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

Hit Summary Sheet
SW-846

SDG No.: P4460

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**WB-303-TOP**								
P4460-02	WB-303-TOP	SOIL	Fluoranthene		210.000	J	160	330	ug/Kg
P4460-02	WB-303-TOP	SOIL	Pyrene		290.000	J	160	330	ug/Kg
P4460-02	WB-303-TOP	SOIL	Benzo(a)anthracene		190.000	J	160	330	ug/Kg
P4460-02	WB-303-TOP	SOIL	Chrysene		160.000	J	150	330	ug/Kg
P4460-02	WB-303-TOP	SOIL	Benzo(a)pyrene		180.000	J	180	330	ug/Kg
			Total Svoc :		**1,030.00**				
P4460-02	WB-303-TOP	SOIL	Hop-22(29)-en-3.beta.-ol	*	330.000	J	0	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	n-Hexadecanoic acid	*	380.000	J	0	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	.alpha.-Amyrone	*	760.000	J	0	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	1-Pentadecanethiol	*	140.000	J	0	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	2H-Cyclopropa[a]naphthalen-2-or	*	140.000	J	0	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	300.000	AB	0	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	unknown12.021	*	270.000	J	0	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	unknown17.286	*	180.000	J	0	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	Benzophenone	*	270.000	J	0	0	ug/Kg
P4460-02	WB-303-TOP	SOIL	Butane, 2-methoxy-2-methyl-	*	4,000.000	JB	0	0	ug/Kg
			Total Tics :		**6,770.00**				
			Total Concentration:		**7,800.00**				
Client ID :	**WB-303-BOT**								
P4460-03	WB-303-BOT	SOIL	Naphthalene		210.000		100	210	ug/Kg
			Total Svoc :		**210.00**				
P4460-03	WB-303-BOT	SOIL	Nonadecane	*	1,000.000	J	0	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Nonane, 2,6-dimethyl-	*	920.000	J	0	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Pentadecane, 2,6,10-trimethyl-	*	350.000	J	0	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Tetradecane, 3-methyl-	*	330.000	J	0	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Tetratetracontane	*	470.000	J	0	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Tridecane	*	1,200.000	J	0	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Undecane	*	440.000	J	0	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Undecane, 2,6-dimethyl-	*	370.000	J	0	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	1-Docosene	*	530.000	J	0	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	310.000	AB	0	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	3-Ethyl-2,6,10-trimethylundecane	*	1,900.000	J	0	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Benzene, 2-ethenyl-1,4-dimethyl-	*	360.000	J	0	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Butane, 2-methoxy-2-methyl-	*	3,800.000	JB	0	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Decane, 3,8-dimethyl-	*	590.000	J	0	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Decane, 5-ethyl-5-methyl-	*	680.000	J	0	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Dodecane, 2,6,11-trimethyl-	*	490.000	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: P4460

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
P4460-03	WB-303-BOT	SOIL	Heptacosane	*	710.000	J	0	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Heptadecane	*	2,700.000	J	0	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Hexadecane	*	3,900.000	J	0	0	ug/Kg
P4460-03	WB-303-BOT	SOIL	Hexadecane, 7-methyl-	*	500.000	J	0	0	ug/Kg
			Total Tics :		**21,550.00**				
			Total Concentration:		**21,760.00**				
Client ID :	**WB-303-SW**								
P4460-06	WB-303-SW	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	3.500	A	0	0	ug/L
P4460-06	WB-303-SW	WATER	Benzophenone	*	3.400	J	0	0	ug/L
			Total Tics :		**6.90**				
			Total Concentration:		**6.90**				

SAMPLE DATA

Raw Data: **BF140068.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/18/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/18/24
Client Sample ID:	WB-303-TOP	SDG No.:	P4460
Lab Sample ID:	P4460-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	51.5
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
BF140068.D	1	10/21/24 09:28	10/26/24 19:09	PB164286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	350	U	350	640	ug/Kg
108-95-2	Phenol	160	U	160	330	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	160	U	160	330	ug/Kg
95-57-8	2-Chlorophenol	160	U	160	330	ug/Kg
95-48-7	2-Methylphenol	160	U	160	330	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	180	U	180	330	ug/Kg
98-86-2	Acetophenone	170	U	170	330	ug/Kg
65794-96-9	3+4-Methylphenols	150	U	150	640	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	78.2	U	78.2	160	ug/Kg
67-72-1	Hexachloroethane	160	U	160	330	ug/Kg
98-95-3	Nitrobenzene	180	U	180	330	ug/Kg
78-59-1	Isophorone	160	U	160	330	ug/Kg
88-75-5	2-Nitrophenol	180	U	180	330	ug/Kg
105-67-9	2,4-Dimethylphenol	180	U	180	330	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	170	U	170	330	ug/Kg
120-83-2	2,4-Dichlorophenol	150	U	150	330	ug/Kg
91-20-3	Naphthalene	160	U	160	330	ug/Kg
106-47-8	4-Chloroaniline	160	UQ	160	330	ug/Kg
87-68-3	Hexachlorobutadiene	160	U	160	330	ug/Kg
105-60-2	Caprolactam	170	U	170	640	ug/Kg
59-50-7	4-Chloro-3-methylphenol	150	U	150	330	ug/Kg
91-57-6	2-Methylnaphthalene	160	U	160	330	ug/Kg
77-47-4	Hexachlorocyclopentadiene	300	UQ	300	640	ug/Kg
88-06-2	2,4,6-Trichlorophenol	140	U	140	330	ug/Kg
95-95-4	2,4,5-Trichlorophenol	140	U	140	330	ug/Kg
92-52-4	1,1-Biphenyl	170	U	170	330	ug/Kg
91-58-7	2-Chloronaphthalene	160	U	160	330	ug/Kg
88-74-4	2-Nitroaniline	180	U	180	330	ug/Kg
131-11-3	Dimethylphthalate	160	U	160	330	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/18/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/18/24
Client Sample ID:	WB-303-TOP	SDG No.:	P4460
Lab Sample ID:	P4460-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	51.5
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
BF140068.D	1	10/21/24 09:28	10/26/24 19:09	PB164286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	170	U	170	330	ug/Kg
606-20-2	2,6-Dinitrotoluene	160	U	160	330	ug/Kg
99-09-2	3-Nitroaniline	170	U	170	330	ug/Kg
83-32-9	Acenaphthene	160	U	160	330	ug/Kg
51-28-5	2,4-Dinitrophenol	470	U	470	640	ug/Kg
100-02-7	4-Nitrophenol	230	U	230	640	ug/Kg
132-64-9	Dibenzofuran	160	U	160	330	ug/Kg
121-14-2	2,4-Dinitrotoluene	170	U	170	330	ug/Kg
84-66-2	Diethylphthalate	160	U	160	330	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	170	U	170	330	ug/Kg
86-73-7	Fluorene	170	U	170	330	ug/Kg
100-01-6	4-Nitroaniline	210	U	210	330	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	230	U	230	640	ug/Kg
86-30-6	n-Nitrosodiphenylamine	160	U	160	330	ug/Kg
101-55-3	4-Bromophenyl-phenylether	150	U	150	330	ug/Kg
118-74-1	Hexachlorobenzene	160	U	160	330	ug/Kg
1912-24-9	Atrazine	180	U	180	330	ug/Kg
87-86-5	Pentachlorophenol	150	U	150	640	ug/Kg
85-01-8	Phenanthrene	160	U	160	330	ug/Kg
120-12-7	Anthracene	160	U	160	330	ug/Kg
86-74-8	Carbazole	160	U	160	330	ug/Kg
84-74-2	Di-n-butylphthalate	160	U	160	330	ug/Kg
206-44-0	Fluoranthene	210	J	160	330	ug/Kg
129-00-0	Pyrene	290	J	160	330	ug/Kg
85-68-7	Butylbenzylphthalate	190	U	190	330	ug/Kg
91-94-1	3,3-Dichlorobenzidine	190	U	190	640	ug/Kg
56-55-3	Benzo(a)anthracene	190	J	160	330	ug/Kg
218-01-9	Chrysene	160	J	150	330	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	180	U	180	330	ug/Kg
117-84-0	Di-n-octyl phthalate	210	U	210	640	ug/Kg
205-99-2	Benzo(b)fluoranthene	160	U	160	330	ug/Kg

Raw Data: **BF140068.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/18/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/18/24
Client Sample ID:	WB-303-TOP	SDG No.:	P4460
Lab Sample ID:	P4460-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	51.5
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
BF140068.D	1	10/21/24 09:28	10/26/24 19:09	PB164286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	160	U	160	330	ug/Kg
50-32-8	Benzo(a)pyrene	180	J	180	330	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	150	U	150	330	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	160	U	160	330	ug/Kg
191-24-2	Benzo(g,h,i)perylene	160	U	160	330	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U	170	330	ug/Kg
123-91-1	1,4-Dioxane	210	U	210	330	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	150	U	150	330	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	84.0		30 (18) - 130 (112)	56%	SPK: 150
13127-88-3	Phenol-d6	82.9		30 (15) - 130 (107)	55%	SPK: 150
4165-60-0	Nitrobenzene-d5	59.6		30 (18) - 130 (107)	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	55.1		30 (20) - 130 (109)	55%	SPK: 100
118-79-6	2,4,6-Tribromophenol	82.2		30 (10) - 130 (116)	55%	SPK: 150
1718-51-0	Terphenyl-d14	54.1		30 (10) - 130 (105)	54%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	142000	6.886			
1146-65-2	Naphthalene-d8	555000	8.169			
15067-26-2	Acenaphthene-d10	315000	9.922			
1517-22-2	Phenanthrene-d10	503000	11.41			
1719-03-5	Chrysene-d12	252000	14.045			
1520-96-3	Perylene-d12	283000	15.527			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	4000	JB		2.20	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	300	AB		5.12	ug/Kg
000119-61-9	Benzophenone	270	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	380	J		11.9	ug/Kg
	unknown12.021	270	J		12.0	ug/Kg
025276-70-4	1-Pentadecanethiol	140	J		13.9	ug/Kg
	unknown17.286	180	J		17.3	ug/Kg

Raw Data: **BF140068.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/18/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/18/24
Client Sample ID:	WB-303-TOP	SDG No.:	P4460
Lab Sample ID:	P4460-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	51.5
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
BF140068.D	1	10/21/24 09:28	10/26/24 19:09	PB164286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
006831-17-0	2H-Cyclopropa[a]naphthalen-2-one,	140	J		17.9	ug/Kg
000638-96-0	.alpha.-Amyrone	760	J		18.2	ug/Kg
058801-23-3	Hop-22(29)-en-3.beta.-ol	330	J		18.5	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/18/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/18/24
Client Sample ID:	WB-303-BOT	SDG No.:	P4460
Lab Sample ID:	P4460-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.1
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
BF140063.D	1	10/21/24 09:28	10/26/24 16:48	PB164286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	230	U	230	410	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	100	U	100	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	99.6	U	99.6	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	50.3	U	50.3	99.8	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	110	U	110	210	ug/Kg
88-75-5	2-Nitrophenol	120	U	120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	120	U	120	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	110	U	110	210	ug/Kg
120-83-2	2,4-Dichlorophenol	94.2	U	94.2	210	ug/Kg
91-20-3	Naphthalene	210		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	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	96.7	U	96.7	210	ug/Kg
91-57-6	2-Methylnaphthalene	100	U	100	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	190	UQ	190	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	89.1	U	89.1	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	92.3	U	92.3	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	100	U	100	210	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/18/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/18/24
Client Sample ID:	WB-303-BOT	SDG No.:	P4460
Lab Sample ID:	P4460-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.1
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
BF140063.D	1	10/21/24 09:28	10/26/24 16:48	PB164286

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	U	110	210	ug/Kg
83-32-9	Acenaphthene	100	U	100	210	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	300	410	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	410	ug/Kg
132-64-9	Dibenzofuran	110	U	110	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	110	U	110	210	ug/Kg
84-66-2	Diethylphthalate	99.9	U	99.9	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	210	ug/Kg
86-73-7	Fluorene	110	U	110	210	ug/Kg
100-01-6	4-Nitroaniline	130	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	150	U	150	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	100	U	100	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	98.4	U	98.4	210	ug/Kg
118-74-1	Hexachlorobenzene	110	U	110	210	ug/Kg
1912-24-9	Atrazine	110	U	110	210	ug/Kg
87-86-5	Pentachlorophenol	96.4	U	96.4	410	ug/Kg
85-01-8	Phenanthrene	100	U	100	210	ug/Kg
120-12-7	Anthracene	110	U	110	210	ug/Kg
86-74-8	Carbazole	100	U	100	210	ug/Kg
84-74-2	Di-n-butylphthalate	110	U	110	210	ug/Kg
206-44-0	Fluoranthene	100	U	100	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	U	120	410	ug/Kg
56-55-3	Benzo(a)anthracene	100	U	100	210	ug/Kg
218-01-9	Chrysene	99.2	U	99.2	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	210	ug/Kg
117-84-0	Di-n-octyl phthalate	140	U	140	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	100	U	100	210	ug/Kg

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/18/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/18/24
Client Sample ID:	WB-303-BOT	SDG No.:	P4460
Lab Sample ID:	P4460-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.1
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
BF140063.D	1	10/21/24 09:28	10/26/24 16:48	PB164286

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	120	U	120	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	97.4	U	97.4	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	100	U	100	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	99.9	U	99.9	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	210	ug/Kg
123-91-1	1,4-Dioxane	140	U	140	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	93.2	U	93.2	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	127		30 (18) - 130 (112)	85%	SPK: 150
13127-88-3	Phenol-d6	126		30 (15) - 130 (107)	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	101		30 (18) - 130 (107)	101%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.6		30 (20) - 130 (109)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	143		30 (10) - 130 (116)	95%	SPK: 150
1718-51-0	Terphenyl-d14	101		30 (10) - 130 (105)	101%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	129000	6.887			
1146-65-2	Naphthalene-d8	477000	8.169			
15067-26-2	Acenaphthene-d10	260000	9.928			
1517-22-2	Phenanthrene-d10	445000	11.41			
1719-03-5	Chrysene-d12	218000	14.051			
1520-96-3	Perylene-d12	237000	15.527			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	3800	JB		2.22	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	310	AB		5.13	ug/Kg
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	360	J		7.91	ug/Kg
017301-23-4	Undecane, 2,6-dimethyl-	370	J		8.47	ug/Kg
031295-56-4	Dodecane, 2,6,11-trimethyl-	490	J		8.59	ug/Kg
000629-92-5	Nonadecane	1000	J		8.76	ug/Kg
000593-49-7	Heptacosane	710	J		9.13	ug/Kg

Raw Data: **BF140063.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/18/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/18/24
Client Sample ID:	WB-303-BOT	SDG No.:	P4460
Lab Sample ID:	P4460-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.1
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
BF140063.D	1	10/21/24 09:28	10/26/24 16:48	PB164286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
017312-55-9	Decane, 3,8-dimethyl-	590	J		9.17	ug/Kg
017302-28-2	Nonane, 2,6-dimethyl-	920	J		9.19	ug/Kg
000544-76-3	Hexadecane	3900	J		9.33	ug/Kg
017312-74-2	Decane, 5-ethyl-5-methyl-	680	J		9.58	ug/Kg
1000432-25-9	3-Ethyl-2,6,10-trimethylundecane	1900	J		9.64	ug/Kg
018435-22-8	Tetradecane, 3-methyl-	330	J		9.70	ug/Kg
000629-78-7	Heptadecane	2700	J		9.86	ug/Kg
001120-21-4	Undecane	440	J		10.1	ug/Kg
007098-22-8	Tetratetracontane	470	J		10.2	ug/Kg
000629-50-5	Tridecane	1200	J		10.4	ug/Kg
003892-00-0	Pentadecane, 2,6,10-trimethyl-	350	J		10.6	ug/Kg
026730-20-1	Hexadecane, 7-methyl-	500	J		10.8	ug/Kg
001599-67-3	1-Docosene	530	J		13.9	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **BM048238.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/18/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/18/24
Client Sample ID:	WB-303-SW	SDG No.:	P4460
Lab Sample ID:	P4460-06	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
BM048238.D	1	10/23/24 09:50	10/25/24 16:21	PB164369

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/18/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/18/24
Client Sample ID:	WB-303-SW	SDG No.:	P4460
Lab Sample ID:	P4460-06	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
BM048238.D	1	10/23/24 09:50	10/25/24 16:21	PB164369

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	UQ	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	UQ	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

Raw Data: **BM048238.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/18/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/18/24
Client Sample ID:	WB-303-SW	SDG No.:	P4460
Lab Sample ID:	P4460-06	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
BM048238.D	1	10/23/24 09:50	10/25/24 16:21	PB164369

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	42.1		15 (10) - 110 (139)	56%	SPK: 75
13127-88-3	Phenol-d6	36.5		15 (10) - 110 (134)	49%	SPK: 75
4165-60-0	Nitrobenzene-d5	42.7		30 (49) - 130 (133)	85%	SPK: 50
321-60-8	2-Fluorobiphenyl	40.3		30 (52) - 130 (132)	81%	SPK: 50
118-79-6	2,4,6-Tribromophenol	67.4		15 (44) - 110 (137)	90%	SPK: 75
1718-51-0	Terphenyl-d14	45.8		30 (48) - 130 (125)	92%	SPK: 50
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	214000	7.716			
1146-65-2	Naphthalene-d8	870000	10.51			
15067-26-2	Acenaphthene-d10	580000	14.363			
1517-22-2	Phenanthrene-d10	1250000	17.104			
1719-03-5	Chrysene-d12	1150000	21.327			
1520-96-3	Perylene-d12	1230000	24.28			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.50	A		4.83	ug/L
000119-61-9	Benzophenone	3.40	J		15.7	ug/L

Raw Data: **BM048238.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/18/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/18/24
Client Sample ID:	WB-303-SW	SDG No.:	P4460
Lab Sample ID:	P4460-06	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
BM048238.D	1	10/23/24 09:50	10/25/24 16:21	PB164369

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

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SW-846

SDG No.: P4460

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4460-02	WB-303-TOP	2-Fluorophenol	150	84.0	56		30 (18)	130 (112)
		Phenol-d6	150	82.9	55		30 (15)	130 (107)
		Nitrobenzene-d5	100	59.6	60		30 (18)	130 (107)
		2-Fluorobiphenyl	100	55.1	55		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	82.2	55		30 (10)	130 (116)
		Terphenyl-d14	100	54.1	54		30 (10)	130 (105)
P4460-03	WB-303-BOT	2-Fluorophenol	150	127	85		30 (18)	130 (112)
		Phenol-d6	150	126	84		30 (15)	130 (107)
		Nitrobenzene-d5	100	101	101		30 (18)	130 (107)
		2-Fluorobiphenyl	100	93.6	94		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	143	95		30 (10)	130 (116)
		Terphenyl-d14	100	101	101		30 (10)	130 (105)
P4460-03MS	WB-303-BOTMS	2-Fluorophenol	150	119	79		30 (18)	130 (112)
		Phenol-d6	150	119	79		30 (15)	130 (107)
		Nitrobenzene-d5	100	92.8	93		30 (18)	130 (107)
		2-Fluorobiphenyl	100	90.6	91		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	140	94		30 (10)	130 (116)
		Terphenyl-d14	100	77.7	78		30 (10)	130 (105)
P4460-03MSD	WB-303-BOTMSD	2-Fluorophenol	150	113	75		30 (18)	130 (112)
		Phenol-d6	150	140	93		30 (15)	130 (107)
		Nitrobenzene-d5	100	101	101		30 (18)	130 (107)
		2-Fluorobiphenyl	100	98.3	98		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	149	100		30 (10)	130 (116)
		Terphenyl-d14	100	81.9	82		30 (10)	130 (105)
PB164286BL	PB164286BL	2-Fluorophenol	150	134	90		30 (18)	130 (112)
		Phenol-d6	150	131	87		30 (15)	130 (107)
		Nitrobenzene-d5	100	99.4	99		30 (18)	130 (107)
		2-Fluorobiphenyl	100	94.7	95		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	156	104		30 (10)	130 (116)
		Terphenyl-d14	100	98.4	98		30 (10)	130 (105)
PB164286BS	PB164286BS	2-Fluorophenol	150	123	82		30 (18)	130 (112)
		Phenol-d6	150	120	80		30 (15)	130 (107)
		Nitrobenzene-d5	100	91.8	92		30 (18)	130 (107)
		2-Fluorobiphenyl	100	86.5	87		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	147	98		30 (10)	130 (116)
		Terphenyl-d14	100	95.7	96		30 (10)	130 (105)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SW-846

SDG No.: P4460

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4460-06	WB-303-SW	2-Fluorophenol	75	42.1	56		15 (10)	110 (139)
		Phenol-d6	75	36.5	49		15 (10)	110 (134)
		Nitrobenzene-d5	50	42.7	85		30 (49)	130 (133)
		2-Fluorobiphenyl	50	40.3	81		30 (52)	130 (132)
		2,4,6-Tribromophenol	75	67.4	90		15 (44)	110 (137)
		Terphenyl-d14	50	45.8	92		30 (48)	130 (125)
PB164369BL	PB164369BL	2-Fluorophenol	150	151	101		15 (10)	110 (139)
		Phenol-d6	150	138	92		15 (10)	110 (134)
		Nitrobenzene-d5	100	92.1	92		30 (49)	130 (133)
		2-Fluorobiphenyl	100	93.8	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	133	88		15 (44)	110 (137)
		Terphenyl-d14	100	105	105		30 (48)	130 (125)
PB164369BS	PB164369BS	2-Fluorophenol	150	144	96		15 (10)	110 (139)
		Phenol-d6	150	131	87		15 (10)	110 (134)
		Nitrobenzene-d5	100	96.5	96		30 (49)	130 (133)
		2-Fluorobiphenyl	100	99.0	99		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	133	89		15 (44)	110 (137)
		Terphenyl-d14	100	103	103		30 (48)	130 (125)
PB164369BSD	PB164369BSD	2-Fluorophenol	150	146	97		15 (10)	110 (139)
		Phenol-d6	150	135	90		15 (10)	110 (134)
		Nitrobenzene-d5	100	94.8	95		30 (49)	130 (133)
		2-Fluorobiphenyl	100	96.5	96		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	132	88		15 (44)	110 (137)
		Terphenyl-d14	100	110	110		30 (48)	130 (125)

( ) = LABORATORY INHOUSE LIMIT

Alliance TECHNICAL GROUP
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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4460

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P4460-03MS		**Client Sample ID: WB-303-BOTMS**						**DataFile: BF140006.D**			
Benzaldehyde	2100	0	600	ug/Kg	29				20 (10)	160 (86)	
Phenol	2100	0	1900	ug/Kg	90				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	2100	0	1900	ug/Kg	90				70 (54)	130 (125)	
2-Chlorophenol	2100	0	2000	ug/Kg	95				70 (79)	130 (107)	
2-Methylphenol	2100	0	1900	ug/Kg	90				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	2100	0	1800	ug/Kg	86				70 (65)	130 (110)	
Acetophenone	2100	0	2000	ug/Kg	95				70 (75)	130 (111)	
3+4-Methylphenols	2100	0	1900	ug/Kg	90				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	2100	0	1900	ug/Kg	90				70 (59)	130 (119)	
Hexachloroethane	2100	0	2100	ug/Kg	100				20 (65)	160 (117)	
Nitrobenzene	2100	0	1900	ug/Kg	90				70 (70)	130 (119)	
Isophorone	2100	0	2000	ug/Kg	95				70 (76)	130 (122)	
2-Nitrophenol	2100	0	2400	ug/Kg	114				70 (54)	130 (145)	
2,4-Dimethylphenol	2100	0	2200	ug/Kg	105				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	2100	0	1900	ug/Kg	90				70 (68)	130 (112)	
2,4-Dichlorophenol	2100	0	2000	ug/Kg	95				70 (72)	130 (118)	
Naphthalene	2100	210	2100	ug/Kg	90				70 (72)	130 (110)	
4-Chloroaniline	2100	0	720	ug/Kg	34	*			70 (10)	130 (91)	
Hexachlorobutadiene	2100	0	2000	ug/Kg	95				70 (66)	130 (114)	
Caprolactam	2100	0	2700	ug/Kg	129				20 (51)	160 (134)	
4-Chloro-3-methylphenol	2100	0	1900	ug/Kg	90				70 (57)	130 (132)	
2-Methylnaphthalene	2100	0	2000	ug/Kg	95				70 (59)	130 (123)	
Hexachlorocyclopentadiene	4200	0	6900	ug/Kg	164	*			20 (10)	160 (175)	
2,4,6-Trichlorophenol	2100	0	2100	ug/Kg	100				70 (72)	130 (117)	
2,4,5-Trichlorophenol	2100	0	2000	ug/Kg	95				70 (72)	130 (117)	
1,1-Biphenyl	2100	0	2000	ug/Kg	95				70 (75)	130 (113)	
2-Chloronaphthalene	2100	0	1900	ug/Kg	90				70 (67)	130 (118)	
2-Nitroaniline	2100	0	2200	ug/Kg	105				70 (69)	130 (127)	
Dimethylphthalate	2100	0	2000	ug/Kg	95				70 (70)	130 (113)	
Acenaphthylene	2100	0	2100	ug/Kg	100				70 (79)	130 (118)	
2,6-Dinitrotoluene	2100	0	2100	ug/Kg	100				70 (70)	130 (125)	
3-Nitroaniline	2100	0	1500	ug/Kg	71				70 (30)	130 (99)	
Acenaphthene	2100	0	2300	ug/Kg	110				70 (70)	130 (121)	
2,4-Dinitrophenol	4200	0	5200	ug/Kg	124				20 (10)	160 (155)	
4-Nitrophenol	4200	0	4100	ug/Kg	98				20 (45)	160 (133)	
Dibenzofuran	2100	0	2000	ug/Kg	95				70 (72)	130 (110)	
2,4-Dinitrotoluene	2100	0	2300	ug/Kg	110				70 (55)	130 (128)	
Diethylphthalate	2100	0	2000	ug/Kg	95				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	2100	0	2000	ug/Kg	95				70 (71)	130 (108)	
Fluorene	2100	0	2000	ug/Kg	95				70 (68)	130 (116)	
4-Nitroaniline	2100	0	2000	ug/Kg	95				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	2100	0	3100	ug/Kg	148	*			70 (10)	130 (160)	
N-Nitrosodiphenylamine	2100	0	2200	ug/Kg	105				70 (73)	130 (118)	
4-Bromophenyl-phenylether	2100	0	2200	ug/Kg	105				70 (65)	130 (121)	
Hexachlorobenzene	2100	0	2100	ug/Kg	100				70 (67)	130 (118)	
Atrazine	2100	0	2600	ug/Kg	124				70 (79)	130 (127)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4460

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	4200	0	4100	ug/Kg	98				20 (47)	160 (128)	
Phenanthrene	2100	0	2000	ug/Kg	95				70 (52)	130 (128)	
Anthracene	2100	0	2100	ug/Kg	100				70 (62)	130 (124)	
Carbazole	2100	0	1900	ug/Kg	90				70 (59)	130 (119)	
Di-n-butylphthalate	2100	0	2100	ug/Kg	100				70 (69)	130 (118)	
Fluoranthene	2100	0	1700	ug/Kg	81				70 (44)	130 (125)	
Pyrene	2100	0	1700	ug/Kg	81				70 (26)	130 (142)	
Butylbenzylphthalate	2100	0	2100	ug/Kg	100				70 (64)	130 (126)	
3,3-Dichlorobenzidine	2100	0	1600	ug/Kg	76				70 (33)	130 (116)	
Benzo(a)anthracene	2100	0	2100	ug/Kg	100				70 (71)	130 (114)	
Chrysene	2100	0	2000	ug/Kg	95				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	2100	0	2500	ug/Kg	119				70 (42)	130 (169)	
Di-n-octyl phthalate	2100	0	2600	ug/Kg	124				70 (23)	130 (175)	
Benzo(b)fluoranthene	2100	0	2000	ug/Kg	95				70 (67)	130 (121)	
Benzo(k)fluoranthene	2100	0	1800	ug/Kg	86				70 (57)	130 (134)	
Benzo(a)pyrene	2100	0	2200	ug/Kg	105				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	2100	0	2000	ug/Kg	95				70 (40)	130 (129)	
Dibenz(a,h)anthracene	2100	0	2000	ug/Kg	95				70 (43)	130 (123)	
Benzo(g,h,i)perylene	2100	0	1700	ug/Kg	81				70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	2100	0	2000	ug/Kg	95				70 (69)	130 (124)	
1,4-Dioxane	2100	0	1700	ug/Kg	81				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	2100	0	2100	ug/Kg	100				70 (69)	130 (112)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4460

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID: P4460-03MSD		**Client Sample ID: WB-303-BOTMSD**						**DataFile: BF140007.D**			
Benzaldehyde	2100	0	720	ug/Kg	34		16		20 (10)	160 (86)	30 (20)
Phenol	2100	0	2300	ug/Kg	110		20		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	2100	0	2300	ug/Kg	110		20		70 (54)	130 (125)	30 (20)
2-Chlorophenol	2100	0	2400	ug/Kg	114		18		70 (79)	130 (107)	30 (20)
2-Methylphenol	2100	0	1700	ug/Kg	81		11		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	2100	0	1600	ug/Kg	76		12		70 (65)	130 (110)	30 (20)
Acetophenone	2100	0	2200	ug/Kg	105		10		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	2100	0	1600	ug/Kg	76		17		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	2100	0	1600	ug/Kg	76		17		70 (59)	130 (119)	30 (20)
Hexachloroethane	2100	0	2000	ug/Kg	95		5		20 (65)	160 (117)	30 (20)
Nitrobenzene	2100	0	2100	ug/Kg	100		11		70 (70)	130 (119)	30 (20)
Isophorone	2100	0	2200	ug/Kg	105		10		70 (76)	130 (122)	30 (20)
2-Nitrophenol	2100	0	2600	ug/Kg	124		8		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	2100	0	2400	ug/Kg	114		8		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	2100	0	2000	ug/Kg	95		5		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	2100	0	2200	ug/Kg	105		10		70 (72)	130 (118)	30 (20)
Naphthalene	2100	210	2200	ug/Kg	95		5		70 (72)	130 (110)	30 (20)
4-Chloroaniline	2100	0	760	ug/Kg	36	*	6		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	2100	0	2200	ug/Kg	105		10		70 (66)	130 (114)	30 (20)
Caprolactam	2100	0	2800	ug/Kg	133		3		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	2100	0	2100	ug/Kg	100		11		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	2100	0	2100	ug/Kg	100		5		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	4200	0	7500	ug/Kg	179	*	9		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	2100	0	2200	ug/Kg	105		5		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	2100	0	2100	ug/Kg	100		5		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	2100	0	2100	ug/Kg	100		5		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	2100	0	2100	ug/Kg	100		11		70 (67)	130 (118)	30 (20)
2-Nitroaniline	2100	0	2400	ug/Kg	114		8		70 (69)	130 (127)	30 (20)
Dimethylphthalate	2100	0	2100	ug/Kg	100		5		70 (70)	130 (113)	30 (20)
Acenaphthylene	2100	0	2300	ug/Kg	110		10		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	2100	0	2200	ug/Kg	105		5		70 (70)	130 (125)	30 (20)
3-Nitroaniline	2100	0	1500	ug/Kg	71		0		70 (30)	130 (99)	30 (20)
Acenaphthene	2100	0	2400	ug/Kg	114		4		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	4200	0	5500	ug/Kg	131		5		20 (10)	160 (155)	30 (20)
4-Nitrophenol	4200	0	4400	ug/Kg	105		7		20 (45)	160 (133)	30 (20)
Dibenzofuran	2100	0	2200	ug/Kg	105		10		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	2100	0	2400	ug/Kg	114		4		70 (55)	130 (128)	30 (20)
Diethylphthalate	2100	0	2200	ug/Kg	105		10		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	2100	0	2200	ug/Kg	105		10		70 (71)	130 (108)	30 (20)
Fluorene	2100	0	2100	ug/Kg	100		5		70 (68)	130 (116)	30 (20)
4-Nitroaniline	2100	0	2100	ug/Kg	100		5		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	2100	0	3300	ug/Kg	157	*	6		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	2100	0	2300	ug/Kg	110		5		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	2100	0	2300	ug/Kg	110		5		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	2100	0	2300	ug/Kg	110		10		70 (67)	130 (118)	30 (20)
Atrazine	2100	0	2800	ug/Kg	133	*	7		70 (79)	130 (127)	30 (20)

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4460

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	4200	0	4400	ug/Kg	105		7		20 (47)	160 (128)	30 (20)
Phenanthrene	2100	0	2200	ug/Kg	105		10		70 (52)	130 (128)	30 (20)
Anthracene	2100	0	2300	ug/Kg	110		10		70 (62)	130 (124)	30 (20)
Carbazole	2100	0	2100	ug/Kg	100		11		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	2100	0	2300	ug/Kg	110		10		70 (69)	130 (118)	30 (20)
Fluoranthene	2100	0	1900	ug/Kg	90		11		70 (44)	130 (125)	30 (20)
Pyrene	2100	0	1800	ug/Kg	86		6		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	2100	0	2300	ug/Kg	110		10		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	2100	0	1700	ug/Kg	81		6		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	2100	0	2200	ug/Kg	105		5		70 (71)	130 (114)	30 (20)
Chrysene	2100	0	2100	ug/Kg	100		5		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	2100	0	2700	ug/Kg	129		8		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	2100	0	2900	ug/Kg	138	*	11		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	2100	0	2100	ug/Kg	100		5		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	2100	0	1900	ug/Kg	90		5		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	2100	0	2300	ug/Kg	110		5		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	2100	0	2900	ug/Kg	138	*	37	*	70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	2100	0	2900	ug/Kg	138	*	37	*	70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	2100	0	2500	ug/Kg	119		38	*	70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	2100	0	2200	ug/Kg	105		10		70 (69)	130 (124)	30 (20)
1,4-Dioxane	2100	0	1600	ug/Kg	76		6		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	2100	0	2300	ug/Kg	110		10		70 (69)	130 (112)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4460

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF139963.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164286BS	Benzaldehyde	1700	450	ug/Kg	26				20 (10)	160 (133)	
	Phenol	1700	1400	ug/Kg	82				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				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	1400	ug/Kg	82				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	1400	ug/Kg	82				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	1700	ug/Kg	100				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1700	ug/Kg	100				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1400	ug/Kg	82				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	1100	ug/Kg	65		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1400	ug/Kg	82				70 (53)	130 (98)	
	Caprolactam	1700	1500	ug/Kg	88				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	5300	ug/Kg	161		*		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	1400	ug/Kg	82				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				70 (58)	130 (99)	
	2-Nitroaniline	1700	1600	ug/Kg	94				70 (66)	130 (101)	
	Dimethylphthalate	1700	1500	ug/Kg	88				70 (61)	130 (99)	
	Acenaphthylene	1700	1500	ug/Kg	88				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1600	ug/Kg	94				70 (61)	130 (104)	
	3-Nitroaniline	1700	1200	ug/Kg	71				70 (28)	130 (100)	
	Acenaphthene	1700	1600	ug/Kg	94				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	3800	ug/Kg	115				20 (37)	160 (128)	
	4-Nitrophenol	3300	3200	ug/Kg	97				20 (48)	160 (119)	
	Dibenzofuran	1700	1400	ug/Kg	82				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1700	ug/Kg	100				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	1400	ug/Kg	82				70 (61)	130 (101)	
	4-Nitroaniline	1700	1600	ug/Kg	94				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	2000	ug/Kg	118				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1400	ug/Kg	82				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1500	ug/Kg	88				70 (66)	130 (102)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4460

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF139963.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164286BS	Hexachlorobenzene	1700	1500	ug/Kg	88				70 (64)	130 (98)	
	Atrazine	1700	1700	ug/Kg	100				70 (47)	130 (152)	
	Pentachlorophenol	3300	3000	ug/Kg	91				20 (67)	160 (105)	
	Phenanthrene	1700	1400	ug/Kg	82				70 (59)	130 (103)	
	Anthracene	1700	1500	ug/Kg	88				70 (61)	130 (105)	
	Carbazole	1700	1400	ug/Kg	82				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1500	ug/Kg	88				70 (58)	130 (104)	
	Fluoranthene	1700	1400	ug/Kg	82				70 (57)	130 (107)	
	Pyrene	1700	1500	ug/Kg	88				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1600	ug/Kg	94				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	1300	ug/Kg	76				70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1500	ug/Kg	88				70 (60)	130 (102)	
	Chrysene	1700	1500	ug/Kg	88				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	1700	ug/Kg	100				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	1600	ug/Kg	94				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1400	ug/Kg	82				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1600	ug/Kg	94				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	1400	ug/Kg	82				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1400	ug/Kg	82				70 (53)	130 (101)	
	1,4-Dioxane	1700	1200	ug/Kg	71				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1600	ug/Kg	94				70 (59)	130 (108)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4460

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BM048233.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164369BSD	Benzaldehyde	50	14.2	ug/L	28	4			20 (10)	160 (162)	20 (20)
	Phenol	50	49.6	ug/L	99	4			20 (66)	160 (118)	20 (20)
	bis(2-Chloroethyl)ether	50	48.8	ug/L	98	1			70 (62)	130 (103)	20 (20)
	2-Chlorophenol	50	50.0	ug/L	100	3			70 (70)	130 (117)	20 (20)
	2-Methylphenol	50	48.8	ug/L	98	5			70 (69)	130 (109)	20 (20)
	2,2-oxybis(1-Chloropropane)	50	49.4	ug/L	99	0			70 (65)	130 (100)	20 (20)
	Acetophenone	50	47.9	ug/L	96	1			70 (60)	130 (104)	20 (20)
	3+4-Methylphenols	50	47.4	ug/L	95	5			20 (67)	160 (106)	20 (20)
	N-Nitroso-di-n-propylamine	50	44.8	ug/L	90	2			70 (57)	130 (107)	20 (20)
	Hexachloroethane	50	46.1	ug/L	92	2			20 (76)	160 (118)	20 (20)
	Nitrobenzene	50	46.8	ug/L	94	2			70 (58)	130 (106)	20 (20)
	Isophorone	50	47.3	ug/L	95	1			70 (61)	130 (102)	20 (20)
	2-Nitrophenol	50	50.6	ug/L	101	3			70 (70)	130 (115)	20 (20)
	2,4-Dimethylphenol	50	60.9	ug/L	122	2			70 (42)	130 (142)	20 (20)
	bis(2-Chloroethoxy)methane	50	48.6	ug/L	97	1			70 (58)	130 (109)	20 (20)
	2,4-Dichlorophenol	50	50.0	ug/L	100	2			70 (66)	130 (115)	20 (20)
	Naphthalene	50	46.7	ug/L	93	1			70 (64)	130 (107)	20 (20)
	4-Chloroaniline	50	20.7	ug/L	41	4	*		70 (10)	130 (85)	20 (20)
	Hexachlorobutadiene	50	46.5	ug/L	93	2			70 (69)	130 (101)	20 (20)
	Caprolactam	50	41.5	ug/L	83	5			20 (58)	160 (128)	20 (20)
	4-Chloro-3-methylphenol	50	45.9	ug/L	92	4			70 (65)	130 (114)	20 (20)
	2-Methylnaphthalene	50	46.5	ug/L	93	1			70 (64)	130 (107)	20 (20)
	Hexachlorocyclopentadiene	100	210	ug/L	210	0	*		20 (36)	160 (160)	20 (20)
	2,4,6-Trichlorophenol	50	51.8	ug/L	104	1			70 (61)	130 (110)	20 (20)
	2,4,5-Trichlorophenol	50	49.7	ug/L	99	1			70 (70)	130 (106)	20 (20)
	1,1-Biphenyl	50	49.3	ug/L	99	2			70 (72)	130 (98)	20 (20)
	2-Chloronaphthalene	50	48.5	ug/L	97	2			70 (59)	130 (106)	20 (20)
	2-Nitroaniline	50	50.2	ug/L	100	1			70 (73)	130 (114)	20 (20)
	Dimethylphthalate	50	47.4	ug/L	95	0			70 (64)	130 (103)	20 (20)
	Acenaphthylene	50	51.7	ug/L	103	1			70 (79)	130 (103)	20 (20)
	2,6-Dinitrotoluene	50	46.0	ug/L	92	1			70 (64)	130 (110)	20 (20)
	3-Nitroaniline	50	29.2	ug/L	58	2	*		70 (28)	130 (100)	20 (20)
	Acenaphthene	50	48.8	ug/L	98	2			70 (59)	130 (113)	20 (20)
	2,4-Dinitrophenol	100	96.2	ug/L	96	3			20 (36)	160 (166)	20 (20)
	4-Nitrophenol	100	96.1	ug/L	96	1			20 (45)	160 (147)	20 (20)
	Dibenzofuran	50	47.5	ug/L	95	2			70 (65)	130 (106)	20 (20)
	2,4-Dinitrotoluene	50	46.6	ug/L	93	2			70 (60)	130 (115)	20 (20)
	Diethylphthalate	50	46.1	ug/L	92	2			70 (63)	130 (105)	20 (20)
	4-Chlorophenyl-phenylether	50	46.7	ug/L	93	1			70 (61)	130 (104)	20 (20)
	Fluorene	50	45.8	ug/L	92	3			70 (64)	130 (107)	20 (20)
	4-Nitroaniline	50	45.4	ug/L	91	1			70 (55)	130 (125)	20 (20)
	4,6-Dinitro-2-methylphenol	50	52.3	ug/L	105	4			70 (62)	130 (132)	20 (20)
	N-Nitrosodiphenylamine	50	52.9	ug/L	106	0			70 (61)	130 (109)	20 (20)
	4-Bromophenyl-phenylether	50	50.7	ug/L	101	1			70 (73)	130 (103)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4460

