164533BS	SDG No.:	P4578
Lab Sample ID:	PB164533BS	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
BE101427.D	1	10/30/24 08:50	10/31/24 11:33	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	11.3		4.00	10.0	ug/L
108-95-2	Phenol	53.6		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	44.7		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	51.9		0.71	5.00	ug/L
95-48-7	2-Methylphenol	49.8		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	49.2		1.40	5.00	ug/L
98-86-2	Acetophenone	46.8		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	49.1		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	47.2		1.50	2.50	ug/L
67-72-1	Hexachloroethane	47.3		1.00	5.00	ug/L
98-95-3	Nitrobenzene	45.9		1.30	5.00	ug/L
78-59-1	Isophorone	46.2		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	50.7		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	60.5		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	47.8		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	50.9		0.88	5.00	ug/L
91-20-3	Naphthalene	45.8		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	33.1		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	46.5		1.30	5.00	ug/L
105-60-2	Caprolactam	43.5		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	45.1		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	45.9		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	200	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	52.0		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	49.8		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	47.9		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	47.3		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	51.8		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	47.7		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:	PB164533BS	SDG No.:	P4578
Lab Sample ID:	PB164533BS	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
BE101427.D	1	10/30/24 08:50	10/31/24 11:33	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	51.2		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	46.1		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	37.3		1.40	5.00	ug/L
83-32-9	Acenaphthene	48.4		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	82.1	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	100	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	48.1		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	48.6		1.50	5.00	ug/L
84-66-2	Diethylphthalate	47.4		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	46.8		0.98	5.00	ug/L
86-73-7	Fluorene	47.2		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	47.0		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.1		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	49.3		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	47.3		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	46.9		1.10	5.00	ug/L
1912-24-9	Atrazine	61.2		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	100	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	49.7		0.89	5.00	ug/L
120-12-7	Anthracene	52.6		1.10	5.00	ug/L
86-74-8	Carbazole	48.6		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	51.0		1.50	5.00	ug/L
206-44-0	Fluoranthene	48.9		1.30	5.00	ug/L
129-00-0	Pyrene	47.2		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	49.1		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	40.2		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	50.1		0.94	5.00	ug/L
218-01-9	Chrysene	49.7		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	52.7		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	55.7		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	47.3		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:	PB164533BS	SDG No.:	P4578
Lab Sample ID:	PB164533BS	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
BE101427.D	1	10/30/24 08:50	10/31/24 11:33	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	51.0		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	52.9		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	51.1		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	51.4		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	45.8		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	49.1		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	37.1		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	50.8		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	154		15 (10) - 110 (139)	102%	SPK: 150
13127-88-3	Phenol-d6	139		15 (10) - 110 (134)	92%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.2		30 (49) - 130 (133)	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.5		30 (52) - 130 (132)	95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	138		15 (44) - 110 (137)	92%	SPK: 150
1718-51-0	Terphenyl-d14	86.8		30 (48) - 130 (125)	87%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	115000	7.571			
1146-65-2	Naphthalene-d8	539000	10.339			
15067-26-2	Acenaphthene-d10	361000	14.181			
1517-22-2	Phenanthrene-d10	814000	16.919			
1719-03-5	Chrysene-d12	960000	21.079			
1520-96-3	Perylene-d12	1280000	23.365			

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_E\Data\BE103124\
 Data File : BE101427.D
 Acq On : 31 Oct 2024 11:33
 Operator : RC/JU
 Sample : PB164533BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

PB164533BS

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 31 14:12:37 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 29 01:26:30 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.571	152	115147	20.000	ng	0.00
21) Naphthalene-d8	10.339	136	538934	20.000	ng	0.00
39) Acenaphthene-d10	14.181	164	360623	20.000	ng	0.00
64) Phenanthrene-d10	16.919	188	814107	20.000	ng	0.00
76) Chrysene-d12	21.079	240	960075	20.000	ng	0.00
86) Perylene-d12	23.365	264	1281356	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.321	112	1009490	153.656	ng	0.00
7) Phenol-d6	6.949	99	1263770	138.728	ng	0.00
23) Nitrobenzene-d5	8.782	82	782786	91.228	ng	0.00
42) 2,4,6-Tribromophenol	15.685	330	874230	138.315	ng	0.00
45) 2-Fluorobiphenyl	12.806	172	2012690	94.519	ng	0.00
79) Terphenyl-d14	19.510	244	3621248	86.811	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.206	88	90954	37.119	ng	99
3) Pyridine	3.635	79	258700m	37.316	ng	
4) n-Nitrosodimethylamine	3.553	42	127114	47.389	ng	97
6) Aniline	7.007	93	455197	65.200	ng	99
8) 2-Chlorophenol	7.213	128	408829	51.883	ng	99
9) Benzaldehyde	6.784	77	49809	11.326	ng	98
10) Phenol	6.972	94	530175	53.639	ng	99
11) bis(2-Chloroethyl)ether	7.037	93	362684m	44.729	ng	
12) 1,3-Dichlorobenzene	7.460	146	384380	45.238	ng	98
13) 1,4-Dichlorobenzene	7.607	146	397604	45.824	ng	99
14) 1,2-Dichlorobenzene	7.936	146	387802	45.660	ng	99
15) Benzyl Alcohol	7.906	79	269521	49.634	ng	97
16) 2,2'-oxybis(1-Chloropr...	8.071	45	502340	49.229	ng	99
17) 2-Methylphenol	8.153	107	333134	49.798	ng	99
18) Hexachloroethane	8.629	117	134034	47.303	ng	96
19) n-Nitroso-di-n-propyla...	8.370	70	285079	47.159	ng	99
20) 3+4-Methylphenols	8.488	107	453395	49.099	ng	97
22) Acetophenone	8.423	105	572159	46.756	ng	# 98
24) Nitrobenzene	8.823	77	419005	45.880	ng	99
25) Isophorone	9.275	82	774226	46.239	ng	99
26) 2-Nitrophenol	9.510	139	223987	50.744	ng	98
27) 2,4-Dimethylphenol	9.628	122	335924	60.479	ng	99
28) bis(2-Chloroethoxy)met...	9.775	93	485059	47.769	ng	99
29) 2,4-Dichlorophenol	10.057	162	390825	50.861	ng	100
30) 1,2,4-Trichlorobenzene	10.186	180	377737	45.125	ng	99
31) Naphthalene	10.386	128	1257982	45.805	ng	100
32) Benzoic acid	9.880	122	167435	32.504	ng	98
33) 4-Chloroaniline	10.609	127	316552	33.147	ng	99
34) Hexachlorobutadiene	10.638	225	230319	46.483	ng	98
35) Caprolactam	11.390	113	128167m	43.513	ng	
36) 4-Chloro-3-methylphenol	11.784	107	394334	45.071	ng	99
37) 2-Methylnaphthalene	11.978	142	908509	45.916	ng	99
38) 1-Methylnaphthalene	12.207	142	856823	43.389	ng	98
40) 1,2,4,5-Tetrachloroben...	12.336	216	444363	49.085	ng	99
41) Hexachlorocyclopentadiene	12.319	237	596352	199.461	ng	100
43) 2,4,6-Trichlorophenol	12.654	196	324708	52.029	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
 Data File : BE101427.D
 Acq On : 31 Oct 2024 11:33
 Operator : RC/JU
 Sample : PB164533BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_E

ClientSampleId :

PB164533BS

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/04/2024

Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 31 14:12:37 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 29 01:26:30 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.754	196	355742	49.776	ng	99
46) 1,1'-Biphenyl	13.006	154	1182884	47.877	ng	99
47) 2-Chloronaphthalene	13.053	162	923137	47.292	ng	99
48) 2-Nitroaniline	13.382	65	272113	51.800	ng	97
49) Acenaphthylene	13.911	152	1478111	51.205	ng	100
50) Dimethylphthalate	13.688	163	1213853	47.686	ng	99
51) 2,6-Dinitrotoluene	13.823	165	270879	46.092	ng	99
52) Acenaphthene	14.246	154	911505	48.358	ng	100
53) 3-Nitroaniline	14.234	138	217935	37.293	ng	97
54) 2,4-Dinitrophenol	14.369	184	343642	82.133	ng	99
55) Dibenzofuran	14.587	168	1446122	48.135	ng	99
56) 4-Nitrophenol	14.651	139	542617	101.394	ng	98
57) 2,4-Dinitrotoluene	14.604	165	393205	48.598	ng	98
58) Fluorene	15.221	166	1185528	47.171	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.851	232	335333	50.783	ng	99
60) Diethylphthalate	15.016	149	1261781	47.390	ng	99
61) 4-Chlorophenyl-phenyle...	15.210	204	583149	46.759	ng	99
62) 4-Nitroaniline	15.421	138	305475	46.976	ng	99
63) Azobenzene	15.509	77	1098852	48.013	ng	99
65) 4,6-Dinitro-2-methylph...	15.345	198	230076	48.095	ng	99
66) n-Nitrosodiphenylamine	15.462	169	1064834	49.322	ng	99
67) 4-Bromophenyl-phenylether	16.097	248	405337	47.332	ng	98
68) Hexachlorobenzene	16.203	284	526190	46.877	ng	99
69) Atrazine	16.396	200	405057	61.198	ng	100
70) Pentachlorophenol	16.608	266	666674	103.180	ng	100
71) Phenanthrene	16.960	178	1937501	49.707	ng	99
72) Anthracene	17.043	178	2000720	52.567	ng	99
73) Carbazole	17.378	167	1893275	48.616	ng	99
74) Di-n-butylphthalate	17.824	149	2185822	50.984	ng	99
75) Fluoranthene	18.964	202	2314033	48.879	ng	98
77) Benzidine	19.217	184	1110760	91.158	ng	100
78) Pyrene	19.334	202	2492788	47.215	ng	98
80) Butylbenzylphthalate	20.180	149	1135545	49.061	ng	97
81) Benzo(a)anthracene	21.056	228	2702743	50.086	ng	100
82) 3,3'-Dichlorobenzidine	21.032	252	849155	40.171	ng	100
83) Chrysene	21.114	228	2590728	49.655	ng	99
84) Bis(2-ethylhexyl)phtha...	20.885	149	1621702	52.742	ng	100
85) Di-n-octyl phthalate	21.731	149	2813354	55.748	ng	100
87) Indeno(1,2,3-cd)pyrene	25.697	276	4383307	51.115	ng	100
88) Benzo(b)fluoranthene	22.654	252	3161649	47.347	ng	99
89) Benzo(k)fluoranthene	22.701	252	3180470	50.980	ng	99
90) Benzo(a)pyrene	23.259	252	3090144	52.914	ng	100
91) Dibenzo(a,h)anthracene	25.691	278	3640170	51.372	ng	99
92) Benzo(g,h,i)perylene	26.443	276	3347336	45.848	ng	100

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

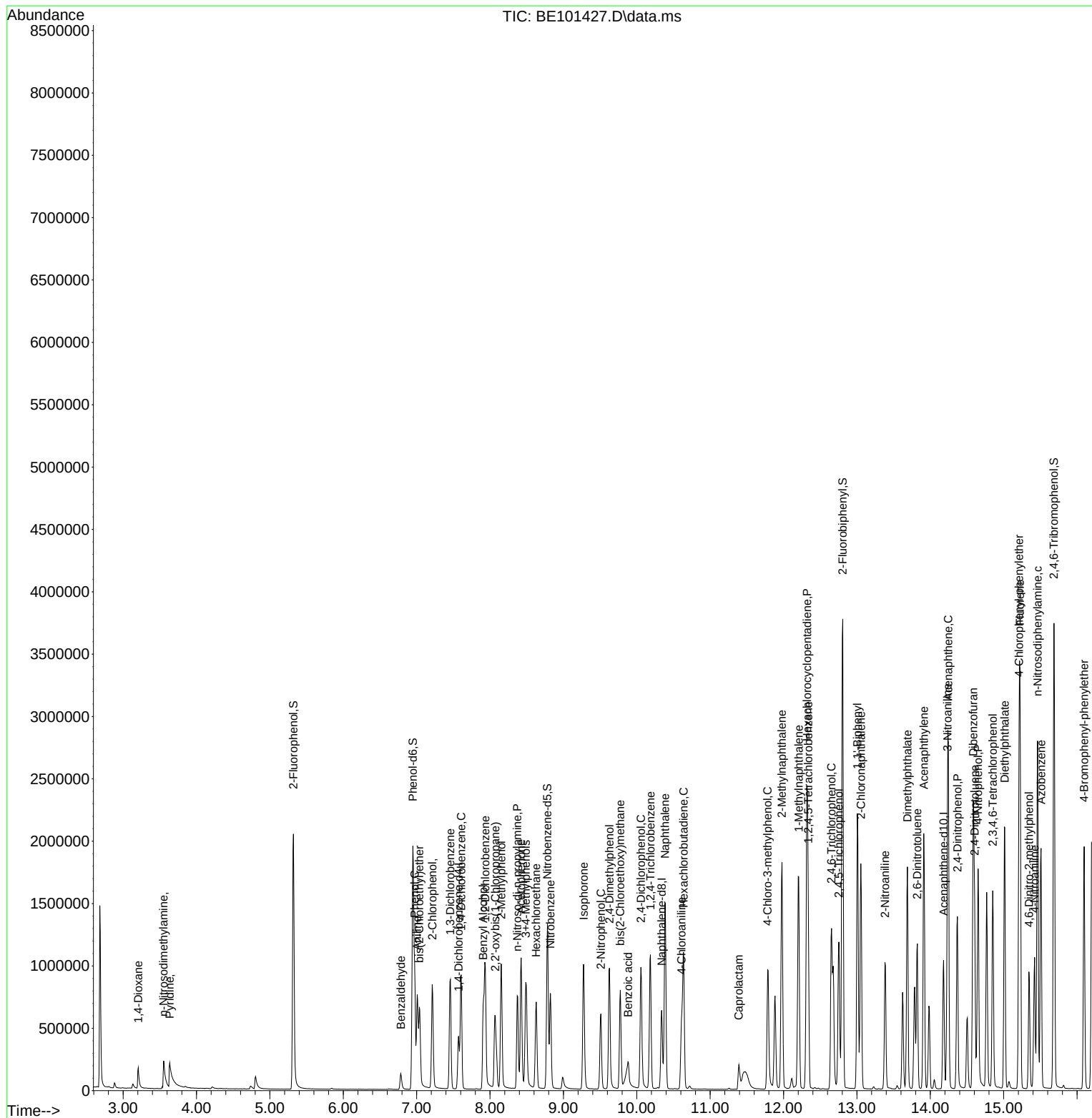
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Data File : BE101427.D
Acq On : 31 Oct 2024 11:33
Operator : RC/JU
Sample : PB164533BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164533BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 31 14:12:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration