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BM048233.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164369BSD	Hexachlorobenzene	50	49.4	ug/L	99	0			70 (73)	130 (106)	20 (20)
	Atrazine	50	64.2	ug/L	128	1			70 (76)	130 (120)	20 (20)
	Pentachlorophenol	100	97.2	ug/L	97	1			20 (47)	160 (114)	20 (20)
	Phenanthrene	50	50.2	ug/L	100	1			70 (62)	130 (109)	20 (20)
	Anthracene	50	52.6	ug/L	105	2			70 (65)	130 (110)	20 (20)
	Carbazole	50	47.5	ug/L	95	3			70 (62)	130 (106)	20 (20)
	Di-n-butylphthalate	50	48.6	ug/L	97	1			70 (64)	130 (106)	20 (20)
	Fluoranthene	50	44.3	ug/L	89	5			70 (64)	130 (110)	20 (20)
	Pyrene	50	54.5	ug/L	109	8			70 (71)	130 (103)	20 (20)
	Butylbenzylphthalate	50	52.8	ug/L	106	6			70 (61)	130 (105)	20 (20)
	3,3-Dichlorobenzidine	50	34.7	ug/L	69	7	*		70 (43)	130 (108)	20 (20)
	Benzo(a)anthracene	50	50.9	ug/L	102	1			70 (62)	130 (107)	20 (20)
	Chrysene	50	50.1	ug/L	100	0			70 (61)	130 (108)	20 (20)
	bis(2-Ethylhexyl)phthalate	50	51.9	ug/L	104	3			70 (59)	130 (110)	20 (20)
	Di-n-octyl phthalate	50	49.5	ug/L	99	0			70 (52)	130 (139)	20 (20)
	Benzo(b)fluoranthene	50	51.5	ug/L	103	4			70 (77)	130 (113)	20 (20)
	Benzo(k)fluoranthene	50	52.7	ug/L	105	2			70 (77)	130 (105)	20 (20)
	Benzo(a)pyrene	50	55.5	ug/L	111	1			70 (72)	130 (131)	20 (20)
	Indeno(1,2,3-cd)pyrene	50	54.1	ug/L	108	3			70 (72)	130 (105)	20 (20)
	Dibenz(a,h)anthracene	50	53.6	ug/L	107	3			70 (78)	130 (115)	20 (20)
	Benzo(g,h,i)perylene	50	48.9	ug/L	98	3			70 (75)	130 (118)	20 (20)
	1,2,4,5-Tetrachlorobenzene	50	50.6	ug/L	101	3			70 (72)	130 (101)	20 (20)
	1,4-Dioxane	50	40.0	ug/L	80	8			20 (38)	160 (125)	20 (20)
	2,3,4,6-Tetrachlorophenol	50	48.3	ug/L	97	0			70 (63)	130 (116)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4460

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BM048237.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164369BS	Benzaldehyde	50	13.7	ug/L	27				20 (10)	160 (162)	
	Phenol	50	47.8	ug/L	96				20 (66)	160 (118)	
	bis(2-Chloroethyl)ether	50	48.2	ug/L	96				70 (62)	130 (103)	
	2-Chlorophenol	50	48.4	ug/L	97				70 (70)	130 (117)	
	2-Methylphenol	50	46.5	ug/L	93				70 (69)	130 (109)	
	2,2-oxybis(1-Chloropropane)	50	49.2	ug/L	98				70 (65)	130 (100)	
	Acetophenone	50	48.5	ug/L	97				70 (60)	130 (104)	
	3+4-Methylphenols	50	45.0	ug/L	90				20 (67)	160 (106)	
	N-Nitroso-di-n-propylamine	50	43.9	ug/L	88				70 (57)	130 (107)	
	Hexachloroethane	50	46.9	ug/L	94				20 (76)	160 (118)	
	Nitrobenzene	50	47.7	ug/L	95				70 (58)	130 (106)	
	Isophorone	50	47.0	ug/L	94				70 (61)	130 (102)	
	2-Nitrophenol	50	49.3	ug/L	99				70 (70)	130 (115)	
	2,4-Dimethylphenol	50	59.6	ug/L	119				70 (42)	130 (142)	
	bis(2-Chloroethoxy)methane	50	48.0	ug/L	96				70 (58)	130 (109)	
	2,4-Dichlorophenol	50	48.9	ug/L	98				70 (66)	130 (115)	
	Naphthalene	50	47.0	ug/L	94				70 (64)	130 (107)	
	4-Chloroaniline	50	19.8	ug/L	40		*		70 (10)	130 (85)	
	Hexachlorobutadiene	50	47.6	ug/L	95				70 (69)	130 (101)	
	Caprolactam	50	39.4	ug/L	79				20 (58)	160 (128)	
	4-Chloro-3-methylphenol	50	44.2	ug/L	88				70 (65)	130 (114)	
	2-Methylnaphthalene	50	46.0	ug/L	92				70 (64)	130 (107)	
	Hexachlorocyclopentadiene	100	210	ug/L	210		*		20 (36)	160 (160)	
	2,4,6-Trichlorophenol	50	51.3	ug/L	103				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	49.0	ug/L	98				70 (70)	130 (106)	
	1,1-Biphenyl	50	50.5	ug/L	101				70 (72)	130 (98)	
	2-Chloronaphthalene	50	49.5	ug/L	99				70 (59)	130 (106)	
	2-Nitroaniline	50	49.8	ug/L	100				70 (73)	130 (114)	
	Dimethylphthalate	50	47.2	ug/L	94				70 (64)	130 (103)	
	Acenaphthylene	50	52.3	ug/L	105				70 (79)	130 (103)	
	2,6-Dinitrotoluene	50	45.4	ug/L	91				70 (64)	130 (110)	
	3-Nitroaniline	50	29.9	ug/L	60		*		70 (28)	130 (100)	
	Acenaphthene	50	49.6	ug/L	99				70 (59)	130 (113)	
	2,4-Dinitrophenol	100	93.4	ug/L	93				20 (36)	160 (166)	
	4-Nitrophenol	100	94.8	ug/L	95				20 (45)	160 (147)	
	Dibenzofuran	50	48.6	ug/L	97				70 (65)	130 (106)	
	2,4-Dinitrotoluene	50	45.7	ug/L	91				70 (60)	130 (115)	
	Diethylphthalate	50	45.3	ug/L	91				70 (63)	130 (105)	
	4-Chlorophenyl-phenylether	50	47.1	ug/L	94				70 (61)	130 (104)	
	Fluorene	50	47.0	ug/L	94				70 (64)	130 (107)	
	4-Nitroaniline	50	44.9	ug/L	90				70 (55)	130 (125)	
	4,6-Dinitro-2-methylphenol	50	50.1	ug/L	100				70 (62)	130 (132)	
	N-Nitrosodiphenylamine	50	53.1	ug/L	106				70 (61)	130 (109)	
	4-Bromophenyl-phenylether	50	51.4	ug/L	103				70 (73)	130 (103)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4460

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BM048237.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164369BS	Hexachlorobenzene	50	49.6	ug/L	99				70 (73)	130 (106)	
	Atrazine	50	63.7	ug/L	127				70 (76)	130 (120)	
	Pentachlorophenol	100	97.9	ug/L	98				20 (47)	160 (114)	
	Phenanthrene	50	50.8	ug/L	102				70 (62)	130 (109)	
	Anthracene	50	53.8	ug/L	108				70 (65)	130 (110)	
	Carbazole	50	48.9	ug/L	98				70 (62)	130 (106)	
	Di-n-butylphthalate	50	48.2	ug/L	96				70 (64)	130 (106)	
	Fluoranthene	50	46.4	ug/L	93				70 (64)	130 (110)	
	Pyrene	50	50.4	ug/L	101				70 (71)	130 (103)	
	Butylbenzylphthalate	50	49.5	ug/L	99				70 (61)	130 (105)	
	3,3-Dichlorobenzidine	50	37.3	ug/L	75				70 (43)	130 (108)	
	Benzo(a)anthracene	50	50.3	ug/L	101				70 (62)	130 (107)	
	Chrysene	50	50.0	ug/L	100				70 (61)	130 (108)	
	bis(2-Ethylhexyl)phthalate	50	50.4	ug/L	101				70 (59)	130 (110)	
	Di-n-octyl phthalate	50	49.5	ug/L	99				70 (52)	130 (139)	
	Benzo(b)fluoranthene	50	49.4	ug/L	99				70 (77)	130 (113)	
	Benzo(k)fluoranthene	50	51.8	ug/L	104				70 (77)	130 (105)	
	Benzo(a)pyrene	50	55.0	ug/L	110				70 (72)	130 (131)	
	Indeno(1,2,3-cd)pyrene	50	55.7	ug/L	111				70 (72)	130 (105)	
	Dibenz(a,h)anthracene	50	55.4	ug/L	111				70 (78)	130 (115)	
	Benzo(g,h,i)perylene	50	50.5	ug/L	101				70 (75)	130 (118)	
	1,2,4,5-Tetrachlorobenzene	50	52.0	ug/L	104				70 (72)	130 (101)	
	1,4-Dioxane	50	43.3	ug/L	87				20 (38)	160 (125)	
	2,3,4,6-Tetrachlorophenol	50	48.3	ug/L	97				70 (63)	130 (116)	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164286BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG NO.: P4460

Lab File ID: BF139962.D Lab Sample ID: PB164286BL

Instrument ID: BNA_F Date Extracted: 10/21/2024

Matrix: (soil/water) SOIL Date Analyzed: 10/23/2024

Level: (low/med) LOW Time Analyzed: 14:04

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164286BS	PB164286BS	BF139963.D	10/23/2024
WB-303-BOTMS	P4460-03MS	BF140006.D	10/24/2024
WB-303-BOTMSD	P4460-03MSD	BF140007.D	10/24/2024
WB-303-BOT	P4460-03	BF140063.D	10/26/2024
WB-303-TOP	P4460-02	BF140068.D	10/26/2024

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164369BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG NO.: P4460

Lab File ID: BM048212.D Lab Sample ID: PB164369BL

Instrument ID: BNA_M Date Extracted: 10/23/2024

Matrix: (soil/water) Water Date Analyzed: 10/24/2024

Level: (low/med) LOW Time Analyzed: 11:50

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164369BSD	PB164369BSD	BM048233.D	10/25/2024
PB164369BS	PB164369BS	BM048237.D	10/25/2024
WB-303-SW	P4460-06	BM048238.D	10/25/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4460 SDG NO.: P4460

Lab File ID: BF139843.D DFTPP Injection Date: 10/18/2024

Instrument ID: BNA_F DFTPP 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	100
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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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4460 SDG NO.: P4460

Lab File ID: BF139951.D DFTPP Injection Date: 10/23/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:52

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.8
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	30.2
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	38.1
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	5.8
275	10.0 - 60.0% of mass 198	24.9
365	Greater than 1% of mass 198	3.1
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	19.9 (19.9) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF139952.D	10/23/2024	09:20
PB164286BL	PB164286BL	BF139962.D	10/23/2024	14:04
PB164286BS	PB164286BS	BF139963.D	10/23/2024	14:33

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4460 SDG NO.: P4460

Lab File ID: BF140000.D DFTPP Injection Date: 10/24/2024

Instrument ID: BNA_F DFTPP Injection Time: 14:47

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 (1.9) 1
69	Mass 69 relative abundance	35.2
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	44.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	26.7
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	15.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.3 (19.3) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140001.D	10/24/2024	15:16
WB-303-BOTMS	P4460-03MS	BF140006.D	10/24/2024	17:45
WB-303-BOTMSD	P4460-03MSD	BF140007.D	10/24/2024	18:14

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4460 SDG NO.: P4460

Lab File ID: BF140049.D DFTPP Injection Date: 10/26/2024

Instrument ID: BNA_F DFTPP Injection Time: 10:10

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	42.1
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38.1
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	47.5
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	28.3
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	14.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.1 (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	BF140050.D	10/26/2024	10:38
WB-303-BOT	P4460-03	BF140063.D	10/26/2024	16:48
WB-303-TOP	P4460-02	BF140068.D	10/26/2024	19:09

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4460 SDG NO.: P4460

Lab File ID: BM048199.D DFTPP Injection Date: 10/23/2024

Instrument ID: BNA_M DFTPP Injection Time: 11:47

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.2
68	Less than 2.0% of mass 69	0.5 (1.6) 1
69	Mass 69 relative abundance	34.2
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	44.4
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	25.2
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	12.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	15.8 (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
SSTDICC2.5	SSTDICC2.5	BM048200.D	10/23/2024	12:26
SSTDICC005	SSTDICC005	BM048201.D	10/23/2024	13:05
SSTDICC010	SSTDICC010	BM048202.D	10/23/2024	13:45
SSTDICC020	SSTDICC020	BM048203.D	10/23/2024	14:24
SSTDICCC040	SSTDICCC040	BM048204.D	10/23/2024	15:04
SSTDICC050	SSTDICC050	BM048205.D	10/23/2024	15:43
SSTDICC060	SSTDICC060	BM048206.D	10/23/2024	16:23
SSTDICC080	SSTDICC080	BM048207.D	10/23/2024	17:02

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4460 SDG NO.: P4460

Lab File ID: BM048210.D DFTPP Injection Date: 10/24/2024

Instrument ID: BNA_M DFTPP Injection Time: 10:31

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	31
68	Less than 2.0% of mass 69	0.5 (1.5) 1
69	Mass 69 relative abundance	33
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	43.5
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	25.6
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	13.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.1 (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
SSTDCCC040	SSTDCCC040	BM048211.D	10/24/2024	11:11
PB164369BL	PB164369BL	BM048212.D	10/24/2024	11:50

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4460 SDG NO.: P4460

Lab File ID: BM048227.D DFTPP Injection Date: 10/25/2024

Instrument ID: BNA_M DFTPP Injection Time: 08:10

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.1
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	34.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	44.7
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	24.9
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	13.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.3 (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
SSTDCCC040	SSTDCCC040	BM048228.D	10/25/2024	08:49
PB164369BSD	PB164369BSD	BM048233.D	10/25/2024	12:58
PB164369BS	PB164369BS	BM048237.D	10/25/2024	15:42
WB-303-SW	P4460-06	BM048238.D	10/25/2024	16:21

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG NO.: P4460

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/23/2024

Lab File ID: BF139952.D Time Analyzed: 09:20

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	156634	6.893	590130	8.18	329153	9.93
	UPPER LIMIT	313268	7.393	1180260	8.675	658306	10.428
	LOWER LIMIT	78317	6.393	295065	7.675	164577	9.428
	EPA SAMPLE NO.						
01	PB164286BL	146341	6.89	564292	8.17	320476	9.93
02	PB164286BS	158593	6.89	620873	8.18	350222	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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG NO.: P4460

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/23/2024

Lab File ID: BF139952.D Time Analyzed: 09:20

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	576587	11.416	299183	14.057	329130	15.533
	UPPER LIMIT	1153170	11.916	598366	14.557	658260	16.033
	LOWER LIMIT	288294	10.916	149592	13.557	164565	15.033
	EPA SAMPLE NO.						
01	PB164286BL	596529	11.41	356991	14.05	312503	15.53
02	PB164286BS	635882	11.42	319612	14.06	347575	15.53

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG NO.: P4460

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/24/2024

Lab File ID: BF140001.D Time Analyzed: 15:16

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	162461	6.892	593909	8.18	325446	9.93
	UPPER LIMIT	324922	7.392	1187820	8.675	650892	10.428
	LOWER LIMIT	81230.5	6.392	296955	7.675	162723	9.428
	EPA SAMPLE NO.						
01	WB-303-BOTMS	132812	6.89	485291	8.18	253613	9.93
02	WB-303-BOTMSD	114465	6.89	337350	8.18	176753	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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG NO.: P4460

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/24/2024

Lab File ID: BF140001.D Time Analyzed: 15:16

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	551060	11.416	264546	14.051	308388	15.533
	UPPER LIMIT	1102120	11.916	529092	14.551	616776	16.033
	LOWER LIMIT	275530	10.916	132273	13.551	154194	15.033
	EPA SAMPLE NO.						
01	WB-303-BOTMS	408327	11.42	231840	14.05	316800	15.53
02	WB-303-BOTMSD	285247	11.42	164779	14.05	222740	15.53

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG NO.: P4460

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/26/2024

Lab File ID: BF140050.D Time Analyzed: 10:38

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	128827	6.892	465620	8.18	252523	9.93
	UPPER LIMIT	257654	7.392	931240	8.675	505046	10.428
	LOWER LIMIT	64413.5	6.392	232810	7.675	126262	9.428
	EPA SAMPLE NO.						
01	WB-303-TOP	142022	6.89	554829	8.17	315069	9.92
02	WB-303-BOT	129197	6.89	476862	8.17	260201	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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG NO.: P4460

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/26/2024

Lab File ID: BF140050.D Time Analyzed: 10:38

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	452033	11.416	241717	14.051	235878	15.533
	UPPER LIMIT	904066	11.916	483434	14.551	471756	16.033
	LOWER LIMIT	226017	10.916	120859	13.551	117939	15.033
	EPA SAMPLE NO.						
01	WB-303-TOP	502958	11.41	252281	14.05	282696	15.53
02	WB-303-BOT	444743	11.41	217594	14.05	237376	15.53

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG NO.: P4460

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/24/2024

Lab File ID: BM048211.D Time Analyzed: 11:11

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	180168	7.722	716977	10.51	442164	14.37
	UPPER LIMIT	360336	8.222	1433950	11.01	884328	14.868
	LOWER LIMIT	90084	7.222	358489	10.01	221082	13.868
	EPA SAMPLE NO.						
01	PB164369BL	201808	7.72	755271	10.51	451085	14.37

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG NO.: P4460

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/24/2024

Lab File ID: BM048211.D Time Analyzed: 11:11

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	865184	17.109	785707	21.339	904102	24.285
	UPPER LIMIT	1730370	17.609	1571410	21.839	1808200	24.785
	LOWER LIMIT	432592	16.609	392854	20.839	452051	23.785
	EPA SAMPLE NO.						
01	PB164369BL	855662	17.11	674681	21.33	711330	24.29

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG NO.: P4460

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/25/2024

Lab File ID: BM048228.D Time Analyzed: 08:49

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	198668	7.716	777876	10.51	472094	14.36
	UPPER LIMIT	397336	8.216	1555750	11.01	944188	14.863
	LOWER LIMIT	99334	7.216	388938	10.01	236047	13.863
	EPA SAMPLE NO.						
01	WB-303-SW	214014	7.72	870137	10.51	580161	14.36
02	PB164369BSD	239298	7.72	913341	10.50	513456	14.36
03	PB164369BS	198559	7.72	731104	10.51	398895	14.36

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG NO.: P4460

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/25/2024

Lab File ID: BM048228.D Time Analyzed: 08:49

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	925065	17.104	823670	21.333	921417	24.28
	UPPER LIMIT	1850130	17.604	1647340	21.833	1842830	24.78
	LOWER LIMIT	462533	16.604	411835	20.833	460709	23.78
	EPA SAMPLE NO.						
01	WB-303-SW	1247450	17.10	1150080	21.33	1229810	24.28
02	PB164369BSD	916015	17.10	699111	21.33	737917	24.28
03	PB164369BS	712540	17.10	616038	21.33	708876	24.28

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.

QC SAMPLE DATA

Raw Data: **BF139962.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164286BL	SDG No.:	P4460
Lab Sample ID:	PB164286BL	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
BF139962.D	1	10/21/24 09:28	10/23/24 14:04	PB164286

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

Raw Data: **BF139962.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164286BL	SDG No.:	P4460
Lab Sample ID:	PB164286BL	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
BF139962.D	1	10/21/24 09:28	10/23/24 14:04	PB164286

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

Raw Data: **BF139962.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164286BL	SDG No.:	P4460
Lab Sample ID:	PB164286BL	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
BF139962.D	1	10/21/24 09:28	10/23/24 14:04	PB164286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	82.5	U	82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	92.9	U	92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.0	U	78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.1	U	81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.0	U	80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.7	U	86.7	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.6	U	74.6	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	134		30 (18) - 130 (112)	90%	SPK: 150
13127-88-3	Phenol-d6	131		30 (15) - 130 (107)	87%	SPK: 150
4165-60-0	Nitrobenzene-d5	99.4		30 (18) - 130 (107)	99%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.7		30 (20) - 130 (109)	95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	156		30 (10) - 130 (116)	104%	SPK: 150
1718-51-0	Terphenyl-d14	98.4		30 (10) - 130 (105)	98%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	146000	6.887			
1146-65-2	Naphthalene-d8	564000	8.169			
15067-26-2	Acenaphthene-d10	320000	9.928			
1517-22-2	Phenanthrene-d10	597000	11.41			
1719-03-5	Chrysene-d12	357000	14.051			
1520-96-3	Perylene-d12	313000	15.527			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	130	J		2.25	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	A		5.13	ug/Kg

Raw Data: **BF139962.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164286BL	SDG No.:	P4460
Lab Sample ID:	PB164286BL	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
BF139962.D	1	10/21/24 09:28	10/23/24 14:04	PB164286

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164369BL	SDG No.:	P4460
Lab Sample ID:	PB164369BL	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
BM048212.D	1	10/23/24 09:50	10/24/24 11:50	PB164369

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164369BL	SDG No.:	P4460
Lab Sample ID:	PB164369BL	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
BM048212.D	1	10/23/24 09:50	10/24/24 11:50	PB164369

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

Raw Data: **BM048212.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164369BL	SDG No.:	P4460
Lab Sample ID:	PB164369BL	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
BM048212.D	1	10/23/24 09:50	10/24/24 11:50	PB164369

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	151		15 (10) - 110 (139)	101%	SPK: 150
13127-88-3	Phenol-d6	138		15 (10) - 110 (134)	92%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.1		30 (49) - 130 (133)	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.8		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	133		15 (44) - 110 (137)	88%	SPK: 150
1718-51-0	Terphenyl-d14	105		30 (48) - 130 (125)	105%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	202000	7.722			
1146-65-2	Naphthalene-d8	755000	10.51			
15067-26-2	Acenaphthene-d10	451000	14.368			
1517-22-2	Phenanthrene-d10	856000	17.109			
1719-03-5	Chrysene-d12	675000	21.333			
1520-96-3	Perylene-d12	711000	24.291			

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

Raw Data: **BF139963.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164286BS	SDG No.:	P4460
Lab Sample ID:	PB164286BS	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
BF139963.D	1	10/21/24 09:28	10/23/24 14:33	PB164286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	450		180	330	ug/Kg
108-95-2	Phenol	1400		82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		83.7	170	ug/Kg
95-57-8	2-Chlorophenol	1500		83.5	170	ug/Kg
95-48-7	2-Methylphenol	1500		80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		90.9	170	ug/Kg
98-86-2	Acetophenone	1400		86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	1400		79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	1500		83.0	170	ug/Kg
98-95-3	Nitrobenzene	1400		90.8	170	ug/Kg
78-59-1	Isophorone	1500		84.6	170	ug/Kg
88-75-5	2-Nitrophenol	1700		94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1400		85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		75.5	170	ug/Kg
91-20-3	Naphthalene	1400		82.6	170	ug/Kg
106-47-8	4-Chloroaniline	1100		82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	1400		83.3	170	ug/Kg
105-60-2	Caprolactam	1500		86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	1500		82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	5300	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	1400		87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		83.3	170	ug/Kg
88-74-4	2-Nitroaniline	1600		95.0	170	ug/Kg
131-11-3	Dimethylphthalate	1500		81.7	170	ug/Kg

Raw Data: **BF139963.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164286BS	SDG No.:	P4460
Lab Sample ID:	PB164286BS	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
BF139963.D	1	10/21/24 09:28	10/23/24 14:33	PB164286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1500		86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.2	170	ug/Kg
99-09-2	3-Nitroaniline	1200		89.2	170	ug/Kg
83-32-9	Acenaphthene	1600		81.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3800	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3200	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1400		84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1700		86.2	170	ug/Kg
84-66-2	Diethylphthalate	1500		80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		85.6	170	ug/Kg
86-73-7	Fluorene	1400		85.5	170	ug/Kg
100-01-6	4-Nitroaniline	1600		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2000		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1400		81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1500		78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	1500		85.0	170	ug/Kg
1912-24-9	Atrazine	1700		91.4	170	ug/Kg
87-86-5	Pentachlorophenol	3000	E	77.3	330	ug/Kg
85-01-8	Phenanthrene	1400		84.0	170	ug/Kg
120-12-7	Anthracene	1500		84.4	170	ug/Kg
86-74-8	Carbazole	1400		80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	1500		84.3	170	ug/Kg
206-44-0	Fluoranthene	1400		81.7	170	ug/Kg
129-00-0	Pyrene	1500		83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1600		96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1300		98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	1500		80.7	170	ug/Kg
218-01-9	Chrysene	1500		79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1700		91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1600		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		81.1	170	ug/Kg

Raw Data: **BF139963.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164286BS	SDG No.:	P4460
Lab Sample ID:	PB164286BS	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
BF139963.D	1	10/21/24 09:28	10/23/24 14:33	PB164286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1400		82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	1600		93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1400		86.8	170	ug/Kg
123-91-1	1,4-Dioxane	1200		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1600		74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	123		30 (18) - 130 (112)	82%	SPK: 150
13127-88-3	Phenol-d6	120		30 (15) - 130 (107)	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.8		30 (18) - 130 (107)	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.5		30 (20) - 130 (109)	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	147		30 (10) - 130 (116)	98%	SPK: 150
1718-51-0	Terphenyl-d14	95.7		30 (10) - 130 (105)	96%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	159000	6.893			
1146-65-2	Naphthalene-d8	621000	8.175			
15067-26-2	Acenaphthene-d10	350000	9.928			
1517-22-2	Phenanthrene-d10	636000	11.416			
1719-03-5	Chrysene-d12	320000	14.057			
1520-96-3	Perylene-d12	348000	15.533			

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164369BS	SDG No.:	P4460
Lab Sample ID:	PB164369BS	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
BM048237.D	1	10/23/24 09:50	10/25/24 15:42	PB164369

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	13.7		4.00	10.0	ug/L
108-95-2	Phenol	47.8		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	48.2		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	48.4		0.71	5.00	ug/L
95-48-7	2-Methylphenol	46.5		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	48.5		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	45.0		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	43.9		1.50	2.50	ug/L
67-72-1	Hexachloroethane	46.9		1.00	5.00	ug/L
98-95-3	Nitrobenzene	47.7		1.30	5.00	ug/L
78-59-1	Isophorone	47.0		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	49.3		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	59.6		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	48.0		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	48.9		0.88	5.00	ug/L
91-20-3	Naphthalene	47.0		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	19.8		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	47.6		1.30	5.00	ug/L
105-60-2	Caprolactam	39.4		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	44.2		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	46.0		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	210	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	51.3		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	49.0		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	50.5		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	49.5		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	49.8		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	47.2		0.93	5.00	ug/L

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164369BS	SDG No.:	P4460
Lab Sample ID:	PB164369BS	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
BM048237.D	1	10/23/24 09:50	10/25/24 15:42	PB164369

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	52.3		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	45.4		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	29.9		1.40	5.00	ug/L
83-32-9	Acenaphthene	49.6		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	93.4	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	94.8	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	48.6		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	45.7		1.50	5.00	ug/L
84-66-2	Diethylphthalate	45.3		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	47.1		0.98	5.00	ug/L
86-73-7	Fluorene	47.0		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	44.9		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	50.1		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	53.1		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	51.4		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	49.6		1.10	5.00	ug/L
1912-24-9	Atrazine	63.7		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	97.9	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	50.8		0.89	5.00	ug/L
120-12-7	Anthracene	53.8		1.10	5.00	ug/L
86-74-8	Carbazole	48.9		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	48.2		1.50	5.00	ug/L
206-44-0	Fluoranthene	46.4		1.30	5.00	ug/L
129-00-0	Pyrene	50.4		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	49.5		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	37.3		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	50.3		0.94	5.00	ug/L
218-01-9	Chrysene	50.0		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	50.4		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	49.5		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	49.4		1.10	5.00	ug/L

Raw Data: **BM048237.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164369BS	SDG No.:	P4460
Lab Sample ID:	PB164369BS	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
BM048237.D	1	10/23/24 09:50	10/25/24 15:42	PB164369

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	51.8		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	55.0		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	55.7		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	55.4		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	50.5		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	52.0		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	43.3		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	48.3		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	144		15 (10) - 110 (139)	96%	SPK: 150
13127-88-3	Phenol-d6	131		15 (10) - 110 (134)	87%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.5		30 (49) - 130 (133)	96%	SPK: 100
321-60-8	2-Fluorobiphenyl	99.0		30 (52) - 130 (132)	99%	SPK: 100
118-79-6	2,4,6-Tribromophenol	133		15 (44) - 110 (137)	89%	SPK: 150
1718-51-0	Terphenyl-d14	103		30 (48) - 130 (125)	103%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	199000	7.716			
1146-65-2	Naphthalene-d8	731000	10.51			
15067-26-2	Acenaphthene-d10	399000	14.363			
1517-22-2	Phenanthrene-d10	713000	17.104			
1719-03-5	Chrysene-d12	616000	21.333			
1520-96-3	Perylene-d12	709000	24.28			

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164369BSD	SDG No.:	P4460
Lab Sample ID:	PB164369BSD	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
BM048233.D	1	10/23/24 09:50	10/25/24 12:58	PB164369

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	14.2		4.00	10.0	ug/L
108-95-2	Phenol	49.6		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	48.8		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	50.0		0.71	5.00	ug/L
95-48-7	2-Methylphenol	48.8		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	49.4		1.40	5.00	ug/L
98-86-2	Acetophenone	47.9		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	47.4		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	44.8		1.50	2.50	ug/L
67-72-1	Hexachloroethane	46.1		1.00	5.00	ug/L
98-95-3	Nitrobenzene	46.8		1.30	5.00	ug/L
78-59-1	Isophorone	47.3		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	50.6		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	60.9		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	48.6		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	50.0		0.88	5.00	ug/L
91-20-3	Naphthalene	46.7		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	20.7		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	46.5		1.30	5.00	ug/L
105-60-2	Caprolactam	41.5		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	45.9		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	46.5		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	210	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	51.8		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	49.7		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	49.3		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	48.5		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	50.2		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	47.4		0.93	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164369BSD	SDG No.:	P4460
Lab Sample ID:	PB164369BSD	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
BM048233.D	1	10/23/24 09:50	10/25/24 12:58	PB164369

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	51.7		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	46.0		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	29.2		1.40	5.00	ug/L
83-32-9	Acenaphthene	48.8		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	96.2	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	96.1	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	47.5		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	46.6		1.50	5.00	ug/L
84-66-2	Diethylphthalate	46.1		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	46.7		0.98	5.00	ug/L
86-73-7	Fluorene	45.8		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	45.4		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	52.3		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	52.9		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	50.7		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	49.4		1.10	5.00	ug/L
1912-24-9	Atrazine	64.2		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	97.2	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	50.2		0.89	5.00	ug/L
120-12-7	Anthracene	52.6		1.10	5.00	ug/L
86-74-8	Carbazole	47.5		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	48.6		1.50	5.00	ug/L
206-44-0	Fluoranthene	44.3		1.30	5.00	ug/L
129-00-0	Pyrene	54.5		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	52.8		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	34.7		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	50.9		0.94	5.00	ug/L
218-01-9	Chrysene	50.1		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	51.9		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	49.5		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	51.5		1.10	5.00	ug/L

Raw Data: **BM048233.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164369BSD	SDG No.:	P4460
Lab Sample ID:	PB164369BSD	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
BM048233.D	1	10/23/24 09:50	10/25/24 12:58	PB164369

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	52.7		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	55.5		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	54.1		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	53.6		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	48.9		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	50.6		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	40.0		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	48.3		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	146		15 (10) - 110 (139)	97%	SPK: 150
13127-88-3	Phenol-d6	135		15 (10) - 110 (134)	90%	SPK: 150
4165-60-0	Nitrobenzene-d5	94.8		30 (49) - 130 (133)	95%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.5		30 (52) - 130 (132)	96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	132		15 (44) - 110 (137)	88%	SPK: 150
1718-51-0	Terphenyl-d14	110		30 (48) - 130 (125)	110%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	239000	7.716			
1146-65-2	Naphthalene-d8	913000	10.504			
15067-26-2	Acenaphthene-d10	513000	14.363			
1517-22-2	Phenanthrene-d10	916000	17.104			
1719-03-5	Chrysene-d12	699000	21.333			
1520-96-3	Perylene-d12	738000	24.28			

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/18/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/18/24
Client Sample ID:	WB-303-BOTMS	SDG No.:	P4460
Lab Sample ID:	P4460-03MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.1
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140006.D	1	10/21/24 09:28	10/24/24 17:45	PB164286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	600		230	410	ug/Kg
108-95-2	Phenol	1900		100	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1900		100	210	ug/Kg
95-57-8	2-Chlorophenol	2000		100	210	ug/Kg
95-48-7	2-Methylphenol	1900		100	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1800		110	210	ug/Kg
98-86-2	Acetophenone	2000		110	210	ug/Kg
65794-96-9	3+4-Methylphenols	1900		99.5	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1900		50.2	99.7	ug/Kg
67-72-1	Hexachloroethane	2100		100	210	ug/Kg
98-95-3	Nitrobenzene	1900		110	210	ug/Kg
78-59-1	Isophorone	2000		110	210	ug/Kg
88-75-5	2-Nitrophenol	2400		120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	2200		120	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1900		110	210	ug/Kg
120-83-2	2,4-Dichlorophenol	2000		94.1	210	ug/Kg
91-20-3	Naphthalene	2100		100	210	ug/Kg
106-47-8	4-Chloroaniline	720		100	210	ug/Kg
87-68-3	Hexachlorobutadiene	2000		100	210	ug/Kg
105-60-2	Caprolactam	2700		110	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1900		96.6	210	ug/Kg
91-57-6	2-Methylnaphthalene	2000		100	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6900	E	190	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2100		89.0	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2000		92.3	210	ug/Kg
92-52-4	1,1-Biphenyl	2000		110	210	ug/Kg
91-58-7	2-Chloronaphthalene	1900		100	210	ug/Kg
88-74-4	2-Nitroaniline	2200		120	210	ug/Kg
131-11-3	Dimethylphthalate	2000		100	210	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/18/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/18/24
Client Sample ID:	WB-303-BOTMS	SDG No.:	P4460
Lab Sample ID:	P4460-03MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.1
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140006.D	1	10/21/24 09:28	10/24/24 17:45	PB164286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2100		110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	2100		100	210	ug/Kg
99-09-2	3-Nitroaniline	1500		110	210	ug/Kg
83-32-9	Acenaphthene	2300		100	210	ug/Kg
51-28-5	2,4-Dinitrophenol	5200	E	300	410	ug/Kg
100-02-7	4-Nitrophenol	4100	E	140	410	ug/Kg
132-64-9	Dibenzofuran	2000		110	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	2300		110	210	ug/Kg
84-66-2	Diethylphthalate	2000		99.9	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2000		110	210	ug/Kg
86-73-7	Fluorene	2000		110	210	ug/Kg
100-01-6	4-Nitroaniline	2000		130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	3100		150	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2200		100	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2200		98.4	210	ug/Kg
118-74-1	Hexachlorobenzene	2100		110	210	ug/Kg
1912-24-9	Atrazine	2600		110	210	ug/Kg
87-86-5	Pentachlorophenol	4100	E	96.4	410	ug/Kg
85-01-8	Phenanthrene	2000		100	210	ug/Kg
120-12-7	Anthracene	2100		110	210	ug/Kg
86-74-8	Carbazole	1900		100	210	ug/Kg
84-74-2	Di-n-butylphthalate	2100		110	210	ug/Kg
206-44-0	Fluoranthene	1700		100	210	ug/Kg
129-00-0	Pyrene	1700		100	210	ug/Kg
85-68-7	Butylbenzylphthalate	2100		120	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1600		120	410	ug/Kg
56-55-3	Benzo(a)anthracene	2100		100	210	ug/Kg
218-01-9	Chrysene	2000		99.1	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2500		110	210	ug/Kg
117-84-0	Di-n-octyl phthalate	2600		140	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	2000		100	210	ug/Kg

Raw Data: **BF140006.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/18/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/18/24
Client Sample ID:	WB-303-BOTMS	SDG No.:	P4460
Lab Sample ID:	P4460-03MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.1
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140006.D	1	10/21/24 09:28	10/24/24 17:45	PB164286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1800		100	210	ug/Kg
50-32-8	Benzo(a)pyrene	2200		120	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2000		97.4	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2000		100	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		99.9	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2000		110	210	ug/Kg
123-91-1	1,4-Dioxane	1700		140	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2100		93.1	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	119		30 (18) - 130 (112)	79%	SPK: 150
13127-88-3	Phenol-d6	119		30 (15) - 130 (107)	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.8		30 (18) - 130 (107)	93%	SPK: 100
321-60-8	2-Fluorobiphenyl	90.6		30 (20) - 130 (109)	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	140		30 (10) - 130 (116)	94%	SPK: 150
1718-51-0	Terphenyl-d14	77.7		30 (10) - 130 (105)	78%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	133000	6.892			
1146-65-2	Naphthalene-d8	485000	8.175			
15067-26-2	Acenaphthene-d10	254000	9.928			
1517-22-2	Phenanthrene-d10	408000	11.416			
1719-03-5	Chrysene-d12	232000	14.051			
1520-96-3	Perylene-d12	317000	15.533			

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/18/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/18/24
Client Sample ID:	WB-303-BOTMSD	SDG No.:	P4460
Lab Sample ID:	P4460-03MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.1
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140007.D	1	10/21/24 09:28	10/24/24 18:14	PB164286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	720		230	410	ug/Kg
108-95-2	Phenol	2300		100	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	2300		100	210	ug/Kg
95-57-8	2-Chlorophenol	2400		100	210	ug/Kg
95-48-7	2-Methylphenol	1700		100	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1600		110	210	ug/Kg
98-86-2	Acetophenone	2200		110	210	ug/Kg
65794-96-9	3+4-Methylphenols	1600		99.5	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1600		50.2	99.7	ug/Kg
67-72-1	Hexachloroethane	2000		100	210	ug/Kg
98-95-3	Nitrobenzene	2100		110	210	ug/Kg
78-59-1	Isophorone	2200		110	210	ug/Kg
88-75-5	2-Nitrophenol	2600		120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	2400		120	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	2000		110	210	ug/Kg
120-83-2	2,4-Dichlorophenol	2200		94.1	210	ug/Kg
91-20-3	Naphthalene	2200		100	210	ug/Kg
106-47-8	4-Chloroaniline	760		100	210	ug/Kg
87-68-3	Hexachlorobutadiene	2200		100	210	ug/Kg
105-60-2	Caprolactam	2800		110	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2100		96.6	210	ug/Kg
91-57-6	2-Methylnaphthalene	2100		100	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	7500	E	190	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2200		89.0	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2100		92.2	210	ug/Kg
92-52-4	1,1-Biphenyl	2100		110	210	ug/Kg
91-58-7	2-Chloronaphthalene	2100		100	210	ug/Kg
88-74-4	2-Nitroaniline	2400		120	210	ug/Kg
131-11-3	Dimethylphthalate	2100		100	210	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/18/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/18/24
Client Sample ID:	WB-303-BOTMSD	SDG No.:	P4460
Lab Sample ID:	P4460-03MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.1
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140007.D	1	10/21/24 09:28	10/24/24 18:14	PB164286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2300		110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	2200		100	210	ug/Kg
99-09-2	3-Nitroaniline	1500		110	210	ug/Kg
83-32-9	Acenaphthene	2400		100	210	ug/Kg
51-28-5	2,4-Dinitrophenol	5500	E	300	410	ug/Kg
100-02-7	4-Nitrophenol	4400	E	140	410	ug/Kg
132-64-9	Dibenzofuran	2200		110	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	2400		110	210	ug/Kg
84-66-2	Diethylphthalate	2200		99.8	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2200		110	210	ug/Kg
86-73-7	Fluorene	2100		110	210	ug/Kg
100-01-6	4-Nitroaniline	2100		130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	3300		150	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2300		100	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2300		98.3	210	ug/Kg
118-74-1	Hexachlorobenzene	2300		110	210	ug/Kg
1912-24-9	Atrazine	2800		110	210	ug/Kg
87-86-5	Pentachlorophenol	4400	E	96.3	410	ug/Kg
85-01-8	Phenanthrene	2200		100	210	ug/Kg
120-12-7	Anthracene	2300		110	210	ug/Kg
86-74-8	Carbazole	2100		100	210	ug/Kg
84-74-2	Di-n-butylphthalate	2300		110	210	ug/Kg
206-44-0	Fluoranthene	1900		100	210	ug/Kg
129-00-0	Pyrene	1800		100	210	ug/Kg
85-68-7	Butylbenzylphthalate	2300		120	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1700		120	410	ug/Kg
56-55-3	Benzo(a)anthracene	2200		100	210	ug/Kg
218-01-9	Chrysene	2100		99.1	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2700		110	210	ug/Kg
117-84-0	Di-n-octyl phthalate	2900		140	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	2100		100	210	ug/Kg

Raw Data: **BF140007.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/18/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/18/24
Client Sample ID:	WB-303-BOTMSD	SDG No.:	P4460
Lab Sample ID:	P4460-03MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.1
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140007.D	1	10/21/24 09:28	10/24/24 18:14	PB164286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1900		100	210	ug/Kg
50-32-8	Benzo(a)pyrene	2300		120	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2900		97.3	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2900		100	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2500		99.8	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2200		110	210	ug/Kg
123-91-1	1,4-Dioxane	1600		140	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2300		93.1	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	113		30 (18) - 130 (112)	75%	SPK: 150
13127-88-3	Phenol-d6	140		30 (15) - 130 (107)	93%	SPK: 150
4165-60-0	Nitrobenzene-d5	101		30 (18) - 130 (107)	101%	SPK: 100
321-60-8	2-Fluorobiphenyl	98.3		30 (20) - 130 (109)	98%	SPK: 100
118-79-6	2,4,6-Tribromophenol	149		30 (10) - 130 (116)	100%	SPK: 150
1718-51-0	Terphenyl-d14	81.9		30 (10) - 130 (105)	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	114000	6.893			
1146-65-2	Naphthalene-d8	337000	8.175			
15067-26-2	Acenaphthene-d10	177000	9.928			
1517-22-2	Phenanthrene-d10	285000	11.416			
1719-03-5	Chrysene-d12	165000	14.051			
1520-96-3	Perylene-d12	223000	15.533			

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

CALIBRATION SUMMARY

Response Factor Report BNA_F

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 =BF1398
51.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)		Butylbenzylpht...	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

Response Factor Report BNA_M

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM102324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Oct 23 18:21:59 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BM048200.D 5 =BM048201.D 10 =BM048202.D 20 =BM048203.D 40 =BM048204.D 50 =BM048205.D 60 =BM048206.D 80 =BM0482
07.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.538	0.529	0.508	0.502	0.451	0.449	0.433	0.487	8.69
3)		Pyridine		1.311	1.326	1.338	1.329	1.248	1.275	1.228	1.294	3.35
4)		n-Nitrosodimet...		0.571	0.549	0.566	0.572	0.535	0.537	0.515	0.549	3.94
5)	S	2-Fluorophenol		1.238	1.182	1.198	1.216	1.162	1.185	1.148	1.190	2.59
6)		Aniline		1.385	1.370	1.370	1.385	1.235	1.196	1.063	1.286	9.76
7)	S	Phenol-d6		1.555	1.545	1.578	1.594	1.523	1.562	1.490	1.550	2.25
8)		2-Chlorophenol		1.337	1.282	1.302	1.323	1.264	1.295	1.247	1.293	2.44
9)		Benzaldehyde		0.865	0.868	0.830	0.760	0.643	0.602		0.761	15.15
10)	C	Phenol		1.544	1.538	1.584	1.600	1.543	1.585	1.519	1.559	1.93
11)		bis(2-Chloroet...		1.238	1.275	1.240	1.281	1.221	1.238	1.199	1.242	2.30
12)		1,3-Dichlorobe...		1.600	1.532	1.516	1.512	1.428	1.452	1.392	1.490	4.75
13)	C	1,4-Dichlorobe...		1.638	1.571	1.534	1.517	1.454	1.469	1.415	1.514	5.01
14)		1,2-Dichlorobe...		1.573	1.528	1.497	1.483	1.400	1.410	1.351	1.463	5.39
15)		Benzyl Alcohol		0.902	0.943	1.011	1.045	1.010	1.024	0.985	0.989	5.06
16)		2,2'-oxybis(1-...		1.972	1.875	1.875	1.837	1.751	1.747	1.657	1.816	5.78
17)		2-Methylphenol		0.992	1.032	1.076	1.067	1.030	1.052	1.003	1.036	3.01
18)		Hexachloroethane		0.602	0.565	0.556	0.565	0.532	0.542	0.523	0.555	4.72
19)	P	n-Nitroso-di-n...	1.020	1.036	0.993	1.014	1.010	0.945	0.944	0.881	0.980	5.36
20)		3+4-Methylphenols		1.412	1.374	1.453	1.515	1.439	1.461	1.391	1.435	3.31
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.493	0.488	0.505	0.502	0.480	0.487	0.461	0.488	3.01
23)	S	Nitrobenzene-d5		0.347	0.348	0.362	0.369	0.353	0.358	0.342	0.354	2.64
24)		Nitrobenzene		0.367	0.363	0.375	0.379	0.365	0.367	0.352	0.367	2.36
25)		Isophorone		0.652	0.638	0.664	0.672	0.642	0.654	0.623	0.649	2.56
26)	C	2-Nitrophenol		0.145	0.151	0.169	0.180	0.178	0.183	0.180	0.169	9.13
27)		2,4-Dimethylph...		0.192	0.195	0.210	0.215	0.207	0.213	0.207	0.206	4.34
28)		bis(2-Chloroet...		0.398	0.403	0.422	0.428	0.407	0.415	0.401	0.411	2.77
29)	C	2,4-Dichloroph...		0.270	0.279	0.300	0.311	0.301	0.309	0.300	0.296	5.24
30)		1,2,4-Trichlor...		0.350	0.335	0.345	0.344	0.332	0.338	0.327	0.339	2.47
31)		Naphthalene		1.097	1.048	1.065	1.062	1.012	1.031	0.986	1.043	3.52
32)		Benzoic acid		0.189	0.191	0.212	0.248	0.244	0.259	0.258	0.229	13.37
33)		4-Chloroaniline		0.320	0.330	0.367	0.376	0.342	0.336	0.299	0.338	7.83
34)	C	Hexachlorobuta...		0.219	0.212	0.215	0.214	0.203	0.207	0.199	0.210	3.32
35)		Caprolactam		0.087	0.089	0.097	0.104	0.097	0.101	0.098	0.096	6.29
36)	C	4-Chloro-3-met...		0.291	0.296	0.318	0.324	0.309	0.316	0.307	0.309	3.91
37)		2-Methylnaphth...		0.726	0.694	0.719	0.716	0.678	0.688	0.657	0.697	3.58
38)		1-Methylnaphth...		0.724	0.692	0.707	0.712	0.669	0.686	0.648	0.691	3.76

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM102324.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.588	0.575	0.572	0.578	0.563	0.571	0.555	0.572	1.87
41)	P	Hexachlorocycl...	0.179	0.187	0.195	0.202	0.200	0.201	0.191	0.193	4.41
42)	S	2,4,6-Tribromo...	0.241	0.246	0.252	0.259	0.240	0.243	0.233	0.245	3.44
43)	C	2,4,6-Trichlor...	0.357	0.369	0.382	0.394	0.381	0.391	0.382	0.379	3.39
44)		2,4,5-Trichlor...	0.411	0.407	0.420	0.441	0.423	0.437	0.423	0.423	2.93
45)	S	2-Fluorobiphenyl	1.391	1.358	1.338	1.333	1.258	1.261	1.185	1.303	5.49
46)		1,1'-Biphenyl	1.476	1.458	1.454	1.454	1.396	1.407	1.351	1.428	3.11
47)		2-Chloronaphth...	1.153	1.136	1.139	1.149	1.108	1.124	1.072	1.126	2.51
48)		2-Nitroaniline	0.258	0.279	0.309	0.329	0.319	0.327	0.316	0.305	8.82
49)		Acenaphthylene	1.661	1.634	1.674	1.693	1.613	1.643	1.580	1.643	2.32
50)		Dimethylphthalate	1.451	1.384	1.382	1.396	1.306	1.345	1.293	1.365	4.01
51)		2,6-Dinitrotol...	0.273	0.290	0.312	0.321	0.310	0.317	0.309	0.305	5.61
52)	C	Acenaphthene	1.098	1.062	1.058	1.064	1.018	1.023	0.983	1.044	3.65
53)		3-Nitroaniline	0.229	0.265	0.300	0.321	0.305	0.304	0.289	0.287	10.74
54)	P	2,4-Dinitrophenol		0.136	0.164	0.188	0.189	0.196	0.195	0.178	13.24
55)		Dibenzofuran	1.766	1.710	1.701	1.702	1.590	1.608	1.529	1.658	5.03
56)	P	4-Nitrophenol		0.203	0.245	0.277	0.266	0.275	0.272	0.256	11.11
57)		2,4-Dinitrotol...	0.338	0.371	0.406	0.437	0.417	0.429	0.418	0.402	8.82
58)		Fluorene	1.412	1.361	1.378	1.351	1.248	1.253	1.176	1.311	6.56
59)		2,3,4,6-Tetrac...	0.356	0.353	0.355	0.370	0.337	0.346	0.338	0.351	3.26
60)		Diethylphthalate	1.445	1.389	1.397	1.424	1.340	1.370	1.311	1.382	3.36
61)		4-Chlorophenyl...	0.700	0.687	0.685	0.671	0.623	0.630	0.594	0.656	6.09
62)		4-Nitroaniline	0.213	0.247	0.300	0.339	0.320	0.334	0.328	0.297	16.35
63)		Azobenzene	1.196	1.238	1.287	1.314	1.224	1.236	1.180	1.239	3.83
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.087	0.098	0.116	0.129	0.124	0.129	0.128	0.116	14.66
66)	c	n-Nitrosodiphe...	0.549	0.556	0.565	0.570	0.538	0.546	0.521	0.549	3.01
67)		4-Bromophenyl-...	0.205	0.205	0.204	0.208	0.199	0.203	0.195	0.203	2.09
68)		Hexachlorobenzene	0.252	0.249	0.245	0.251	0.236	0.240	0.232	0.244	3.16
69)		Atrazine	0.176	0.172	0.150	0.186	0.111	0.128		0.154	19.35
70)	C	Pentachlorophenol	0.145	0.150	0.161	0.172	0.160	0.166	0.164	0.160	5.93
71)		Phenanthrene	1.043	1.012	1.008	1.017	0.953	0.969	0.930	0.990	4.08
72)		Anthracene	0.960	0.952	0.985	0.998	0.944	0.955	0.916	0.959	2.80
73)		Carbazole	0.911	0.923	0.958	0.994	0.927	0.953	0.911	0.940	3.23
74)		Di-n-butylphth...	1.131	1.114	1.164	1.241	1.170	1.208	1.161	1.170	3.68
75)	C	Fluoranthene	1.236	1.185	1.210	1.223	1.137	1.162	1.117	1.181	3.80
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.417	0.269	0.107	0.344	0.155	0.101	0.223	0.231	52.15
78)		Pyrene	1.336	1.312	1.332	1.358	1.335	1.370	1.329	1.339	1.42
79)	S	Terphenyl-d14	1.013	1.003	1.005	1.009	0.955	0.969	0.907	0.980	3.98
80)		Butylbenzylpht...	0.490	0.502	0.542	0.589	0.583	0.612	0.600	0.560	8.68
81)		Benzo(a)anthra...	1.299	1.258	1.277	1.297	1.264	1.294	1.257	1.278	1.47
82)		3,3'-Dichlorob...	0.432	0.435	0.442	0.473	0.427	0.434	0.422	0.438	3.84
83)		Chrysene	1.273	1.224	1.242	1.244	1.203	1.224	1.177	1.227	2.50
84)		Bis(2-ethylhex...	0.735	0.758	0.813	0.861	0.839	0.866	0.823	0.814	6.15
85)	c	Di-n-octyl pht...	1.206	1.220	1.357	1.491	1.485	1.556	1.548	1.409	10.57

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM102324.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.293	1.288	1.343	1.373	1.305	1.355	1.300	1.323	2.56
88)		Benzo(b)fluora...	1.142	1.113	1.179	1.182	1.148	1.142	1.121	1.147	2.27
89)		Benzo(k)fluora...	1.134	1.146	1.109	1.147	1.054	1.123	1.047	1.109	3.77
90)	C	Benzo(a)pyrene	0.983	0.965	1.007	1.034	0.990	1.018	0.982	0.997	2.40
91)		Dibenzo(a,h)an...	1.093	1.074	1.122	1.147	1.086	1.118	1.069	1.101	2.58
92)		Benzo(g,h,i)pe...	1.131	1.099	1.138	1.156	1.111	1.156	1.103	1.128	2.11

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG No.: P4460

Instrument ID: BNA_F Calibration Date/Time: 10/23/2024 09:20

Lab File ID: BF139952.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	1.208		-5.5	
Benzaldehyde	0.931	0.814		-12.6	
Phenol-d6	1.655	1.535		-7.3	
Phenol	1.706	1.607		-5.8	20.0
bis(2-Chloroethyl)ether	1.319	1.234		-6.4	
2-Chlorophenol	1.306	1.268		-2.9	
2-Methylphenol	1.114	1.068		-4.1	
2,2-oxybis(1-Chloropropane)	2.248	2.003		-10.9	
Acetophenone	0.490	0.464		-5.3	
3+4-Methylphenols	1.424	1.338		-6.0	
n-Nitroso-di-n-propylamine	1.004	0.910	0.050	-9.4	
Nitrobenzene-d5	0.361	0.367		1.7	
Hexachloroethane	0.534	0.522		-2.2	
Nitrobenzene	0.396	0.388		-2.0	
Isophorone	0.685	0.648		-5.4	
2-Nitrophenol	0.149	0.174		16.8	20.0
2,4-Dimethylphenol	0.249	0.236		-5.2	
bis(2-Chloroethoxy)methane	0.415	0.398		-4.1	
2,4-Dichlorophenol	0.283	0.280		-1.1	20.0
Naphthalene	1.031	1.008		-2.2	
4-Chloroaniline	0.352	0.342		-2.8	
Hexachlorobutadiene	0.197	0.200		1.5	20.0
Caprolactam	0.090	0.090		0.0	
4-Chloro-3-methylphenol	0.314	0.305		-2.9	20.0
2-Methylnaphthalene	0.632	0.620		-1.9	
Hexachlorocyclopentadiene	0.188	0.204	0.050	8.5	
2,4,6-Trichlorophenol	0.382	0.403		5.5	20.0
2-Fluorobiphenyl	1.210	1.162		-4.0	
2,4,5-Trichlorophenol	0.394	0.393		-0.3	
1,1-Biphenyl	1.392	1.355		-2.7	
2-Chloronaphthalene	1.121	1.098		-2.1	
2-Nitroaniline	0.343	0.363		5.8	
Dimethylphthalate	1.246	1.215		-2.5	
Acenaphthylene	1.621	1.589		-2.0	
2,6-Dinitrotoluene	0.270	0.288		6.7	
3-Nitroaniline	0.278	0.293		5.4	
Acenaphthene	1.049	1.047		-0.2	20.0
2,4-Dinitrophenol	0.093	0.140	0.050	50.5	
4-Nitrophenol	0.214	0.233	0.050	8.9	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG No.: P4460

Instrument ID: BNA_F Calibration Date/Time: 10/23/2024 09:20

Lab File ID: BF139952.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	1.468		-2.5	
2,4-Dinitrotoluene	0.332	0.372		12.0	
Diethylphthalate	1.223	1.192		-2.5	
4-Chlorophenyl-phenylether	0.579	0.584		0.9	
Fluorene	1.146	1.120		-2.3	
4-Nitroaniline	0.263	0.278		5.7	
4,6-Dinitro-2-methylphenol	0.082	0.113		37.8	
n-Nitrosodiphenylamine	0.599	0.579		-3.3	20.0
2,4,6-Tribromophenol	0.187	0.206		10.2	
4-Bromophenyl-phenylether	0.206	0.211		2.4	
Hexachlorobenzene	0.232	0.233		0.4	
Atrazine	0.162	0.165		1.9	
Pentachlorophenol	0.141	0.161		14.2	20.0
Phenanthrene	0.945	0.906		-4.1	
Anthracene	0.922	0.896		-2.8	
Carbazole	0.857	0.815		-4.9	
Di-n-butylphthalate	0.990	0.951		-3.9	
Fluoranthene	0.955	0.921		-3.6	20.0
Pyrene	1.751	1.747		-0.2	
Terphenyl-d14	1.227	1.236		0.7	
Butylbenzylphthalate	0.525	0.536		2.1	
3,3-Dichlorobenzidine	0.380	0.427		12.4	
Benzo(a)anthracene	1.302	1.273		-2.2	
Chrysene	1.194	1.169		-2.1	
Bis(2-ethylhexyl)phthalate	0.589	0.652		10.7	
Di-n-octyl phthalate	1.071	1.163		8.6	20.0
Benzo(b)fluoranthene	1.218	1.240		1.8	
Benzo(k)fluoranthene	1.051	0.912		-13.2	
Benzo(a)pyrene	1.002	0.988		-1.4	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.393		8.2	
Dibenzo(a,h)anthracene	1.073	1.155		7.6	
Benzo(g,h,i)perylene	1.072	1.184		10.4	
1,2,4,5-Tetrachlorobenzene	0.540	0.541		0.2	
1,4-Dioxane	0.596	0.552		-7.4	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.318		2.9	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG No.: P4460

Instrument ID: BNA_F Calibration Date/Time: 10/24/2024 15:16

Lab File ID: BF140001.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	1.208		-5.5	
Benzaldehyde	0.931	0.931		0.0	
Phenol-d6	1.655	1.521		-8.1	
Phenol	1.706	1.601		-6.2	20.0
bis(2-Chloroethyl)ether	1.319	1.259		-4.5	
2-Chlorophenol	1.306	1.259		-3.6	
2-Methylphenol	1.114	1.047		-6.0	
2,2-oxybis(1-Chloropropane)	2.248	1.948		-13.3	
Acetophenone	0.490	0.472		-3.7	
3+4-Methylphenols	1.424	1.322		-7.2	
n-Nitroso-di-n-propylamine	1.004	0.889	0.050	-11.5	
Nitrobenzene-d5	0.361	0.374		3.6	
Hexachloroethane	0.534	0.526		-1.5	
Nitrobenzene	0.396	0.397		0.3	
Isophorone	0.685	0.655		-4.4	
2-Nitrophenol	0.149	0.178		19.5	20.0
2,4-Dimethylphenol	0.249	0.238		-4.4	
bis(2-Chloroethoxy)methane	0.415	0.407		-1.9	
2,4-Dichlorophenol	0.283	0.285		0.7	20.0
Naphthalene	1.031	1.015		-1.6	
4-Chloroaniline	0.352	0.336		-4.5	
Hexachlorobutadiene	0.197	0.203		3.0	20.0
Caprolactam	0.090	0.089		-1.1	
4-Chloro-3-methylphenol	0.314	0.306		-2.5	20.0
2-Methylnaphthalene	0.632	0.623		-1.4	
Hexachlorocyclopentadiene	0.188	0.199	0.050	5.9	
2,4,6-Trichlorophenol	0.382	0.387		1.3	20.0
2-Fluorobiphenyl	1.210	1.197		-1.1	
2,4,5-Trichlorophenol	0.394	0.415		5.3	
1,1-Biphenyl	1.392	1.393		0.1	
2-Chloronaphthalene	1.121	1.127		0.5	
2-Nitroaniline	0.343	0.369		7.6	
Dimethylphthalate	1.246	1.232		-1.1	
Acenaphthylene	1.621	1.600		-1.3	
2,6-Dinitrotoluene	0.270	0.292		8.1	
3-Nitroaniline	0.278	0.285		2.5	
Acenaphthene	1.049	1.061		1.1	20.0
2,4-Dinitrophenol	0.093	0.142	0.050	52.7	
4-Nitrophenol	0.214	0.216	0.050	0.9	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG No.: P4460

Instrument ID: BNA_F Calibration Date/Time: 10/24/2024 15:16

Lab File ID: BF140001.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	1.482		-1.5	
2,4-Dinitrotoluene	0.332	0.371		11.7	
Diethylphthalate	1.223	1.183		-3.3	
4-Chlorophenyl-phenylether	0.579	0.577		-0.3	
Fluorene	1.146	1.115		-2.7	
4-Nitroaniline	0.263	0.268		1.9	
4,6-Dinitro-2-methylphenol	0.082	0.115		40.2	
n-Nitrosodiphenylamine	0.599	0.597		-0.3	20.0
2,4,6-Tribromophenol	0.187	0.207		10.7	
4-Bromophenyl-phenylether	0.206	0.220		6.8	
Hexachlorobenzene	0.232	0.242		4.3	
Atrazine	0.162	0.163		0.6	
Pentachlorophenol	0.141	0.159		12.8	20.0
Phenanthrene	0.945	0.922		-2.4	
Anthracene	0.922	0.910		-1.3	
Carbazole	0.857	0.810		-5.5	
Di-n-butylphthalate	0.990	0.945		-4.5	
Fluoranthene	0.955	0.896		-6.2	20.0
Pyrene	1.751	1.855		5.9	
Terphenyl-d14	1.227	1.306		6.4	
Butylbenzylphthalate	0.525	0.544		3.6	
3,3-Dichlorobenzidine	0.380	0.435		14.5	
Benzo(a)anthracene	1.302	1.322		1.5	
Chrysene	1.194	1.125		-5.8	
Bis(2-ethylhexyl)phthalate	0.589	0.627		6.5	
Di-n-octyl phthalate	1.071	1.102		2.9	20.0
Benzo(b)fluoranthene	1.218	1.087		-10.8	
Benzo(k)fluoranthene	1.051	1.032		-1.8	
Benzo(a)pyrene	1.002	0.984		-1.8	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.386		7.7	
Dibenzo(a,h)anthracene	1.073	1.154		7.5	
Benzo(g,h,i)perylene	1.072	1.167		8.9	
1,2,4,5-Tetrachlorobenzene	0.540	0.560		3.7	
1,4-Dioxane	0.596	0.573		-3.9	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.321		3.9	

All other compounds must meet a minimum RRF of 0.010.

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG No.: P4460

Instrument ID: BNA_F Calibration Date/Time: 10/26/2024 10:38

Lab File ID: BF140050.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	1.220		-4.5	
Benzaldehyde	0.931	0.910		-2.3	
Phenol-d6	1.655	1.531		-7.5	
Phenol	1.706	1.580		-7.4	20.0
bis(2-Chloroethyl)ether	1.319	1.223		-7.3	
2-Chlorophenol	1.306	1.244		-4.7	
2-Methylphenol	1.114	1.029		-7.6	
2,2-oxybis(1-Chloropropane)	2.248	1.911		-15.0	
Acetophenone	0.490	0.475		-3.1	
3+4-Methylphenols	1.424	1.308		-8.1	
n-Nitroso-di-n-propylamine	1.004	0.873	0.050	-13.0	
Nitrobenzene-d5	0.361	0.380		5.3	
Hexachloroethane	0.534	0.520		-2.6	
Nitrobenzene	0.396	0.399		0.8	
Isophorone	0.685	0.645		-5.8	
2-Nitrophenol	0.149	0.164		10.1	20.0
2,4-Dimethylphenol	0.249	0.232		-6.8	
bis(2-Chloroethoxy)methane	0.415	0.393		-5.3	
2,4-Dichlorophenol	0.283	0.279		-1.4	20.0
Naphthalene	1.031	1.028		-0.3	
4-Chloroaniline	0.352	0.343		-2.6	
Hexachlorobutadiene	0.197	0.204		3.6	20.0
Caprolactam	0.090	0.088		-2.2	
4-Chloro-3-methylphenol	0.314	0.307		-2.2	20.0
2-Methylnaphthalene	0.632	0.618		-2.2	
Hexachlorocyclopentadiene	0.188	0.191	0.050	1.6	
2,4,6-Trichlorophenol	0.382	0.374		-2.1	20.0
2-Fluorobiphenyl	1.210	1.211		0.1	
2,4,5-Trichlorophenol	0.394	0.414		5.1	
1,1-Biphenyl	1.392	1.391		-0.1	
2-Chloronaphthalene	1.121	1.129		0.7	
2-Nitroaniline	0.343	0.375		9.3	
Dimethylphthalate	1.246	1.229		-1.4	
Acenaphthylene	1.621	1.628		0.4	
2,6-Dinitrotoluene	0.270	0.290		7.4	
3-Nitroaniline	0.278	0.298		7.2	
Acenaphthene	1.049	1.058		0.9	20.0
2,4-Dinitrophenol	0.093	0.126	0.050	35.5	
4-Nitrophenol	0.214	0.229	0.050	7.0	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG No.: P4460

Instrument ID: BNA_F Calibration Date/Time: 10/26/2024 10:38

Lab File ID: BF140050.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	1.491		-0.9	
2,4-Dinitrotoluene	0.332	0.383		15.4	
Diethylphthalate	1.223	1.181		-3.4	
4-Chlorophenyl-phenylether	0.579	0.581		0.3	
Fluorene	1.146	1.149		0.3	
4-Nitroaniline	0.263	0.289		9.9	
4,6-Dinitro-2-methylphenol	0.082	0.104		26.8	
n-Nitrosodiphenylamine	0.599	0.572		-4.5	20.0
2,4,6-Tribromophenol	0.187	0.204		9.1	
4-Bromophenyl-phenylether	0.206	0.202		-1.9	
Hexachlorobenzene	0.232	0.233		0.4	
Atrazine	0.162	0.156		-3.7	
Pentachlorophenol	0.141	0.152		7.8	20.0
Phenanthrene	0.945	0.913		-3.4	
Anthracene	0.922	0.901		-2.3	
Carbazole	0.857	0.832		-2.9	
Di-n-butylphthalate	0.990	0.946		-4.4	
Fluoranthene	0.955	0.965		1.0	20.0
Pyrene	1.751	1.811		3.4	
Terphenyl-d14	1.227	1.258		2.5	
Butylbenzylphthalate	0.525	0.551		5.0	
3,3-Dichlorobenzidine	0.380	0.409		7.6	
Benzo(a)anthracene	1.302	1.311		0.7	
Chrysene	1.194	1.157		-3.1	
Bis(2-ethylhexyl)phthalate	0.589	0.606		2.9	
Di-n-octyl phthalate	1.071	0.894		-16.5	20.0
Benzo(b)fluoranthene	1.218	1.154		-5.3	
Benzo(k)fluoranthene	1.051	1.063		1.1	
Benzo(a)pyrene	1.002	1.013		1.1	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.303		1.2	
Dibenzo(a,h)anthracene	1.073	1.070		-0.3	
Benzo(g,h,i)perylene	1.072	1.111		3.6	
1,2,4,5-Tetrachlorobenzene	0.540	0.555		2.8	
1,4-Dioxane	0.596	0.584		-2.0	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.315		1.9	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG No.: P4460

Instrument ID: BNA_M Calibration Date/Time: 10/24/2024 11:11

Lab File ID: BM048211.D Init. Calib. Date(s): 10/23/2024 10/23/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:26 17:02

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.190	1.228		3.2	
Benzaldehyde	0.761	0.734		-3.5	
Phenol-d6	1.550	1.554		0.3	
Phenol	1.559	1.569		0.6	20.0
bis(2-Chloroethyl)ether	1.242	1.263		1.7	
2-Chlorophenol	1.293	1.306		1.0	
2-Methylphenol	1.036	1.046		1.0	
2,2-oxybis(1-Chloropropane)	1.816	1.809		-0.4	
Acetophenone	0.488	0.486		-0.4	
3+4-Methylphenols	1.435	1.436		0.1	
n-Nitroso-di-n-propylamine	0.980	0.948	0.050	-3.3	
Nitrobenzene-d5	0.354	0.357		0.8	
Hexachloroethane	0.555	0.560		0.9	
Nitrobenzene	0.367	0.370		0.8	
Isophorone	0.649	0.635		-2.2	
2-Nitrophenol	0.169	0.177		4.7	20.0
2,4-Dimethylphenol	0.206	0.208		1.0	
bis(2-Chloroethoxy)methane	0.411	0.416		1.2	
2,4-Dichlorophenol	0.296	0.311		5.1	20.0
Naphthalene	1.043	1.067		2.3	
4-Chloroaniline	0.338	0.365		8.0	
Hexachlorobutadiene	0.210	0.218		3.8	20.0
Caprolactam	0.096	0.095		-1.0	
4-Chloro-3-methylphenol	0.309	0.312		1.0	20.0
2-Methylnaphthalene	0.697	0.706		1.3	
Hexachlorocyclopentadiene	0.193	0.205	0.050	6.2	
2,4,6-Trichlorophenol	0.379	0.399		5.3	20.0
2-Fluorobiphenyl	1.303	1.338		2.7	
2,4,5-Trichlorophenol	0.423	0.437		3.3	
1,1-Biphenyl	1.428	1.466		2.7	
2-Chloronaphthalene	1.126	1.160		3.0	
2-Nitroaniline	0.305	0.318		4.3	
Dimethylphthalate	1.365	1.373		0.6	
Acenaphthylene	1.643	1.687		2.7	
2,6-Dinitrotoluene	0.305	0.315		3.3	
3-Nitroaniline	0.287	0.318		10.8	
Acenaphthene	1.044	1.059		1.4	20.0
2,4-Dinitrophenol	0.178	0.184	0.050	3.4	
4-Nitrophenol	0.256	0.264	0.050	3.1	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG No.: P4460

Instrument ID: BNA_M Calibration Date/Time: 10/24/2024 11:11

Lab File ID: BM048211.D Init. Calib. Date(s): 10/23/2024 10/23/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:26 17:02

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.658	1.689		1.9	
2,4-Dinitrotoluene	0.402	0.425		5.7	
Diethylphthalate	1.382	1.391		0.7	
4-Chlorophenyl-phenylether	0.656	0.673		2.6	
Fluorene	1.311	1.335		1.8	
4-Nitroaniline	0.297	0.327		10.1	
4,6-Dinitro-2-methylphenol	0.116	0.129		11.2	
n-Nitrosodiphenylamine	0.549	0.570		3.8	20.0
2,4,6-Tribromophenol	0.245	0.251		2.4	
4-Bromophenyl-phenylether	0.203	0.209		3.0	
Hexachlorobenzene	0.244	0.251		2.9	
Atrazine	0.154	0.154		0.0	
Pentachlorophenol	0.160	0.171		6.9	20.0
Phenanthrene	0.990	1.012		2.2	
Anthracene	0.959	0.994		3.7	
Carbazole	0.940	0.981		4.4	
Di-n-butylphthalate	1.170	1.227		4.9	
Fluoranthene	1.181	1.202		1.8	20.0
Pyrene	1.339	1.394		4.1	
Terphenyl-d14	0.980	1.013		3.4	
Butylbenzylphthalate	0.560	0.598		6.8	
3,3-Dichlorobenzidine	0.438	0.458		4.6	
Benzo(a)anthracene	1.278	1.318		3.1	
Chrysene	1.227	1.249		1.8	
Bis(2-ethylhexyl)phthalate	0.814	0.870		6.9	
Di-n-octyl phthalate	1.409	1.494		6.0	20.0
Benzo(b)fluoranthene	1.147	1.188		3.6	
Benzo(k)fluoranthene	1.109	1.158		4.4	
Benzo(a)pyrene	0.997	1.039		4.2	20.0
Indeno(1,2,3-cd)pyrene	1.323	1.371		3.6	
Dibenzo(a,h)anthracene	1.101	1.147		4.2	
Benzo(g,h,i)perylene	1.128	1.164		3.2	
1,2,4,5-Tetrachlorobenzene	0.572	0.590		3.1	
1,4-Dioxane	0.487	0.489		0.4	20.0
2,3,4,6-Tetrachlorophenol	0.351	0.360		2.6	

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG No.: P4460

Instrument ID: BNA_M Calibration Date/Time: 10/25/2024 08:49

Lab File ID: BM048228.D Init. Calib. Date(s): 10/23/2024 10/23/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:26 17:02

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.190	1.150		-3.4	
Benzaldehyde	0.761	0.656		-13.8	
Phenol-d6	1.550	1.488		-4.0	
Phenol	1.559	1.504		-3.5	20.0
bis(2-Chloroethyl)ether	1.242	1.206		-2.9	
2-Chlorophenol	1.293	1.249		-3.4	
2-Methylphenol	1.036	0.994		-4.1	
2,2-oxybis(1-Chloropropane)	1.816	1.761		-3.0	
Acetophenone	0.488	0.480		-1.6	
3+4-Methylphenols	1.435	1.367		-4.7	
n-Nitroso-di-n-propylamine	0.980	0.926	0.050	-5.5	
Nitrobenzene-d5	0.354	0.351		-0.8	
Hexachloroethane	0.555	0.537		-3.2	
Nitrobenzene	0.367	0.362		-1.4	
Isophorone	0.649	0.616		-5.1	
2-Nitrophenol	0.169	0.167		-1.2	20.0
2,4-Dimethylphenol	0.206	0.201		-2.4	
bis(2-Chloroethoxy)methane	0.411	0.404		-1.7	
2,4-Dichlorophenol	0.296	0.294		-0.7	20.0
Naphthalene	1.043	1.014		-2.8	
4-Chloroaniline	0.338	0.347		2.7	
Hexachlorobutadiene	0.210	0.208		-1.0	20.0
Caprolactam	0.096	0.088		-8.3	
4-Chloro-3-methylphenol	0.309	0.294		-4.9	20.0
2-Methylnaphthalene	0.697	0.672		-3.6	
Hexachlorocyclopentadiene	0.193	0.203	0.050	5.2	
2,4,6-Trichlorophenol	0.379	0.380		0.3	20.0
2-Fluorobiphenyl	1.303	1.310		0.5	
2,4,5-Trichlorophenol	0.423	0.425		0.5	
1,1-Biphenyl	1.428	1.430		0.1	
2-Chloronaphthalene	1.126	1.129		0.3	
2-Nitroaniline	0.305	0.306		0.3	
Dimethylphthalate	1.365	1.301		-4.7	
Acenaphthylene	1.643	1.624		-1.2	
2,6-Dinitrotoluene	0.305	0.299		-2.0	
3-Nitroaniline	0.287	0.295		2.8	
Acenaphthene	1.044	1.027		-1.6	20.0
2,4-Dinitrophenol	0.178	0.163	0.050	-8.4	
4-Nitrophenol	0.256	0.244	0.050	-4.7	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4460 SAS No.: P4460 SDG No.: P4460

Instrument ID: BNA_M Calibration Date/Time: 10/25/2024 08:49

Lab File ID: BM048228.D Init. Calib. Date(s): 10/23/2024 10/23/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:26 17:02

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.658	1.615		-2.6	
2,4-Dinitrotoluene	0.402	0.396		-1.5	
Diethylphthalate	1.382	1.330		-3.8	
4-Chlorophenyl-phenylether	0.656	0.650		-0.9	
Fluorene	1.311	1.289		-1.7	
4-Nitroaniline	0.297	0.299		0.7	
4,6-Dinitro-2-methylphenol	0.116	0.117		0.9	
n-Nitrosodiphenylamine	0.549	0.548		-0.2	20.0
2,4,6-Tribromophenol	0.245	0.240		-2.0	
4-Bromophenyl-phenylether	0.203	0.201		-1.0	
Hexachlorobenzene	0.244	0.241		-1.2	
Atrazine	0.154	0.143		-7.1	
Pentachlorophenol	0.160	0.163		1.9	20.0
Phenanthrene	0.990	0.970		-2.0	
Anthracene	0.959	0.957		-0.2	
Carbazole	0.940	0.903		-3.9	
Di-n-butylphthalate	1.170	1.145		-2.1	
Fluoranthene	1.181	1.133		-4.1	20.0
Pyrene	1.339	1.344		0.4	
Terphenyl-d14	0.980	1.001		2.1	
Butylbenzylphthalate	0.560	0.554		-1.1	
3,3-Dichlorobenzidine	0.438	0.422		-3.7	
Benzo(a)anthracene	1.278	1.251		-2.1	
Chrysene	1.227	1.200		-2.2	
Bis(2-ethylhexyl)phthalate	0.814	0.808		-0.7	
Di-n-octyl phthalate	1.409	1.351		-4.1	20.0
Benzo(b)fluoranthene	1.147	1.151		0.3	
Benzo(k)fluoranthene	1.109	1.117		0.7	
Benzo(a)pyrene	0.997	0.998		0.1	20.0
Indeno(1,2,3-cd)pyrene	1.323	1.323		0.0	
Dibenzo(a,h)anthracene	1.101	1.112		1.0	
Benzo(g,h,i)perylene	1.128	1.131		0.3	
1,2,4,5-Tetrachlorobenzene	0.572	0.576		0.7	
1,4-Dioxane	0.487	0.470		-3.5	20.0
2,3,4,6-Tetrachlorophenol	0.351	0.345		-1.7	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140068.D
Acq On : 26 Oct 2024 19:09
Operator : RC/JU
Sample : P4460-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-TOP