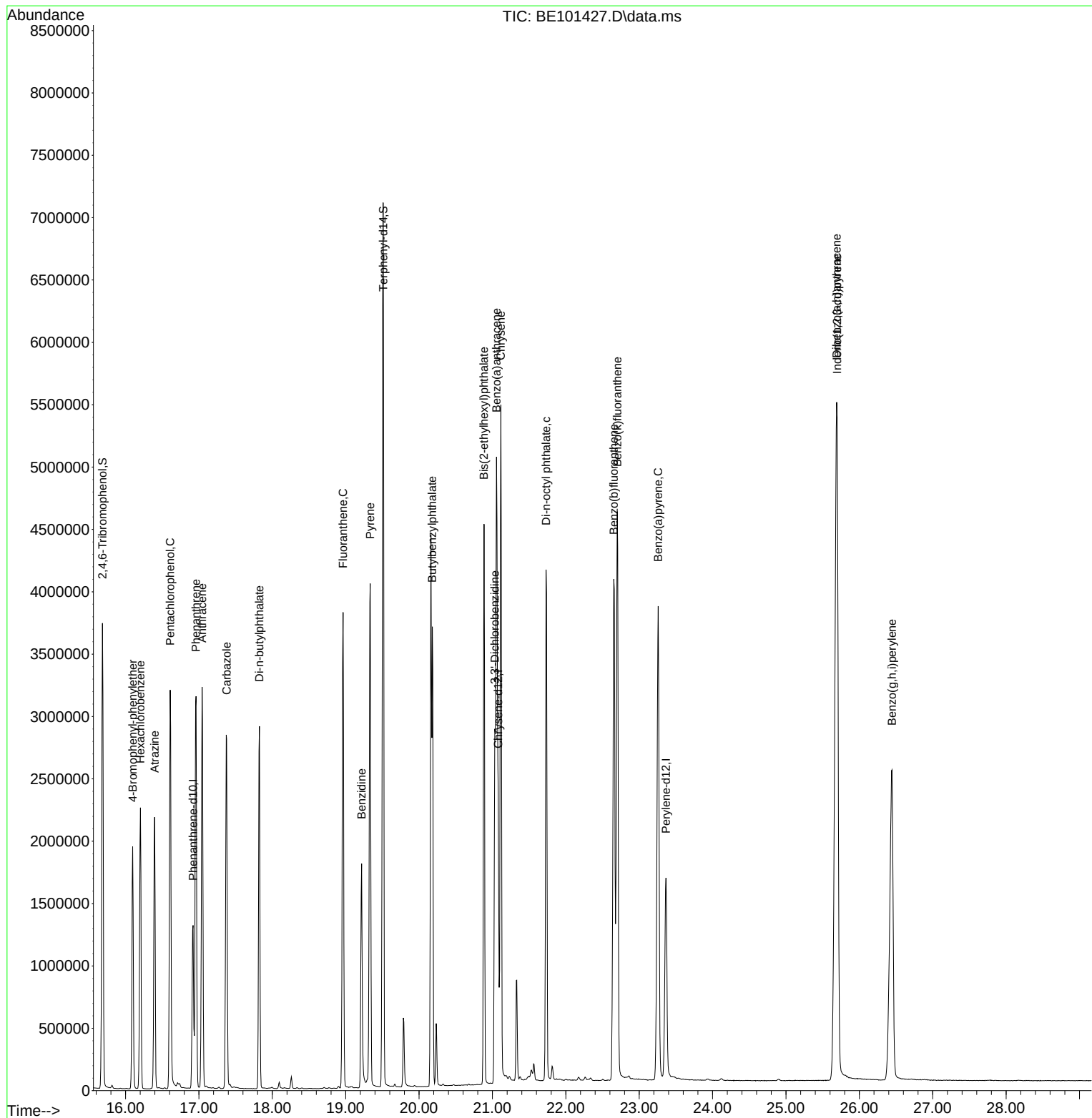
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101427.D
Acq On : 31 Oct 2024 11:33
Operator : RC/JU
Sample : PB164533BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164533BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 31 14:12:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 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:	PB164533BSD	SDG No.:	P4578
Lab Sample ID:	PB164533BSD	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
BE101428.D	1	10/30/24 08:50	10/31/24 12:09	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	11.4		4.00	10.0	ug/L
108-95-2	Phenol	53.6		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	47.2		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	51.8		0.71	5.00	ug/L
95-48-7	2-Methylphenol	49.8		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	48.6		1.40	5.00	ug/L
98-86-2	Acetophenone	47.3		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	49.5		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	47.5		1.50	2.50	ug/L
67-72-1	Hexachloroethane	47.0		1.00	5.00	ug/L
98-95-3	Nitrobenzene	46.1		1.30	5.00	ug/L
78-59-1	Isophorone	47.1		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	51.2		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	61.5		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	48.4		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	52.0		0.88	5.00	ug/L
91-20-3	Naphthalene	45.9		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	34.8		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	45.9		1.30	5.00	ug/L
105-60-2	Caprolactam	46.3		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	46.6		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	46.7		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	200	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	51.9		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	50.0		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	47.6		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	46.7		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	51.9		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	48.3		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:	PB164533BSD	SDG No.:	P4578
Lab Sample ID:	PB164533BSD	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
BE101428.D	1	10/30/24 08:50	10/31/24 12:09	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	51.8		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	46.7		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	37.1		1.40	5.00	ug/L
83-32-9	Acenaphthene	48.0		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	84.6	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	100	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	48.2		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	49.7		1.50	5.00	ug/L
84-66-2	Diethylphthalate	47.6		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	47.1		0.98	5.00	ug/L
86-73-7	Fluorene	47.4		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	47.1		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	49.3		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	49.7		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	47.7		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	46.9		1.10	5.00	ug/L
1912-24-9	Atrazine	61.4		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	110	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	50.0		0.89	5.00	ug/L
120-12-7	Anthracene	52.9		1.10	5.00	ug/L
86-74-8	Carbazole	49.1		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	51.5		1.50	5.00	ug/L
206-44-0	Fluoranthene	48.8		1.30	5.00	ug/L
129-00-0	Pyrene	46.5		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	49.4		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	40.7		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	49.9		0.94	5.00	ug/L
218-01-9	Chrysene	49.1		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	52.8		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	55.2		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	46.7		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:	PB164533BSD	SDG No.:	P4578
Lab Sample ID:	PB164533BSD	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
BE101428.D	1	10/30/24 08:50	10/31/24 12:09	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	51.1		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	52.5		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	51.1		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	51.0		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	45.6		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	48.2		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	39.0		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	51.5		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	154		15 (10) - 110 (139)	103%	SPK: 150
13127-88-3	Phenol-d6	140		15 (10) - 110 (134)	93%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.8		30 (49) - 130 (133)	93%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.2		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	139		15 (44) - 110 (137)	93%	SPK: 150
1718-51-0	Terphenyl-d14	86.4		30 (48) - 130 (125)	86%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	113000	7.569			
1146-65-2	Naphthalene-d8	526000	10.337			
15067-26-2	Acenaphthene-d10	360000	14.179			
1517-22-2	Phenanthrene-d10	813000	16.917			
1719-03-5	Chrysene-d12	969000	21.077			
1520-96-3	Perylene-d12	1290000	23.363			

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_E\Data\BE103124\
 Data File : BE101428.D
 Acq On : 31 Oct 2024 12:09
 Operator : RC/JU
 Sample : PB164533BSD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB164533BSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/04/2024
 Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 31 14:12:45 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 29 01:26:30 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.569	152	113034	20.000	ng	0.00
21) Naphthalene-d8	10.337	136	526465	20.000	ng	0.00
39) Acenaphthene-d10	14.179	164	360052	20.000	ng	0.00
64) Phenanthrene-d10	16.917	188	812601	20.000	ng	0.00
76) Chrysene-d12	21.077	240	969385	20.000	ng	0.00
86) Perylene-d12	23.363	264	1285878	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.319	112	994752	154.243	ng	0.00
7) Phenol-d6	6.947	99	1252408	140.050	ng	0.00
23) Nitrobenzene-d5	8.780	82	777696	92.782	ng	0.00
42) 2,4,6-Tribromophenol	15.689	330	876585	138.908	ng	0.00
45) 2-Fluorobiphenyl	12.805	172	2001748	94.154	ng	0.00
79) Terphenyl-d14	19.508	244	3640711	86.439	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.204	88	93716	38.961	ng	100
3) Pyridine	3.633	79	251245m	36.919	ng	
4) n-Nitrosodimethylamine	3.551	42	121055	45.974	ng	96
6) Aniline	7.011	93	425404	62.072	ng	99
8) 2-Chlorophenol	7.217	128	400854	51.822	ng	100
9) Benzaldehyde	6.782	77	49042	11.360	ng	96
10) Phenol	6.976	94	520219	53.615	ng	99
11) bis(2-Chloroethyl)ether	7.041	93	375829m	47.216	ng	
12) 1,3-Dichlorobenzene	7.458	146	376868	45.183	ng	99
13) 1,4-Dichlorobenzene	7.605	146	388628	45.627	ng	99
14) 1,2-Dichlorobenzene	7.934	146	379990	45.577	ng	100
15) Benzyl Alcohol	7.910	79	268752	50.418	ng	97
16) 2,2'-oxybis(1-Chloropr...	8.069	45	486821	48.600	ng	100
17) 2-Methylphenol	8.151	107	327131	49.815	ng	99
18) Hexachloroethane	8.627	117	130778	47.017	ng	99
19) n-Nitroso-di-n-propyla...	8.374	70	281786	47.485	ng	99
20) 3+4-Methylphenols	8.492	107	448794	49.509	ng	99
22) Acetophenone	8.421	105	565499	47.307	ng	# 98
24) Nitrobenzene	8.821	77	411515	46.127	ng	100
25) Isophorone	9.273	82	770364	47.098	ng	99
26) 2-Nitrophenol	9.508	139	220857	51.220	ng	100
27) 2,4-Dimethylphenol	9.626	122	333518	61.468	ng	99
28) bis(2-Chloroethoxy)met...	9.773	93	479894	48.380	ng	99
29) 2,4-Dichlorophenol	10.055	162	390029	51.960	ng	99
30) 1,2,4-Trichlorobenzene	10.184	180	367626	44.957	ng	99
31) Naphthalene	10.390	128	1230580	45.869	ng	100
32) Benzoic acid	9.884	122	183326	35.439	ng	98
33) 4-Chloroaniline	10.613	127	324797	34.816	ng	98
34) Hexachlorobutadiene	10.636	225	222189	45.905	ng	100
35) Caprolactam	11.389	113	133210m	46.296	ng	
36) 4-Chloro-3-methylphenol	11.788	107	398618	46.640	ng	99
37) 2-Methylnaphthalene	11.976	142	902361	46.686	ng	99
38) 1-Methylnaphthalene	12.205	142	849167	44.020	ng	98
40) 1,2,4,5-Tetrachloroben...	12.334	216	435778	48.213	ng	99
41) Hexachlorocyclopentadiene	12.317	237	584394	195.771	ng	97
43) 2,4,6-Trichlorophenol	12.652	196	323171	51.865	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
 Data File : BE101428.D
 Acq On : 31 Oct 2024 12:09
 Operator : RC/JU
 Sample : PB164533BSD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB164533BSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/04/2024
 Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 31 14:12:45 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 29 01:26:30 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.752	196	356904	50.018	ng	98
46) 1,1'-Biphenyl	13.010	154	1175277	47.644	ng	100
47) 2-Chloronaphthalene	13.051	162	910845	46.737	ng	99
48) 2-Nitroaniline	13.386	65	272277	51.913	ng	96
49) Acenaphthylene	13.915	152	1493689	51.827	ng	99
50) Dimethylphthalate	13.686	163	1227602	48.302	ng	100
51) 2,6-Dinitrotoluene	13.821	165	273864	46.674	ng	99
52) Acenaphthene	14.244	154	903802	48.025	ng	99
53) 3-Nitroaniline	14.232	138	216452	37.098	ng	98
54) 2,4-Dinitrophenol	14.367	184	354149	84.597	ng	98
55) Dibenzofuran	14.585	168	1444875	48.170	ng	99
56) 4-Nitrophenol	14.655	139	560174	104.840	ng	98
57) 2,4-Dinitrotoluene	14.608	165	401525	49.705	ng	96
58) Fluorene	15.225	166	1190269	47.435	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.855	232	339421	51.484	ng	100
60) Diethylphthalate	15.014	149	1264805	47.579	ng	99
61) 4-Chlorophenyl-phenyle...	15.213	204	586167	47.075	ng	98
62) 4-Nitroaniline	15.419	138	306026	47.135	ng	99
63) Azobenzene	15.507	77	1109474	48.554	ng	99
65) 4,6-Dinitro-2-methylph...	15.349	198	235548	49.330	ng	99
66) n-Nitrosodiphenylamine	15.460	169	1070275	49.666	ng	100
67) 4-Bromophenyl-phenylether	16.095	248	407578	47.682	ng	99
68) Hexachlorobenzene	16.201	284	525219	46.877	ng	100
69) Atrazine	16.394	200	405310	61.350	ng	99
70) Pentachlorophenol	16.612	266	679935	105.427	ng	100
71) Phenanthrene	16.958	178	1946192	50.022	ng	99
72) Anthracene	17.047	178	2009903	52.906	ng	99
73) Carbazole	17.376	167	1907689	49.077	ng	99
74) Di-n-butylphthalate	17.822	149	2204042	51.505	ng	99
75) Fluoranthene	18.962	202	2305436	48.787	ng	99
77) Benzidine	19.215	184	1168127	94.946	ng	100
78) Pyrene	19.332	202	2476632	46.458	ng	99
80) Butylbenzylphthalate	20.184	149	1155552	49.446	ng	100
81) Benzo(a)anthracene	21.054	228	2718986	49.903	ng	99
82) 3,3'-Dichlorobenzidine	21.036	252	868485	40.690	ng	99
83) Chrysene	21.112	228	2584025	49.051	ng	99
84) Bis(2-ethylhexyl)phtha...	20.883	149	1640604	52.845	ng	100
85) Di-n-octyl phthalate	21.735	149	2812776	55.201	ng	100
87) Indeno(1,2,3-cd)pyrene	25.695	276	4395609	51.078	ng	100
88) Benzo(b)fluoranthene	22.658	252	3130767	46.720	ng	99
89) Benzo(k)fluoranthene	22.705	252	3200047	51.114	ng	98
90) Benzo(a)pyrene	23.257	252	3077320	52.509	ng	99
91) Dibenzo(a,h)anthracene	25.689	278	3625997	50.992	ng	99
92) Benzo(g,h,i)perylene	26.441	276	3342524	45.621	ng	100

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

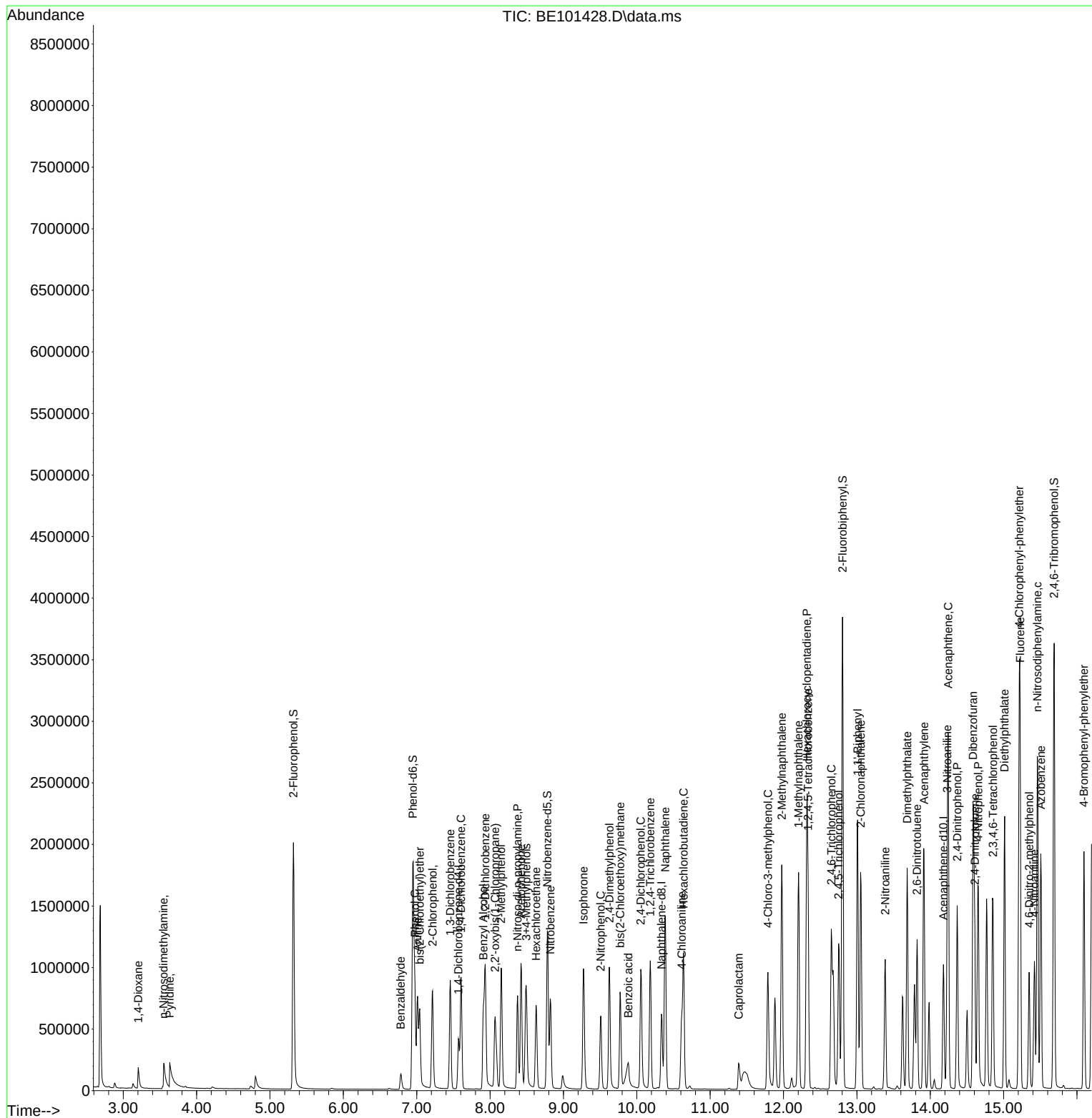
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 Data File : BE101428.D
 Acq On : 31 Oct 2024 12:09
 Operator : RC/JU
 Sample : PB164533BSD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB164533BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
 Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 31 14:12:45 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 29 01:26:30 2024
 Response via : Initial Calibration



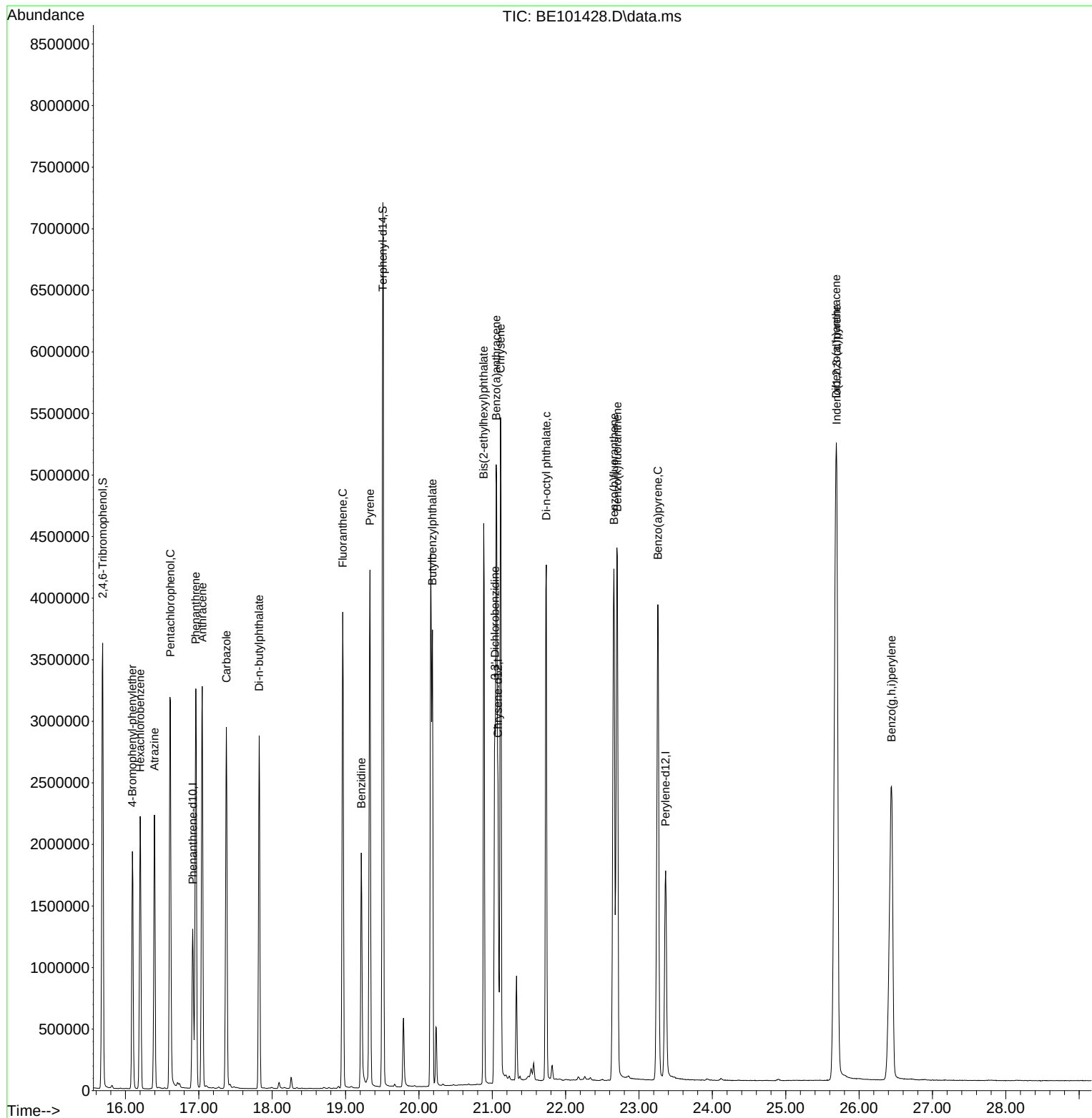
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101428.D
Acq On : 31 Oct 2024 12:09
Operator : RC/JU
Sample : PB164533BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164533BSD

Quant Time: Oct 31 14:12:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	BP-F-18MS	SDG No.:	P4578
Lab Sample ID:	P4561-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.8
Sample Wt/Vol:	50.06 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
BF140105.D	1	10/28/24 09:00	10/29/24 12:02	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	290		130	230	ug/Kg
108-95-2	Phenol	1100		57.9	120	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1100		58.5	120	ug/Kg
95-57-8	2-Chlorophenol	1100		58.3	120	ug/Kg
95-48-7	2-Methylphenol	1100		56.3	120	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1100		63.5	120	ug/Kg
98-86-2	Acetophenone	1000		60.7	120	ug/Kg
65794-96-9	3+4-Methylphenols	1000		55.7	230	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1100		28.1	55.9	ug/Kg
67-72-1	Hexachloroethane	1100		58.0	120	ug/Kg
98-95-3	Nitrobenzene	1000		63.4	120	ug/Kg
78-59-1	Isophorone	1100		59.1	120	ug/Kg
88-75-5	2-Nitrophenol	1300		66.0	120	ug/Kg
105-67-9	2,4-Dimethylphenol	1200		65.1	120	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1100		59.9	120	ug/Kg
120-83-2	2,4-Dichlorophenol	1100		52.7	120	ug/Kg
91-20-3	Naphthalene	1000		57.7	120	ug/Kg
106-47-8	4-Chloroaniline	280		57.7	120	ug/Kg
87-68-3	Hexachlorobutadiene	1100		58.2	120	ug/Kg
105-60-2	Caprolactam	1100		60.6	230	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1100		54.1	120	ug/Kg
91-57-6	2-Methylnaphthalene	1100		57.6	120	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3900	E	110	230	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1100		49.9	120	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1100		51.7	120	ug/Kg
92-52-4	1,1-Biphenyl	1100		61.0	120	ug/Kg
91-58-7	2-Chloronaphthalene	1100		58.2	120	ug/Kg
88-74-4	2-Nitroaniline	1200		66.4	120	ug/Kg
131-11-3	Dimethylphthalate	1100		57.1	120	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	BP-F-18MS	SDG No.:	P4578
Lab Sample ID:	P4561-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.8
Sample Wt/Vol:	50.06 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
BF140105.D	1	10/28/24 09:00	10/29/24 12:02	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1100		60.4	120	ug/Kg
606-20-2	2,6-Dinitrotoluene	1100		58.1	120	ug/Kg
99-09-2	3-Nitroaniline	600		62.3	120	ug/Kg
83-32-9	Acenaphthene	1200		56.6	120	ug/Kg
51-28-5	2,4-Dinitrophenol	3100	E	170	230	ug/Kg
100-02-7	4-Nitrophenol	2300	E	81.0	230	ug/Kg
132-64-9	Dibenzofuran	1100		59.0	120	ug/Kg
121-14-2	2,4-Dinitrotoluene	1200		60.2	120	ug/Kg
84-66-2	Diethylphthalate	1100		55.9	120	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1100		59.8	120	ug/Kg
86-73-7	Fluorene	1100		59.7	120	ug/Kg
100-01-6	4-Nitroaniline	1100		74.7	120	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		81.7	230	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1100		57.0	120	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1100		55.1	120	ug/Kg
118-74-1	Hexachlorobenzene	1100		59.4	120	ug/Kg
1912-24-9	Atrazine	1300		63.8	120	ug/Kg
87-86-5	Pentachlorophenol	2200	E	54.0	230	ug/Kg
85-01-8	Phenanthrene	1100		58.7	120	ug/Kg
120-12-7	Anthracene	1100		59.0	120	ug/Kg
86-74-8	Carbazole	1000		56.1	120	ug/Kg
84-74-2	Di-n-butylphthalate	1100		58.9	120	ug/Kg
206-44-0	Fluoranthene	940		57.1	120	ug/Kg
129-00-0	Pyrene	1000		58.0	120	ug/Kg
85-68-7	Butylbenzylphthalate	1300		67.6	120	ug/Kg
91-94-1	3,3-Dichlorobenzidine	690		68.9	230	ug/Kg
56-55-3	Benzo(a)anthracene	1100		56.4	120	ug/Kg
218-01-9	Chrysene	1100		55.5	120	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		63.6	120	ug/Kg
117-84-0	Di-n-octyl phthalate	1300		76.8	230	ug/Kg
205-99-2	Benzo(b)fluoranthene	1000		56.6	120	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	BP-F-18MS	SDG No.:	P4578
Lab Sample ID:	P4561-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.8
Sample Wt/Vol:	50.06 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
BF140105.D	1	10/28/24 09:00	10/29/24 12:02	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1100		57.7	120	ug/Kg
50-32-8	Benzo(a)pyrene	1200		65.0	120	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	990		54.5	120	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1000		56.7	120	ug/Kg
191-24-2	Benzo(g,h,i)perylene	830		55.9	120	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1100		60.6	120	ug/Kg
123-91-1	1,4-Dioxane	890		76.8	120	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1100		52.2	120	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	87.2		30 (18) - 130 (112)	58%	SPK: 150
13127-88-3	Phenol-d6	90.3		30 (15) - 130 (107)	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.8		30 (18) - 130 (107)	67%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.7		30 (20) - 130 (109)	66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	104		30 (10) - 130 (116)	70%	SPK: 150
1718-51-0	Terphenyl-d14	66.3		30 (10) - 130 (105)	66%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	119000	6.887			
1146-65-2	Naphthalene-d8	469000	8.169			
15067-26-2	Acenaphthene-d10	259000	9.928			
1517-22-2	Phenanthrene-d10	444000	11.416			
1719-03-5	Chrysene-d12	214000	14.051			
1520-96-3	Perylene-d12	270000	15.527			

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\BF102924\
 Data File : BF140105.D
 Acq On : 29 Oct 2024 12:02
 Operator : RC/JU
 Sample : P4561-05MS
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 BP-F-18MS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
 Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 29 12:37:16 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	119078	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	468695	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	258838	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	443678	20.000	ng	0.00
76) Chrysene-d12	14.051	240	213800	20.000	ng	0.00
86) Perylene-d12	15.527	264	269959	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	663296	87.202	ng	0.01
7) Phenol-d6	6.516	99	889612	90.302	ng	0.00
23) Nitrobenzene-d5	7.451	82	564781	66.786	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	252807	104.419	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1028299	65.658	ng	0.00
79) Terphenyl-d14	12.992	244	869424	66.263	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.752	88	135326	38.158	ng	98
3) Pyridine	3.510	79	350246	39.843	ng	99
4) n-Nitrosodimethylamine	3.463	42	196737	41.655	ng	# 98
6) Aniline	6.551	93	287445	31.307	ng	99
8) 2-Chlorophenol	6.675	128	367128	47.212	ng	98
9) Benzaldehyde	6.440	77	68731	12.402	ng	98
10) Phenol	6.528	94	475437m	46.811	ng	
11) bis(2-Chloroethyl)ether	6.622	93	364756	46.464	ng	99
12) 1,3-Dichlorobenzene	6.834	146	397732	44.557	ng	99
13) 1,4-Dichlorobenzene	6.910	146	401159	44.983	ng	99
14) 1,2-Dichlorobenzene	7.057	146	386184	46.399	ng	98
15) Benzyl Alcohol	7.028	79	344664	47.694	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	607117	45.356	ng	98
17) 2-Methylphenol	7.140	107	307900	46.436	ng	98
18) Hexachloroethane	7.404	117	148095	46.569	ng	96
19) n-Nitroso-di-n-propyla...	7.298	70	276260	46.236	ng	97
20) 3+4-Methylphenols	7.287	107	381132	44.939	ng	# 90
22) Acetophenone	7.298	105	506664	44.135	ng	99
24) Nitrobenzene	7.469	77	414883	44.747	ng	100
25) Isophorone	7.710	82	741496	46.197	ng	99
26) 2-Nitrophenol	7.787	139	192444	55.018	ng	98
27) 2,4-Dimethylphenol	7.816	122	306717	52.588	ng	97
28) bis(2-Chloroethoxy)met...	7.916	93	441117	45.361	ng	100
29) 2,4-Dichlorophenol	8.028	162	306470	46.132	ng	99
30) 1,2,4-Trichlorobenzene	8.110	180	322636	43.891	ng	99
31) Naphthalene	8.192	128	1073825	44.423	ng	100
32) Benzoic acid	7.934	122	236255	46.443	ng	99
33) 4-Chloroaniline	8.239	127	98478	11.948	ng	98
34) Hexachlorobutadiene	8.310	225	209194	45.293	ng	99
35) Caprolactam	8.610	113	100372m	47.517	ng	
36) 4-Chloro-3-methylphenol	8.716	107	345453	46.962	ng	100
37) 2-Methylnaphthalene	8.886	142	681541	46.037	ng	100
38) 1-Methylnaphthalene	8.981	142	635082	43.725	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	325431	46.603	ng	99
41) Hexachlorocyclopentadiene	9.039	237	407976	167.908	ng	99
43) 2,4,6-Trichlorophenol	9.157	196	233871	47.305	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
 Data File : BF140105.D
 Acq On : 29 Oct 2024 12:02
 Operator : RC/JU
 Sample : P4561-05MS
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 BP-F-18MS

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
 Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 29 12:37:16 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	238739	46.804	ng	98
46) 1,1'-Biphenyl	9.345	154	821944	45.616	ng	100
47) 2-Chloronaphthalene	9.375	162	655768	45.186	ng	99
48) 2-Nitroaniline	9.469	65	227765	51.314	ng	95
49) Acenaphthylene	9.792	152	1023418	48.778	ng	100
50) Dimethylphthalate	9.651	163	775588	48.106	ng	100
51) 2,6-Dinitrotoluene	9.710	165	169010	48.415	ng	98
52) Acenaphthene	9.963	154	717149	52.838	ng	99
53) 3-Nitroaniline	9.875	138	93290	25.915	ng	100
54) 2,4-Dinitrophenol	9.986	184	201945	134.403	ng	# 1
55) Dibenzofuran	10.133	168	904160	46.431	ng	100
56) 4-Nitrophenol	10.033	139	272837	98.511	ng	95
57) 2,4-Dinitrotoluene	10.116	165	227892	53.087	ng	98
58) Fluorene	10.475	166	681871	45.973	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.251	232	194795m	48.715	ng	
60) Diethylphthalate	10.345	149	750506	47.411	ng	99
61) 4-Chlorophenyl-phenyle...	10.469	204	348259	46.495	ng	99
62) 4-Nitroaniline	10.492	138	163027	47.949	ng	97
63) Azobenzene	10.628	77	893808	53.259	ng	95
65) 4,6-Dinitro-2-methylph...	10.522	198	131332	72.569	ng	93
66) n-Nitrosodiphenylamine	10.586	169	632125	47.603	ng	100
67) 4-Bromophenyl-phenylether	10.957	248	221899	48.548	ng	97
68) Hexachlorobenzene	11.022	284	242705	47.214	ng	99
69) Atrazine	11.110	200	200780	55.817	ng	99
70) Pentachlorophenol	11.216	266	289848	92.905	ng	99
71) Phenanthrene	11.439	178	973007	46.428	ng	100
72) Anthracene	11.492	178	987770	48.307	ng	100
73) Carbazole	11.645	167	822131	43.231	ng	99
74) Di-n-butylphthalate	11.969	149	1066878	48.558	ng	100
75) Fluoranthene	12.627	202	852694	40.247	ng	100
77) Benzidine	12.745	184	177069	50.367	ng	99
78) Pyrene	12.857	202	842496	45.018	ng	99
80) Butylbenzylphthalate	13.469	149	318277	56.727	ng	100
81) Benzo(a)anthracene	14.039	228	646882	46.479	ng	99
82) 3,3'-Dichlorobenzidine	14.004	252	121036	29.827	ng	97
83) Chrysene	14.080	228	628880	49.282	ng	100
84) Bis(2-ethylhexyl)phtha...	14.027	149	397598	63.162	ng	100
85) Di-n-octyl phthalate	14.639	149	654252	57.142	ng	97
87) Indeno(1,2,3-cd)pyrene	17.027	276	740606	42.644	ng	98
88) Benzo(b)fluoranthene	15.098	252	726493	44.178	ng	99
89) Benzo(k)fluoranthene	15.127	252	663067	46.753	ng	99
90) Benzo(a)pyrene	15.468	252	681796	50.387	ng	100
91) Dibenzo(a,h)anthracene	17.045	278	619598	42.766	ng	99
92) Benzo(g,h,i)perylene	17.480	276	514347	35.542	ng	99