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/29/2024

Quant Time: Oct 28 01:10:00 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 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	142022	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	554829	20.000	ng		0.00
39) Acenaphthene-d10	9.922	164	315069	20.000	ng		0.00
64) Phenanthrene-d10	11.410	188	502958	20.000	ng		0.00
76) Chrysene-d12	14.045	240	252281	20.000	ng		0.00
86) Perylene-d12	15.527	264	282696	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	761696	83.961	ng		0.00
7) Phenol-d6	6.504	99	974385	82.928	ng		0.00
23) Nitrobenzene-d5	7.445	82	596551	59.591	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	242295	82.216	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1050774	55.118	ng		0.00
79) Terphenyl-d14	12.992	244	837874	54.118	ng		0.00
Target Compounds							Qvalue
71) Phenanthrene	11.433	178	52803	2.223	ng		97
75) Fluoranthene	12.621	202	78278	3.259	ng		99
78) Pyrene	12.851	202	97847	4.431	ng		98
81) Benzo(a)anthracene	14.039	228	47020	2.863	ng	#	79
83) Chrysene	14.068	228	36661	2.435	ng	#	92
88) Benzo(b)fluoranthene	15.092	252	34923m	2.028	ng		
90) Benzo(a)pyrene	15.456	252	40332	2.846	ng		94

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

Sample Results: **BF140068.D**

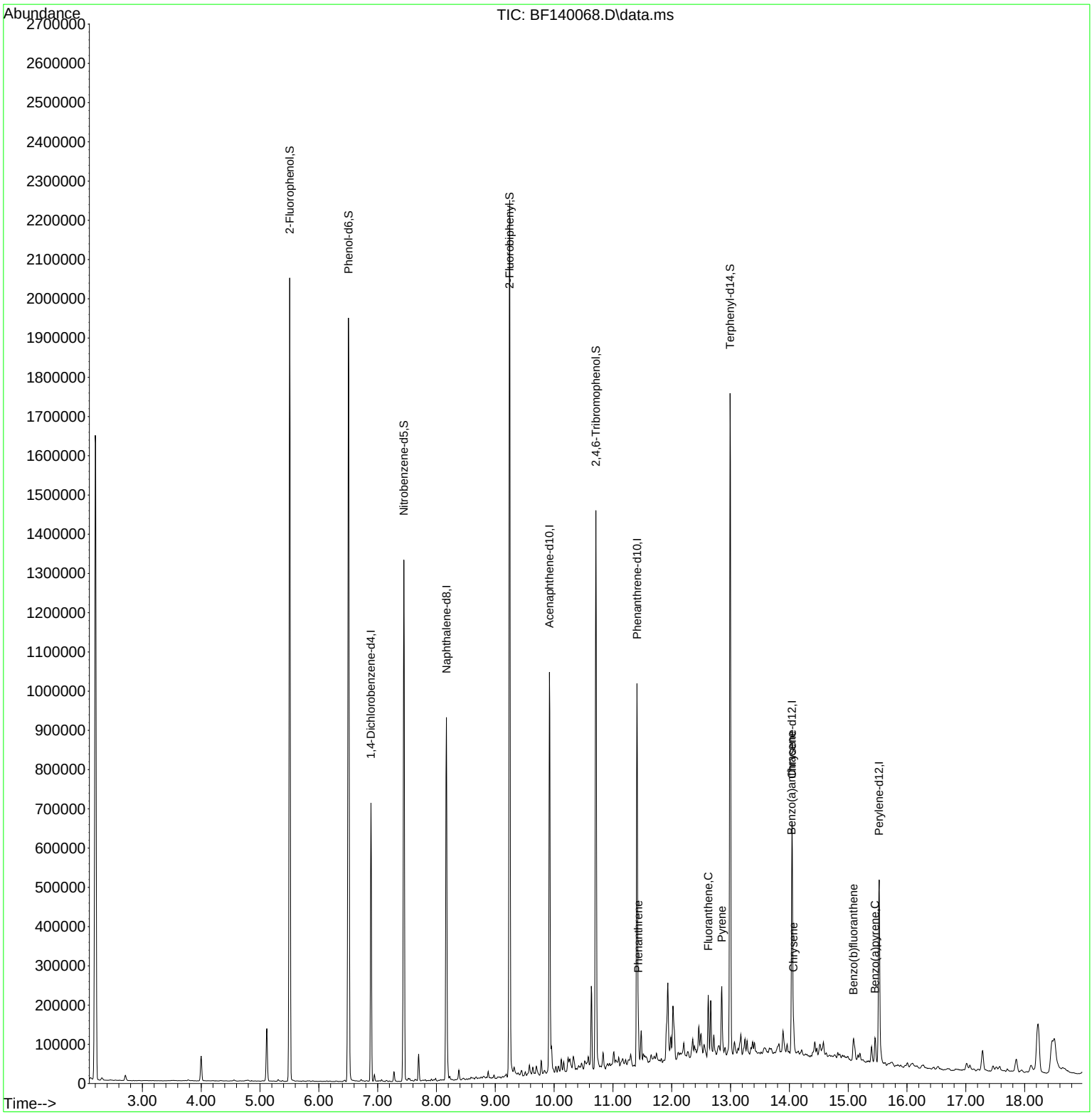
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140068.D
Acq On : 26 Oct 2024 19:09
Operator : RC/JU
Sample : P4460-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

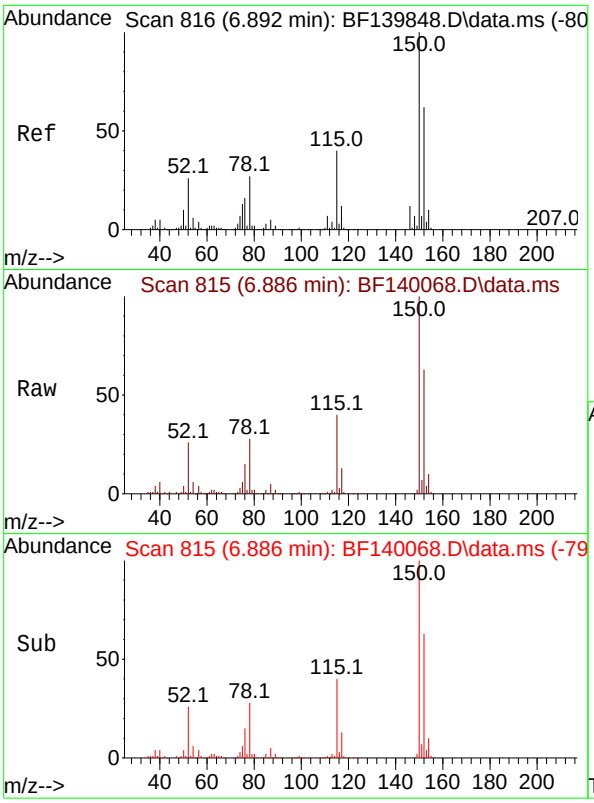
Quant Time: Oct 28 01:10:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-303-TOP

Manual Integrations APPROVED

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

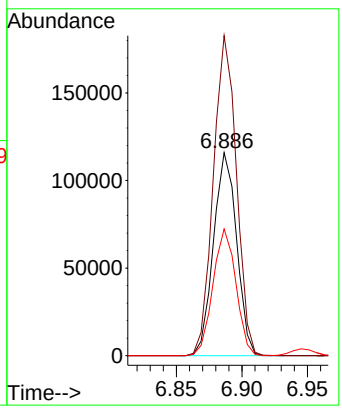




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140068.D
Acq: 26 Oct 2024 19:09

Tgt Ion:152 Resp: 14202

Ion	Ratio	Lower	Upper
152	100		
150	157.6	130.2	195.2
115	62.4	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
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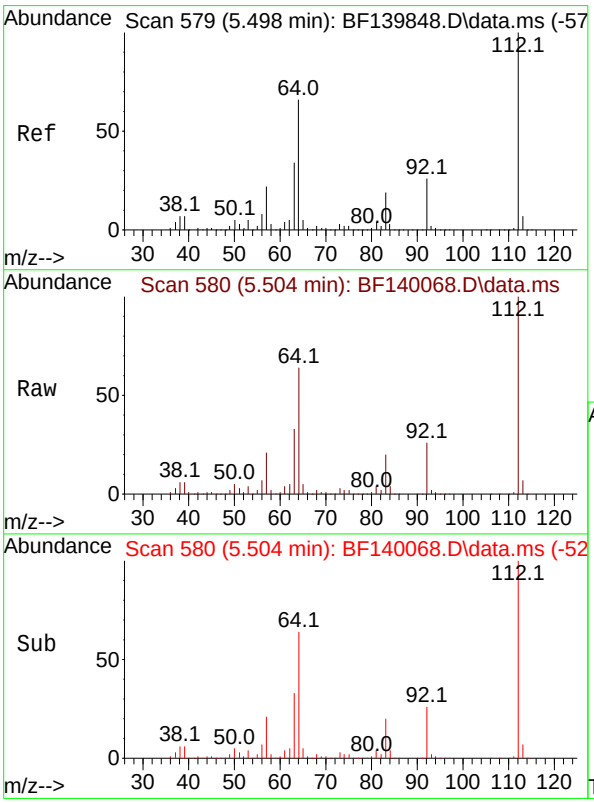
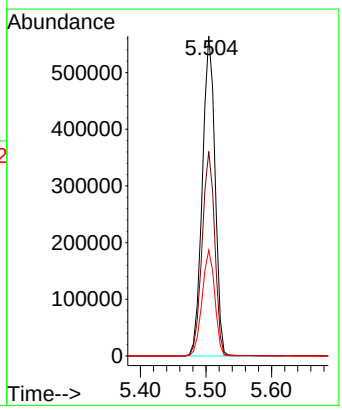
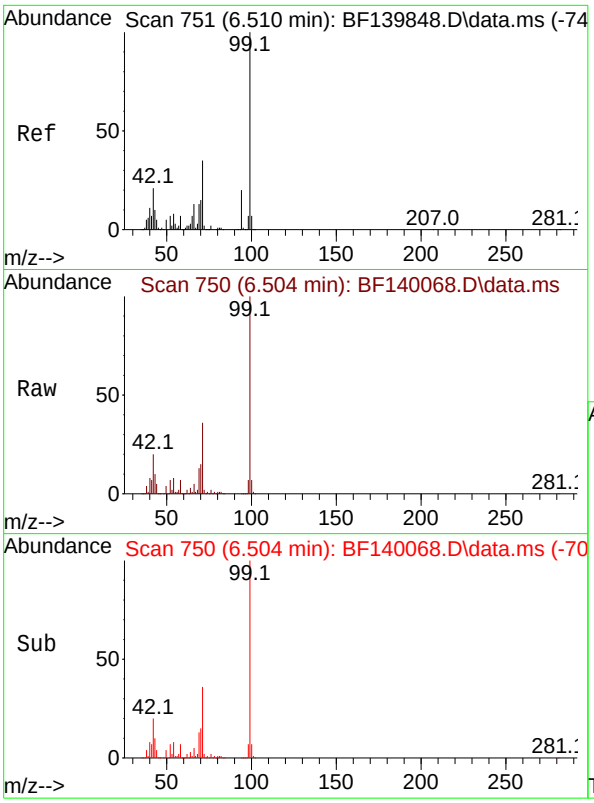


#5
2-Fluorophenol
Concen: 83.961 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF140068.D
Acq: 26 Oct 2024 19:09

Tgt Ion:112 Resp: 761696

Ion	Ratio	Lower	Upper
112	100		
64	63.9	53.0	79.6
63	33.1	27.0	40.4

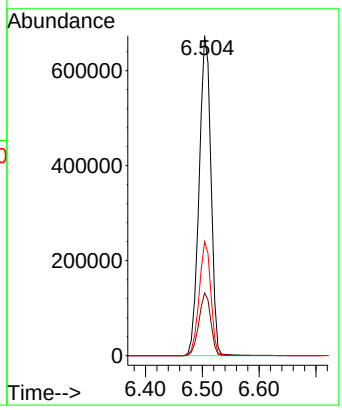




#7
Phenol-d6
Concen: 82.928 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140068.D
Acq: 26 Oct 2024 19:09

Tgt Ion: 99 Resp: 97438

Ion	Ratio	Lower	Upper
99	100		
42	19.6	16.7	25.1
71	35.6	27.7	41.5



Instrument :
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ClientSampleId :
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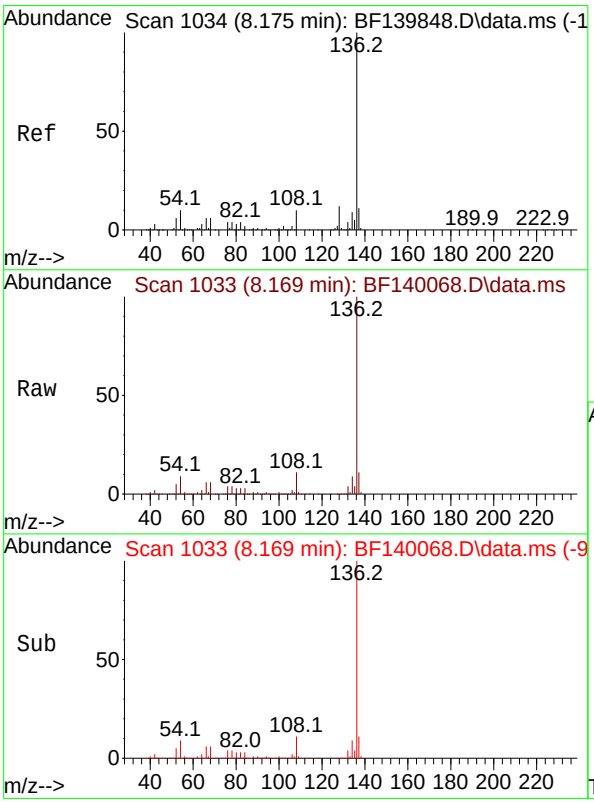
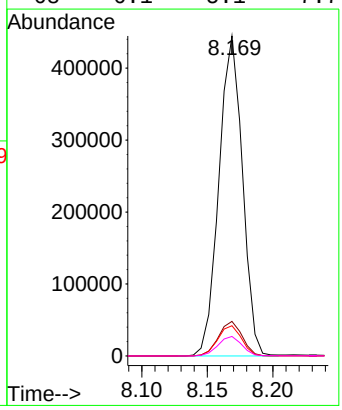
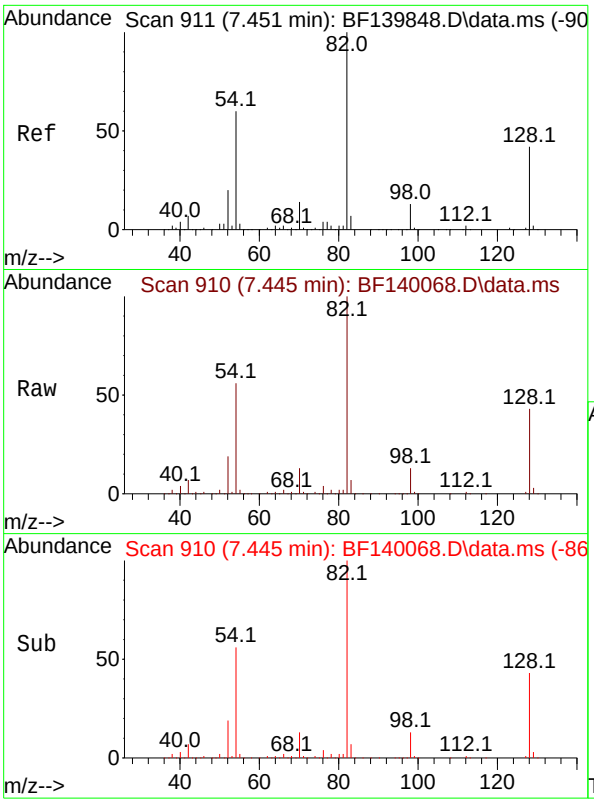


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140068.D
Acq: 26 Oct 2024 19:09

Tgt Ion:136 Resp: 554829

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	12.8
54	9.5	8.4	12.6
68	6.1	5.1	7.7

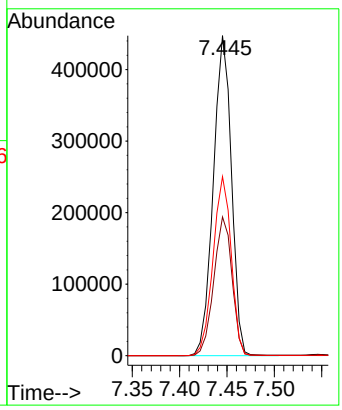




#23
Nitrobenzene-d5
Concen: 59.591 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140068.D
Acq: 26 Oct 2024 19:09

Tgt Ion: 82 Resp: 59655

Ion	Ratio	Lower	Upper
82	100		
128	43.4	33.4	50.0
54	56.0	47.8	71.8



Instrument :
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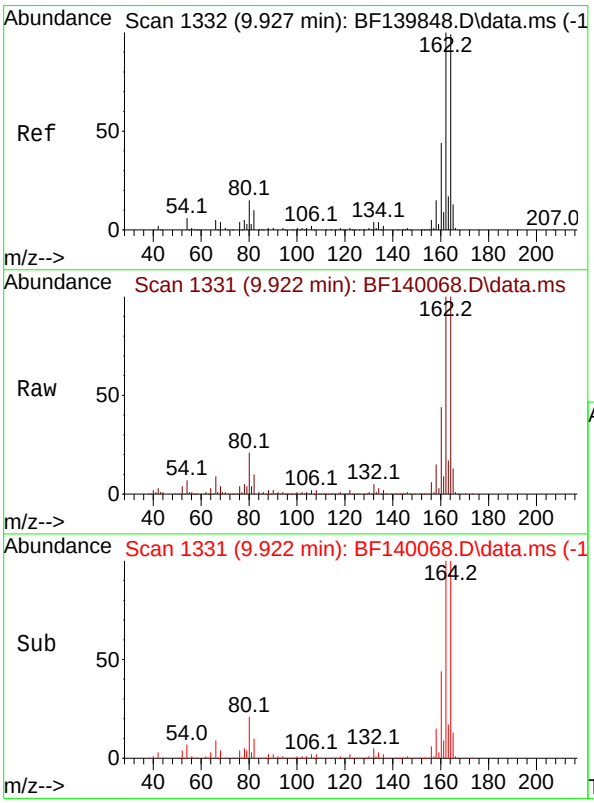
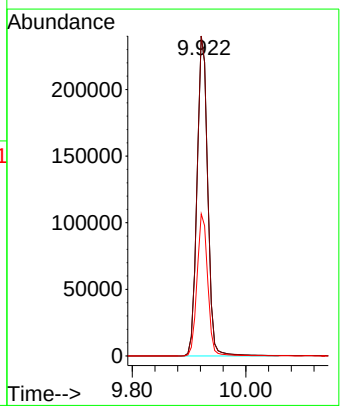
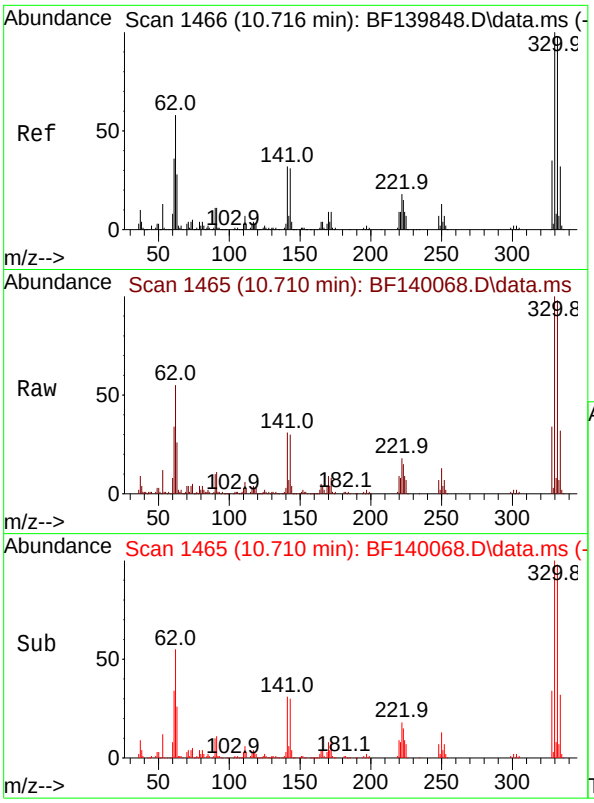


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140068.D
Acq: 26 Oct 2024 19:09

Tgt Ion:164 Resp: 315069

Ion	Ratio	Lower	Upper
164	100		
162	100.1	81.0	121.4
160	44.4	35.4	53.0

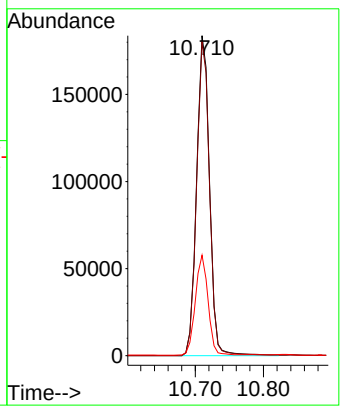




#42
2,4,6-Tribromophenol
Concen: 82.216 ng
RT: 10.710 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140068.D
Acq: 26 Oct 2024 19:09

Tgt Ion:330 Resp: 24229

Ion	Ratio	Lower	Upper
330	100		
332	97.8	78.1	117.1
141	30.7	26.6	39.8



Instrument :
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ClientSampleId :
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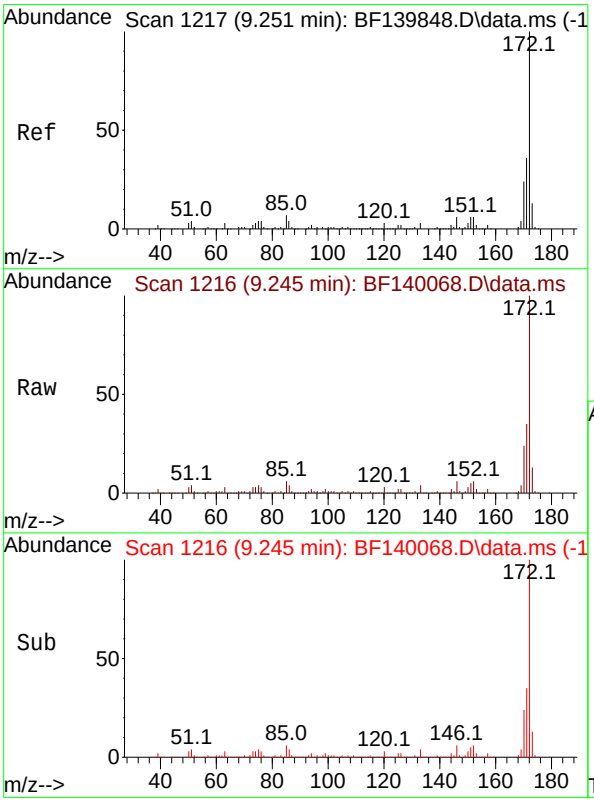
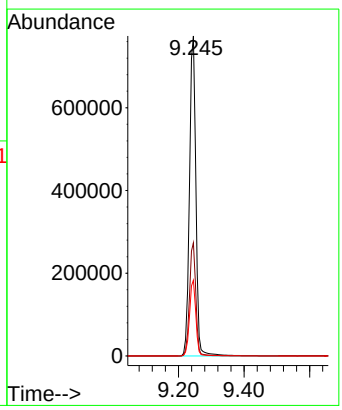
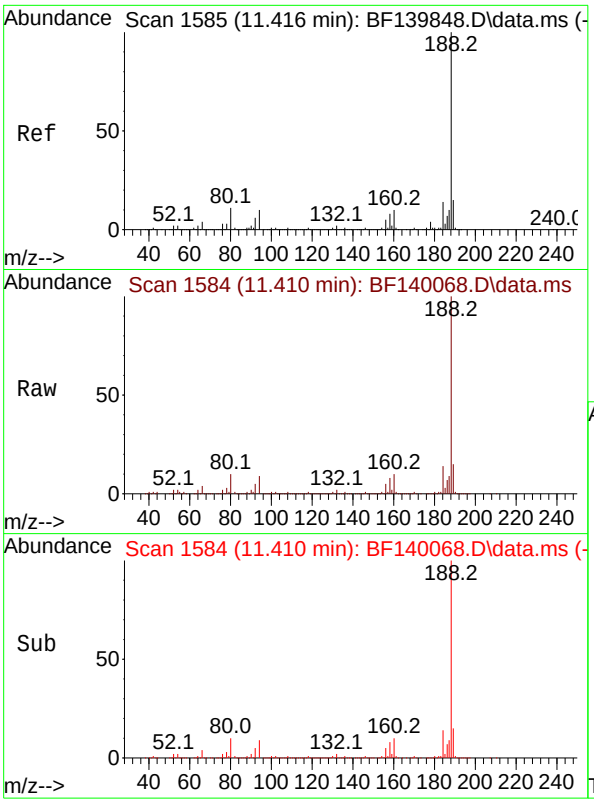


#45
2-Fluorobiphenyl
Concen: 55.118 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF140068.D
Acq: 26 Oct 2024 19:09

Tgt Ion:172 Resp: 1050774

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	43.0
170	23.6	19.1	28.7

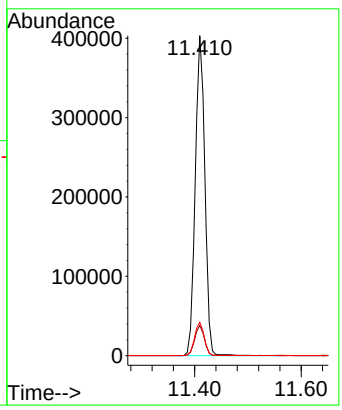




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140068.D
Acq: 26 Oct 2024 19:09

Tgt Ion:188 Resp: 50295

Ion	Ratio	Lower	Upper
188	100		
94	9.4	7.9	11.9
80	10.4	9.0	13.4



Instrument :
BNA_F
ClientSampleId :
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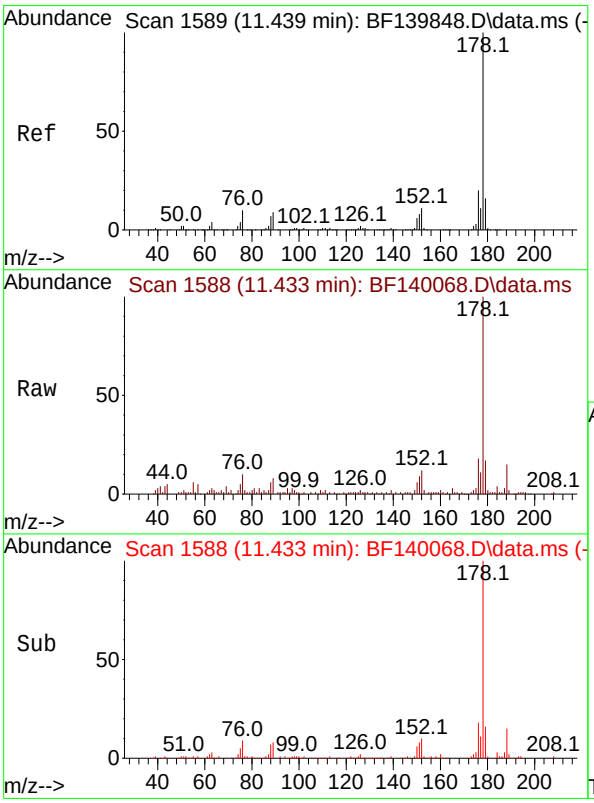
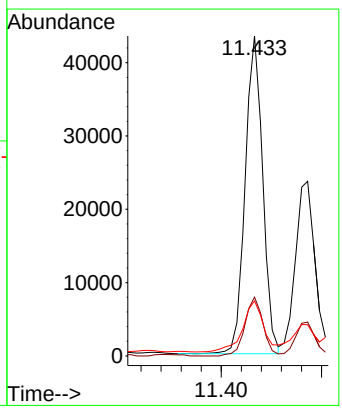
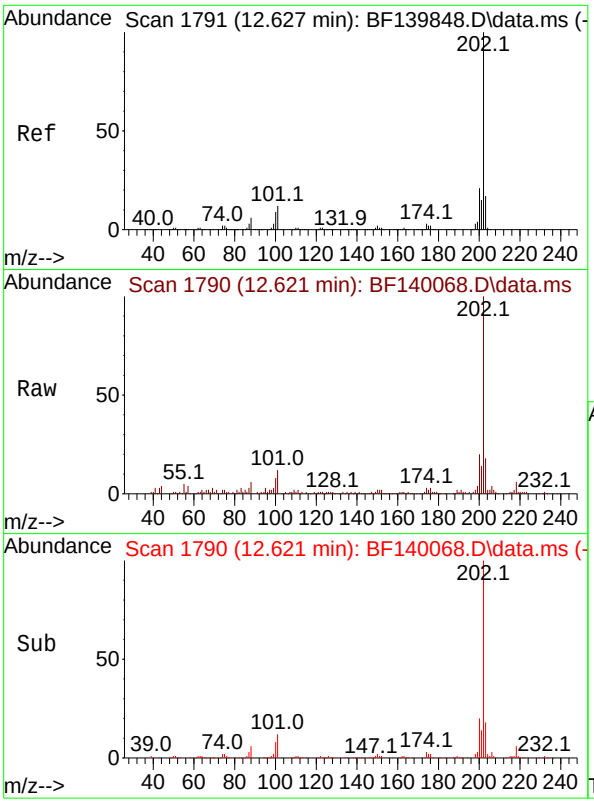


#71
Phenanthrene
Concen: 2.223 ng
RT: 11.433 min Scan# 1588
Delta R.T. -0.006 min
Lab File: BF140068.D
Acq: 26 Oct 2024 19:09

Tgt Ion:178 Resp: 52803

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.8	23.6
179	17.2	12.6	18.8





#75
Fluoranthene
Concen: 3.259 ng
RT: 12.621 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140068.D
Acq: 26 Oct 2024 19:09

Tgt Ion:202 Resp: 7827

Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	31.9
203	18.2	0.0	37.5

Instrument :
BNA_F
ClientSampleId :
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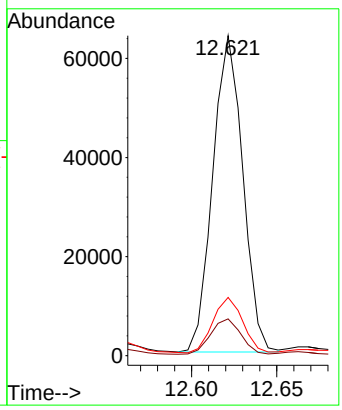
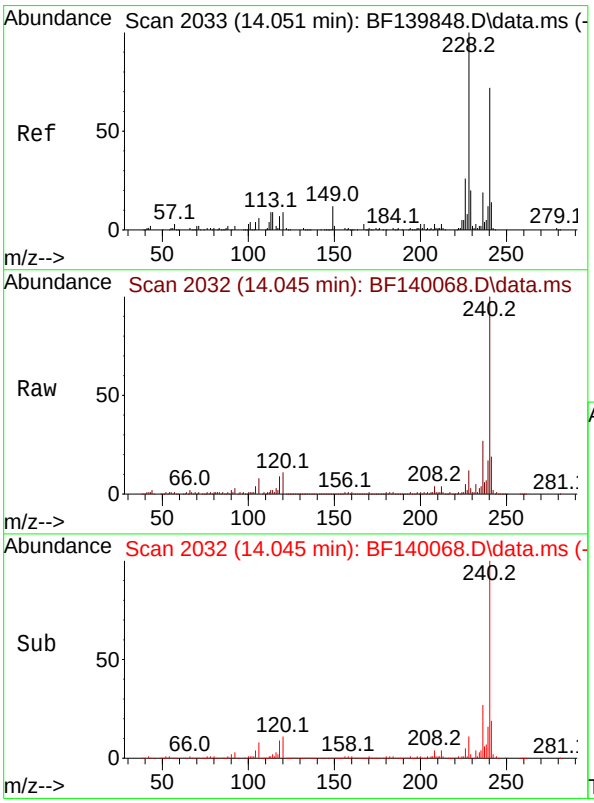
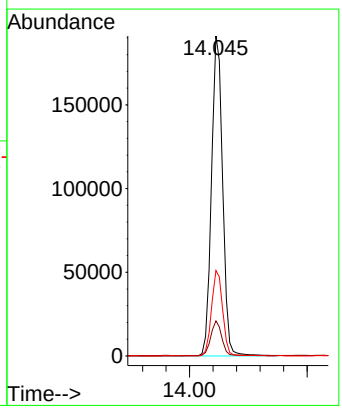


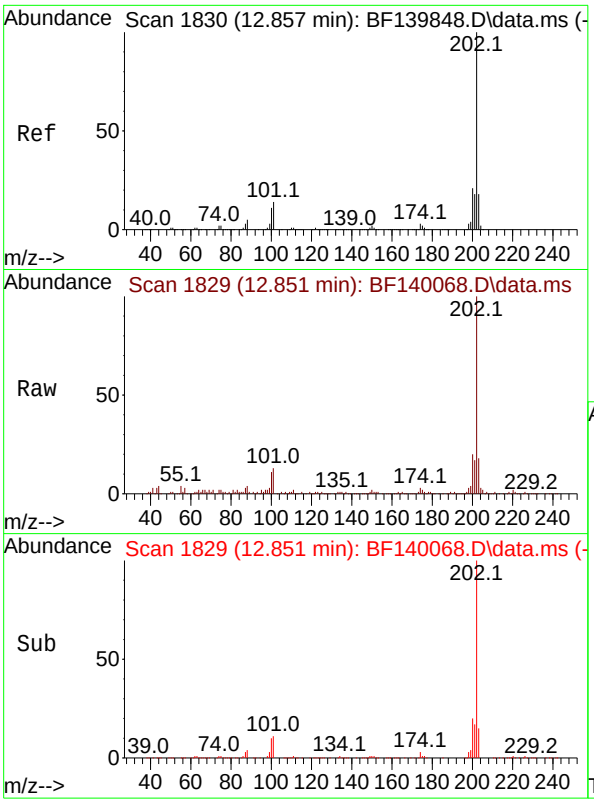


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140068.D
Acq: 26 Oct 2024 19:09

Tgt Ion:240 Resp: 252281

Ion	Ratio	Lower	Upper
240	100		
120	11.0	9.4	14.2
236	26.7	20.9	31.3

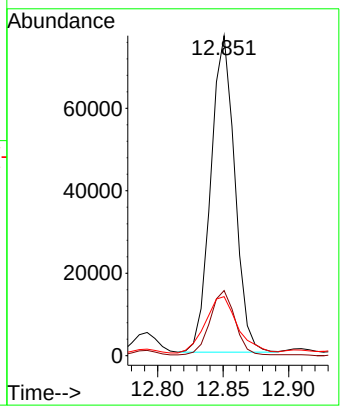




#78
Pyrene
Concen: 4.431 ng
RT: 12.851 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140068.D
Acq: 26 Oct 2024 19:09

Tgt Ion:202 Resp: 9784

Ion	Ratio	Lower	Upper
202	100		
200	20.4	17.2	25.8
203	18.4	14.2	21.4



Instrument :
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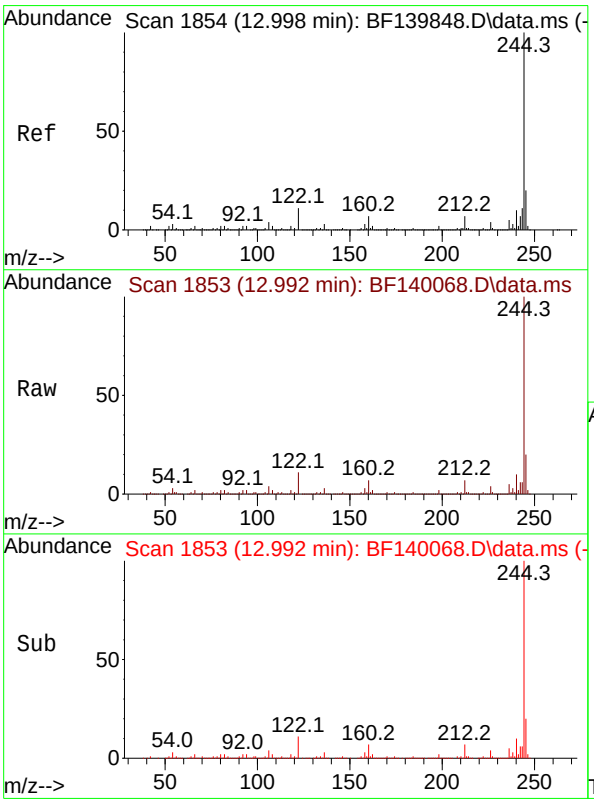
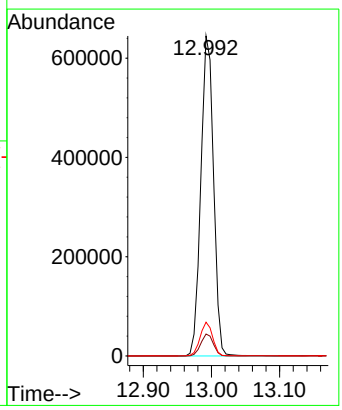
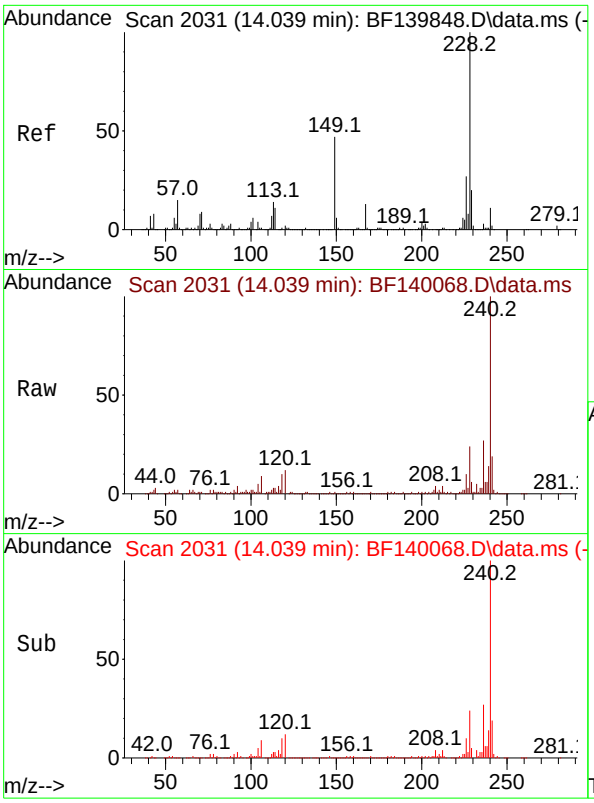


#79
Terphenyl-d14
Concen: 54.118 ng
RT: 12.992 min Scan# 1853
Delta R.T. -0.006 min
Lab File: BF140068.D
Acq: 26 Oct 2024 19:09