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

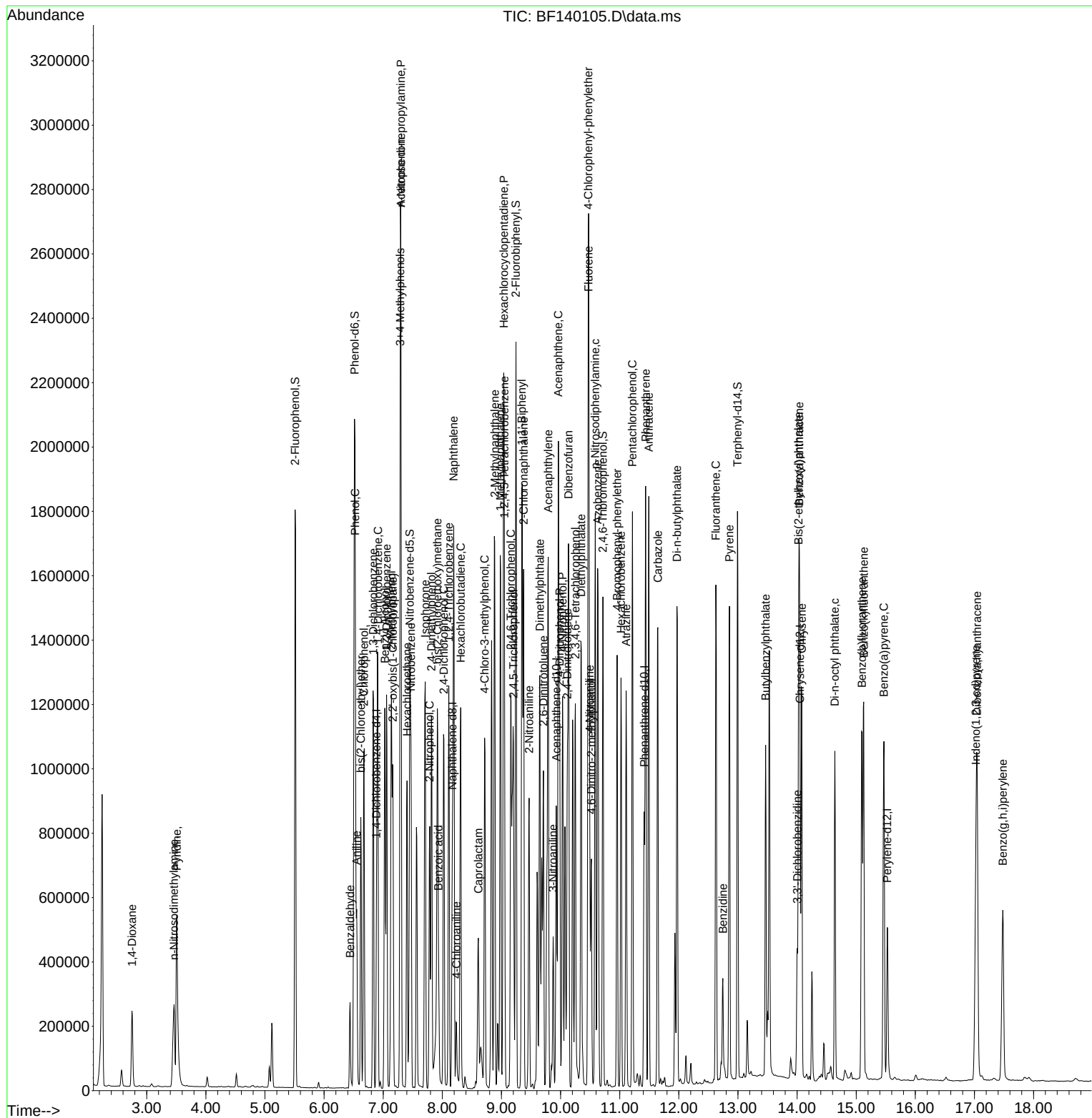
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\  
Data File : BF140105.D  
Acq On    : 29 Oct 2024 12:02  
Operator  : RC/JU  
Sample    : P4561-05MS  
Misc      :  
ALS Vial  : 7    Sample Multiplier: 1
```

Instrument :
BNA_F
ClientSampleId :
BP-F-18MS

Manual Integrations

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 29 12:37:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	BP-F-18MSD	SDG No.:	P4578
Lab Sample ID:	P4561-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.8
Sample Wt/Vol:	50.04 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
BF140106.D	1	10/28/24 09:00	10/29/24 12:30	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	280		130	230	ug/Kg
108-95-2	Phenol	1100		57.9	120	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1000		58.5	120	ug/Kg
95-57-8	2-Chlorophenol	1100		58.3	120	ug/Kg
95-48-7	2-Methylphenol	1000		56.3	120	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1000		63.5	120	ug/Kg
98-86-2	Acetophenone	1000		60.7	120	ug/Kg
65794-96-9	3+4-Methylphenols	1000		55.8	230	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1000		28.2	55.9	ug/Kg
67-72-1	Hexachloroethane	1100		58.0	120	ug/Kg
98-95-3	Nitrobenzene	1000		63.4	120	ug/Kg
78-59-1	Isophorone	1100		59.1	120	ug/Kg
88-75-5	2-Nitrophenol	1300		66.0	120	ug/Kg
105-67-9	2,4-Dimethylphenol	1200		65.1	120	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1100		60.0	120	ug/Kg
120-83-2	2,4-Dichlorophenol	1100		52.8	120	ug/Kg
91-20-3	Naphthalene	1000		57.7	120	ug/Kg
106-47-8	4-Chloroaniline	270		57.7	120	ug/Kg
87-68-3	Hexachlorobutadiene	1100		58.2	120	ug/Kg
105-60-2	Caprolactam	1100		60.7	230	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1100		54.2	120	ug/Kg
91-57-6	2-Methylnaphthalene	1100		57.6	120	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3700	E	110	230	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1100		49.9	120	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1100		51.7	120	ug/Kg
92-52-4	1,1-Biphenyl	1100		61.1	120	ug/Kg
91-58-7	2-Chloronaphthalene	1100		58.2	120	ug/Kg
88-74-4	2-Nitroaniline	1200		66.4	120	ug/Kg
131-11-3	Dimethylphthalate	1100		57.1	120	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	BP-F-18MSD	SDG No.:	P4578
Lab Sample ID:	P4561-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.8
Sample Wt/Vol:	50.04 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
BF140106.D	1	10/28/24 09:00	10/29/24 12:30	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1100		60.4	120	ug/Kg
606-20-2	2,6-Dinitrotoluene	1100		58.1	120	ug/Kg
99-09-2	3-Nitroaniline	590		62.3	120	ug/Kg
83-32-9	Acenaphthene	1200		56.7	120	ug/Kg
51-28-5	2,4-Dinitrophenol	3100	E	170	230	ug/Kg
100-02-7	4-Nitrophenol	2300	E	81.1	230	ug/Kg
132-64-9	Dibenzofuran	1100		59.0	120	ug/Kg
121-14-2	2,4-Dinitrotoluene	1200		60.2	120	ug/Kg
84-66-2	Diethylphthalate	1100		56.0	120	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1100		59.8	120	ug/Kg
86-73-7	Fluorene	1100		59.7	120	ug/Kg
100-01-6	4-Nitroaniline	1100		74.8	120	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		81.8	230	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1100		57.0	120	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1100		55.1	120	ug/Kg
118-74-1	Hexachlorobenzene	1100		59.4	120	ug/Kg
1912-24-9	Atrazine	1300		63.9	120	ug/Kg
87-86-5	Pentachlorophenol	2100	E	54.0	230	ug/Kg
85-01-8	Phenanthrene	1100		58.7	120	ug/Kg
120-12-7	Anthracene	1100		59.0	120	ug/Kg
86-74-8	Carbazole	1000		56.1	120	ug/Kg
84-74-2	Di-n-butylphthalate	1100		58.9	120	ug/Kg
206-44-0	Fluoranthene	930		57.1	120	ug/Kg
129-00-0	Pyrene	1000		58.0	120	ug/Kg
85-68-7	Butylbenzylphthalate	1300		67.6	120	ug/Kg
91-94-1	3,3-Dichlorobenzidine	730		68.9	230	ug/Kg
56-55-3	Benzo(a)anthracene	1100		56.4	120	ug/Kg
218-01-9	Chrysene	1100		55.6	120	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1400		63.6	120	ug/Kg
117-84-0	Di-n-octyl phthalate	1300		76.9	230	ug/Kg
205-99-2	Benzo(b)fluoranthene	1000		56.7	120	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	BP-F-18MSD	SDG No.:	P4578
Lab Sample ID:	P4561-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.8
Sample Wt/Vol:	50.04 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
BF140106.D	1	10/28/24 09:00	10/29/24 12:30	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1100		57.7	120	ug/Kg
50-32-8	Benzo(a)pyrene	1200		65.0	120	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	970		54.6	120	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	970		56.7	120	ug/Kg
191-24-2	Benzo(g,h,i)perylene	810		56.0	120	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1100		60.7	120	ug/Kg
123-91-1	1,4-Dioxane	860		76.9	120	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1100		52.2	120	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	84.4		30 (18) - 130 (112)	56%	SPK: 150
13127-88-3	Phenol-d6	87.1		30 (15) - 130 (107)	58%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.6		30 (18) - 130 (107)	67%	SPK: 100
321-60-8	2-Fluorobiphenyl	64.8		30 (20) - 130 (109)	65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	103		30 (10) - 130 (116)	69%	SPK: 150
1718-51-0	Terphenyl-d14	64.7		30 (10) - 130 (105)	65%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	122000	6.892			
1146-65-2	Naphthalene-d8	465000	8.169			
15067-26-2	Acenaphthene-d10	257000	9.927			
1517-22-2	Phenanthrene-d10	440000	11.416			
1719-03-5	Chrysene-d12	211000	14.051			
1520-96-3	Perylene-d12	271000	15.527			

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\BF102924\
 Data File : BF140106.D
 Acq On : 29 Oct 2024 12:30
 Operator : RC/JU
 Sample : P4561-05MSD
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

BP-F-18MSD

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
 Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 29 12:59:43 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 18 15:07:50 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	121800	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	465155	20.000	ng	0.00
39) Acenaphthene-d10	9.927	164	256664	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	439821	20.000	ng	0.00
76) Chrysene-d12	14.051	240	211408	20.000	ng	0.00
86) Perylene-d12	15.527	264	270997	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	656615	84.394	ng	0.01
7) Phenol-d6	6.516	99	877396	87.071	ng	0.00
23) Nitrobenzene-d5	7.451	82	559285	66.639	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	247838	103.233	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1005847	64.768	ng	0.00
79) Terphenyl-d14	12.992	244	839676	64.720	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.751	88	134597	37.104	ng	98
3) Pyridine	3.504	79	353874	39.356	ng	99
4) n-Nitrosodimethylamine	3.463	42	191536	39.648	ng	# 98
6) Aniline	6.551	93	290433	30.926	ng	99
8) 2-Chlorophenol	6.675	128	362464	45.571	ng	98
9) Benzaldehyde	6.439	77	66947	11.810	ng	96
10) Phenol	6.528	94	473946m	45.621	ng	
11) bis(2-Chloroethyl)ether	6.622	93	359328	44.750	ng	99
12) 1,3-Dichlorobenzene	6.834	146	391824	42.914	ng	99
13) 1,4-Dichlorobenzene	6.910	146	398892	43.729	ng	99
14) 1,2-Dichlorobenzene	7.057	146	382664	44.949	ng	99
15) Benzyl Alcohol	7.028	79	340430	46.056	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	602557	44.009	ng	98
17) 2-Methylphenol	7.139	107	305111	44.987	ng	98
18) Hexachloroethane	7.404	117	146986	45.187	ng	97
19) n-Nitroso-di-n-propyla...	7.298	70	268245	43.892	ng	98
20) 3+4-Methylphenols	7.286	107	371349	42.807	ng	# 90
22) Acetophenone	7.298	105	503721	44.213	ng	98
24) Nitrobenzene	7.469	77	412447	44.823	ng	100
25) Isophorone	7.710	82	733519	46.048	ng	99
26) 2-Nitrophenol	7.786	139	192422	55.431	ng	98
27) 2,4-Dimethylphenol	7.822	122	300404	51.898	ng	98
28) bis(2-Chloroethoxy)met...	7.916	93	436527	45.231	ng	99
29) 2,4-Dichlorophenol	8.028	162	305647	46.359	ng	99
30) 1,2,4-Trichlorobenzene	8.110	180	320744	43.966	ng	100
31) Naphthalene	8.192	128	1061785	44.260	ng	100
32) Benzoic acid	7.933	122	231719	45.898	ng	98
33) 4-Chloroaniline	8.239	127	93330	11.409	ng	98
34) Hexachlorobutadiene	8.310	225	206714	45.097	ng	99
35) Caprolactam	8.610	113	98336m	46.907	ng	
36) 4-Chloro-3-methylphenol	8.716	107	338753	46.402	ng	100
37) 2-Methylnaphthalene	8.886	142	676008	46.011	ng	100
38) 1-Methylnaphthalene	8.980	142	625170	43.370	ng	99
40) 1,2,4,5-Tetrachloroben...	9.051	216	319152	46.091	ng	99
41) Hexachlorocyclopentadiene	9.039	237	386142	160.268	ng	98
43) 2,4,6-Trichlorophenol	9.157	196	232567	47.439	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
 Data File : BF140106.D
 Acq On : 29 Oct 2024 12:30
 Operator : RC/JU
 Sample : P4561-05MSD
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

BP-F-18MSD

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
 Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 29 12:59:43 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 18 15:07:50 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	235734	46.607	ng	98
46) 1,1'-Biphenyl	9.345	154	815178	45.623	ng	99
47) 2-Chloronaphthalene	9.375	162	649391	45.126	ng	99
48) 2-Nitroaniline	9.469	65	224758	51.066	ng	95
49) Acenaphthylene	9.792	152	1010496	48.570	ng	99
50) Dimethylphthalate	9.645	163	763825	47.778	ng	100
51) 2,6-Dinitrotoluene	9.710	165	167332	48.341	ng	98
52) Acenaphthene	9.963	154	711175	52.842	ng	100
53) 3-Nitroaniline	9.874	138	91124	25.527	ng	97
54) 2,4-Dinitrophenol	9.986	184	196382	131.934	ng	# 1
55) Dibenzofuran	10.133	168	885829	45.875	ng	100
56) 4-Nitrophenol	10.033	139	269111	97.989	ng	97
57) 2,4-Dinitrotoluene	10.116	165	226623	53.238	ng	98
58) Fluorene	10.474	166	674927	45.890	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	191597	48.321	ng	98
60) Diethylphthalate	10.345	149	735614	46.863	ng	99
61) 4-Chlorophenyl-phenyle...	10.469	204	346171	46.608	ng	99
62) 4-Nitroaniline	10.492	138	156655	46.466	ng	98
63) Azobenzene	10.627	77	871386	52.363	ng	95
65) 4,6-Dinitro-2-methylph...	10.522	198	127360	70.992	ng	92
66) n-Nitrosodiphenylamine	10.586	169	620045	47.103	ng	100
67) 4-Bromophenyl-phenylether	10.957	248	217392	47.979	ng	98
68) Hexachlorobenzene	11.021	284	237439	46.595	ng	99
69) Atrazine	11.110	200	196449	55.092	ng	100
70) Pentachlorophenol	11.216	266	281948	91.166	ng	99
71) Phenanthrene	11.439	178	943324	45.406	ng	100
72) Anthracene	11.492	178	974760	48.088	ng	100
73) Carbazole	11.645	167	808719	42.899	ng	99
74) Di-n-butylphthalate	11.974	149	1041388	47.814	ng	99
75) Fluoranthene	12.627	202	838403	39.920	ng	100
77) Benzidine	12.745	184	181236	52.135	ng	99
78) Pyrene	12.857	202	811499	43.852	ng	100
80) Butylbenzylphthalate	13.468	149	308600	55.625	ng	100
81) Benzo(a)anthracene	14.039	228	635224	46.158	ng	99
82) 3,3'-Dichlorobenzidine	14.004	252	126129	31.434	ng	99
83) Chrysene	14.080	228	619134	49.067	ng	100
84) Bis(2-ethylhexyl)phtha...	14.027	149	381465	61.285	ng	100
85) Di-n-octyl phthalate	14.639	149	647308	57.175	ng	97
87) Indeno(1,2,3-cd)pyrene	17.027	276	726495	41.671	ng	99
88) Benzo(b)fluoranthene	15.098	252	721940	43.733	ng	99
89) Benzo(k)fluoranthene	15.127	252	658679	46.266	ng	100
90) Benzo(a)pyrene	15.468	252	684055	50.360	ng	99
91) Dibenzo(a,h)anthracene	17.045	278	606275	41.686	ng	99
92) Benzo(g,h,i)perylene	17.480	276	507958	34.966	ng	98

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

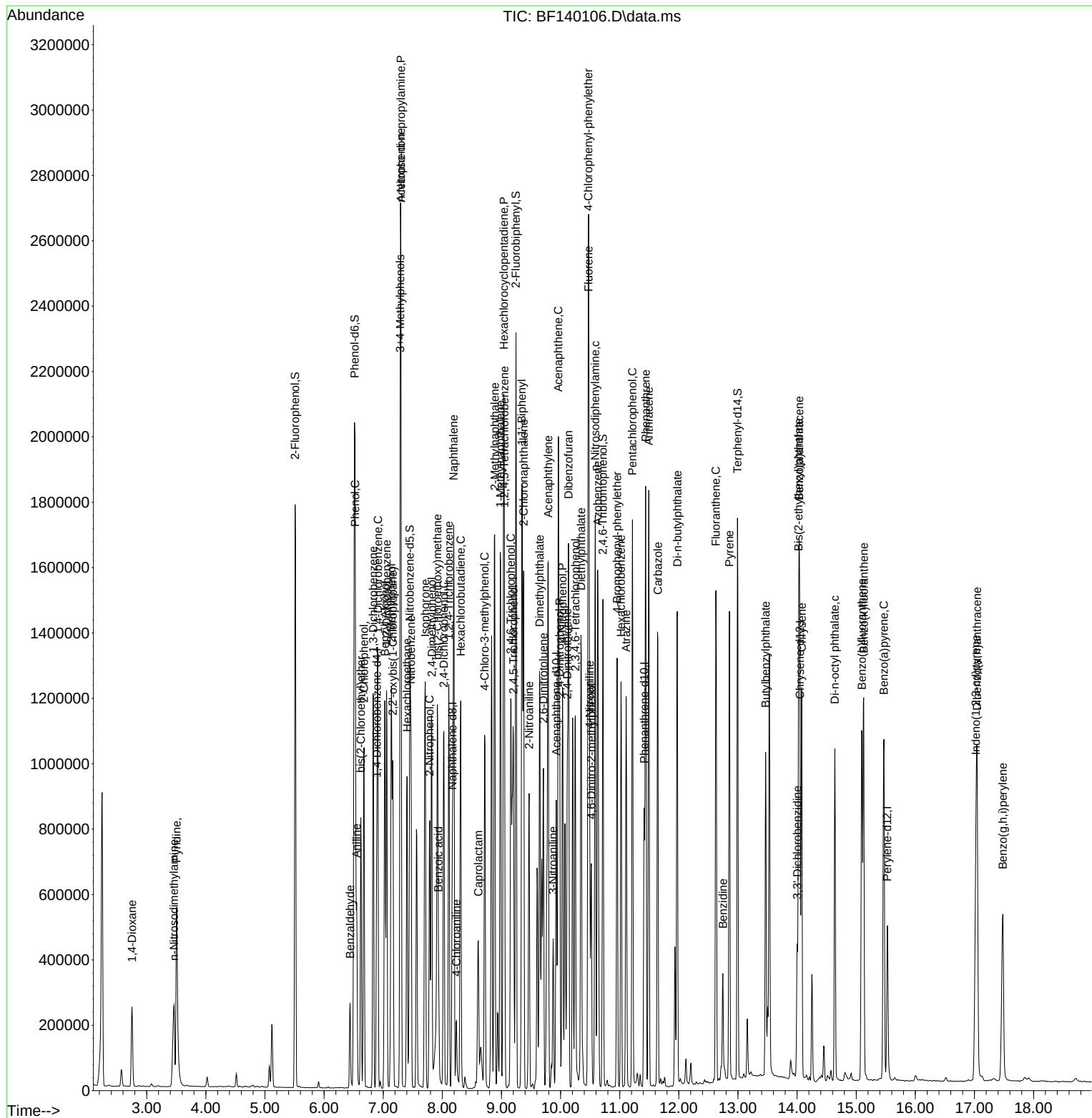
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140106.D
Acq On : 29 Oct 2024 12:30
Operator : RC/JU
Sample : P4561-05MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
BP-F-18MSD

Manual Integrations

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 29 12:59:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



Manual Integration Report

Sequence:	BE102824	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BE101390.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC005	BE101390.D	Caprolactam	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC005	BE101390.D	n-Nitrosodimethylamine	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC005	BE101390.D	Pyridine	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	Benzoic acid	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	Caprolactam	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	n-Nitrosodimethylamine	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	Pyridine	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC020	BE101392.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:56:57 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC020	BE101392.D	Pyridine	yogesh	10/29/2024 4:56:57 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICCC040	BE101393.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:57:01 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICCC040	BE101393.D	Pyridine	yogesh	10/29/2024 4:57:01 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	BE102824	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC050	BE101394.D	Caprolactam	yogesh	10/29/2024 4:57:05 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC050	BE101394.D	Pyridine	yogesh	10/29/2024 4:57:05 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC060	BE101395.D	Benzo(k)fluoranthene	yogesh	10/29/2024 4:57:10 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC060	BE101395.D	Caprolactam	yogesh	10/29/2024 4:57:10 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC060	BE101395.D	Pyridine	yogesh	10/29/2024 4:57:10 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	Aniline	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	Caprolactam	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	Pyridine	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICV040	BE101397.D	Aniline	yogesh	10/29/2024 4:57:19 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICV040	BE101397.D	Pyridine	yogesh	10/29/2024 4:57:19 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	BE103124	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BE101425.D	Aniline	yogesh	11/4/2024 1:41:56 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
SSTDCCC040	BE101425.D	Caprolactam	yogesh	11/4/2024 1:41:56 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
SSTDCCC040	BE101425.D	Pyridine	yogesh	11/4/2024 1:41:56 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
PB164533BS	BE101427.D	bis(2-Chloroethyl)ether	yogesh	11/4/2024 1:41:57 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
PB164533BS	BE101427.D	Caprolactam	yogesh	11/4/2024 1:41:57 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
PB164533BS	BE101427.D	Pyridine	yogesh	11/4/2024 1:41:57 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
PB164533BSD	BE101428.D	bis(2-Chloroethyl)ether	yogesh	11/4/2024 1:41:59 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
PB164533BSD	BE101428.D	Caprolactam	yogesh	11/4/2024 1:41:59 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
PB164533BSD	BE101428.D	Pyridine	yogesh	11/4/2024 1:41:59 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

BF101824

Instrument

BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICCC040	BF139848.D	Phenol	yogesh	10/21/2024 6:33:45 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICCC050	BF139849.D	Phenol	yogesh	10/21/2024 6:33:46 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICCC060	BF139850.D	Phenol	yogesh	10/21/2024 6:33:47 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICCC080	BF139851.D	Aniline	yogesh	10/21/2024 6:33:49 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICV040	BF139852.D	Phenol	yogesh	10/21/2024 6:33:50 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	BF102924	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140100.D	Phenol	Jagrut	10/30/2024 10:56:50 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
PB164461BS	BF140102.D	Caprolactam	Jagrut	10/30/2024 10:56:54 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
PB164461BS	BF140102.D	Phenol	Jagrut	10/30/2024 10:56:54 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
P4561-05MS	BF140105.D	2,3,4,6-Tetrachlorophen ol	Jagrut	10/30/2024 10:56:57 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
P4561-05MS	BF140105.D	Caprolactam	Jagrut	10/30/2024 10:56:57 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
P4561-05MS	BF140105.D	Phenol	Jagrut	10/30/2024 10:56:57 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
P4561-05MSD	BF140106.D	Caprolactam	Jagrut	10/30/2024 10:56:59 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
P4561-05MSD	BF140106.D	Phenol	Jagrut	10/30/2024 10:56:59 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
SSTDCCC040	BF140113.D	Phenol	Jagrut	10/30/2024 10:57:02 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
P4578-04	BF140125.D	Benzo(a)anthracene	Jagrut	10/30/2024 10:57:17 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
SSTDCCC040	BF140133.D	Benzoic acid	Jagrut	10/30/2024 10:57:20 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
SSTDCCC040	BF140133.D	Phenol	Jagrut	10/30/2024 10:57:20 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software



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Manual Integration Report

Sequence:

BF102924

Instrument

BNA_f

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

BF103024

Instrument

BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140152.D	Phenol	yogesh	11/4/2024 1:33:24 AM	mohammad	11/4/2024 1:50:01 AM	Peak Integrated by Software
P4578-03	BF140156.D	Benzo(b)fluoranthene	yogesh	11/4/2024 1:33:27 AM	mohammad	11/4/2024 1:50:01 AM	Peak Integrated by Software
P4578-03	BF140156.D	Benzo(k)fluoranthene	yogesh	11/4/2024 1:33:27 AM	mohammad	11/4/2024 1:50:01 AM	Peak Integrated by Software



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Manual Integration Report

Sequence:

bf103124

Instrument

BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140176.D	Benzo(b)fluoranthene	yogesh	11/4/2024 1:41:10 AM	mohammad	11/4/2024 1:50:49 AM	Peak Integrated by Software
SSTDCCC040	BF140176.D	Phenol	yogesh	11/4/2024 1:41:10 AM	mohammad	11/4/2024 1:50:49 AM	Peak Integrated by Software



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Manual Integration Report

Sequence:	BF110124	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140200.D	Phenol	yogesh	11/4/2024 1:46:27 AM	mohammad	11/4/2024 1:51:22 AM	Peak Integrated by Software

Instrument ID: **BNA_E**

Daily Analysis Runlog For Sequence/QC Batch ID # BE102824

Review By	yogesh	Review On	10/29/2024 4:57:44 AM		
Supervise By	mohammad	Supervise On	10/30/2024 2:48:38 AM		
SubDirectory	BE102824	HP Acquire Method	BNA_E	HP Processing Method	be102824
STD. NAME		STD REF.#			
Tune/Reschk		SP6573			
Initial Calibration Stds		SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621			
CCC		SP6624			
Internal Standard/PEM		S12323,10ul/1000ul sample			
ICV/I.BLK		SP6559			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BE101388.D	28 Oct 2024 10:51	RC/JU	Ok
2	SSTDICC2.5	BE101389.D	28 Oct 2024 11:44	RC/JU	Ok
3	SSTDICC005	BE101390.D	28 Oct 2024 12:23	RC/JU	Ok,M
4	SSTDICC010	BE101391.D	28 Oct 2024 12:59	RC/JU	Ok,M
5	SSTDICC020	BE101392.D	28 Oct 2024 13:35	RC/JU	Ok,M
6	SSTDICCC040	BE101393.D	28 Oct 2024 14:11	RC/JU	Ok,M
7	SSTDICC050	BE101394.D	28 Oct 2024 14:49	RC/JU	Ok,M
8	SSTDICC060	BE101395.D	28 Oct 2024 15:25	RC/JU	Ok,M
9	SSTDICC080	BE101396.D	28 Oct 2024 16:01	RC/JU	Ok,M
10	SSTDICV040	BE101397.D	28 Oct 2024 16:37	RC/JU	Ok,M
11	PB164444BL	BE101398.D	28 Oct 2024 17:16	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_E**

Daily Analysis Runlog For Sequence/QC Batch ID # BE103124

Review By	yogesh	Review On	11/4/2024 1:42:16 AM
Supervise By	mohammad	Supervise On	11/4/2024 1:50:57 AM
SubDirectory	BE103124	HP Acquire Method	BNA_E
		HP Processing Method	be102824
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	BE101424.D	31 Oct 2024 9:40	RC/JU	Ok
2	SSTDCCC040	BE101425.D	31 Oct 2024 10:18	RC/JU	Ok,M
3	PB164533BL	BE101426.D	31 Oct 2024 10:57	RC/JU	Ok
4	PB164533BS	BE101427.D	31 Oct 2024 11:33	RC/JU	Ok,M
5	PB164533BSD	BE101428.D	31 Oct 2024 12:09	RC/JU	Ok,M
6	P4616-08	BE101429.D	31 Oct 2024 12:51	RC/JU	Ok
7	P4616-01	BE101430.D	31 Oct 2024 13:26	RC/JU	Ok
8	P4616-01MS	BE101431.D	31 Oct 2024 14:02	RC/JU	Not Ok
9	P4616-01MSD	BE101432.D	31 Oct 2024 14:38	RC/JU	Not Ok
10	P4578-02	BE101433.D	31 Oct 2024 15:14	RC/JU	ReRun
11	P4639-03	BE101434.D	31 Oct 2024 15:50	RC/JU	Ok
12	P4640-01	BE101435.D	31 Oct 2024 16:25	RC/JU	Ok,M
13	P4640-01MS	BE101436.D	31 Oct 2024 17:01	RC/JU	Ok,M
14	P4640-01MSD	BE101437.D	31 Oct 2024 17:37	RC/JU	Ok,M
15	P4598-09	BE101438.D	31 Oct 2024 18:13	RC/JU	Ok
16	P4594-01	BE101439.D	31 Oct 2024 18:49	RC/JU	Ok
17	P4611-07	BE101440.D	31 Oct 2024 19:24	RC/JU	Ok,M
18	P4618-01	BE101441.D	31 Oct 2024 20:00	RC/JU	Ok
19	P4595-01	BE101442.D	31 Oct 2024 20:36	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM
SubDirectory	BF101824	HP Acquire Method	BNA_F
		HP Processing Method	bf101824
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621		
CCC	SP6624		
Internal Standard/PEM	S12322,10ul/1000ul sample		
ICV/I.BLK	SP6559		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF139843.D	18 Oct 2024 09:22	RC/JU	Ok
2	SSTDICC2.5	BF139844.D	18 Oct 2024 10:27	RC/JU	Ok
3	SSTDICC005	BF139845.D	18 Oct 2024 10:55	RC/JU	Ok
4	SSTDICC010	BF139846.D	18 Oct 2024 11:23	RC/JU	Ok
5	SSTDICC020	BF139847.D	18 Oct 2024 11:52	RC/JU	Ok
6	SSTDICCC040	BF139848.D	18 Oct 2024 12:20	RC/JU	Ok,M
7	SSTDICC050	BF139849.D	18 Oct 2024 12:49	RC/JU	Ok,M
8	SSTDICC060	BF139850.D	18 Oct 2024 13:17	RC/JU	Ok,M
9	SSTDICC080	BF139851.D	18 Oct 2024 13:46	RC/JU	Ok,M
10	SSTDICV040	BF139852.D	18 Oct 2024 14:19	RC/JU	Ok,M
11	PB164211BL	BF139853.D	18 Oct 2024 14:48	RC/JU	Ok
12	P4405-01	BF139854.D	18 Oct 2024 15:21	RC/JU	Ok
13	P4431-01	BF139855.D	18 Oct 2024 15:50	RC/JU	Ok,M
14	P4421-01	BF139856.D	18 Oct 2024 16:18	RC/JU	Ok,M
15	P4422-01	BF139857.D	18 Oct 2024 16:46	RC/JU	Ok
16	P4425-01	BF139858.D	18 Oct 2024 17:15	RC/JU	Ok
17	P4425-03	BF139859.D	18 Oct 2024 17:44	RC/JU	Ok
18	P4425-05	BF139860.D	18 Oct 2024 18:12	RC/JU	Ok
19	P4425-07	BF139861.D	18 Oct 2024 18:41	RC/JU	ReRun
20	P4425-09	BF139862.D	18 Oct 2024 19:09	RC/JU	ReRun
21	P4426-03	BF139863.D	18 Oct 2024 19:37	RC/JU	ReRun

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM
SubDirectory	BF101824	HP Acquire Method	BNA_F
		HP Processing Method	bf101824
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621		
CCC	SP6624		
Internal Standard/PEM	S12322,10ul/1000ul sample		
ICV/I.BLK	SP6559		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	P4426-07	BF139864.D	18 Oct 2024 20:05	RC/JU	ReRun
23	P4426-17	BF139865.D	18 Oct 2024 20:34	RC/JU	ReRun
24	P4426-11	BF139866.D	18 Oct 2024 21:02	RC/JU	ReRun

M : Manual Integration

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF102924

Review By	Jagrut	Review On	10/30/2024 10:58:28 AM
Supervise By	mohammad	Supervise On	11/4/2024 1:49:36 AM
SubDirectory	BF102924	HP Acquire Method	BNA_F
		HP Processing Method	bf101824
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621		
CCC	SP6624		
Internal Standard/PEM	S12323,10ul/1000ul sample		
ICV/I.BLK	SP6559		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140099.D	29 Oct 2024 09:09	RC/JU	Ok
2	SSTDCCC040	BF140100.D	29 Oct 2024 09:37	RC/JU	Ok,M
3	PB164461BL	BF140101.D	29 Oct 2024 10:05	RC/JU	Ok
4	PB164461BS	BF140102.D	29 Oct 2024 10:33	RC/JU	Ok,M
5	P4495-12	BF140103.D	29 Oct 2024 11:01	RC/JU	Ok
6	P4561-05	BF140104.D	29 Oct 2024 11:34	RC/JU	Ok
7	P4561-05MS	BF140105.D	29 Oct 2024 12:02	RC/JU	Ok,M
8	P4561-05MSD	BF140106.D	29 Oct 2024 12:30	RC/JU	Ok,M
9	P4574-07	BF140107.D	29 Oct 2024 12:58	RC/JU	Ok
10	P4574-09	BF140108.D	29 Oct 2024 13:24	RC/JU	Ok
11	P4574-11	BF140109.D	29 Oct 2024 13:50	RC/JU	Ok
12	P4578-05	BF140110.D	29 Oct 2024 14:16	RC/JU	Ok
13	P4578-07	BF140111.D	29 Oct 2024 14:42	RC/JU	Ok
14	DFTPP	BF140112.D	29 Oct 2024 15:35	RC/JU	Ok
15	SSTDCCC040	BF140113.D	29 Oct 2024 16:01	RC/JU	Ok,M
16	PB164497BL	BF140114.D	29 Oct 2024 16:26	RC/JU	Ok
17	PB164497BS	BF140115.D	29 Oct 2024 16:52	RC/JU	Ok,M
18	P4594-05	BF140116.D	29 Oct 2024 17:18	RC/JU	Ok
19	P4594-05MS	BF140117.D	29 Oct 2024 17:45	RC/JU	Ok,M
20	P4594-05MSD	BF140118.D	29 Oct 2024 18:11	RC/JU	Ok,M
21	P4597-07	BF140119.D	29 Oct 2024 18:37	RC/JU	Ok,M

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF102924

Review By	Jagrut	Review On	10/30/2024 10:58:28 AM
Supervise By	mohammad	Supervise On	11/4/2024 1:49:36 AM
SubDirectory	BF102924	HP Acquire Method	BNA_F
		HP Processing Method	bf101824
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621		
CCC	SP6624		
Internal Standard/PEM	S12323,10ul/1000ul sample		
ICV/I.BLK	SP6559		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	P4594-17	BF140120.D	29 Oct 2024 19:03	RC/JU	Ok
23	P4598-05	BF140121.D	29 Oct 2024 19:29	RC/JU	Ok
24	P4567-05	BF140122.D	29 Oct 2024 19:55	RC/JU	Ok
25	P4597-01	BF140123.D	29 Oct 2024 20:21	RC/JU	Ok,M
26	P4574-01	BF140124.D	29 Oct 2024 20:47	RC/JU	Ok
27	P4578-04	BF140125.D	29 Oct 2024 21:13	RC/JU	Ok,M
28	P4561-01	BF140126.D	29 Oct 2024 21:39	RC/JU	Ok
29	P4567-09	BF140127.D	29 Oct 2024 22:05	RC/JU	Ok
30	P4598-01	BF140128.D	29 Oct 2024 22:31	RC/JU	Ok
31	P4597-04	BF140129.D	29 Oct 2024 22:57	RC/JU	Ok
32	P4597-10	BF140130.D	29 Oct 2024 23:24	RC/JU	Ok
33	P4594-13	BF140131.D	29 Oct 2024 23:49	RC/JU	Ok
34	DFTPP	BF140132.D	30 Oct 2024 00:41	RC/JU	Ok
35	SSTDCCC040	BF140133.D	30 Oct 2024 01:11	RC/JU	Ok,M
36	PB164500BL	BF140134.D	30 Oct 2024 02:04	RC/JU	Ok
37	PB164478TB	BF140135.D	30 Oct 2024 02:30	RC/JU	Ok
38	PB164500BS	BF140136.D	30 Oct 2024 02:56	RC/JU	Ok,M
39	P4597-03	BF140137.D	30 Oct 2024 03:22	RC/JU	Ok
40	P4597-06	BF140138.D	30 Oct 2024 03:48	RC/JU	Ok
41	P4594-04	BF140139.D	30 Oct 2024 04:14	RC/JU	Ok
42	P4594-04MS	BF140140.D	30 Oct 2024 04:40	RC/JU	Ok,M
43	P4594-04MSD	BF140141.D	30 Oct 2024 05:06	RC/JU	Ok,M
44	P4594-08	BF140142.D	30 Oct 2024 05:32	RC/JU	Ok

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF102924

Review By	Jagrut	Review On	10/30/2024 10:58:28 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:49:36 AM		
SubDirectory	BF102924	HP Acquire Method	BNA_F	HP Processing Method	bf101824
STD. NAME		STD REF.#			
Tune/Reschk		SP6573			
Initial Calibration Stds		SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621			
CCC		SP6624			
Internal Standard/PEM		S12323,10ul/1000ul sample			
ICV/I.BLK		SP6559			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

45	P4594-12	BF140143.D	30 Oct 2024 05:58	RC/JU	Ok
46	P4594-16	BF140144.D	30 Oct 2024 06:24	RC/JU	Ok