Tgt Ion:244 Resp: 837874

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.7	8.5
122	10.5	8.6	13.0

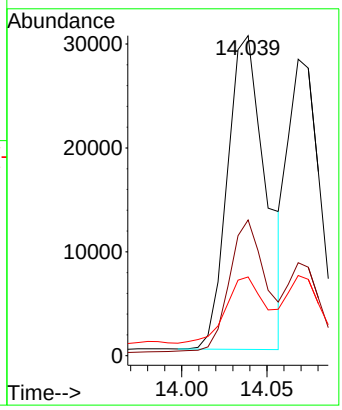




#81
Benzo(a)anthracene
Concen: 2.863 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF140068.D
Acq: 26 Oct 2024 19:09

Tgt Ion:228 Resp: 4702

Ion	Ratio	Lower	Upper
228	100		
226	42.4	21.6	32.4#
229	24.6	16.1	24.1#



Instrument :
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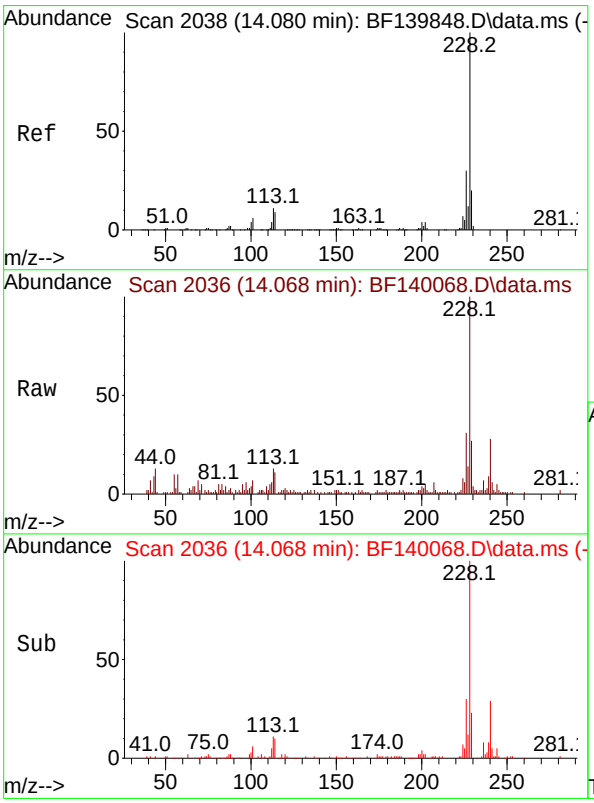
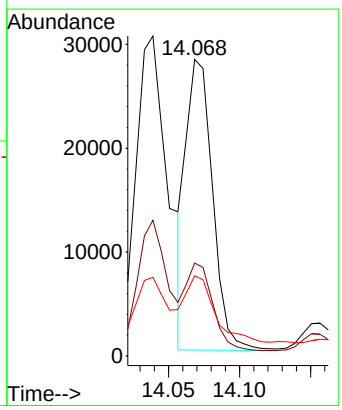
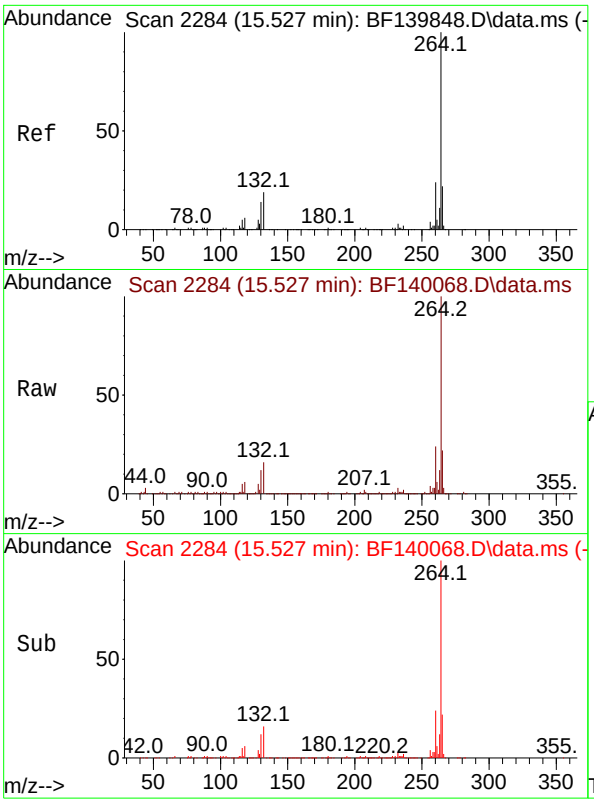


#83
Chrysene
Concen: 2.435 ng
RT: 14.068 min Scan# 2036
Delta R.T. -0.012 min
Lab File: BF140068.D
Acq: 26 Oct 2024 19:09

Tgt Ion:228 Resp: 36661

Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.1	36.1
229	27.0	15.8	23.6#

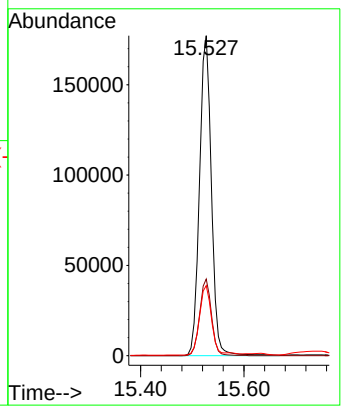




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140068.D
Acq: 26 Oct 2024 19:09

Tgt Ion:264 Resp: 28269

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.4	29.2
265	21.9	17.4	26.0



Instrument :
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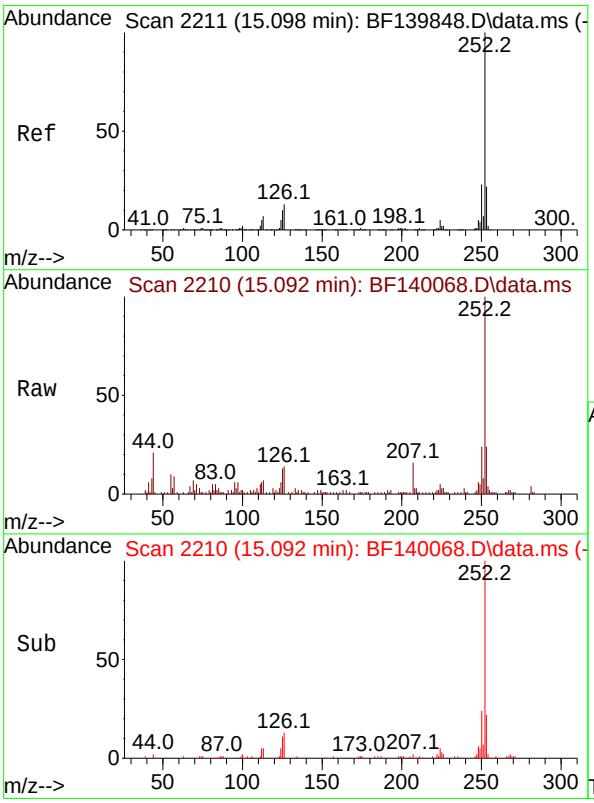
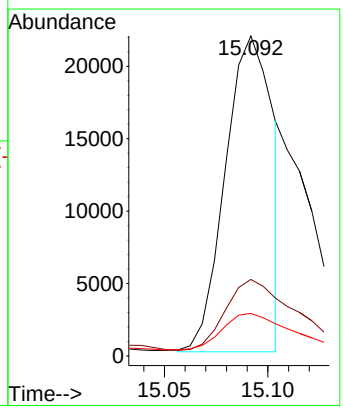
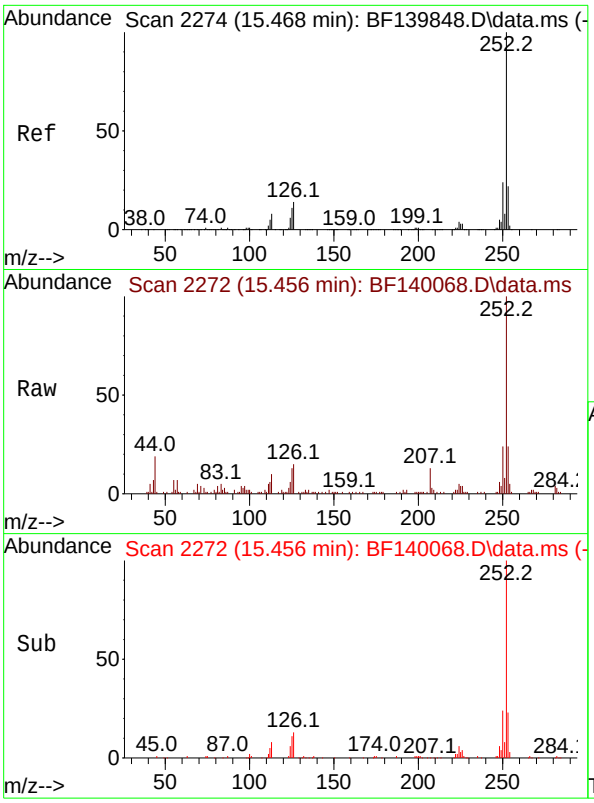


#88
Benzo(b)fluoranthene
Concen: 2.028 ng m
RT: 15.092 min Scan# 2210
Delta R.T. -0.006 min
Lab File: BF140068.D
Acq: 26 Oct 2024 19:09

Tgt Ion:252 Resp: 34923

Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.6	26.4
125	13.3	7.9	11.9#

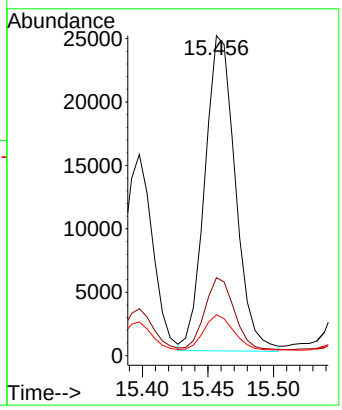




#90
Benzo(a)pyrene
Concen: 2.846 ng
RT: 15.456 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF140068.D
Acq: 26 Oct 2024 19:09

Tgt Ion:252 Resp: 4033

Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.3	25.9
125	12.7	8.7	13.1



Instrument :
BNA_F
ClientSampleId :
WB-303-TOP

Manual Integrations
APPROVED

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

Sample Results: **BF140068.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140068.D
Acq On : 26 Oct 2024 19:09
Operator : RC/JU
Sample : P4460-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-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: BF140068.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	11	18	26	rVB	1641864	2687905	89.07%	9.485%
2	3.998	317	324	331	rBV	63435	98658	3.27%	0.348%
3	5.116	505	514	521	rVB	133707	201982	6.69%	0.713%
4	5.504	573	580	585	rBV	2047239	2749407	91.10%	9.702%
5	6.504	743	750	763	rBV	1946388	2849995	94.44%	10.057%
6	6.886	810	815	820	rVB	708953	864159	28.63%	3.050%
7	7.275	876	881	887	rBV	25157	36236	1.20%	0.128%
8	7.445	902	910	915	rBV	1328779	1775839	58.84%	6.267%
9	7.698	949	953	959	rVB	67990	82701	2.74%	0.292%
10	8.169	1027	1033	1040	rBV	924185	1211624	40.15%	4.276%
11	8.380	1063	1069	1075	rVB2	24745	34967	1.16%	0.123%
12	9.245	1209	1216	1226	rBV	2234736	3017894	100.00%	10.650%
13	9.322	1226	1229	1237	rVB4	18812	34858	1.16%	0.123%
14	9.580	1265	1273	1279	rBV2	26199	49879	1.65%	0.176%
15	9.698	1290	1293	1302	rVB	22561	41847	1.39%	0.148%
16	9.780	1303	1307	1312	rBV	37162	53721	1.78%	0.190%
17	9.922	1325	1331	1335	rBV	1018088	1319688	43.73%	4.657%
18	9.957	1335	1337	1345	rVB	65713	83081	2.75%	0.293%
19	10.122	1361	1365	1369	rBV2	30246	40280	1.33%	0.142%
20	10.163	1369	1372	1377	rVB	24922	31095	1.03%	0.110%
21	10.239	1380	1385	1387	rBV2	34979	52420	1.74%	0.185%
22	10.327	1396	1400	1406	rVB3	32942	62378	2.07%	0.220%
23	10.522	1429	1433	1437	rBV3	20444	38199	1.27%	0.135%
24	10.580	1440	1443	1446	rVV2	29406	41511	1.38%	0.146%
25	10.633	1448	1452	1459	rVB	211518	274371	9.09%	0.968%
26	10.710	1459	1465	1476	rBV	1423896	1882862	62.39%	6.644%
27	10.833	1482	1486	1493	rVB3	41108	66408	2.20%	0.234%
28	11.016	1513	1517	1520	rBV2	28807	40281	1.33%	0.142%
29	11.169	1535	1543	1547	rBV6	17786	44693	1.48%	0.158%
30	11.304	1563	1566	1572	rVB3	29949	45745	1.52%	0.161%
31	11.410	1579	1584	1592	rBV	975380	1357323	44.98%	4.790%
32	11.480	1592	1596	1600	rVB2	74555	100446	3.33%	0.354%
33	11.933	1665	1673	1678	rBV2	196125	395396	13.10%	1.395%
34	11.986	1679	1682	1684	rVV2	57268	78465	2.60%	0.277%
35	12.021	1684	1688	1697	rVB	136566	286626	9.50%	1.011%
36	12.357	1739	1745	1748	rBV2	44931	77532	2.57%	0.274%

Sample Results: **BF140068.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140068.D
Acq On : 26 Oct 2024 19:09
Operator : RC/JU
Sample : P4460-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-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	12.463	1759	1763	1766	rBV	59972	80273	2.66%	0.283%
38	12.498	1766	1769	1774	rVB2	48594	75083	2.49%	0.265%
39	12.551	1775	1778	1786	rVB4	31090	64965	2.15%	0.229%
40	12.621	1786	1790	1794	rBV	156975	205253	6.80%	0.724%
41	12.663	1794	1797	1802	rVV	134957	164897	5.46%	0.582%
42	12.715	1803	1806	1813	rVB	50459	71398	2.37%	0.252%
43	12.851	1824	1829	1835	rVB	167839	240302	7.96%	0.848%
44	12.992	1848	1853	1861	rVB	1684517	2188429	72.52%	7.723%
45	13.068	1862	1866	1872	rBV2	30171	51842	1.72%	0.183%
46	13.245	1893	1896	1899	rVB	29233	31294	1.04%	0.110%
47	13.280	1899	1902	1910	rVB2	34345	49215	1.63%	0.174%
48	13.892	2002	2006	2014	rVB	53178	98021	3.25%	0.346%
49	14.045	2026	2032	2044	rBV2	586496	926845	30.71%	3.271%
50	15.092	2205	2210	2219	rBV	53684	123912	4.11%	0.437%
51	15.398	2258	2262	2267	rVV	37932	56790	1.88%	0.200%
52	15.456	2268	2272	2278	rVV	61783	94475	3.13%	0.333%
53	15.527	2278	2284	2296	rVB	467621	782883	25.94%	2.763%
54	17.009	2532	2536	2543	rBV2	14439	32326	1.07%	0.114%
55	17.286	2576	2583	2591	rVB3	49087	110459	3.66%	0.390%
56	17.856	2674	2680	2689	rVB2	32305	82251	2.73%	0.290%
57	18.109	2718	2723	2730	rBV7	12244	34133	1.13%	0.120%
58	18.227	2733	2743	2767	rVB4	125424	460872	15.27%	1.626%
59	18.468	2774	2784	2786	rBV7	78481	201119	6.66%	0.710%

Sum of corrected areas: 28337509

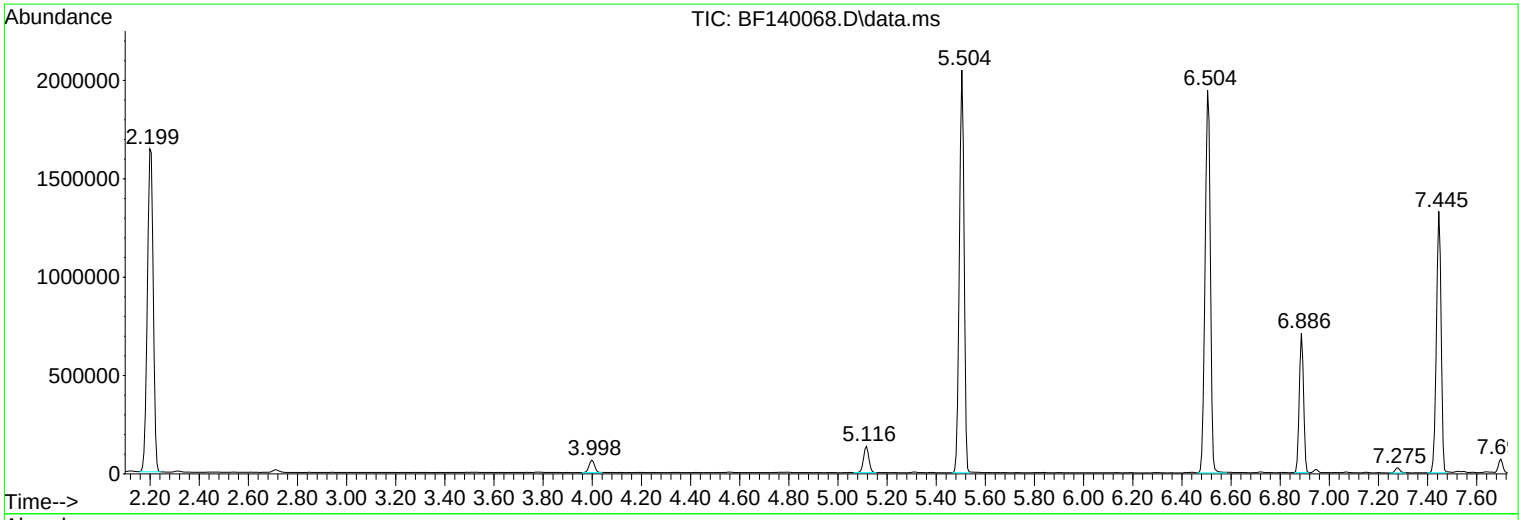
Sample Results: **BF140068.D**

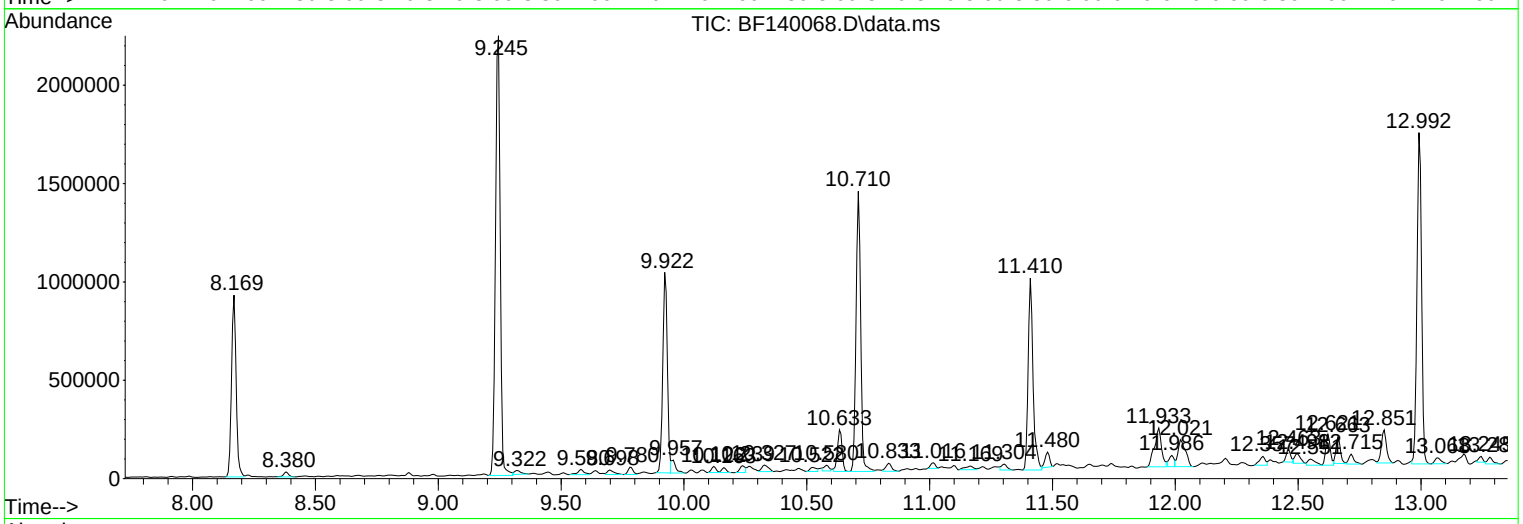
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140068.D
Acq On : 26 Oct 2024 19:09
Operator : RC/JU
Sample : P4460-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

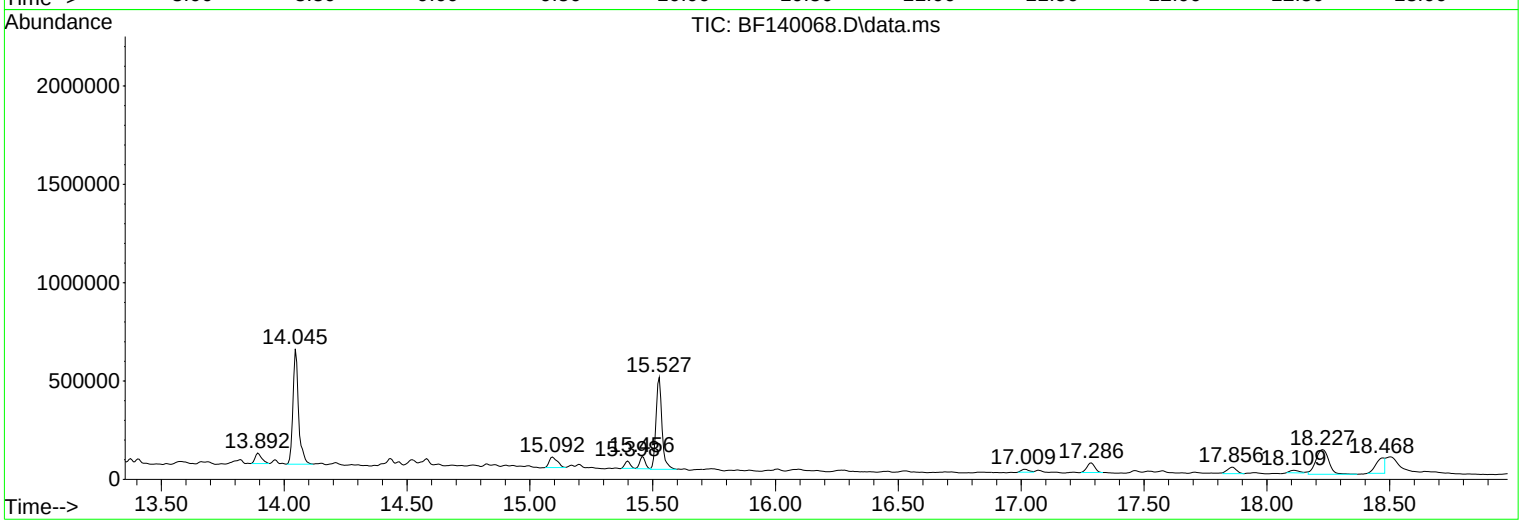
Instrument :
BNA_F
ClientSampleId :
WB-303-TOP

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\BF102624\
Data File : BF140068.D
Acq On : 26 Oct 2024 19:09
Operator : RC/JU
Sample : P4460-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-TOP

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

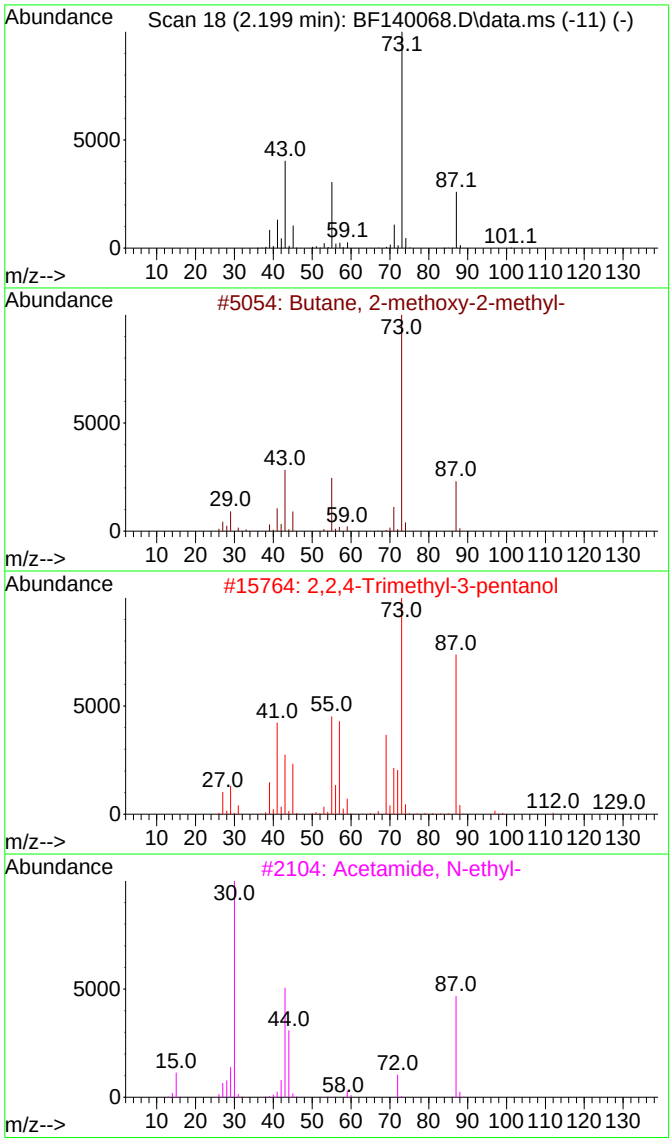
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

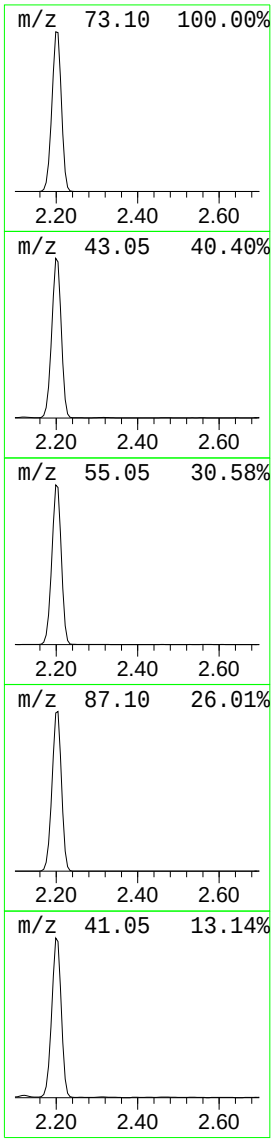
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.199	62.21 ng	2687910	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	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\BF102624\
Data File : BF140068.D
Acq On : 26 Oct 2024 19:09
Operator : RC/JU
Sample : P4460-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-TOP

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

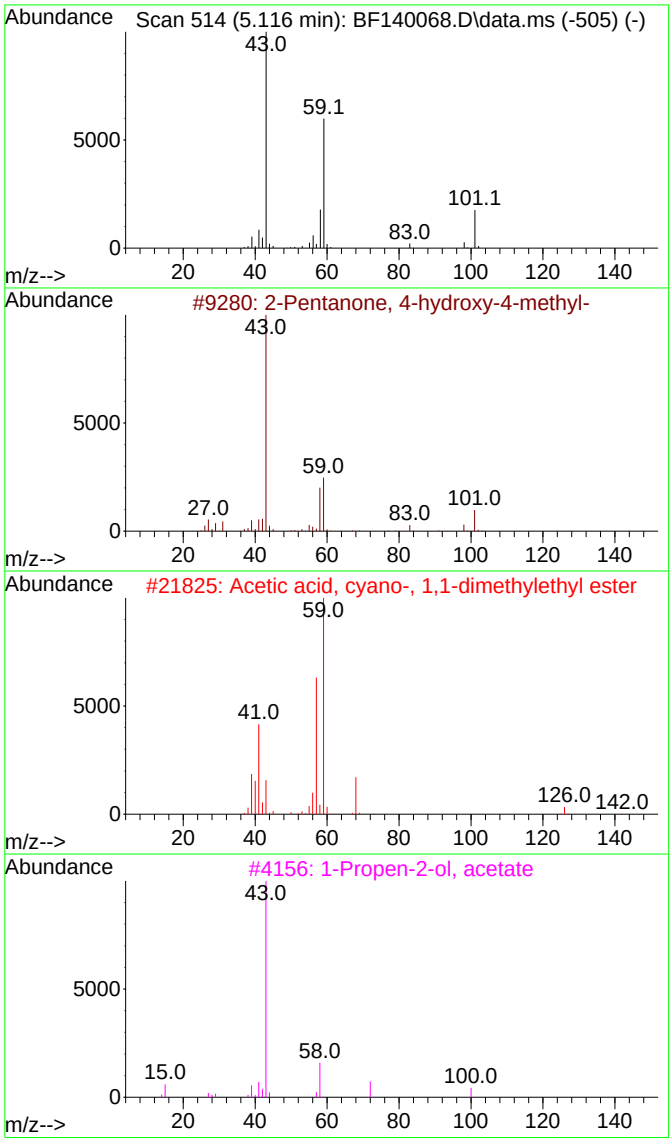
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

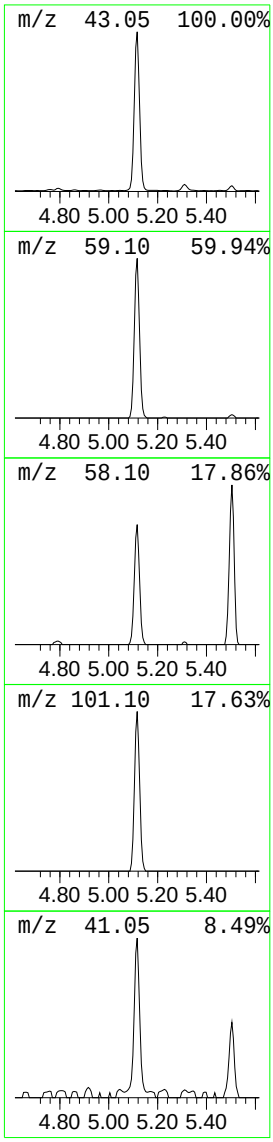
****

Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	4.67 ng	201982	1,4-Dichlorobenzene-d4	6.886

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140068.D
Acq On : 26 Oct 2024 19:09
Operator : RC/JU
Sample : P4460-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-TOP

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

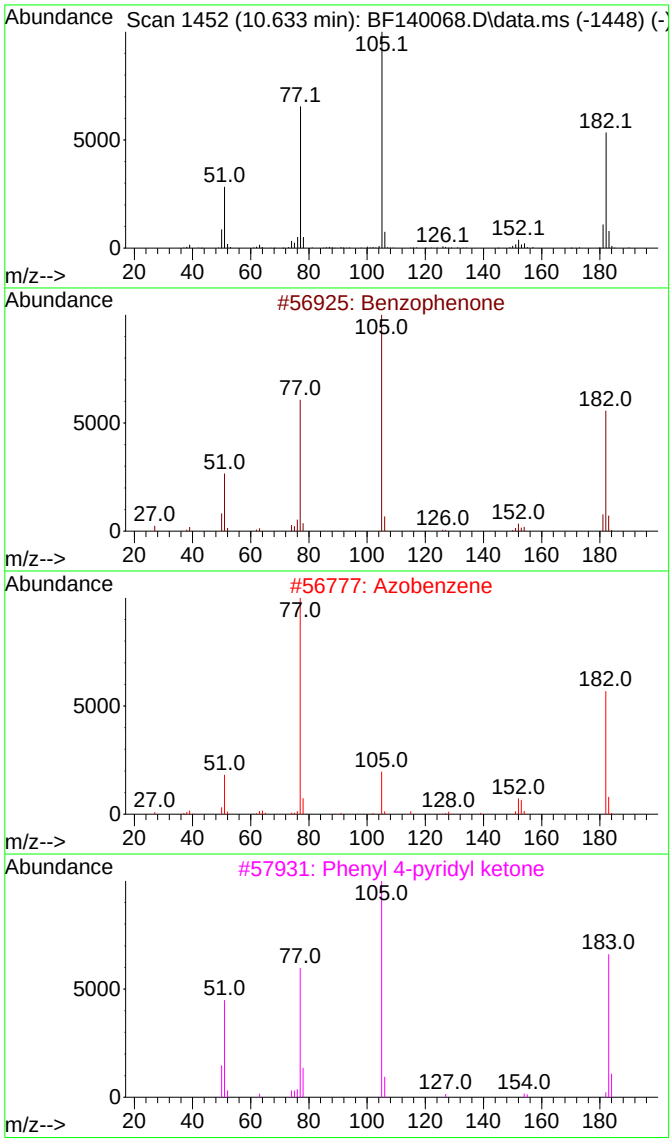
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

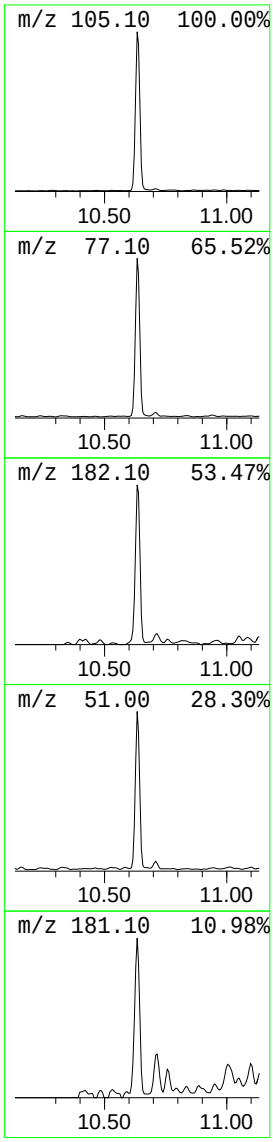
****

Peak Number 4 Benzophenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.633	4.16 ng	274371	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Azobenzene	182	C12H10N2	000103-33-3	59
3	Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	49
4	Benzoylformic acid	150	C8H6O3	000611-73-4	49
5	2-(2-Oxo-2-phenyl-ethyl)-malonon...	184	C11H8N2O	1000296-76-9	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140068.D
Acq On : 26 Oct 2024 19:09
Operator : RC/JU
Sample : P4460-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-TOP

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

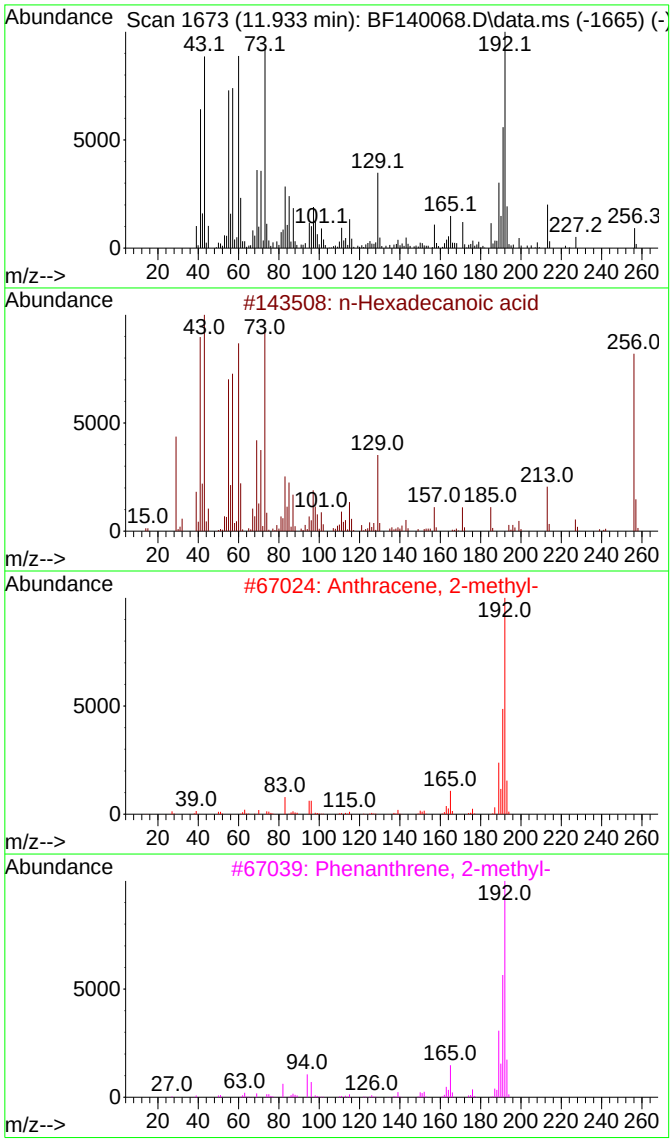
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

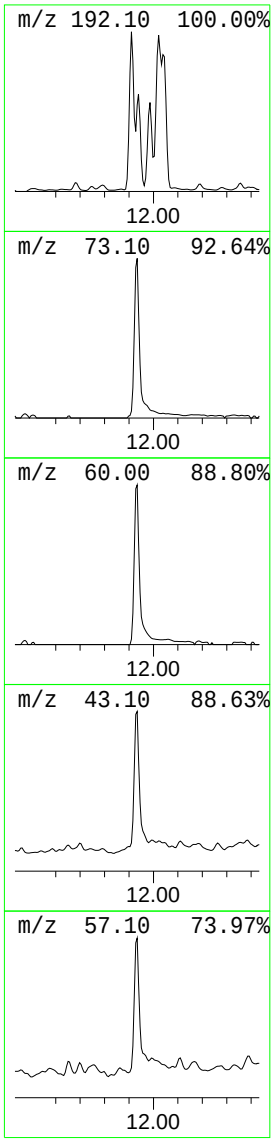
****

Peak Number 5 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.933	5.83 ng	395396	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	86
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	86





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140068.D
Acq On : 26 Oct 2024 19:09
Operator : RC/JU
Sample : P4460-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-TOP

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

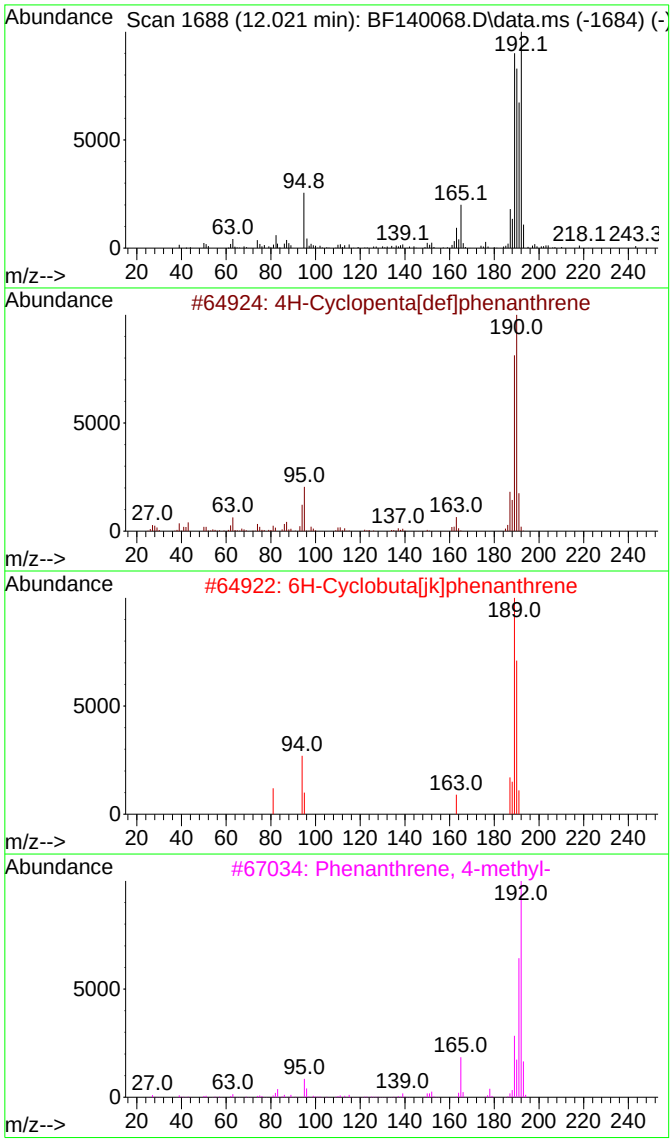
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