47	P4594-20	BF140145.D	30 Oct 2024 06:50	RC/JU	Ok
48	P4597-09	BF140146.D	30 Oct 2024 07:16	RC/JU	Ok
49	P4597-12	BF140147.D	30 Oct 2024 07:42	RC/JU	Ok
50	P4598-04	BF140148.D	30 Oct 2024 08:08	RC/JU	Ok
51	P4598-08	BF140149.D	30 Oct 2024 08:34	RC/JU	Ok
52	P4598-12	BF140150.D	30 Oct 2024 09:00	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF103024

Review By	Jagrut	Review On	11/5/2024 4:15:40 PM
Supervise By	yogesh	Supervise On	11/6/2024 3:10:37 AM
SubDirectory	BF103024	HP Acquire Method	BNA_F
		HP Processing Method	bf101824
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	BF140151.D	30 Oct 2024 11:56	RC/JU	Ok
2	SSTDCCC040	BF140152.D	30 Oct 2024 12:50	RC/JU	Ok,M
3	PB164531BL	BF140153.D	30 Oct 2024 13:17	RC/JU	Ok
4	PB164531BS	BF140154.D	30 Oct 2024 13:43	RC/JU	Ok,M
5	P4611-10	BF140155.D	30 Oct 2024 14:14	RC/JU	Ok
6	P4578-03	BF140156.D	30 Oct 2024 14:41	RC/JU	Ok,M
7	P4612-05	BF140157.D	30 Oct 2024 15:07	RC/JU	Ok
8	P4611-13	BF140158.D	30 Oct 2024 15:34	RC/JU	Ok
9	P4611-16	BF140159.D	30 Oct 2024 16:00	RC/JU	Ok
10	P4616-05	BF140160.D	30 Oct 2024 16:26	RC/JU	Ok
11	P4618-03	BF140161.D	30 Oct 2024 16:53	RC/JU	Ok,M
12	P4611-01	BF140162.D	30 Oct 2024 17:20	RC/JU	Ok
13	P4617-01	BF140163.D	30 Oct 2024 17:46	RC/JU	Ok,M
14	P4611-04	BF140164.D	30 Oct 2024 18:13	RC/JU	ReRun
15	P4612-03	BF140165.D	30 Oct 2024 18:39	RC/JU	Ok,M
16	P4618-01	BF140166.D	30 Oct 2024 19:05	RC/JU	ReRun
17	P4595-01	BF140167.D	30 Oct 2024 19:32	RC/JU	ReRun
18	P4594-01	BF140168.D	30 Oct 2024 19:58	RC/JU	ReRun
19	P4611-07	BF140169.D	30 Oct 2024 20:25	RC/JU	ReRun
20	P4613-01	BF140170.D	30 Oct 2024 20:51	RC/JU	Ok,M
21	P4594-09	BF140171.D	30 Oct 2024 21:17	RC/JU	ReRun

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF103024

Review By	Jagrut	Review On	11/5/2024 4:15:40 PM
Supervise By	yogesh	Supervise On	11/6/2024 3:10:37 AM
SubDirectory	BF103024	HP Acquire Method	BNA_F
		HP Processing Method	bf101824
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	P4619-01	BF140172.D	30 Oct 2024 21:44	RC/JU	Dilution
23	P4614-01	BF140173.D	30 Oct 2024 22:10	RC/JU	ReRun
24	P4598-09	BF140174.D	30 Oct 2024 22:37	RC/JU	ReRun

M : Manual Integration

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF103124

Review By	yogesh	Review On	11/4/2024 1:41:34 AM
Supervise By	mohammad	Supervise On	11/4/2024 1:50:49 AM
SubDirectory	BF103124	HP Acquire Method	BNA_F
		HP Processing Method	bf101824
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	BF140175.D	31 Oct 2024 08:56	RC/JU	Ok
2	SSTDCCC040	BF140176.D	31 Oct 2024 09:22	RC/JU	Ok,M
3	PB164540BL	BF140177.D	31 Oct 2024 09:48	RC/JU	Ok
4	PB164540BS	BF140178.D	31 Oct 2024 10:15	RC/JU	Ok,M
5	PB164522TB	BF140179.D	31 Oct 2024 10:41	RC/JU	Ok
6	P4611-18	BF140180.D	31 Oct 2024 11:14	RC/JU	Ok
7	P4612-04	BF140181.D	31 Oct 2024 11:40	RC/JU	Ok
8	P4613-02	BF140182.D	31 Oct 2024 12:07	RC/JU	Ok
9	P4616-04	BF140183.D	31 Oct 2024 12:33	RC/JU	Ok
10	P4611-04	BF140184.D	31 Oct 2024 13:03	RC/JU	Ok,M
11	P4611-09	BF140185.D	31 Oct 2024 13:29	RC/JU	Ok
12	P4611-06	BF140186.D	31 Oct 2024 13:55	RC/JU	Ok
13	P4611-03	BF140187.D	31 Oct 2024 14:21	RC/JU	Ok
14	P4611-03MS	BF140188.D	31 Oct 2024 14:48	RC/JU	Ok,M
15	P4611-03MSD	BF140189.D	31 Oct 2024 15:14	RC/JU	Ok,M
16	P4594-09	BF140190.D	31 Oct 2024 15:42	RC/JU	Ok
17	P4614-01	BF140191.D	31 Oct 2024 16:08	RC/JU	Ok,M
18	P4619-01DL	BF140192.D	31 Oct 2024 16:35	RC/JU	Ok,M
19	P4578-01	BF140193.D	31 Oct 2024 17:01	RC/JU	ReRun
20	P4617-04	BF140194.D	31 Oct 2024 17:28	RC/JU	Ok
21	P4611-15	BF140195.D	31 Oct 2024 17:54	RC/JU	Ok

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF103124

Review By	yogesh	Review On	11/4/2024 1:41:34 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:50:49 AM		
SubDirectory	BF103124	HP Acquire Method	BNA_F	HP Processing Method	bf101824
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	P4611-12	BF140196.D	31 Oct 2024 18:21	RC/JU	Ok
23	P4643-09	BF140197.D	31 Oct 2024 18:47	RC/JU	Ok
24	P4639-01	BF140198.D	31 Oct 2024 19:13	RC/JU	Ok,M

M : Manual Integration

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF110124

Review By	yogesh	Review On	11/4/2024 1:46:46 AM
Supervise By	mohammad	Supervise On	11/4/2024 1:51:22 AM
SubDirectory	BF110124	HP Acquire Method	BNA_F
		HP Processing Method	bf101824
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	BF140199.D	01 Nov 2024 08:56	RC/JU	Ok
2	SSTDCCC040	BF140200.D	01 Nov 2024 09:22	RC/JU	Ok,M
3	PB164558BL	BF140201.D	01 Nov 2024 09:49	RC/JU	Ok
4	PB164558BS	BF140202.D	01 Nov 2024 10:15	RC/JU	Ok,M
5	PB164531BS	BF140203.D	01 Nov 2024 10:41	RC/JU	Ok,M
6	P4643-01	BF140204.D	01 Nov 2024 11:14	RC/JU	Ok
7	P4643-05	BF140205.D	01 Nov 2024 11:40	RC/JU	Ok
8	P4578-01RE	BF140206.D	01 Nov 2024 12:07	RC/JU	Confirms
9	P4578-02RE	BF140207.D	01 Nov 2024 12:33	RC/JU	Confirms
10	P4663-08	BF140208.D	01 Nov 2024 14:00	RC/JU	Ok
11	P4663-08MS	BF140209.D	01 Nov 2024 14:27	RC/JU	Ok,M
12	P4663-08MSD	BF140210.D	01 Nov 2024 14:53	RC/JU	Ok,M
13	P4659-01	BF140211.D	01 Nov 2024 15:20	RC/JU	ReRun
14	P4663-04	BF140212.D	01 Nov 2024 15:47	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QC Batch ID # BE102824

Review By	yogesh	Review On	10/29/2024 4:57:44 AM		
Supervise By	mohammad	Supervise On	10/30/2024 2:48:38 AM		
SubDirectory	BE102824	HP Acquire Method	BNA_E	HP Processing Method	be102824
STD. NAME	STD REF.#				
Tune/Reschk	SP6573				
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621				
CCC	SP6624				
Internal Standard/PEM	S12323,10ul/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	BE101388.D	28 Oct 2024 10:51		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BE101389.D	28 Oct 2024 11:44		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BE101390.D	28 Oct 2024 12:23	Compound #32,54,56,65 removed from 5ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BE101391.D	28 Oct 2024 12:59		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BE101392.D	28 Oct 2024 13:35	Compound #32,54 Kept on LR	RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BE101393.D	28 Oct 2024 14:11	The Calibration is Good For 8270 DOD Except com#77 and Not good for 625.1 Method	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BE101394.D	28 Oct 2024 14:49	Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BE101395.D	28 Oct 2024 15:25	Compound #69 removed from 60ppm	RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BE101396.D	28 Oct 2024 16:01	Compound #9,69,79 removed from 80ppm	RC/JU	Ok,M
10	SSTDICV040	ICVBE102824	BE101397.D	28 Oct 2024 16:37	ICV Fail for Com#77 for Both DOD and NON-DOD	RC/JU	Ok,M
11	PB164444BL	PB164444BL	BE101398.D	28 Oct 2024 17:16		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QC Batch ID # BE103124

Review By	yogesh	Review On	11/4/2024 1:42:16 AM
Supervise By	mohammad	Supervise On	11/4/2024 1:50:57 AM
SubDirectory	BE103124	HP Acquire Method	BNA_E
		HP Processing Method	be102824

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	BE101424.D	31 Oct 2024 9:40		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BE101425.D	31 Oct 2024 10:18		RC/JU	Ok,M
3	PB164533BL	PB164533BL	BE101426.D	31 Oct 2024 10:57		RC/JU	Ok
4	PB164533BS	PB164533BS	BE101427.D	31 Oct 2024 11:33		RC/JU	Ok,M
5	PB164533BSD	PB164533BSD	BE101428.D	31 Oct 2024 12:09		RC/JU	Ok,M
6	P4616-08	BP-F9-MOVED	BE101429.D	31 Oct 2024 12:51		RC/JU	Ok
7	P4616-01	BP-F10	BE101430.D	31 Oct 2024 13:26		RC/JU	Ok
8	P4616-01MS	BP-F10MS	BE101431.D	31 Oct 2024 14:02	MSD Not OK	RC/JU	Not Ok
9	P4616-01MSD	BP-F10MSD	BE101432.D	31 Oct 2024 14:38	Internal standard fail	RC/JU	Not Ok
10	P4578-02	WB-305-SW-1	BE101433.D	31 Oct 2024 15:14	Surrogate Fail	RC/JU	ReRun
11	P4639-03	EO-02-103024	BE101434.D	31 Oct 2024 15:50		RC/JU	Ok
12	P4640-01	MH-3	BE101435.D	31 Oct 2024 16:25		RC/JU	Ok,M
13	P4640-01MS	MH-3MS	BE101436.D	31 Oct 2024 17:01		RC/JU	Ok,M
14	P4640-01MSD	MH-3MSD	BE101437.D	31 Oct 2024 17:37		RC/JU	Ok,M
15	P4598-09	TP-8	BE101438.D	31 Oct 2024 18:13		RC/JU	Ok
16	P4594-01	TP-4	BE101439.D	31 Oct 2024 18:49		RC/JU	Ok
17	P4611-07	TP-3	BE101440.D	31 Oct 2024 19:24		RC/JU	Ok,M
18	P4618-01	HR-01-102924	BE101441.D	31 Oct 2024 20:00		RC/JU	Ok

Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QC Batch ID # BE103124

Review By	yogesh	Review On	11/4/2024 1:42:16 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:50:57 AM		
SubDirectory	BE103124	HP Acquire Method	BNA_E	HP Processing Method	be102824

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	

19	P4595-01	PITKIN-COMP	BE101442.D	31 Oct 2024 20:36		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM
SubDirectory	BF101824	HP Acquire Method	BNA_F
		HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/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	BF139843.D	18 Oct 2024 09:22		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF139844.D	18 Oct 2024 10:27		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF139845.D	18 Oct 2024 10:55	Compound #9,32,54,65,85 removed from 5 ppm	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF139846.D	18 Oct 2024 11:23		RC/JU	Ok
5	SSTDICC020	SSTDICC020	BF139847.D	18 Oct 2024 11:52	Compound #54 Kept on LR	RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF139848.D	18 Oct 2024 12:20	The Calibration is Good For 8270 DOD Except com#77 and good for 625.1 Method	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BF139849.D	18 Oct 2024 12:49	Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BF139850.D	18 Oct 2024 13:17		RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BF139851.D	18 Oct 2024 13:46		RC/JU	Ok,M
10	SSTDICV040	SSTDICV040	BF139852.D	18 Oct 2024 14:19		RC/JU	Ok,M
11	PB164211BL	PB164211BL	BF139853.D	18 Oct 2024 14:48		RC/JU	Ok
12	P4405-01	MH-121	BF139854.D	18 Oct 2024 15:21		RC/JU	Ok
13	P4431-01	72-11934	BF139855.D	18 Oct 2024 15:50		RC/JU	Ok,M
14	P4421-01	EO-02-101624	BF139856.D	18 Oct 2024 16:18		RC/JU	Ok,M
15	P4422-01	EO-01-101624	BF139857.D	18 Oct 2024 16:46		RC/JU	Ok
16	P4425-01	TP-1	BF139858.D	18 Oct 2024 17:15		RC/JU	Ok

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824
STD. NAME		STD REF.#			
Tune/Reschk		SP6573			
Initial Calibration Stds		SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621			
CCC		SP6624			
Internal Standard/PEM		S12322,10ul/1000ul sample			
ICV/I.BLK		SP6559			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

17	P4425-03	TP-2	BF139859.D	18 Oct 2024 17:44		RC/JU	Ok
18	P4425-05	TP-3	BF139860.D	18 Oct 2024 18:12		RC/JU	Ok
19	P4425-07	TP-4	BF139861.D	18 Oct 2024 18:41	Internal Standrad Fail	RC/JU	ReRun
20	P4425-09	TP-5	BF139862.D	18 Oct 2024 19:09	Internal Standrad Fail	RC/JU	ReRun
21	P4426-03	PAD-2	BF139863.D	18 Oct 2024 19:37	Internal Standrad Fail	RC/JU	ReRun
22	P4426-07	PAD-4	BF139864.D	18 Oct 2024 20:05	Internal Standrad Fail	RC/JU	ReRun
23	P4426-17	PAD-9	BF139865.D	18 Oct 2024 20:34	Internal Standard Fail	RC/JU	ReRun
24	P4426-11	PAD-6	BF139866.D	18 Oct 2024 21:02	Internal Standard Fail	RC/JU	ReRun

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF102924

Review By	Jagrut	Review On	10/30/2024 10:58:28 AM
Supervise By	mohammad	Supervise On	11/4/2024 1:49:36 AM
SubDirectory	BF102924	HP Acquire Method	BNA_F
		HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/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	BF140099.D	29 Oct 2024 09:09		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140100.D	29 Oct 2024 09:37		RC/JU	Ok,M
3	PB164461BL	PB164461BL	BF140101.D	29 Oct 2024 10:05		RC/JU	Ok
4	PB164461BS	PB164461BS	BF140102.D	29 Oct 2024 10:33		RC/JU	Ok,M
5	P4495-12	PT-TRIAZINE-SOIL	BF140103.D	29 Oct 2024 11:01		RC/JU	Ok
6	P4561-05	BP-F-18	BF140104.D	29 Oct 2024 11:34		RC/JU	Ok
7	P4561-05MS	BP-F-18MS	BF140105.D	29 Oct 2024 12:02		RC/JU	Ok,M
8	P4561-05MSD	BP-F-18MSD	BF140106.D	29 Oct 2024 12:30		RC/JU	Ok,M
9	P4574-07	CONCRETE-1	BF140107.D	29 Oct 2024 12:58		RC/JU	Ok
10	P4574-09	CONCRETE-2	BF140108.D	29 Oct 2024 13:24		RC/JU	Ok
11	P4574-11	CONCRETE-3	BF140109.D	29 Oct 2024 13:50		RC/JU	Ok
12	P4578-05	WB-305-BOT	BF140110.D	29 Oct 2024 14:16		RC/JU	Ok
13	P4578-07	WB-305-BOT-1	BF140111.D	29 Oct 2024 14:42		RC/JU	Ok
14	DFTPP	DFTPP	BF140112.D	29 Oct 2024 15:35		RC/JU	Ok
15	SSTDCCC040	SSTDCCC040	BF140113.D	29 Oct 2024 16:01		RC/JU	Ok,M
16	PB164497BL	PB164497BL	BF140114.D	29 Oct 2024 16:26		RC/JU	Ok
17	PB164497BS	PB164497BS	BF140115.D	29 Oct 2024 16:52		RC/JU	Ok,M
18	P4594-05	BP-F17	BF140116.D	29 Oct 2024 17:18		RC/JU	Ok

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF102924

Review By	Jagrut	Review On	10/30/2024 10:58:28 AM
Supervise By	mohammad	Supervise On	11/4/2024 1:49:36 AM
SubDirectory	BF102924	HP Acquire Method	BNA_F
		HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4594-05MS	BP-F17MS	BF140117.D	29 Oct 2024 17:45		RC/JU	Ok,M
20	P4594-05MSD	BP-F17MSD	BF140118.D	29 Oct 2024 18:11		RC/JU	Ok,M
21	P4597-07	BLUE-2-1	BF140119.D	29 Oct 2024 18:37		RC/JU	Ok,M
22	P4594-17	BP-F15	BF140120.D	29 Oct 2024 19:03		RC/JU	Ok
23	P4598-05	BP-F11	BF140121.D	29 Oct 2024 19:29		RC/JU	Ok
24	P4567-05	WC-2	BF140122.D	29 Oct 2024 19:55		RC/JU	Ok
25	P4597-01	RED-1-1	BF140123.D	29 Oct 2024 20:21		RC/JU	Ok,M
26	P4574-01	GRAVEL-1	BF140124.D	29 Oct 2024 20:47		RC/JU	Ok
27	P4578-04	WB-305-TOP-1	BF140125.D	29 Oct 2024 21:13		RC/JU	Ok,M
28	P4561-01	BP-F-19	BF140126.D	29 Oct 2024 21:39		RC/JU	Ok
29	P4567-09	WC-3	BF140127.D	29 Oct 2024 22:05		RC/JU	Ok
30	P4598-01	BP-F12	BF140128.D	29 Oct 2024 22:31		RC/JU	Ok
31	P4597-04	RED-1-2	BF140129.D	29 Oct 2024 22:57		RC/JU	Ok
32	P4597-10	BLUE-2-2	BF140130.D	29 Oct 2024 23:24		RC/JU	Ok
33	P4594-13	TP-5	BF140131.D	29 Oct 2024 23:49		RC/JU	Ok
34	DFTPP	DFTPP	BF140132.D	30 Oct 2024 00:41		RC/JU	Ok
35	SSTDCCC040	SSTDCCC040	BF140133.D	30 Oct 2024 01:11		RC/JU	Ok,M
36	PB164500BL	PB164500BL	BF140134.D	30 Oct 2024 02:04		RC/JU	Ok
37	PB164478TB	PB164478TB	BF140135.D	30 Oct 2024 02:30		RC/JU	Ok

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF102924

Review By	Jagrut	Review On	10/30/2024 10:58:28 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:49:36 AM		
SubDirectory	BF102924	HP Acquire Method	BNA_F	HP Processing Method	bf101824
STD. NAME	STD REF.#				
Tune/Reschk	SP6573				
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621				
CCC	SP6624				
Internal Standard/PEM	S12323,10ul/1000ul sample				
ICV/I.BLK	SP6559				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

38	PB164500BS	PB164500BS	BF140136.D	30 Oct 2024 02:56		RC/JU	Ok,M
39	P4597-03	RED-1-1	BF140137.D	30 Oct 2024 03:22		RC/JU	Ok
40	P4597-06	RED-1-2	BF140138.D	30 Oct 2024 03:48		RC/JU	Ok
41	P4594-04	TP-4	BF140139.D	30 Oct 2024 04:14		RC/JU	Ok
42	P4594-04MS	TP-4MS	BF140140.D	30 Oct 2024 04:40		RC/JU	Ok,M
43	P4594-04MSD	TP-4MSD	BF140141.D	30 Oct 2024 05:06		RC/JU	Ok,M
44	P4594-08	BP-F17	BF140142.D	30 Oct 2024 05:32		RC/JU	Ok
45	P4594-12	BP-F16	BF140143.D	30 Oct 2024 05:58		RC/JU	Ok
46	P4594-16	TP-5	BF140144.D	30 Oct 2024 06:24		RC/JU	Ok
47	P4594-20	BP-F15	BF140145.D	30 Oct 2024 06:50		RC/JU	Ok
48	P4597-09	BLUE-2-1	BF140146.D	30 Oct 2024 07:16		RC/JU	Ok
49	P4597-12	BLUE-2-2	BF140147.D	30 Oct 2024 07:42		RC/JU	Ok
50	P4598-04	BP-F12	BF140148.D	30 Oct 2024 08:08		RC/JU	Ok
51	P4598-08	BP-F11	BF140149.D	30 Oct 2024 08:34		RC/JU	Ok
52	P4598-12	TP-8	BF140150.D	30 Oct 2024 09:00		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF103024

Review By	Jagrut	Review On	11/5/2024 4:15:40 PM
Supervise By	yogesh	Supervise On	11/6/2024 3:10:37 AM
SubDirectory	BF103024	HP Acquire Method	BNA_F
		HP Processing Method	bf101824

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	BF140151.D	30 Oct 2024 11:56		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140152.D	30 Oct 2024 12:50		RC/JU	Ok,M
3	PB164531BL	PB164531BL	BF140153.D	30 Oct 2024 13:17		RC/JU	Ok
4	PB164531BS	PB164531BS	BF140154.D	30 Oct 2024 13:43		RC/JU	Ok,M
5	P4611-10	TP-4	BF140155.D	30 Oct 2024 14:14		RC/JU	Ok
6	P4578-03	WB-305-TOP	BF140156.D	30 Oct 2024 14:41		RC/JU	Ok,M
7	P4612-05	CONCRETE-PAD	BF140157.D	30 Oct 2024 15:07		RC/JU	Ok
8	P4611-13	TP-5	BF140158.D	30 Oct 2024 15:34		RC/JU	Ok
9	P4611-16	TP-6	BF140159.D	30 Oct 2024 16:00		RC/JU	Ok
10	P4616-05	BP-F9-MOVED	BF140160.D	30 Oct 2024 16:26		RC/JU	Ok
11	P4618-03	HR-04-102924	BF140161.D	30 Oct 2024 16:53		RC/JU	Ok,M
12	P4611-01	TP-1	BF140162.D	30 Oct 2024 17:20		RC/JU	Ok
13	P4617-01	RO-SOIL	BF140163.D	30 Oct 2024 17:46	Internal Standard Fail	RC/JU	Ok,M
14	P4611-04	TP-2	BF140164.D	30 Oct 2024 18:13	Internal standard fail	RC/JU	ReRun
15	P4612-03	MOO-24-00335	BF140165.D	30 Oct 2024 18:39	Internal standard fail	RC/JU	Ok,M
16	P4618-01	HR-01-102924	BF140166.D	30 Oct 2024 19:05	Internal standard fail	RC/JU	ReRun
17	P4595-01	PITKIN-COMP	BF140167.D	30 Oct 2024 19:32	Internal standard fail	RC/JU	ReRun
18	P4594-01	TP-4	BF140168.D	30 Oct 2024 19:58	Internal standard fail	RC/JU	ReRun

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF103024

Review By	Jagrut	Review On	11/5/2024 4:15:40 PM		
Supervise By	yogesh	Supervise On	11/6/2024 3:10:37 AM		
SubDirectory	BF103024	HP Acquire Method	BNA_F	HP Processing Method	bf101824
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					

19	P4611-07	TP-3	BF140169.D	30 Oct 2024 20:25	Internal standard fail	RC/JU	ReRun
20	P4613-01	ARS20-0001	BF140170.D	30 Oct 2024 20:51	Internal standard fail	RC/JU	Ok,M
21	P4594-09	BP-F16	BF140171.D	30 Oct 2024 21:17	Internal standard fail	RC/JU	ReRun
22	P4619-01	SU-03-102924	BF140172.D	30 Oct 2024 21:44	Internal standard fail, Need 2X Dilution	RC/JU	Dilution
23	P4614-01	NB-07-102924	BF140173.D	30 Oct 2024 22:10	Internal standard fail	RC/JU	ReRun
24	P4598-09	TP-8	BF140174.D	30 Oct 2024 22:37	Internal standard fail	RC/JU	ReRun

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF103124

Review By	yogesh	Review On	11/4/2024 1:41:34 AM
Supervise By	mohammad	Supervise On	11/4/2024 1:50:49 AM
SubDirectory	BF103124	HP Acquire Method	BNA_F
		HP Processing Method	bf101824

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	BF140175.D	31 Oct 2024 08:56		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140176.D	31 Oct 2024 09:22		RC/JU	Ok,M
3	PB164540BL	PB164540BL	BF140177.D	31 Oct 2024 09:48		RC/JU	Ok
4	PB164540BS	PB164540BS	BF140178.D	31 Oct 2024 10:15		RC/JU	Ok,M
5	PB164522TB	PB164522TB	BF140179.D	31 Oct 2024 10:41		RC/JU	Ok
6	P4611-18	TP-6	BF140180.D	31 Oct 2024 11:14		RC/JU	Ok
7	P4612-04	MOO-24-00335	BF140181.D	31 Oct 2024 11:40		RC/JU	Ok
8	P4613-02	ARS20-0001	BF140182.D	31 Oct 2024 12:07		RC/JU	Ok
9	P4616-04	BP-F10	BF140183.D	31 Oct 2024 12:33		RC/JU	Ok
10	P4611-04	TP-2	BF140184.D	31 Oct 2024 13:03		RC/JU	Ok,M
11	P4611-09	TP-3	BF140185.D	31 Oct 2024 13:29		RC/JU	Ok
12	P4611-06	TP-2	BF140186.D	31 Oct 2024 13:55		RC/JU	Ok
13	P4611-03	TP-1	BF140187.D	31 Oct 2024 14:21		RC/JU	Ok
14	P4611-03MS	TP-1MS	BF140188.D	31 Oct 2024 14:48		RC/JU	Ok,M
15	P4611-03MSD	TP-1MSD	BF140189.D	31 Oct 2024 15:14		RC/JU	Ok,M
16	P4594-09	BP-F16	BF140190.D	31 Oct 2024 15:42		RC/JU	Ok
17	P4614-01	NB-07-102924	BF140191.D	31 Oct 2024 16:08		RC/JU	Ok,M
18	P4619-01DL	SU-03-102924DL	BF140192.D	31 Oct 2024 16:35		RC/JU	Ok,M

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF103124

Review By	yogesh	Review On	11/4/2024 1:41:34 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:50:49 AM		
SubDirectory	BF103124	HP Acquire Method	BNA_F	HP Processing Method	bf101824
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					

19	P4578-01	WB-305-SW	BF140193.D	31 Oct 2024 17:01	Surrogate Fail	RC/JU	ReRun
20	P4617-04	CONCRETE-PILE	BF140194.D	31 Oct 2024 17:28		RC/JU	Ok
21	P4611-15	TP-5	BF140195.D	31 Oct 2024 17:54		RC/JU	Ok
22	P4611-12	TP-4	BF140196.D	31 Oct 2024 18:21		RC/JU	Ok
23	P4643-09	TP-9	BF140197.D	31 Oct 2024 18:47		RC/JU	Ok
24	P4639-01	EO-01-103024	BF140198.D	31 Oct 2024 19:13		RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF110124

Review By	yogesh	Review On	11/4/2024 1:46:46 AM
Supervise By	mohammad	Supervise On	11/4/2024 1:51:22 AM
SubDirectory	BF110124	HP Acquire Method	BNA_F
		HP Processing Method	bf101824

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	BF140199.D	01 Nov 2024 08:56		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140200.D	01 Nov 2024 09:22		RC/JU	Ok,M
3	PB164558BL	PB164558BL	BF140201.D	01 Nov 2024 09:49		RC/JU	Ok
4	PB164558BS	PB164558BS	BF140202.D	01 Nov 2024 10:15		RC/JU	Ok,M
5	PB164531BS	PB164531BS	BF140203.D	01 Nov 2024 10:41		RC/JU	Ok,M
6	P4643-01	BP-F9-ADDITIONAL	BF140204.D	01 Nov 2024 11:14		RC/JU	Ok
7	P4643-05	BP-F8	BF140205.D	01 Nov 2024 11:40		RC/JU	Ok
8	P4578-01RE	WB-305-SWRE	BF140206.D	01 Nov 2024 12:07	Surrogate Fail	RC/JU	Confirms
9	P4578-02RE	WB-305-SW-1RE	BF140207.D	01 Nov 2024 12:33	Surrogate Fail	RC/JU	Confirms
10	P4663-08	RES-BUILDING-PAD-N	BF140208.D	01 Nov 2024 14:00		RC/JU	Ok
11	P4663-08MS	RES-BUILDING-PAD-N	BF140209.D	01 Nov 2024 14:27		RC/JU	Ok,M
12	P4663-08MSD	RES-BUILDING-PAD-N	BF140210.D	01 Nov 2024 14:53		RC/JU	Ok,M
13	P4659-01	MH-2	BF140211.D	01 Nov 2024 15:20	Internal standard fail	RC/JU	ReRun
14	P4663-04	RES-BUILDING-PAD-N	BF140212.D	01 Nov 2024 15:47		RC/JU	Ok

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/28/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 18:15
In Date: 10/25/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:38
Out Date: 10/26/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133131

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
P4561-01	BP-F-19	1	1.16	8.48	9.64	8.73	89.3	
P4561-02	BP-F-19-EPH	2	1.16	8.50	9.66	8.77	89.5	
P4561-03	BP-F-19-VOC	3	1.15	8.80	9.95	9.16	91.0	
P4561-05	BP-F-18	4	1.15	8.40	9.55	8.36	85.8	
P4561-06	BP-F-18-EPH	5	1.13	8.44	9.57	8.29	84.8	
P4561-07	BP-F-18-VOC	6	1.12	8.71	9.83	8.52	85.0	
P4562-05	SVOC-GPC-BLANK	7	1.00	1.00	2.00	2.00	100.0	
P4562-06	PEST-GPC-BLANK	8	1.00	1.00	2.00	2.00	100.0	
P4562-07	PEST-GPC-BLANK-SPIKE	9	1.00	1.00	2.00	2.00	100.0	
P4562-08	PCB-GPC-BLANK	10	1.00	1.00	2.00	2.00	100.0	
P4562-09	PCB-GPC-BLANK-SPIKE	11	1.00	1.00	2.00	2.00	100.0	
P4562-10	SVOC-GPC2-BLANK	12	1.00	1.00	2.00	2.00	100.0	
P4562-11	PEST-GPC2-BLANK	13	1.00	1.00	2.00	2.00	100.0	
P4562-12	PEST-GPC2-BLANK-SPIKE	14	1.00	1.00	2.00	2.00	100.0	
P4562-13	PCB-GPC2-BLANK	15	1.00	1.00	2.00	2.00	100.0	
P4562-14	PCB-GPC2-BLANK-SPIKE	16	1.00	1.00	2.00	2.00	100.0	
P4563-01	100724-A	26	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-02	100724-B	27	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-03	100724-C	28	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-04	100724-D	29	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-05	100824-A	30	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-06	100924-A	31	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-07	100924-B	32	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-08	101424-A	33	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-09	102324-A	34	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-10	102524-A	35	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-11	FITTING-1	36	1.00	1.00	2.00	2.00	100.0	wipe sample
P4563-12	FITTING-2	37	1.00	1.00	2.00	2.00	100.0	wipe sample



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/28/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 18:15
In Date: 10/25/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:38
Out Date: 10/26/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133131

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
P4565-01	2054	38	1.00	1.00	2.00	2.00	100.0	wipe sample
P4565-02	2055	39	1.00	1.00	2.00	2.00	100.0	wipe sample
P4565-03	2056	40	1.00	1.00	2.00	2.00	100.0	wipe sample
P4565-04	2057	41	1.00	1.00	2.00	2.00	100.0	wipe sample
P4565-05	2058	42	1.00	1.00	2.00	2.00	100.0	wipe sample
P4565-06	2059	43	1.00	1.00	2.00	2.00	100.0	wipe sample
P4566-01	HD-01-102524	44	1.14	8.57	9.71	9.47	97.2	
P4566-02	HD-01-102524-E2	45	1.13	8.84	9.97	9.42	93.8	
P4567-01	WC-1	17	1.16	8.50	9.66	8.89	90.9	
P4567-02	WC-1-EPH	18	1.13	8.67	9.8	8.99	90.7	
P4567-03	WC-1-VOC	19	1.18	8.35	9.53	9.05	94.3	
P4567-05	WC-2	20	1.11	8.58	9.69	8.99	91.8	
P4567-06	WC-2-EPH	21	1.18	8.79	9.97	9.12	90.3	
P4567-07	WC-2-VOC	22	1.16	8.46	9.62	9.46	98.1	
P4567-09	WC-3	23	1.17	8.41	9.58	8.69	89.4	
P4567-10	WC-3-EPH	24	1.19	8.78	9.97	9.17	90.9	
P4567-11	WC-3-VOC	25	1.14	8.82	9.96	9.19	91.3	
P4574-01	GRAVEL-1	50	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4574-02	GRAVEL-1-E2	51	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4574-04	GRAVEL-2	52	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4574-05	GRAVEL-2-E2	53	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids
P4574-07	CONCRETE-1	54	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4574-09	CONCRETE-2	55	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4574-11	CONCRETE-3	56	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4575-01	PL-02-102424	57	1.15	8.42	9.57	8.84	91.3	
P4575-02	PL-02-102424-E2	58	1.15	8.83	9.98	8.99	88.8	
P4576-01	1097	59	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
P4576-02	1098	60	1.00	1.00	2.00	2.00	100.0	WIPE Sample



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/28/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 18:15
In Date: 10/25/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:38
Out Date: 10/26/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133131

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
P4577-01	TR-05-102524	61	1.18	8.40	9.58	9.03	93.5	
P4577-02	TR-05-102524-E2	62	1.17	8.53	9.7	9.03	92.1	
P4578-03	WB-305-TOP	46	1.15	8.81	9.96	5.89	53.8	
P4578-04	WB-305-TOP-1	47	1.12	8.82	9.94	6.3	58.7	
P4578-05	WB-305-BOT	48	1.15	8.81	9.96	8.38	82.1	
P4578-07	WB-305-BOT-1	49	1.13	8.86	9.99	9.49	94.4	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

133131

WorkList Name : %1-102524 WorkList ID : 184773 Department : Wet-Chemistry Date : 10-25-2024 09:56:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4561-01	BP-F-19	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4561-02	BP-F-19-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4561-03	BP-F-19-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4561-05	BP-F-18	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4561-06	BP-F-18-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4561-07	BP-F-18-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4562-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4562-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	K11	10/25/2024	Chemtech -SO