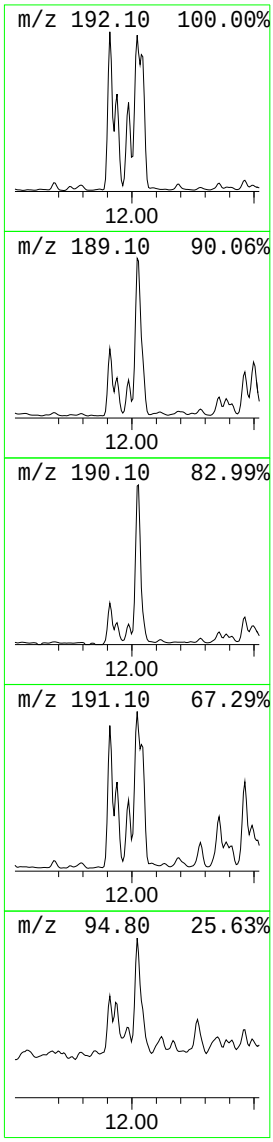
****

Peak Number 6 unknown12.021 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.021	4.22 ng	286626	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	46
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	46
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	42
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	41
5	Naphtho[1,2-b]norbornadiene	192	C15H12	1000210-14-8	41





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140068.D
Acq On : 26 Oct 2024 19:09
Operator : RC/JU
Sample : P4460-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-TOP

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

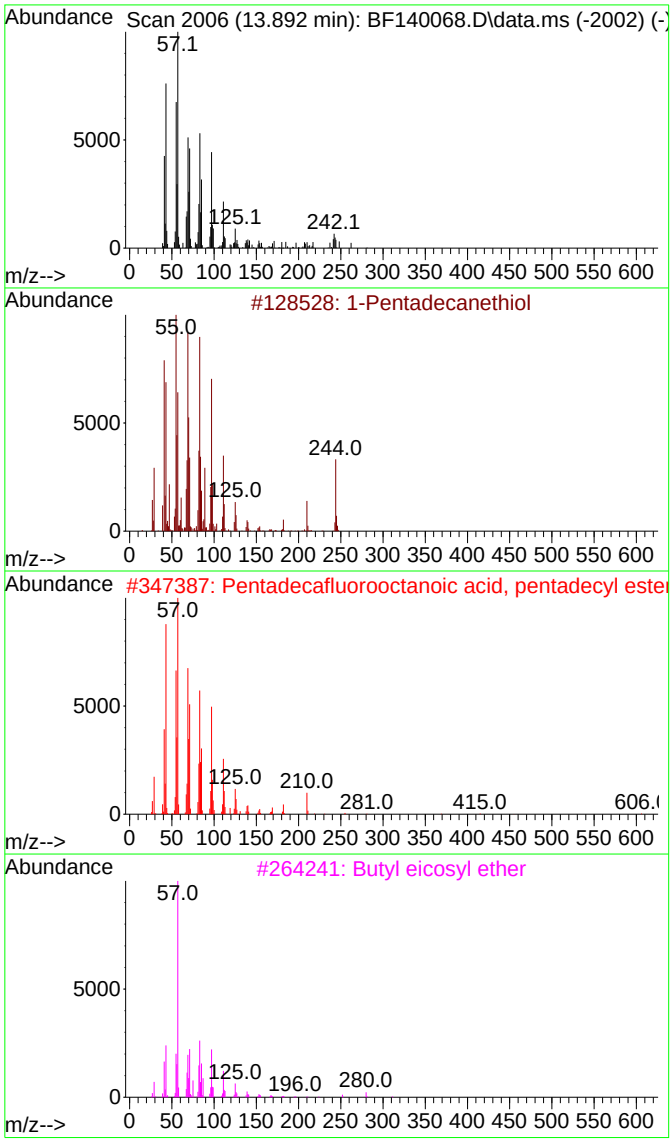
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

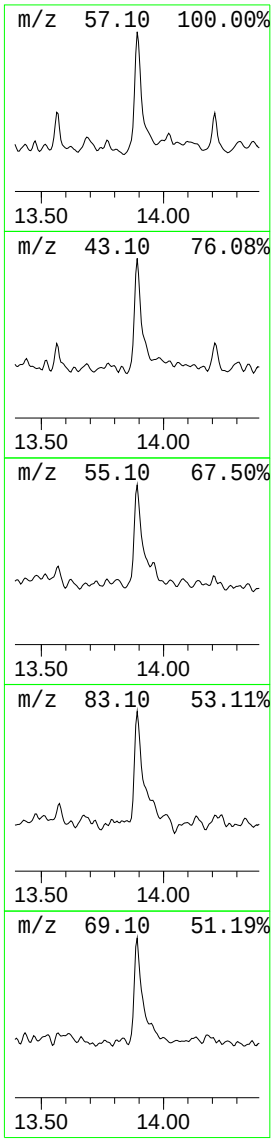
****

Peak Number 7 1-Pentadecanethiol Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.892	2.12 ng	98021	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Pentadecanethiol	244	C15H32S	025276-70-4	93
2	Pentadecafluorooctanoic acid, pe...	624	C23H31F15O2	1000406-04-5	91
3	Butyl eicosyl ether	354	C24H50O	1000406-40-7	91
4	Isobutyl tetradecyl carbonate	314	C19H38O3	959275-58-2	91
5	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	91