P4563-01	100724-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-02	100724-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-03	100724-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-04	100724-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-05	100824-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO

Date/Time 10/25/24 16:30 Date/Time 10/25/24 Date/Time 18:30
 Raw Sample Received by: 80 wpc Raw Sample Received by: J.C. Sam Raw Sample Received by: J.C. Sam
 Raw Sample Relinquished by: J.C. Sam Raw Sample Relinquished by: J.C. Sam Raw Sample Relinquished by: J.C. Sam

WORKLIST(Hardcopy Internal Chain)

133131

WorkList Name : %1-102524 WorkList ID : 184773 Department : Wet-Chemistry Date : 10-25-2024 09:56:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4563-06	100924-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-07	100924-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-08	101424-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-09	102324-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-10	102524-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-11	FITTING-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4563-12	FITTING-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4565-01	2054	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4565-02	2055	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4565-03	2056	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4565-04	2057	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4565-05	2058	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4565-06	2059	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4566-01	HD-01-102524	Solid	Percent Solids	Cool 4 deg C	PSEG05	K63	10/25/2024	Chemtech -SO
P4566-02	HD-01-102524-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	K63	10/25/2024	Chemtech -SO
P4567-01	WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4567-02	WC-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4567-03	WC-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4567-05	WC-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4567-06	WC-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4567-07	WC-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO

Date/Time 10/25/24 16:30
 Raw Sample Received by: J.C. Jm
 Raw Sample Relinquished by: J.C. Jm
 Date/Time 10/25/24 18:30
 Raw Sample Received by: J.C. Jm
 Raw Sample Relinquished by: J.C. Jm

WORKLIST(Hardcopy Internal Chain)

WB133131

WorkList Name : %1-102524

WorkList ID : 184773

Department : Wet-Chemistry

Date : 10-25-2024 09:56:39

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4567-09	WC-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4567-10	WC-3-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4567-11	WC-3-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/25/2024	Chemtech -SO
P4574-01	GRAVEL-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4574-02	GRAVEL-1-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4574-04	GRAVEL-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4574-05	GRAVEL-2-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4574-07	CONCRETE-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4574-09	CONCRETE-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4574-11	CONCRETE-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4575-01	PL-02-102424	Solid	Percent Solids	Cool 4 deg C	PSEG05	K63	10/25/2024	Chemtech -SO
P4575-02	PL-02-102424-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	K63	10/25/2024	Chemtech -SO
P4576-01	1097	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4576-02	1098	Solid	Percent Solids	Cool 4 deg C	PSEG03	K63	10/25/2024	Chemtech -SO
P4577-01	TR-05-102524	Solid	Percent Solids	Cool 4 deg C	PSEG05	K63	10/25/2024	Chemtech -SO
P4577-02	TR-05-102524-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	K63	10/25/2024	Chemtech -SO
P4578-03	WB-305-TOP	Solid	Percent Solids	Cool 4 deg C	PORT06	K63	10/25/2024	Chemtech -SO
P4578-04	WB-305-TOP-1	Solid	Percent Solids	Cool 4 deg C	PORT06	K63	10/25/2024	Chemtech -SO
P4578-05	WB-305-BOT	Solid	Percent Solids	Cool 4 deg C	PORT06	K63	10/25/2024	Chemtech -SO
P4578-07	WB-305-BOT-1	Solid	Percent Solids	Cool 4 deg C	PORT06	K63	10/25/2024	Chemtech -SO

Date/Time 10/25/24 16:30
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 10/25/24 18:30
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 10/28/2024

Extraction Start Time : 09:00

Extraction End Date : 10/28/2024

Extraction End Time : 12:00

Concentration By: EH

Supervisor By : rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet

Standarded 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
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	EP2554
Sand	N/A	E2865
Methylene Chloride	N/A	E3822
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
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/28/24	RP (Ext. Lab)	Rclsvoc
12:05	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 10/28/2024

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164461BL	SBLK461	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			U1-1
PB164461BS	SLCS461	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			2
P4561-01	BP-F-19	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	B		3
P4561-05	BP-F-18	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	B		4
P4561-05MS	BP-F-18MS	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	B		5
P4561-05MS D	BP-F-18MSD	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	B		6
P4566-01	HD-01-102524	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	E		U5-1
P4567-01	WC-1	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	B		2
P4567-05	WC-2	SVOC-TCL BNA -20	50.10	N/A	ritesh	Evelyn	1	B		3
P4567-09	WC-3	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	B		4
P4574-01	GRAVEL-1	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E	Stone	5
P4574-04	GRAVEL-2	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E	Stone	6
P4574-07	CONCRETE-1	SVOC-PAH	50.06	N/A	ritesh	Evelyn	1	A	Concrete	U6-1
P4574-09	CONCRETE-2	SVOC-PAH	50.08	N/A	ritesh	Evelyn	1	A	Concrete	2
P4574-11	CONCRETE-3	SVOC-PAH	50.01	N/A	ritesh	Evelyn	1	A	Concrete	3
P4575-01	PL-02-102424	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		4
P4577-01	TR-05-102524	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	E		5
P4578-03	WB-305-TOP	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		6
P4578-04	WB-305-TOP-1	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		U7-1
P4578-05	WB-305-BOT	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		2
P4578-07	WB-305-BOT-1	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	E		3

* Extracts relinquished on the same date as received.



16461
9:00

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p4567 WorkList ID : 184853 Department : Extraction Date : 10-28-2024 08:26:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4561-01	BP-F-19	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K63	10/25/2024	8270E
P4561-05	BP-F-18	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K63	10/25/2024	8270E
P4566-01	HD-01-102524	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	K63	10/25/2024	8270E
P4567-01	WC-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K61	10/25/2024	8270E
P4567-05	WC-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K61	10/25/2024	8270E
P4567-09	WC-3	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K61	10/25/2024	8270E
P4574-01	GRAVEL-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K63	10/25/2024	8270E
P4574-04	GRAVEL-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K63	10/25/2024	8270E
P4574-07	CONCRETE-1	Solid	SVOC-PAH	Cool 4 deg C	PSEG03	K63	10/25/2024	8270E
P4574-09	CONCRETE-2	Solid	SVOC-PAH	Cool 4 deg C	PSEG03	K63	10/25/2024	8270E
P4574-11	CONCRETE-3	Solid	SVOC-PAH	Cool 4 deg C	PSEG03	K63	10/25/2024	8270E
P4575-01	PL-02-102424	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	K63	10/25/2024	8270E
P4577-01	TR-05-102524	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	K63	10/25/2024	8270E
P4578-03	WB-305-TOP	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K63	10/25/2024	8270E
P4578-04	WB-305-TOP-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K63	10/25/2024	8270E
P4578-05	WB-305-BOT	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K63	10/25/2024	8270E
P4578-07	WB-305-BOT-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K63	10/25/2024	8270E

Date/Time 10/28/24 8:55
Raw Sample Received by: RJ (Sgt 104)
Raw Sample Relinquished by: JDCSM

Date/Time 10/28/24 8:30
Raw Sample Received by: JDCSM
Raw Sample Relinquished by: RJ (Sgt 104)

SOP ID: M3510C,3580A-Extraction SYOC-20

Clean Up SOP #: N/A

Extraction Start Date : 10/30/2024

Matrix : Water

Extraction Start Time : 08:50

Weigh By: N/A

Extraction By: RS

Extraction End Date : 10/30/2024

Balance check: N/A

Filter By: RS

Extraction End Time : 13:45

Balance ID: N/A

pH Meter ID: N/A

Concentration By: EH

pH Strip Lot#: E3574

Hood ID: 4,5,6,7

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
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. P4578-01,02 Limited volume recd.

KD Bath ID: Water bath -01,02

Envap ID: NE VAP-02

KD Bath Temperature: 60 °C

Envap Temperature: 40 °C

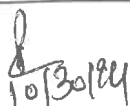
Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/30/24 13:50	RP (Rajesh Raj)	AC/SVOC
	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 10/30/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164533BL	SBLK533	SVOC-TCL BNA -20	1000	6	ritesh	rajesh	1			SEP-12
PB164533BS	SLCS533	SVOC-TCL BNA -20	1000	6	ritesh	rajesh	1			13
PB164533BS D	SLCSD533	SVOC-TCL BNA -20	1000	6	ritesh	rajesh	1			14
P4578-01	WB-305-SW	SVOC-TCL BNA -20	490	6	ritesh	rajesh	0.5	G		15
P4578-02	WB-305-SW-1	SVOC-TCL BNA -20	490	6	ritesh	rajesh	0.5	G		16

* Extracts relinquished on the same date as received.



6.10.24
P4578

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4578 WorkList ID : 184933 Department : Extraction Date : 10-30-2024 08:30:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4578-01	WB-305-SW	Water	EPH	1:1 HCl to pH < 2	PORT06	K63	10/25/2024	NJEPH
P4578-01	WB-305-SW	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K63	10/25/2024	8270E
P4578-02	WB-305-SW-1	Water	EPH	1:1 HCl to pH < 2	PORT06	K63	10/25/2024	NJEPH
P4578-02	WB-305-SW-1	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K63	10/25/2024	8270E

Date/Time 10/30/24 8:06
Raw Sample Received by: PJ (Det Lab)
Raw Sample Relinquished by: JT (SM)

Date/Time 10/30/24 8:05
Raw Sample Received by: JT (SM)
Raw Sample Relinquished by: PJ (Det Lab)



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.

QUOTE NO.

COC Number

2042038

P4578/79

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: GANNETT FLEMING
ADDRESS: 1010 Adams Avenue
CITY: Audubon STATE: PA ZIP: 19408
ATTENTION: JOE Krupansky
PHONE: 610-301-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak's exp. of SB
PROJECT NO.: 95000088 LOCATION: Kearny, NJ
PROJECT MANAGER: JOE Krupansky
e-mail: QAQC@bomys.com
PHONE: 610-301-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: chemtech PO#:
ADDRESS: 284 Sheffield St.
CITY: Mountainside STATE: NJ ZIP: 07092
ATTENTION: Samantha PHONE: 908-789-298

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

TECH VOC TO
TECH PAH
PCB'S
CHLORINATED
TAA Metals
EPH
TCLP-FULL
PCRA Parameters
TOX

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS		
			COMP	GRAB	DATE	TIME		A			F	B						← Specify Preservatives A-HCl B-HNO3 C-H2SO4	D-NaOH E-ICE F-OTHER
1.	NB-305-SW	GW	X		10/25	8:20	7	X	X	X	X	X	X						
2.	NB-305-SW-1	GW	X		10/25	8:30	7	X	X	X	X	X	X						
3.	NB-305-Top	S	X		10/25	9:20	11	X	X	X	X	X	X						
4.	NB-305-Top-1	S	X		10/25	9:30	11	X	X	X	X	X	X						
5.	NB-305-Bot	S	X		10/25	11:15	11	X	X	X	X	X	X	X	X	X			
6.	NB-305-Bot-1.	S	X		10/25	11:20	11	X	X	X	X	X	X	X	X	X			
7.	FB-10252024.	DIW.			10/25		2	X											
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: 3.1°C
1. Yvonda Pujara	10/25/24-3:11	1. [Signature]	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2. [Signature]		2. [Signature]	
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
3. [Signature]	10.25.2024	3. [Signature]	

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 : P4578	PORT06	Order Date : 10/25/2024 3:58:00 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 : 10/25/2024 4:04:00 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
P4578-01	WB-305-SW	Water	10/25/2024	08:20	VOC-TCLVOA-10		8260-Low	10 Bus. Days	
P4578-02	WB-305-SW-1	Water	10/25/2024	08:30	VOC-TCLVOA-10		8260-Low	10 Bus. Days	
P4578-03	WB-305-TOP	Solid	10/25/2024	09:20	VOC-TCLVOA-10		8260D	10 Bus. Days	
P4578-04	WB-305-TOP-1	Solid	10/25/2024	09:30	VOC-TCLVOA-10		8260D	10 Bus. Days	
P4578-05	WB-305-BOT	Solid	10/25/2024	11:15	VOC-TCLVOA-10		8260D	10 Bus. Days	
P4578-07	WB-305-BOT-1	Solid	10/25/2024	11:20	VOC-TCLVOA-10		8260D	10 Bus. Days	
P4578-09	TB-10252024	Water	10/25/2024	00:00	VOC-TCLVOA-10		8260-Low	10 Bus. Days	

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LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

* J.C samples are in sm Refrigerator *

Relinquished By :

J.C.

Date / Time :

10-25-2024 1710

Received By :

Date / Time :

Sam
10/25/2024 17:10
Sam

Rg 6
122
Rg 45

Storage Area : VOA Refridgerator Room