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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140068.D
Acq On    : 26 Oct 2024  19:09
Operator  : RC/JU
Sample    : P4460-02
Misc      :
ALS Vial  : 20   Sample Multiplier: 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
```

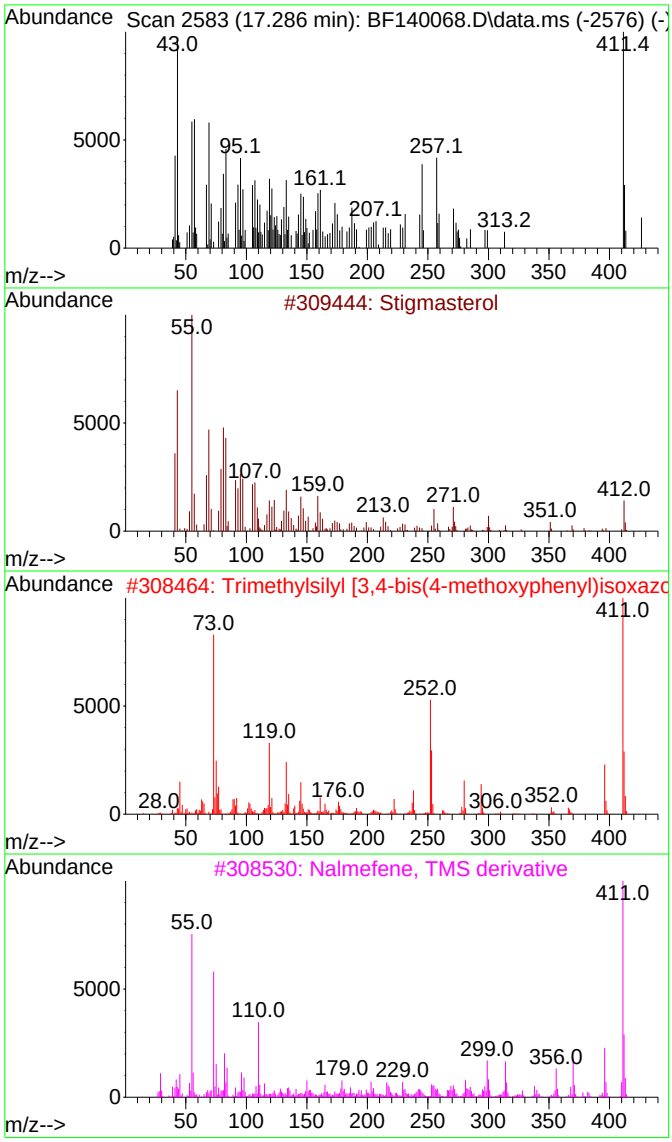
Instrument :
BNA_F
ClientSampleId :
WB-303-TOP

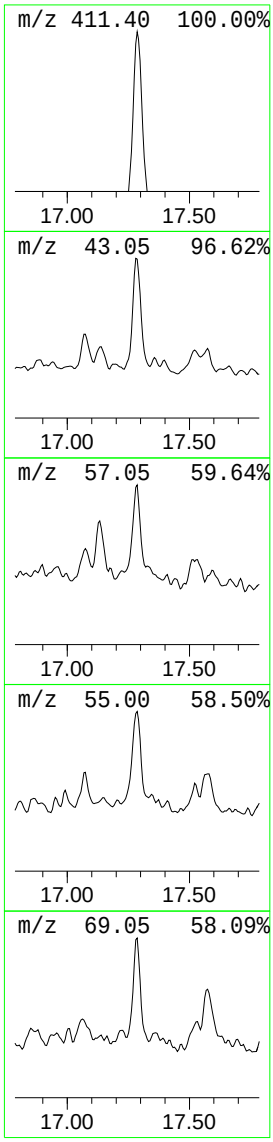
****

Peak Number 8 unknown17.286 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.286	2.82 ng	110459	Perylene-d12	15.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmasterol	412	C29H48O	000083-48-7	46
2	Trimethylsilyl [3,4-bis(4-methox...	411	C22H25NO5Si	1000476-35-5	25
3	Nalmefene, TMS derivative	411	C24H33NO3Si	1000333-47-8	22
4	Silane, methylvinyl(hept-4-yloxy...	454	C28H58O2Si	1000416-98-6	22
5	Silane, methylvinyl(2,4-dimethyl...	454	C28H58O2Si	1010416-92-1	22





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Data File : BF140068.D
Acq On    : 26 Oct 2024  19:09
Operator  : RC/JU
Sample    : P4460-02
Misc      :
ALS Vial  : 20   Sample Multiplier: 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
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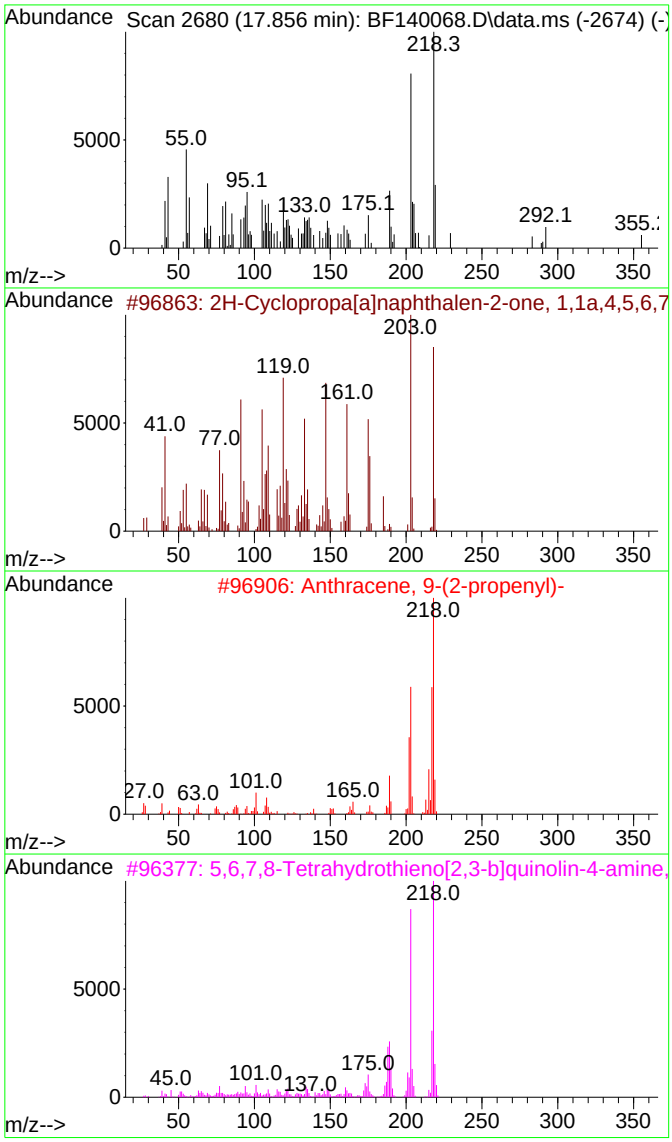
Instrument :
BNA_F
ClientSampleId :
WB-303-TOP

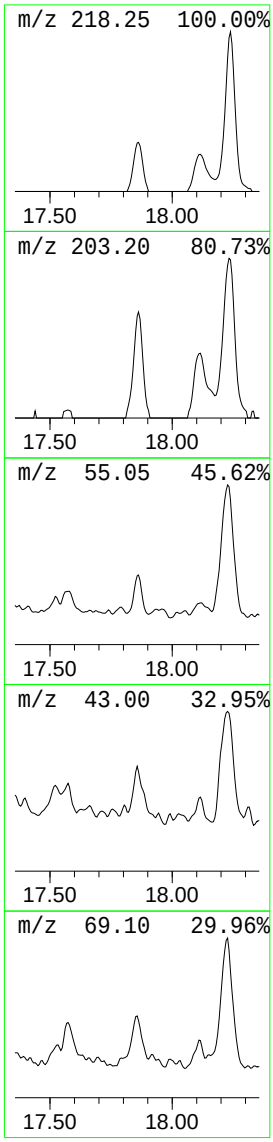
****

Peak Number 9 2H-Cyclopropa[a]naphthalen-... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.856	2.10 ng	82251	Perylene-d12	15.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2H-Cyclopropa[a]naphthalen-2-one...	218	C15H22O	006831-17-0	76
2	Anthracene, 9-(2-propenyl)-	218	C17H14	023707-65-5	52
3	5,6,7,8-Tetrahydrothieno[2,3-b]q...	218	C12H14N2S	134315-44-9	52
4	2-Chloro-5,6-dimethyl-1-(2-propy...	218	C12H11ClN2	080276-20-6	52
5	1,3-Dimethyl-4,6-bis(1-methyl-1-...	274	C16H26Si2	1000293-75-9	50





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Data File : BF140068.D
Acq On : 26 Oct 2024 19:09
Operator : RC/JU
Sample : P4460-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-TOP

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

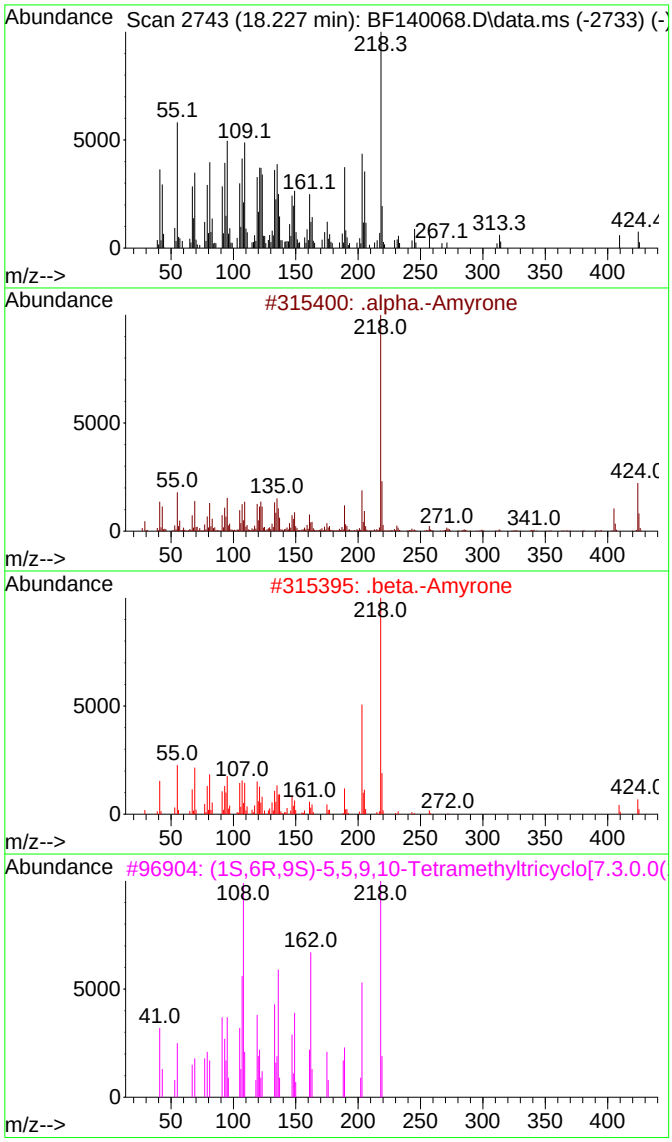
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

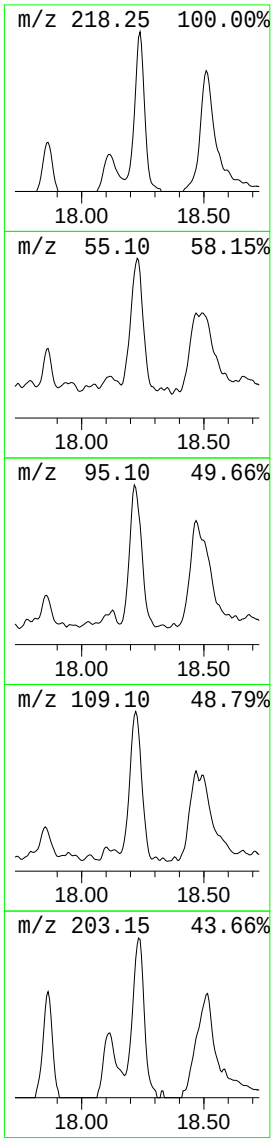
****

Peak Number 10 .alpha.-Amyrone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.227	11.77 ng	460872	Perylene-d12	15.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Amyrone	424	C30H48O	000638-96-0	98
2	.beta.-Amyrone	424	C30H48O	000638-97-1	60
3	(1S,6R,9S)-5,5,9,10-Tetramethylt...	218	C16H26	1000298-97-8	53
4	5H-3,5a-Epoxynaphth[2,1-c]oxepin...	278	C18H30O2	001153-34-0	52
5	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	49





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140068.D
Acq On : 26 Oct 2024 19:09
Operator : RC/JU
Sample : P4460-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-TOP

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

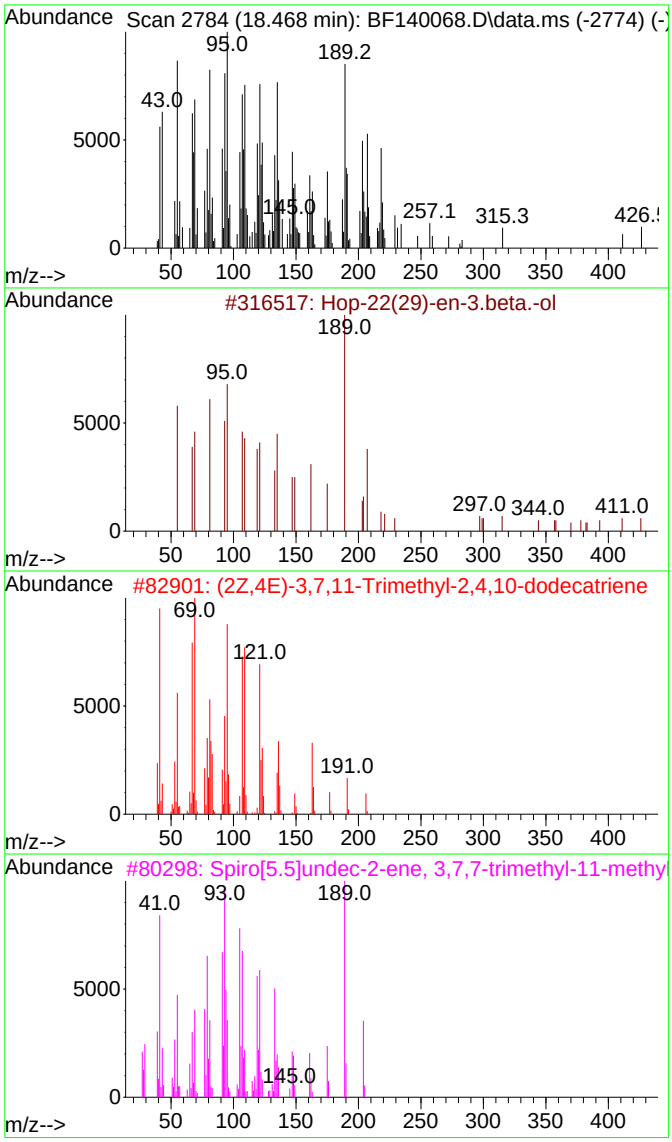
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

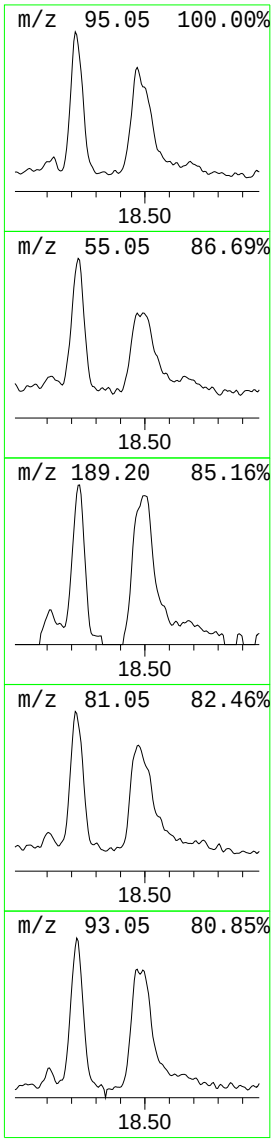
****

Peak Number 11 Hop-22(29)-en-3.beta.-ol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.468	5.14 ng	201119	Perylene-d12	15.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hop-22(29)-en-3.beta.-ol	426	C30H50O	058801-23-3	56
2	(2Z,4E)-3,7,11-Trimethyl-2,4,10-...	206	C15H26	172549-29-0	50
3	Spiro[5.5]undec-2-ene, 3,7,7-tri...	204	C15H24	018431-82-8	45
4	4,8-Methanoazulen-9-ol, decahydr...	222	C15H26O	004586-22-5	43
5	Thunbergol	290	C20H34O	025269-17-4	42





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140068.D
Acq On : 26 Oct 2024 19:09
Operator : RC/JU
Sample : P4460-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.199	62.2	ng	2687910	1	6.886	864159	20.0
2-Pentanone, 4-...	5.116	4.7	ng	201982	1	6.886	864159	20.0
Benzophenone	10.633	4.2	ng	274371	3	9.922	1319690	20.0
n-Hexadecanoic ...	11.933	5.8	ng	395396	4	11.410	1357320	20.0
unknown12.021	12.021	4.2	ng	286626	4	11.410	1357320	20.0
1-Pentadecanethiol	13.892	2.1	ng	98021	5	14.045	926845	20.0
unknown17.286	17.286	2.8	ng	110459	6	15.527	782883	20.0
2H-Cyclopropa[a...	17.856	2.1	ng	82251	6	15.527	782883	20.0
.alpha.-Amyrone	18.227	11.8	ng	460872	6	15.527	782883	20.0
Hop-22(29)-en-3...	18.468	5.1	ng	201119	6	15.527	782883	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140063.D
Acq On : 26 Oct 2024 16:48
Operator : RC/JU
Sample : P4460-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-BOT

Quant Time: Oct 28 01:08:53 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

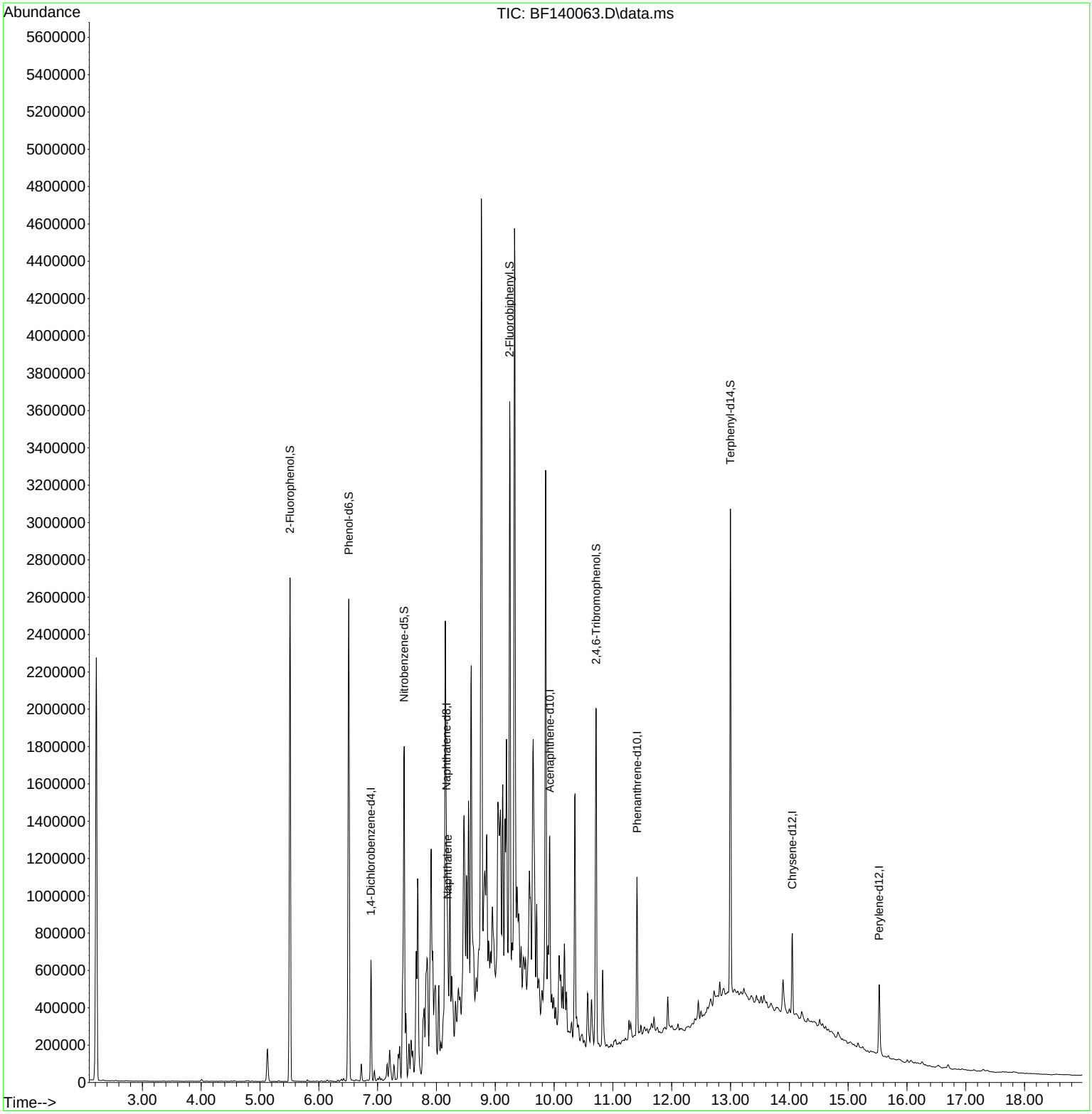
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	129197	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	476862	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	260201	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	444743	20.000	ng	0.00
76) Chrysene-d12	14.051	240	217594	20.000	ng	0.00
86) Perylene-d12	15.527	264	237376	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	1049709	127.194	ng	0.01
7) Phenol-d6	6.510	99	1349554	126.259	ng	0.00
23) Nitrobenzene-d5	7.451	82	871333	101.271	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	348572	143.219	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1474289	93.641	ng	0.00
79) Terphenyl-d14	12.998	244	1342432	100.530	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.193	128	122370	4.976	ng	98

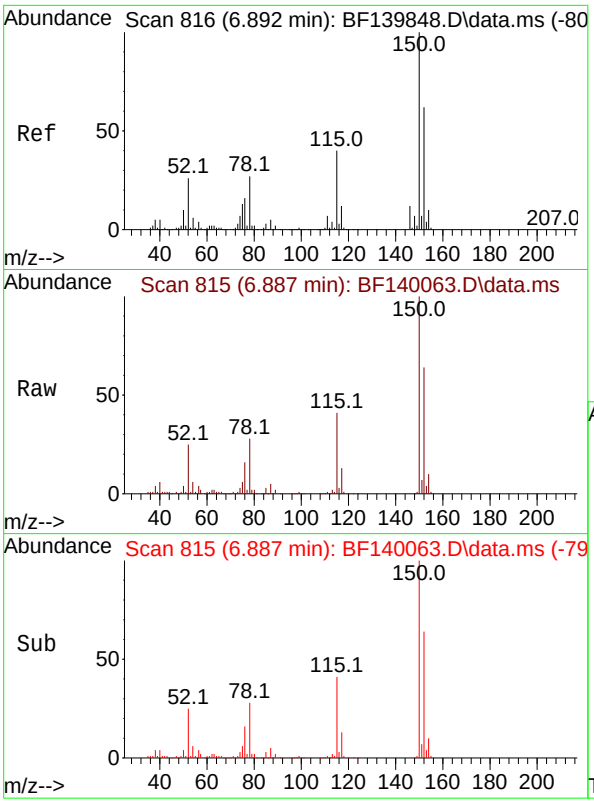
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140063.D
Acq On : 26 Oct 2024 16:48
Operator : RC/JU
Sample : P4460-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-BOT

Quant Time: Oct 28 01:08:53 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



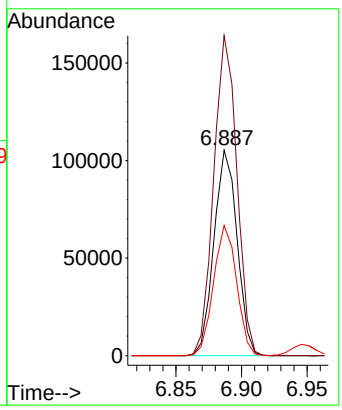


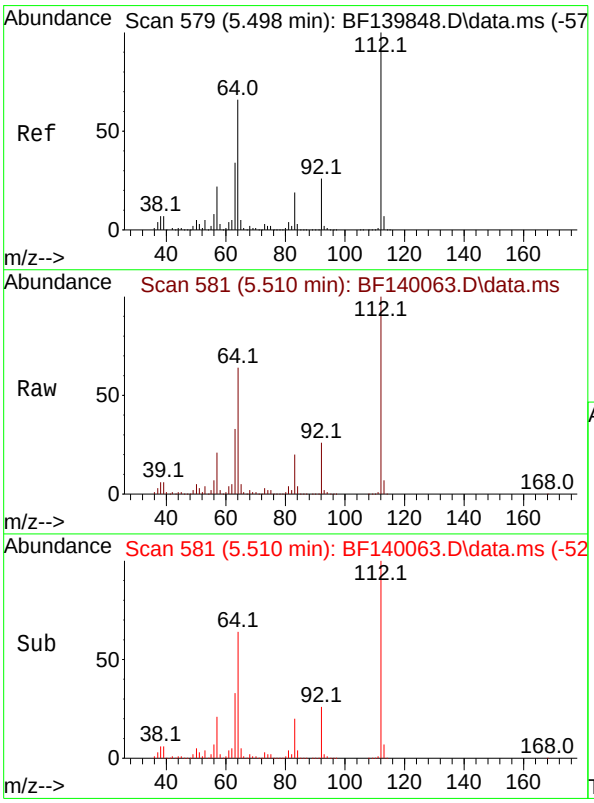
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 81
Delta R.T. -0.005 min
Lab File: BF140063.D
Acq: 26 Oct 2024 16:48

Instrument :
BNA_F
ClientSampleId :
WB-303-BOT

Tgt Ion:152 Resp: 129197

Ion	Ratio	Lower	Upper
152	100		
150	155.8	130.2	195.2
115	63.4	51.4	77.2

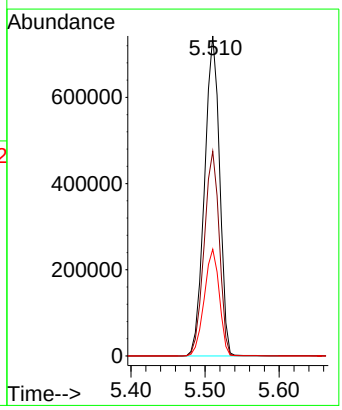


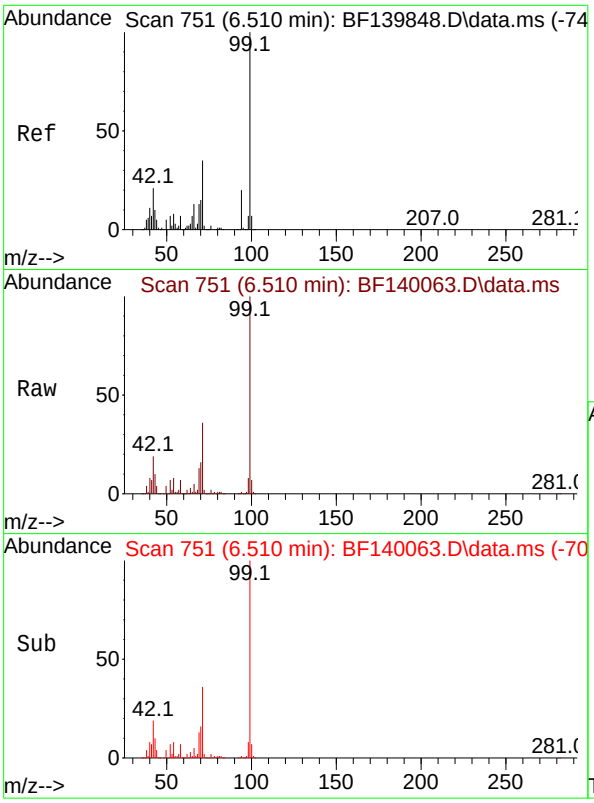


#5
2-Fluorophenol
Concen: 127.194 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.012 min
Lab File: BF140063.D
Acq: 26 Oct 2024 16:48

Tgt Ion:112 Resp: 1049709

Ion	Ratio	Lower	Upper
112	100		
64	63.9	53.0	79.6
63	33.3	27.0	40.4



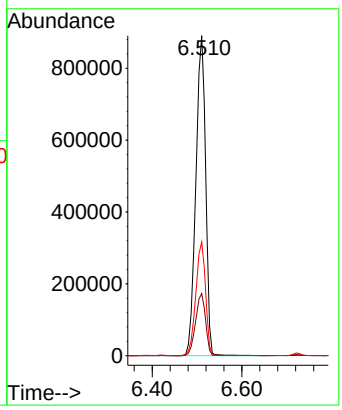


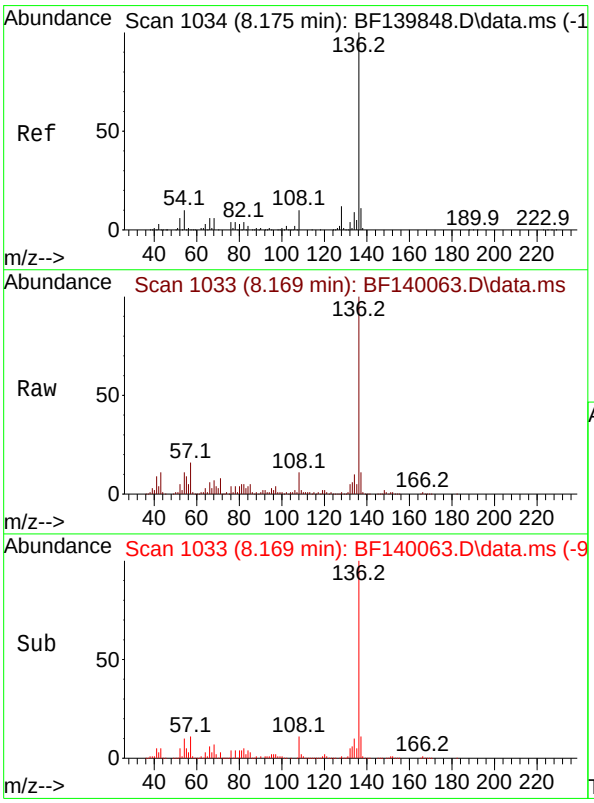
#7
Phenol-d6
Concen: 126.259 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140063.D
Acq: 26 Oct 2024 16:48

Instrument :
BNA_F
ClientSampleId :
WB-303-BOT

Tgt Ion: 99 Resp: 1349554

Ion	Ratio	Lower	Upper
99	100		
42	19.4	16.7	25.1
71	35.6	27.7	41.5

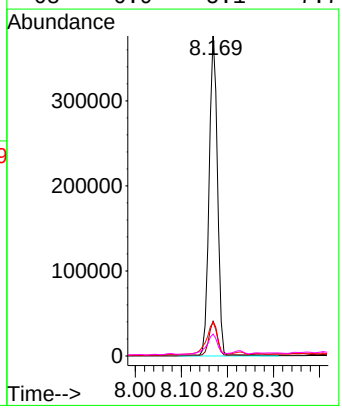


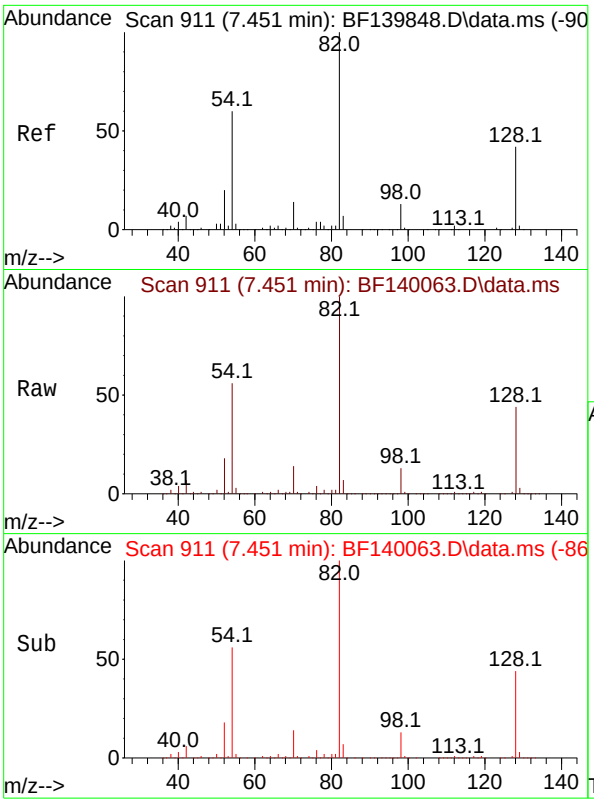


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140063.D
Acq: 26 Oct 2024 16:48

Tgt Ion:136 Resp: 476862

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	10.5	8.4	12.6
68	6.9	5.1	7.7



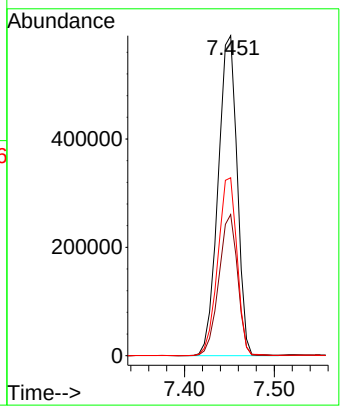


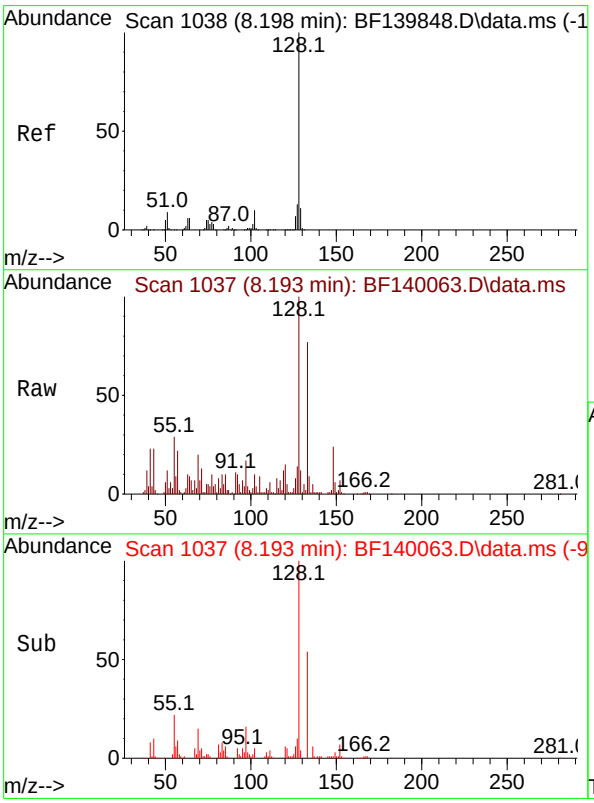
#23
Nitrobenzene-d5
Concen: 101.271 ng
RT: 7.451 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF140063.D
Acq: 26 Oct 2024 16:48

Instrument :
BNA_F
ClientSampleId :
WB-303-BOT

Tgt Ion: 82 Resp: 871333

Ion	Ratio	Lower	Upper
82	100		
128	44.1	33.4	50.0
54	55.6	47.8	71.8

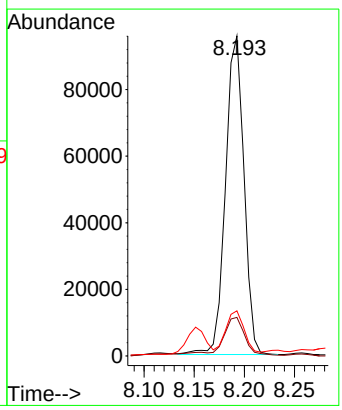


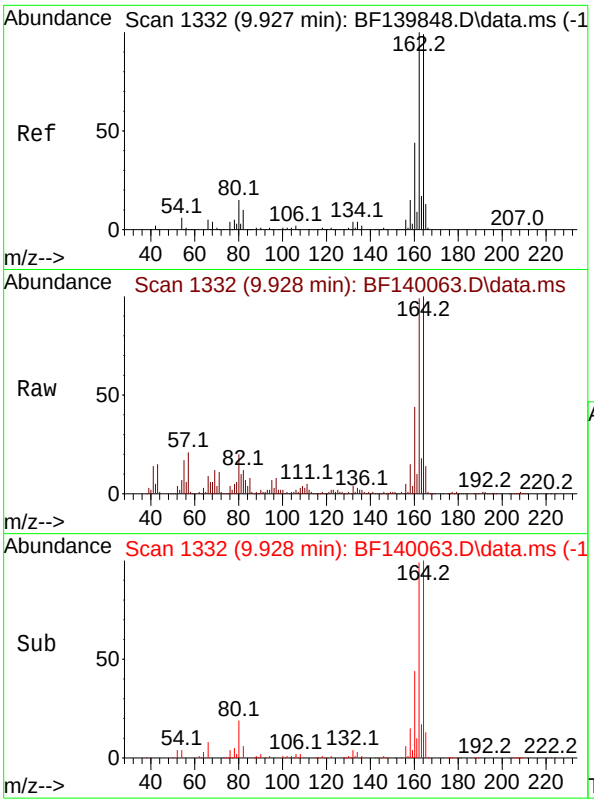


#31
Naphthalene
Concen: 4.976 ng
RT: 8.193 min Scan# 1037
Delta R.T. -0.006 min
Lab File: BF140063.D
Acq: 26 Oct 2024 16:48

Tgt Ion:128 Resp: 122370

Ion	Ratio	Lower	Upper
128	100		
129	12.0	8.9	13.3
127	14.1	10.6	16.0



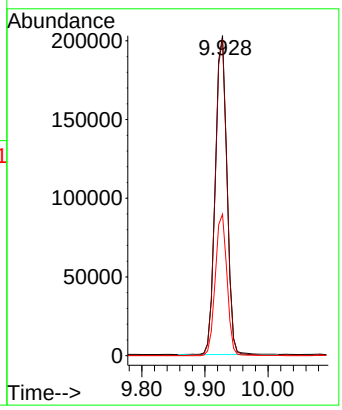


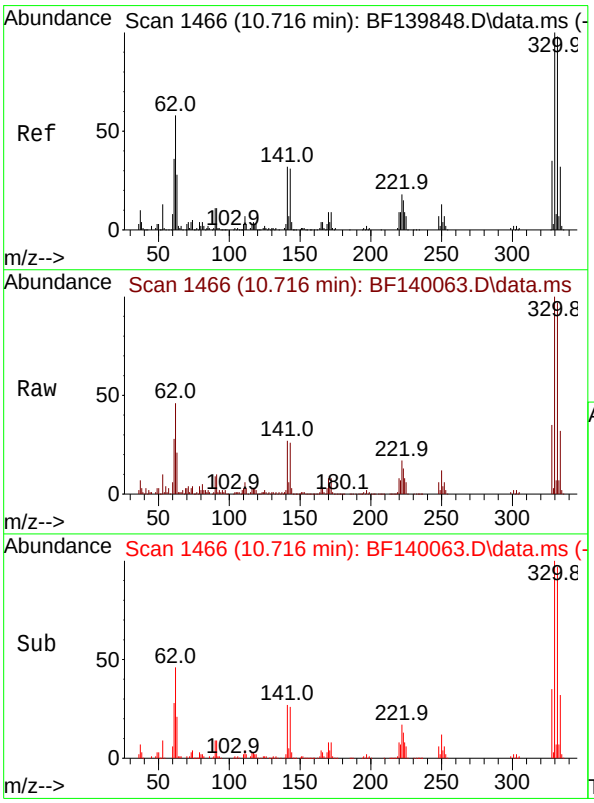
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF140063.D
Acq: 26 Oct 2024 16:48

Instrument :
BNA_F
ClientSampleId :
WB-303-BOT

Tgt Ion:164 Resp: 260201

Ion	Ratio	Lower	Upper
164	100		
162	98.8	81.0	121.4
160	44.2	35.4	53.0

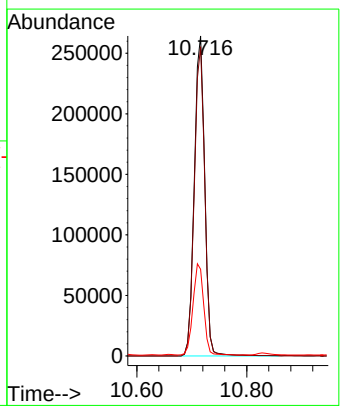


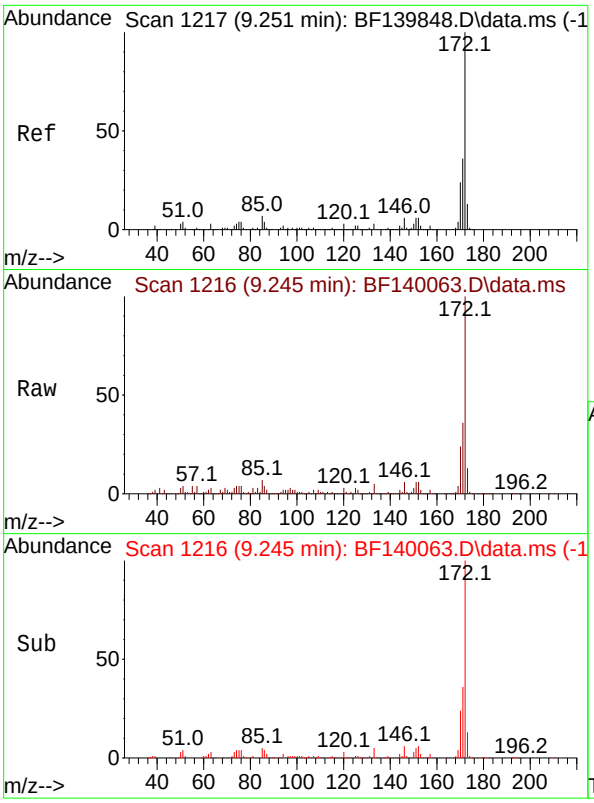


#42
2,4,6-Tribromophenol
Concen: 143.219 ng
RT: 10.716 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BF140063.D
Acq: 26 Oct 2024 16:48

Tgt Ion:330 Resp: 348572

Ion	Ratio	Lower	Upper
330	100		
332	96.4	78.1	117.1
141	29.1	26.6	39.8



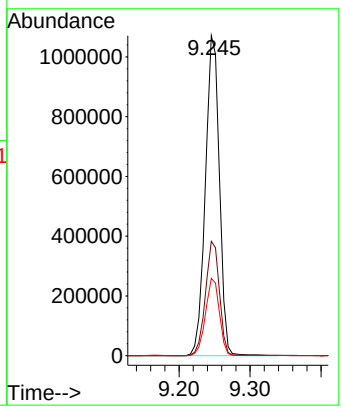


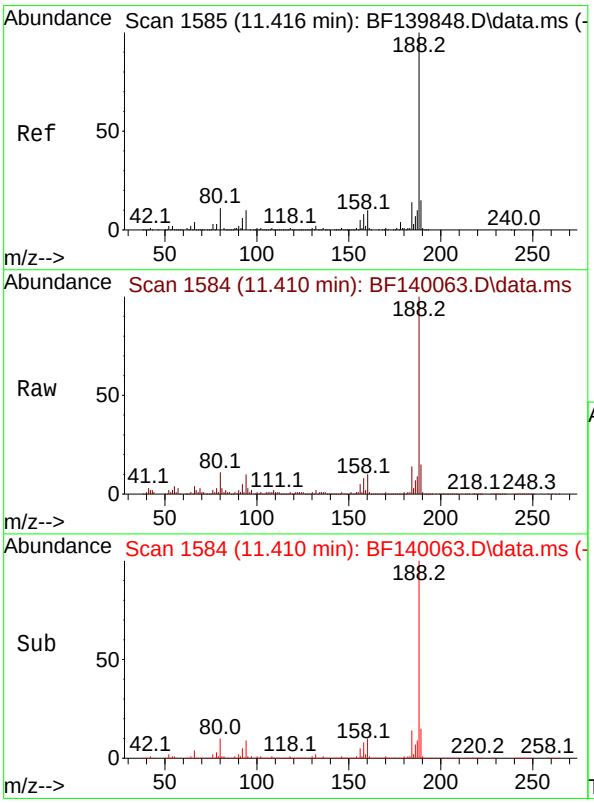
#45
2-Fluorobiphenyl
Concen: 93.641 ng
RT: 9.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140063.D
Acq: 26 Oct 2024 16:48

Instrument :
BNA_F
ClientSampleId :
WB-303-BOT

Tgt Ion:172 Resp: 1474289

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	24.2	19.1	28.7

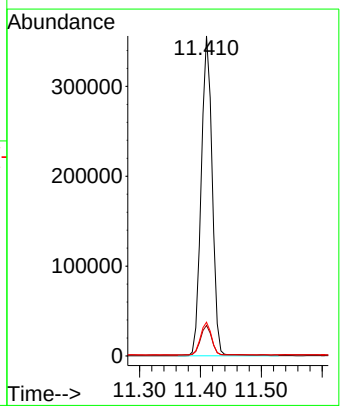


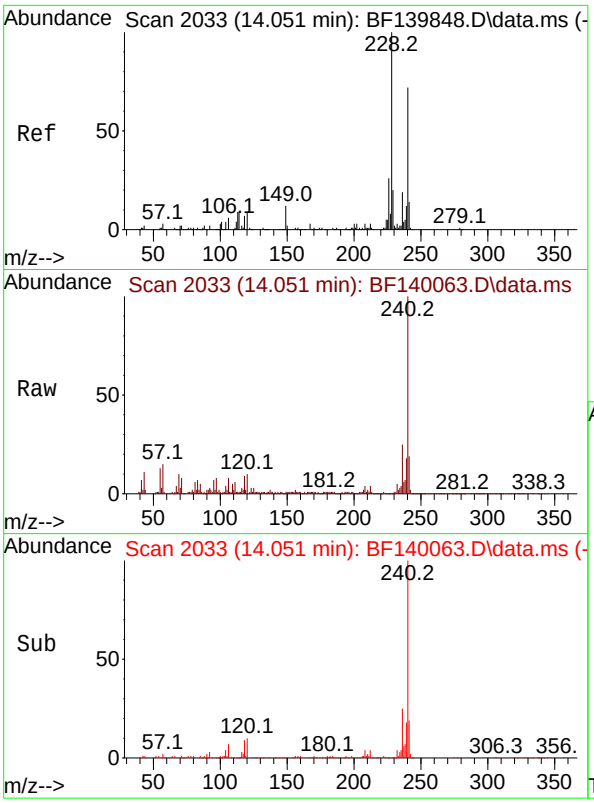


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.006 min
Lab File: BF140063.D
Acq: 26 Oct 2024 16:48

Tgt Ion:188 Resp: 444743

Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.9	11.9
80	10.5	9.0	13.4



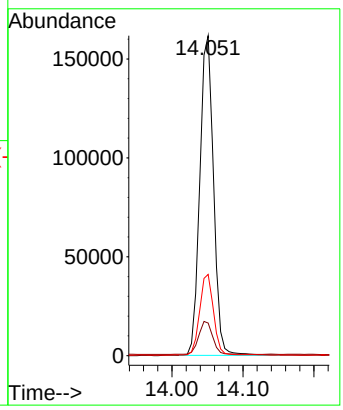


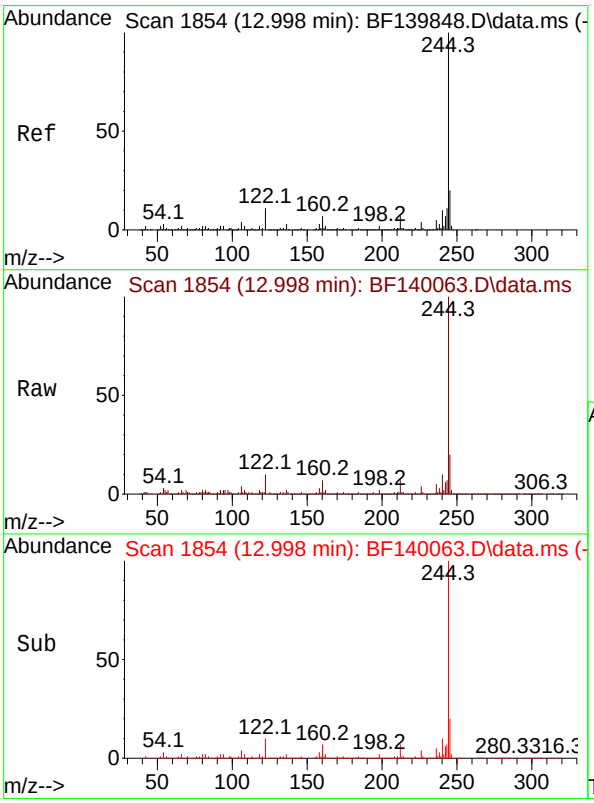
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140063.D
Acq: 26 Oct 2024 16:48

Instrument :
BNA_F
ClientSampleId :
WB-303-BOT

Tgt Ion:240 Resp: 217594

Ion	Ratio	Lower	Upper
240	100		
120	10.2	9.4	14.2
236	25.4	20.9	31.3

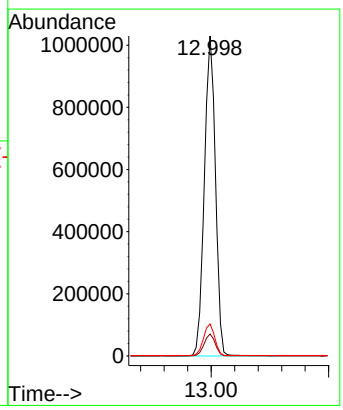


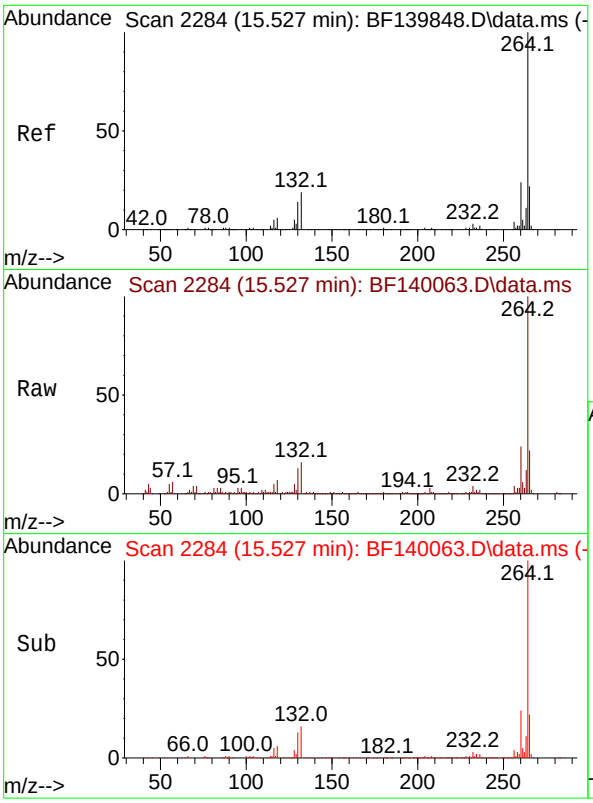


#79
Terphenyl-d14
Concen: 100.530 ng
RT: 12.998 min Scan# 1854
Delta R.T. 0.000 min
Lab File: BF140063.D
Acq: 26 Oct 2024 16:48

Tgt Ion:244 Resp: 1342432

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	10.0	8.6	13.0



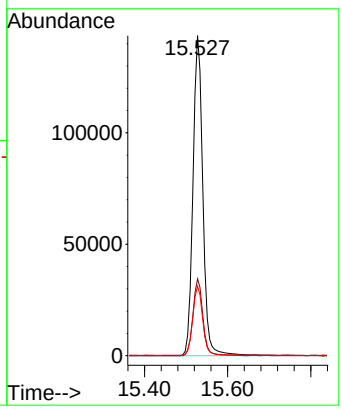


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140063.D
Acq: 26 Oct 2024 16:48

Instrument :
BNA_F
ClientSampleId :
WB-303-BOT

Tgt Ion:264 Resp: 237376

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.4	29.2
265	21.7	17.4	26.0



Sample Results: **BF140063.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140063.D
Acq On : 26 Oct 2024 16:48
Operator : RC/JU
Sample : P4460-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-BOT

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: BF140063.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.216	12	21	29	rVB	2264683	3690545	56.07%	4.074%
2	5.128	506	516	527	rVB	172362	297618	4.52%	0.329%
3	5.510	574	581	586	rBV	2698702	3815440	57.97%	4.212%
4	6.510	742	751	756	rBV	2583092	3938365	59.84%	4.348%
5	6.722	782	787	795	rVB	91507	115067	1.75%	0.127%
6	6.887	807	815	821	rVV	645871	811483	12.33%	0.896%
7	7.163	851	862	865	rBV2	87230	144868	2.20%	0.160%
8	7.204	865	869	877	rVB2	159915	275748	4.19%	0.304%
9	7.275	877	881	886	rBV2	79898	113603	1.73%	0.125%
10	7.351	889	894	896	rBV	134873	189934	2.89%	0.210%
11	7.375	896	898	902	rVB	167868	175576	2.67%	0.194%
12	7.451	902	911	914	rBV2	1775475	3194836	48.54%	3.527%
13	7.481	914	916	920	rVB	341078	369869	5.62%	0.408%
14	7.534	920	925	928	rBV3	176379	251744	3.83%	0.278%
15	7.569	928	931	934	rBV	154740	198440	3.02%	0.219%
16	7.598	934	936	939	rVB3	110881	112533	1.71%	0.124%
17	7.657	939	946	948	rBV	646999	1011972	15.38%	1.117%
18	7.681	948	950	960	rVB	1046453	1383367	21.02%	1.527%
19	7.793	960	969	971	rBV3	350029	835748	12.70%	0.923%
20	7.840	971	977	982	rVV4	530622	1329425	20.20%	1.468%
21	7.910	982	989	992	rVV4	1104720	2270232	34.49%	2.506%
22	7.981	996	1001	1007	rVB4	369094	833041	12.66%	0.920%
23	8.040	1007	1011	1015	rBV	366794	447184	6.79%	0.494%
24	8.151	1020	1030	1040	rBV4	2288541	5282279	80.26%	5.832%
25	8.228	1040	1043	1046	rVV	689975	798898	12.14%	0.882%
26	8.257	1046	1048	1056	rVB3	322920	597439	9.08%	0.660%
27	8.322	1056	1059	1063	rBV	188367	292439	4.44%	0.323%
28	8.375	1064	1068	1071	rBV3	159710	279672	4.25%	0.309%
29	8.469	1076	1084	1089	rBV4	1066547	2363528	35.91%	2.609%
30	8.510	1089	1091	1094	rVV2	703400	893973	13.58%	0.987%
31	8.545	1094	1097	1101	rVV	1090987	1493251	22.69%	1.649%
32	8.592	1101	1105	1115	rVB	1792704	3086280	46.89%	3.407%
33	8.722	1122	1127	1128	rBV2	227904	352657	5.36%	0.389%
34	8.763	1128	1134	1139	rVV	4214229	6581539	100.00%	7.266%
35	8.822	1139	1144	1147	rVV4	572584	1349531	20.50%	1.490%
36	8.857	1147	1150	1153	rVV	739570	988040	15.01%	1.091%

Sample Results: **BF140063.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140063.D
Acq On : 26 Oct 2024 16:48
Operator : RC/JU
Sample : P4460-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-BOT

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	8.887	1153	1155	1158	rVB4	148071	155142	2.36%	0.171%
38	8.951	1163	1166	1175	rVB5	372258	748260	11.37%	0.826%
39	9.045	1178	1182	1186	rBV2	848123	1708930	25.97%	1.887%
40	9.128	1193	1196	1199	rVB	916558	1043743	15.86%	1.152%
41	9.169	1199	1203	1204	rBV	733841	874818	13.29%	0.966%
42	9.192	1204	1207	1211	rVB	1144117	1359038	20.65%	1.500%
43	9.245	1211	1216	1221	rVB	2986717	4012101	60.96%	4.429%
44	9.328	1225	1230	1235	rBV	3867149	5738015	87.18%	6.335%
45	9.369	1235	1237	1240	rVB3	183985	191750	2.91%	0.212%
46	9.481	1253	1256	1259	rBV3	150129	238289	3.62%	0.263%
47	9.581	1269	1273	1279	rVV2	482615	1011587	15.37%	1.117%
48	9.645	1279	1284	1291	rVV3	1287201	2785003	42.32%	3.075%
49	9.704	1291	1294	1297	rVB	450412	488909	7.43%	0.540%
50	9.792	1306	1309	1312	rBV	115035	172563	2.62%	0.191%
51	9.857	1313	1320	1324	rVV	2881866	4052040	61.57%	4.474%
52	9.898	1324	1327	1328	rVV3	318429	400537	6.09%	0.442%
53	9.928	1328	1332	1336	rVB	890494	1228115	18.66%	1.356%
54	10.087	1354	1359	1362	rBV	371728	651149	9.89%	0.719%
55	10.139	1366	1368	1371	rVV	221032	294482	4.47%	0.325%
56	10.175	1371	1374	1378	rVV3	460082	687456	10.45%	0.759%
57	10.210	1378	1380	1384	rVB	213074	229827	3.49%	0.254%
58	10.357	1399	1405	1408	rBV	1290019	1738634	26.42%	1.919%
59	10.569	1436	1441	1448	rBV	285877	514269	7.81%	0.568%
60	10.639	1448	1453	1459	rVV2	244036	439336	6.68%	0.485%
61	10.710	1459	1465	1472	rVB	1798714	2539394	38.58%	2.804%
62	10.828	1480	1485	1494	rVB	407563	647723	9.84%	0.715%
63	11.275	1558	1561	1563	rBV	92068	108756	1.65%	0.120%
64	11.410	1579	1584	1589	rBV	850530	1068276	16.23%	1.179%
65	11.933	1669	1673	1682	rBV2	172798	254161	3.86%	0.281%
66	12.998	1849	1854	1862	rVB	2589078	3403612	51.71%	3.758%
67	13.892	2003	2006	2019	rVB	180937	371015	5.64%	0.410%
68	14.051	2029	2033	2039	rVB	434464	578612	8.79%	0.639%
69	15.527	2279	2284	2299	rVB	385891	675906	10.27%	0.746%

Sum of corrected areas: 90577612

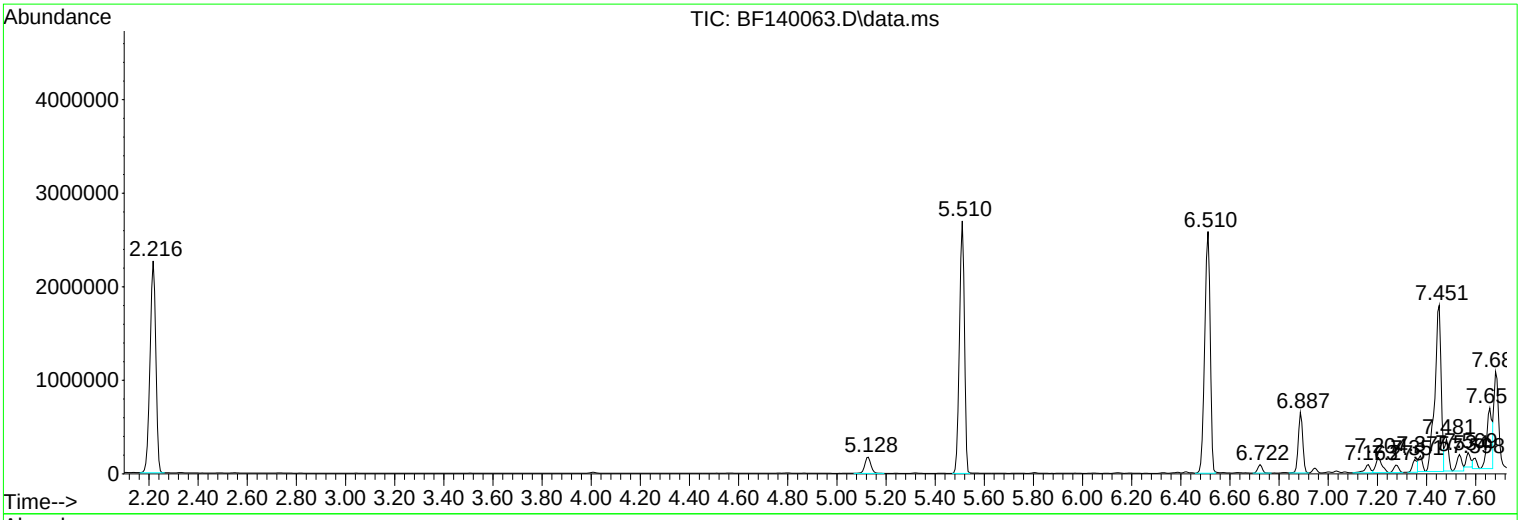
Sample Results: **BF140063.D**

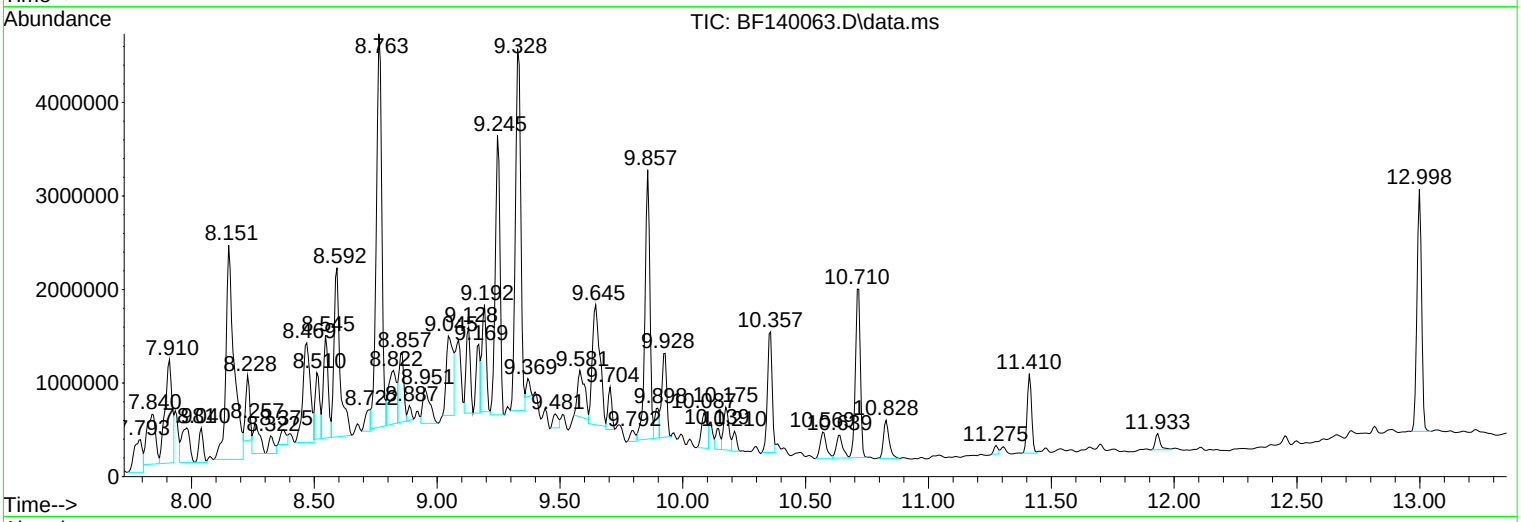
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140063.D
Acq On : 26 Oct 2024 16:48
Operator : RC/JU
Sample : P4460-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

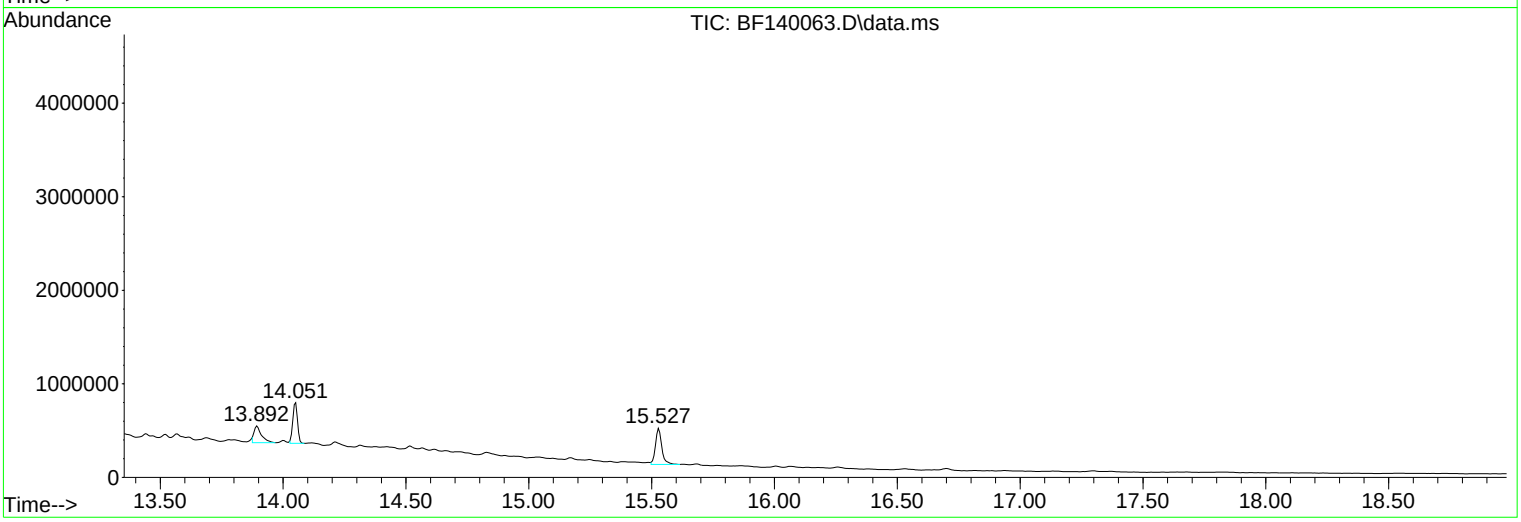
Instrument :
BNA_F
ClientSampleId :
WB-303-BOT

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\BF102624\
Data File : BF140063.D
Acq On : 26 Oct 2024 16:48
Operator : RC/JU
Sample : P4460-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-BOT

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

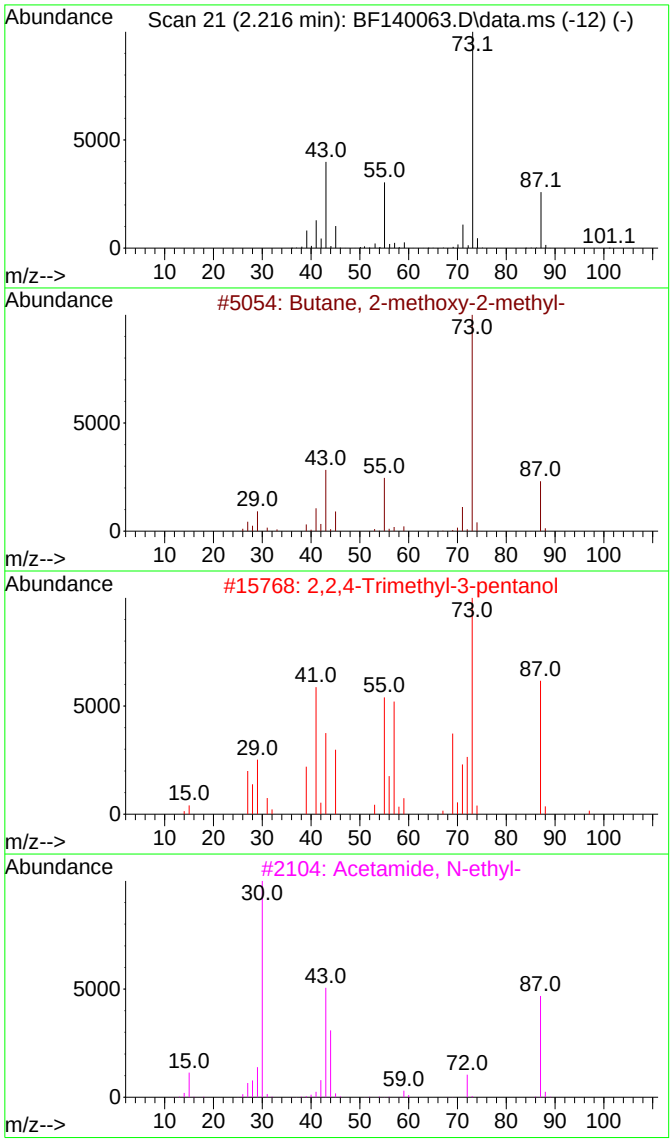
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

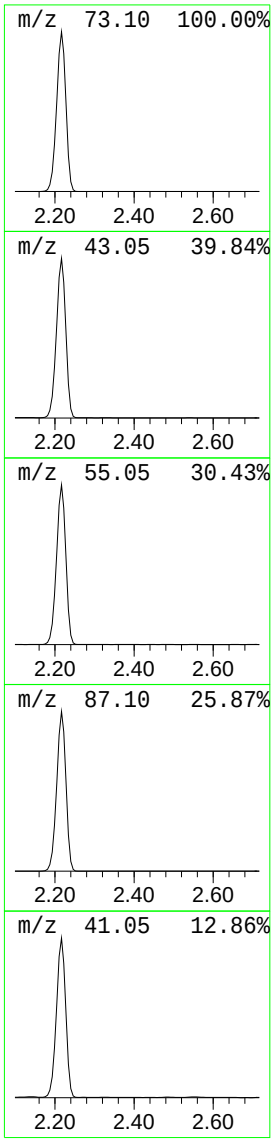
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.216	90.96 ng	3690550	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\BF102624\
Data File : BF140063.D
Acq On : 26 Oct 2024 16:48
Operator : RC/JU
Sample : P4460-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-BOT

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

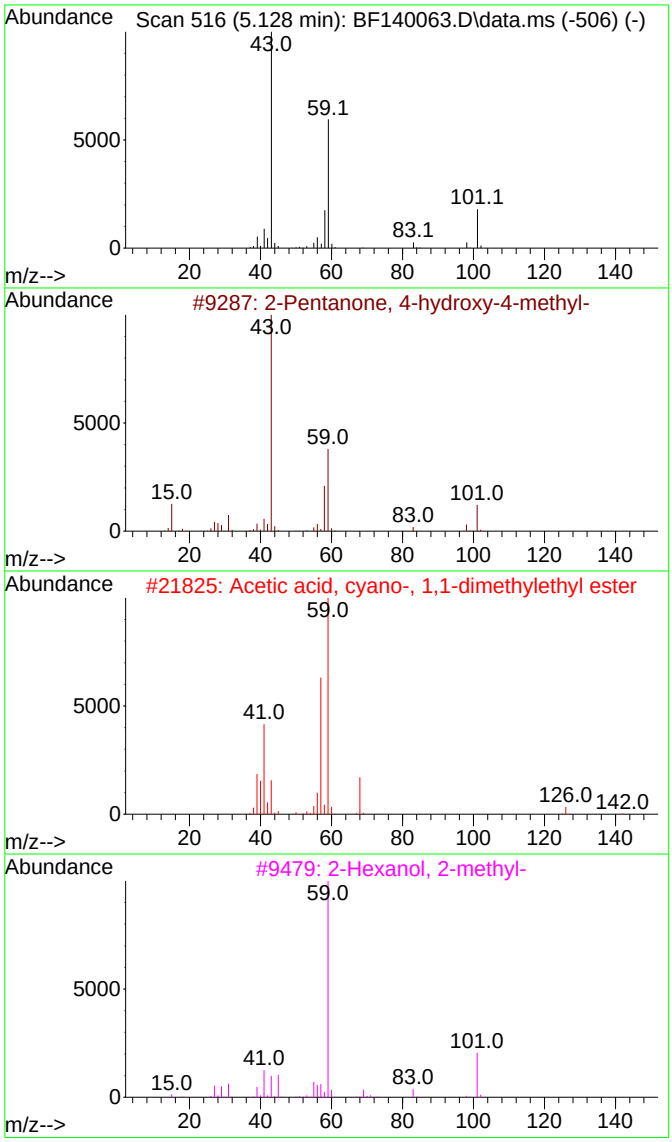
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

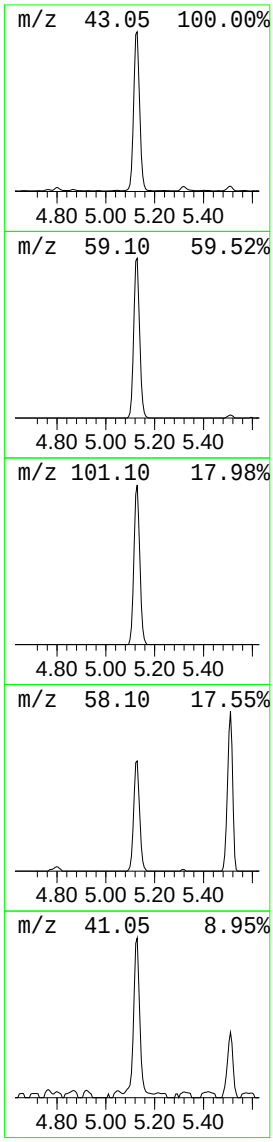
****

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.128	7.34 ng	297618	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	37
3	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140063.D
Acq On : 26 Oct 2024 16:48
Operator : RC/JU
Sample : P4460-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-BOT

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

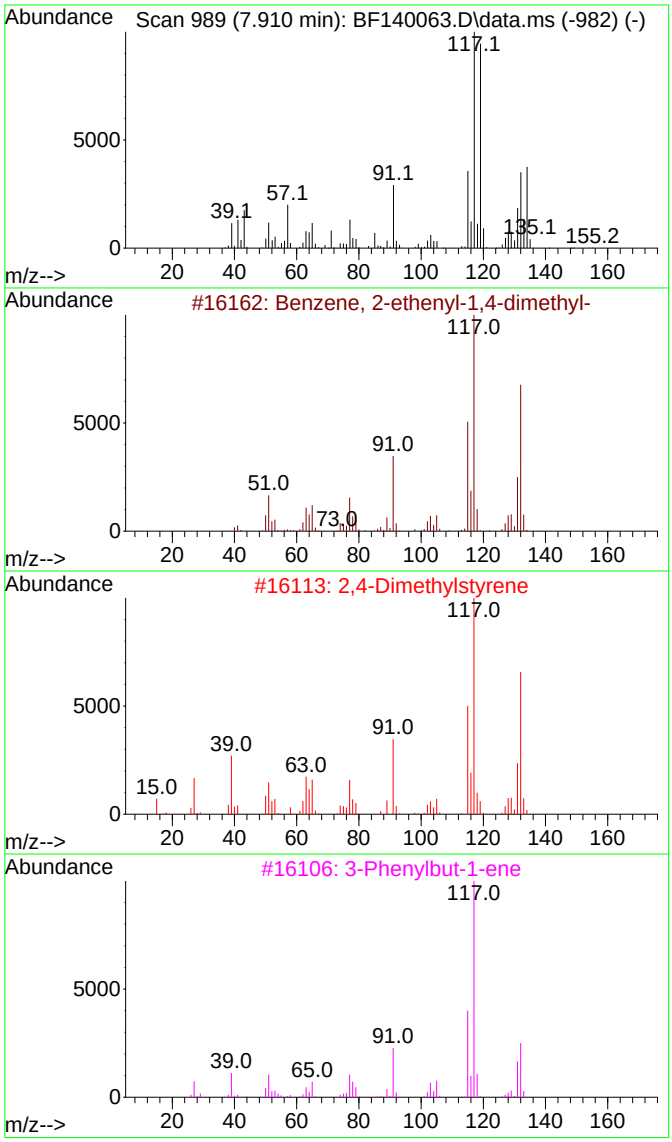
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

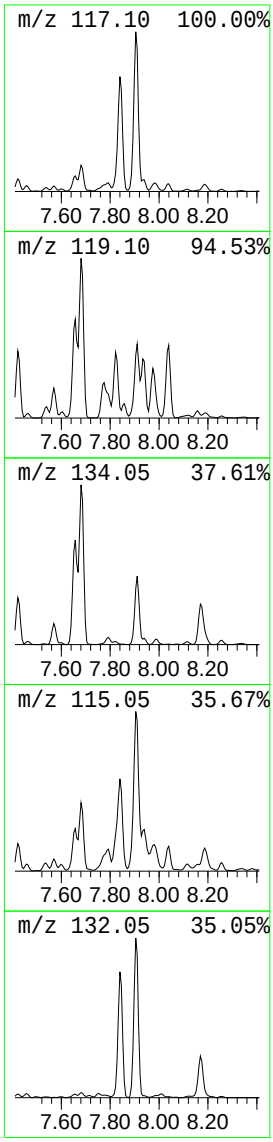
****

Peak Number 3 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.910	8.60 ng	2270230	Naphthalene-d8	8.169

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	86
2	2,4-Dimethylstyrene	132	C10H12	002234-20-0	86
3	3-Phenylbut-1-ene	132	C10H12	000934-10-1	55
4	Benzene, 2-butenyl-	132	C10H12	001560-06-1	55
5	Benzene, 2-ethenyl-1,3-dimethyl-	132	C10H12	002039-90-9	55





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140063.D
Acq On : 26 Oct 2024 16:48
Operator : RC/JU
Sample : P4460-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-BOT

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

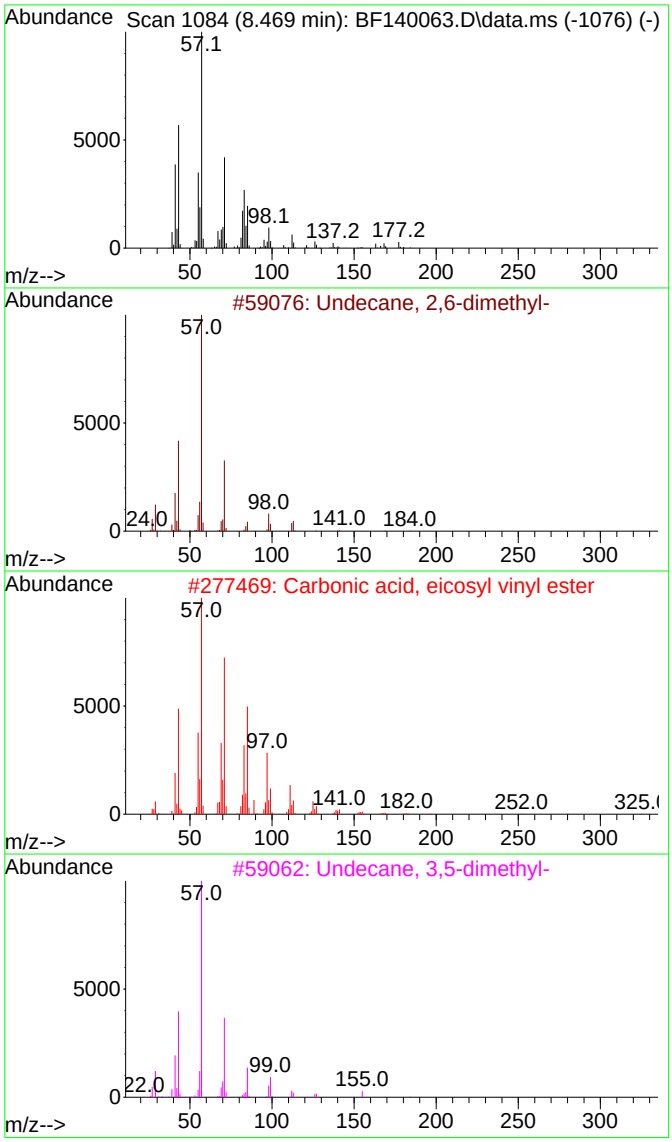
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

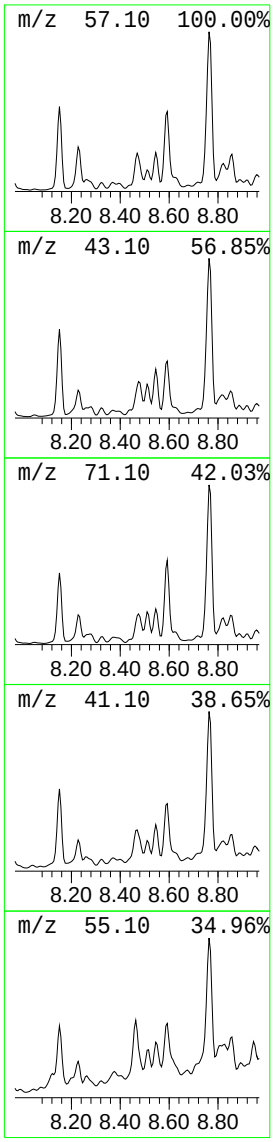
****

Peak Number 4 Undecane, 2,6-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.469	8.95 ng	2363530	Naphthalene-d8	8.169

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	60
2	Carbonic acid, eicosyl vinyl ester	368	C23H44O3	1000382-54-3	53
3	Undecane, 3,5-dimethyl-	184	C13H28	017312-81-1	49
4	Undecane	156	C11H24	001120-21-4	47
5	Undecane, 6-ethyl-	184	C13H28	017312-60-6	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140063.D
Acq On : 26 Oct 2024 16:48
Operator : RC/JU
Sample : P4460-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-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

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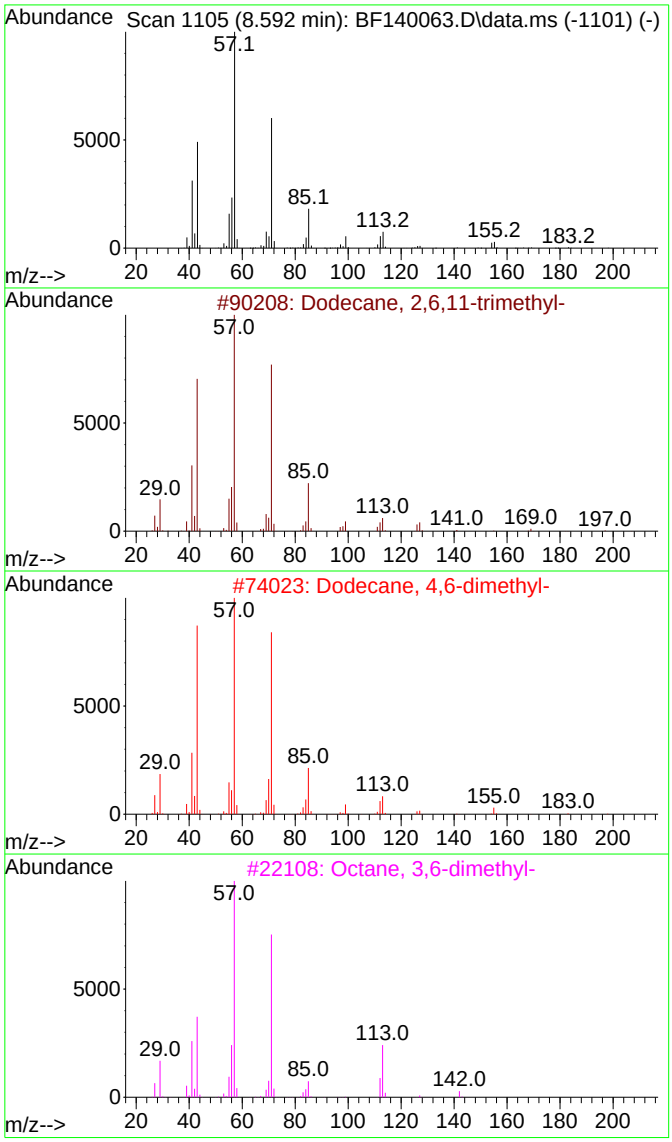
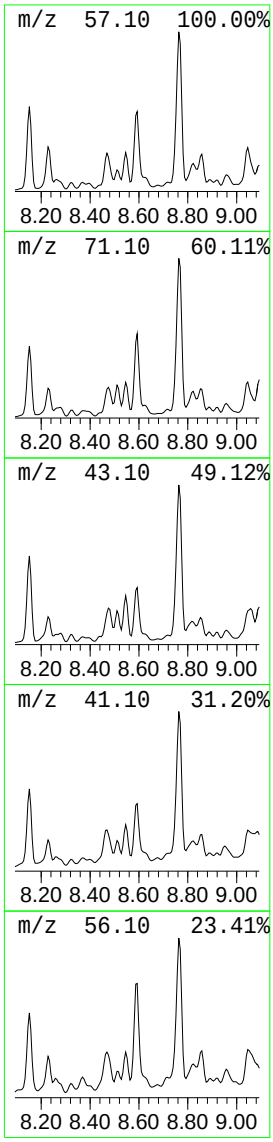
Peak Number 5 Dodecane, 2,6,11-trimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.592	11.69 ng	3086280	Naphthalene-d8	8.169

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	90
2	Dodecane, 4,6-dimethyl-	198	C14H30	061141-72-8	76
3	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	64
4	Sulfurous acid, dodecyl 2-ethylh...	362	C20H42O3S	1000309-19-5	64
5	Sulfurous acid, 2-ethylhexyl und...	348	C19H40O3S	1000309-19-4	64





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

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

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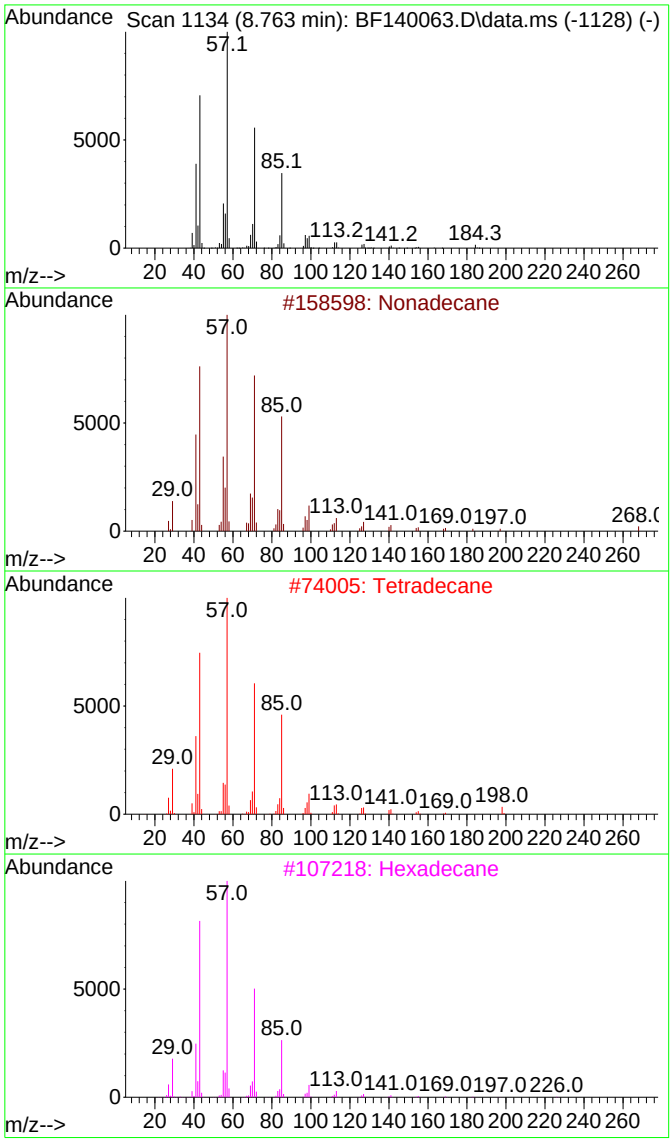
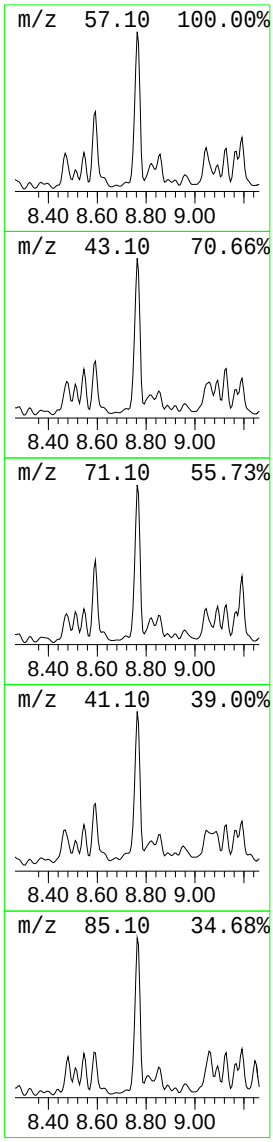
Peak Number 6 Nonadecane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.763	24.92 ng	6581540	Naphthalene-d8	8.169

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	90
2	Tetradecane	198	C14H30	000629-59-4	86
3	Hexadecane	226	C16H34	000544-76-3	86
4	Tridecane	184	C13H28	000629-50-5	81
5	Eicosane, 10-methyl-	296	C21H44	054833-23-7	78





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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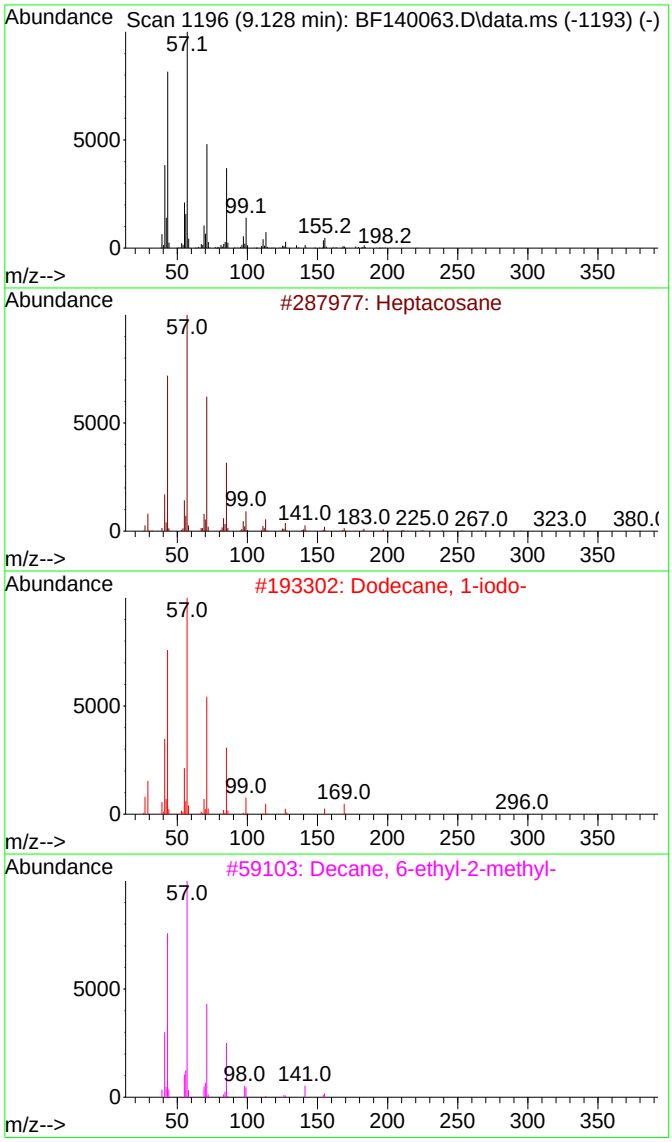
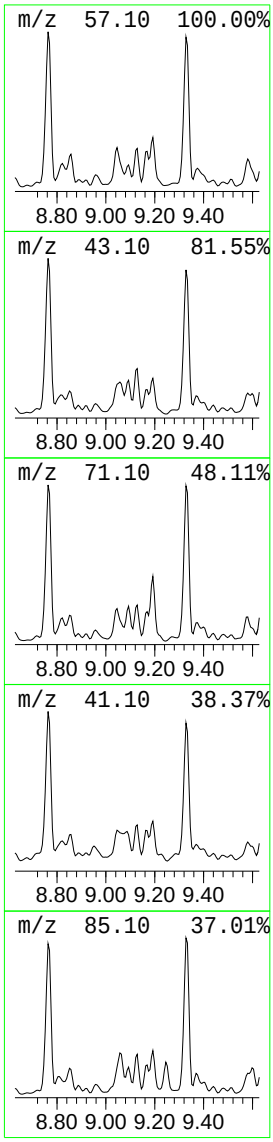
Peak Number 7 Heptacosane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.128	17.00 ng	1043740	Acenaphthene-d10	9.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	86
2	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	80
3	Decane, 6-ethyl-2-methyl-	184	C13H28	062108-21-8	72
4	2-Bromo dodecane	248	C12H25Br	013187-99-0	64
5	3,5-Dimethyldodecane	198	C14H30	107770-99-0	64





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

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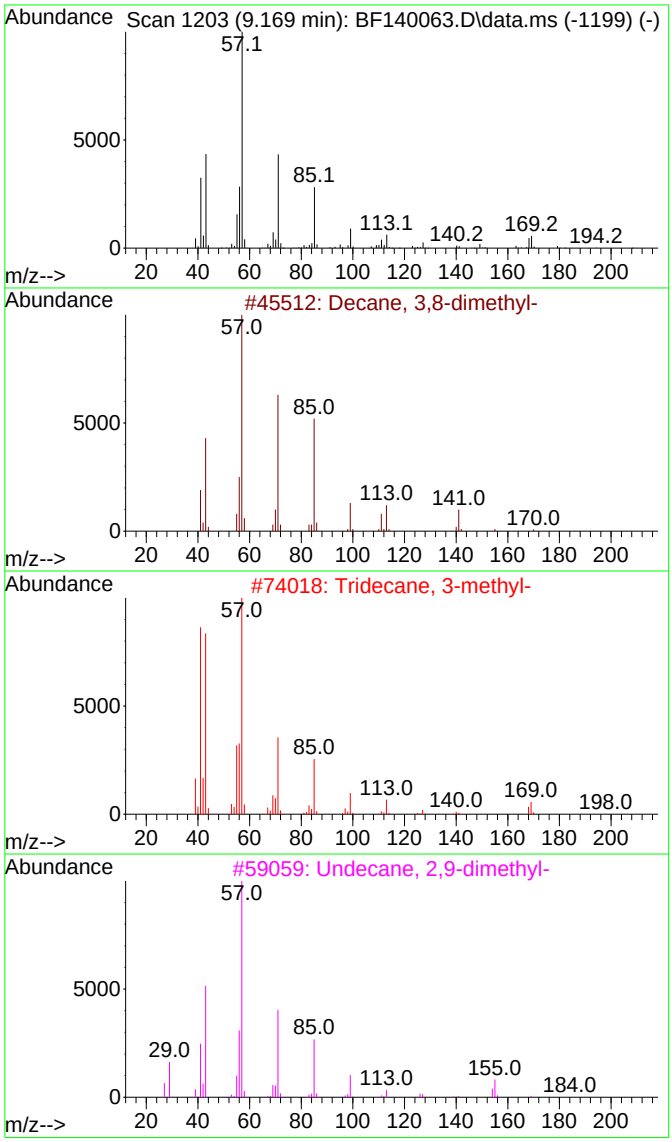
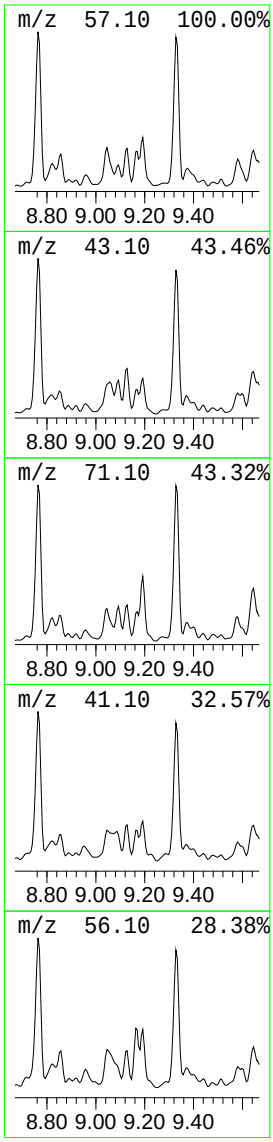
Peak Number 8 Decane, 3,8-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.169	14.25 ng	874818	Acenaphthene-d10	9.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3,8-dimethyl-	170	C12H26	017312-55-9	87
2	Tridecane, 3-methyl-	198	C14H30	006418-41-3	83
3	Undecane, 2,9-dimethyl-	184	C13H28	017301-26-7	72
4	Dodecane, 3-methyl-	184	C13H28	017312-57-1	72
5	3,5-Dimethyldodecane	198	C14H30	107770-99-0	50





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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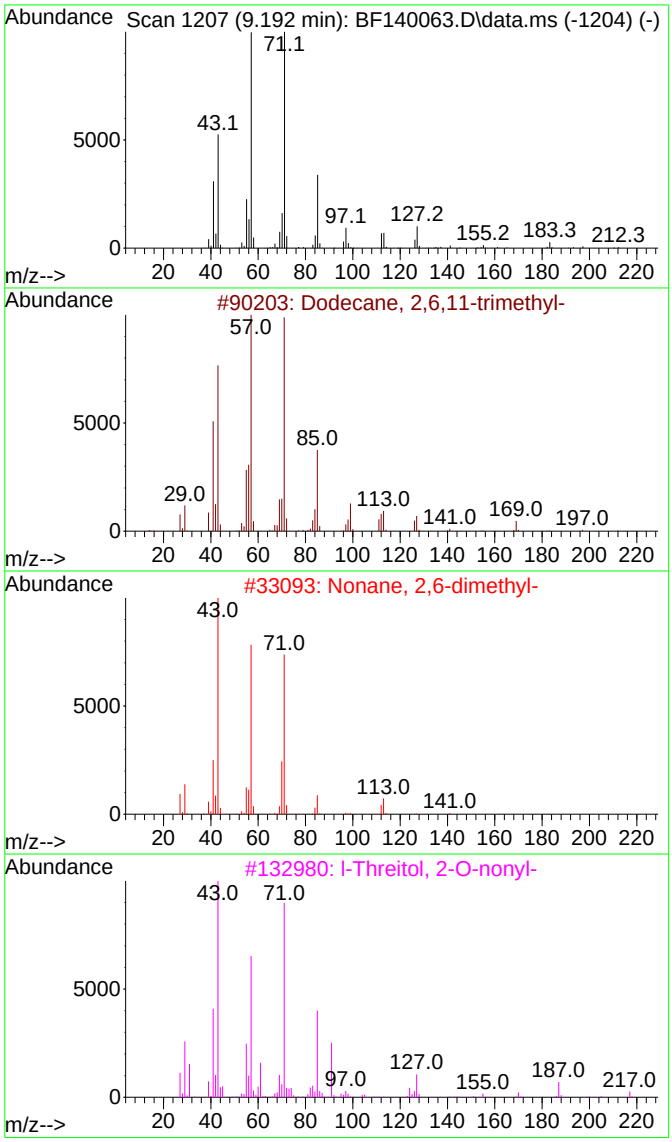
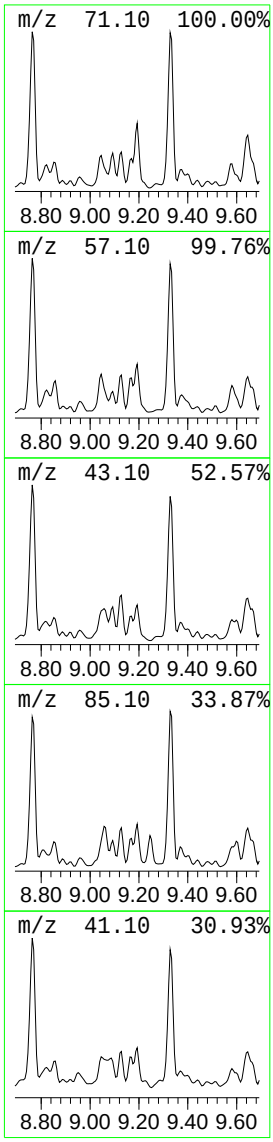
Peak Number 9 Nonane, 2,6-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.192	22.13 ng	1359040	Acenaphthene-d10	9.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	86
2	Nonane, 2,6-dimethyl-	156	C11H24	017302-28-2	64
3	l-Threitol, 2-O-nonyl-	248	C13H28O4	163776-15-6	59
4	Sulfurous acid, nonyl pentyl ester	278	C14H30O3S	1000309-14-2	59
5	3-(Octyloxy)-1,2-propanediol	204	C11H24O3	010438-94-5	53





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

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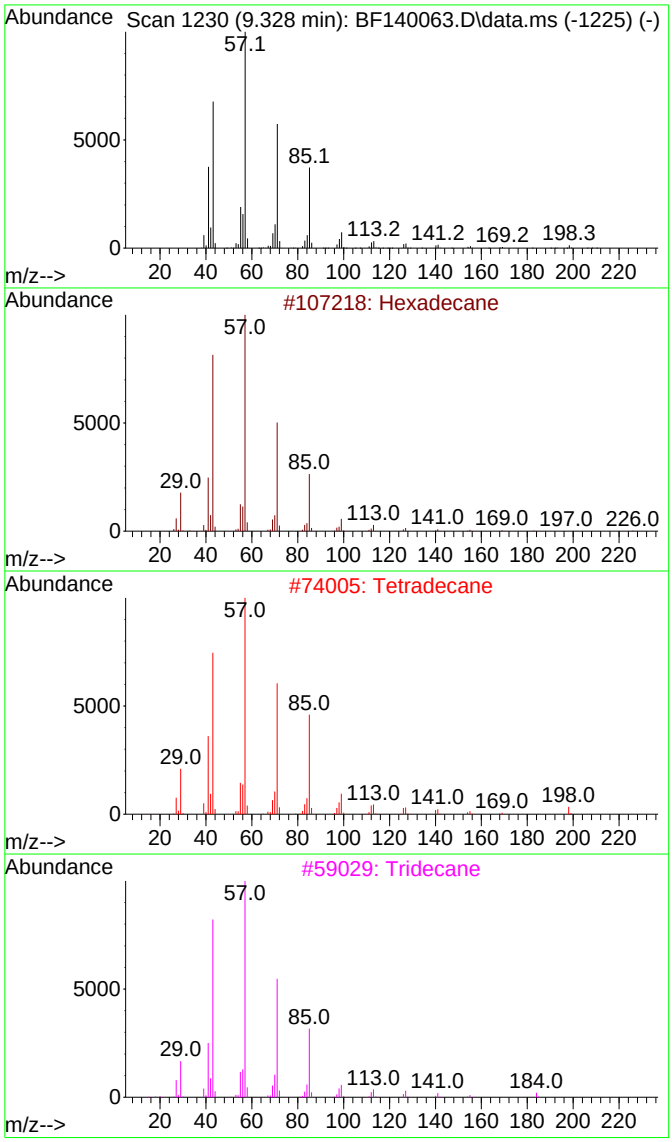
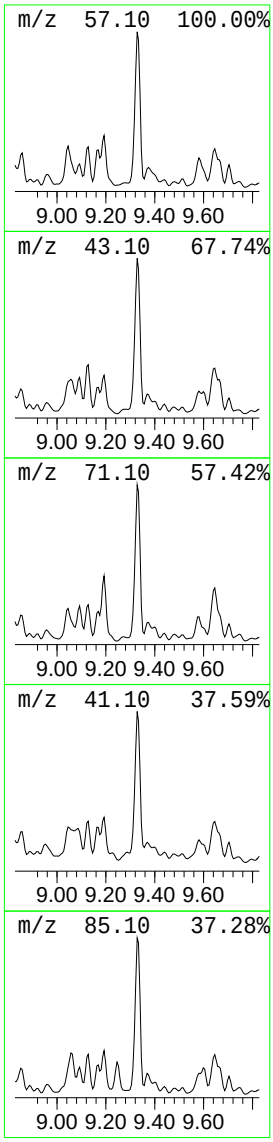
Peak Number 10 Hexadecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.328	93.44 ng	5738020	Acenaphthene-d10	9.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	90
2	Tetradecane	198	C14H30	000629-59-4	87
3	Tridecane	184	C13H28	000629-50-5	86
4	Tetradecane, 1-iodo-	324	C14H29I	019218-94-1	72
5	Octane, 2,4,6-trimethyl-	156	C11H24	062016-37-9	64





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

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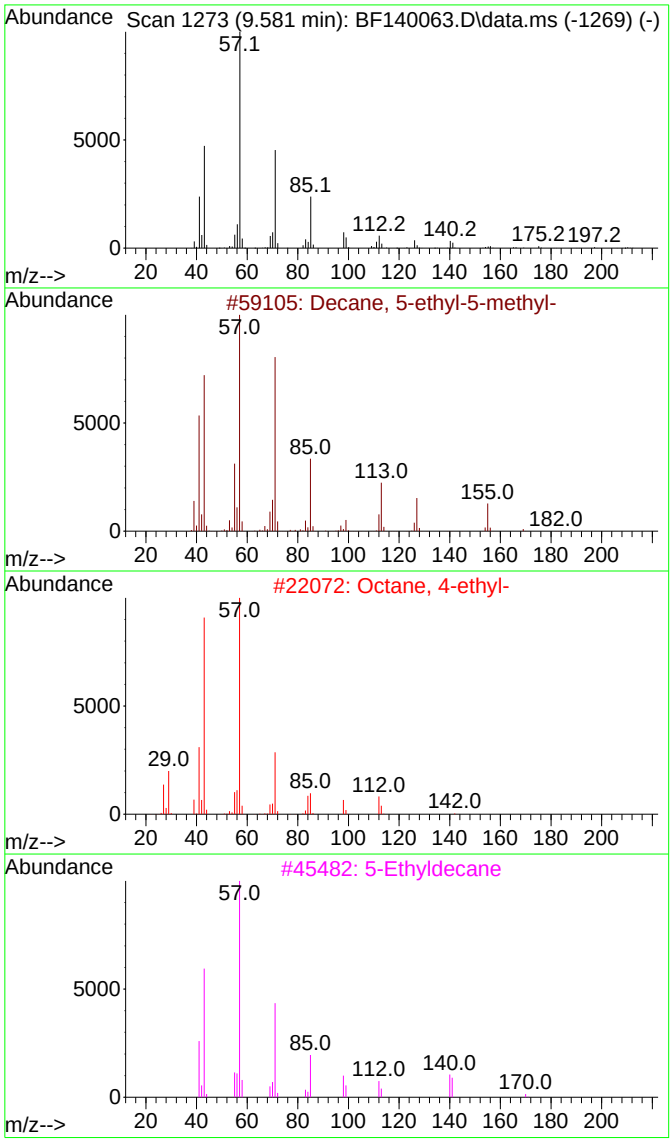
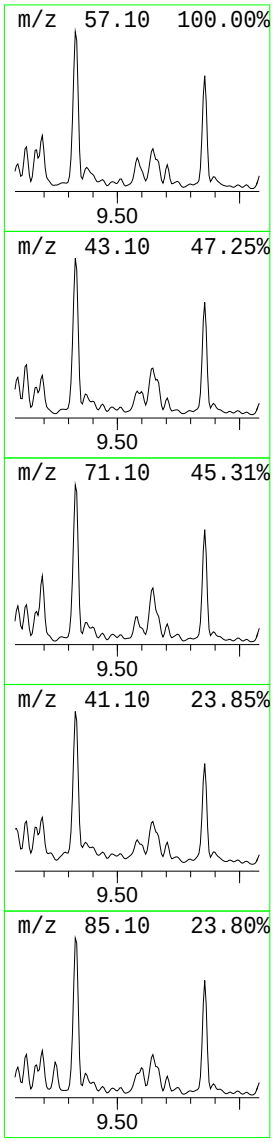
Peak Number 11 Decane, 5-ethyl-5-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.581	16.47 ng	1011590	Acenaphthene-d10	9.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 5-ethyl-5-methyl-	184	C13H28	017312-74-2	72
2	Octane, 4-ethyl-	142	C10H22	015869-86-0	64
3	5-Ethyldecane	170	C12H26	017302-36-2	64
4	Decane, 5-propyl-	184	C13H28	017312-62-8	59
5	Pentadecane, 7-methyl-	226	C16H34	006165-40-8	59





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

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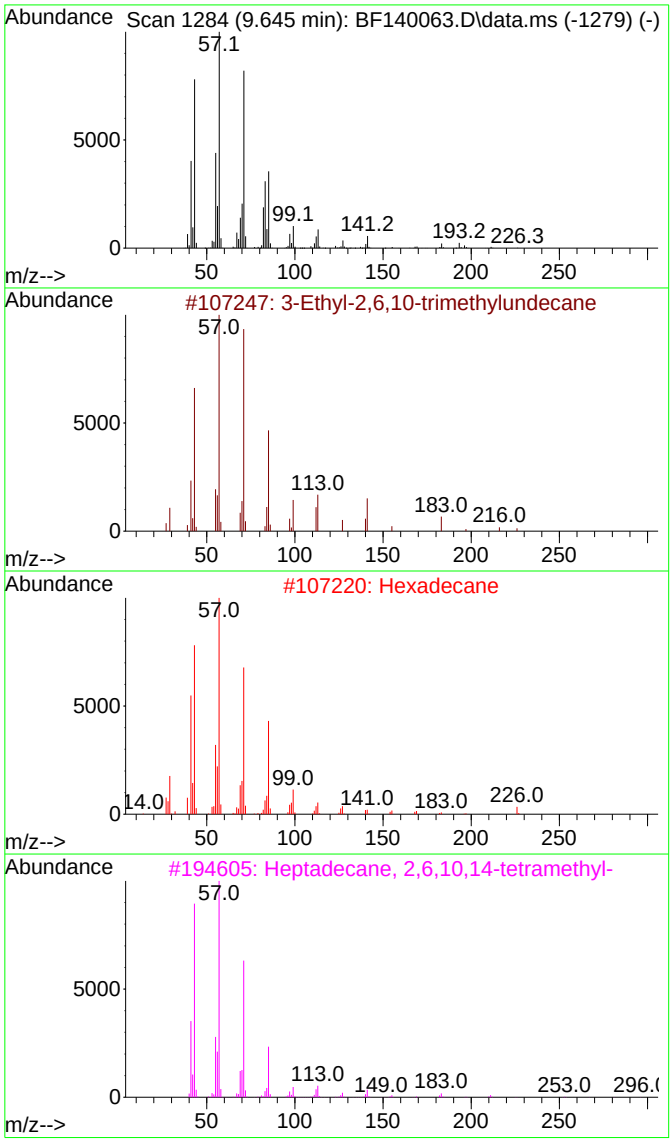
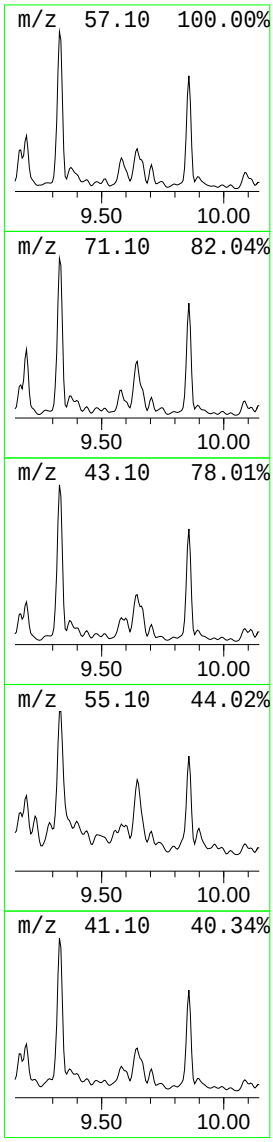
Peak Number 12 3-Ethyl-2,6,10-trimethylund... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.645	45.35 ng	2785000	Acenaphthene-d10	9.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Ethyl-2,6,10-trimethylundecane	226	C16H34	1000432-25-9	90
2	Hexadecane	226	C16H34	000544-76-3	74
3	Heptadecane, 2,6,10,14-tetramethyl-	296	C21H44	018344-37-1	72
4	2,6,10-Trimethyltridecane	226	C16H34	003891-99-4	72
5	Decane, 5-propyl-	184	C13H28	017312-62-8	70





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

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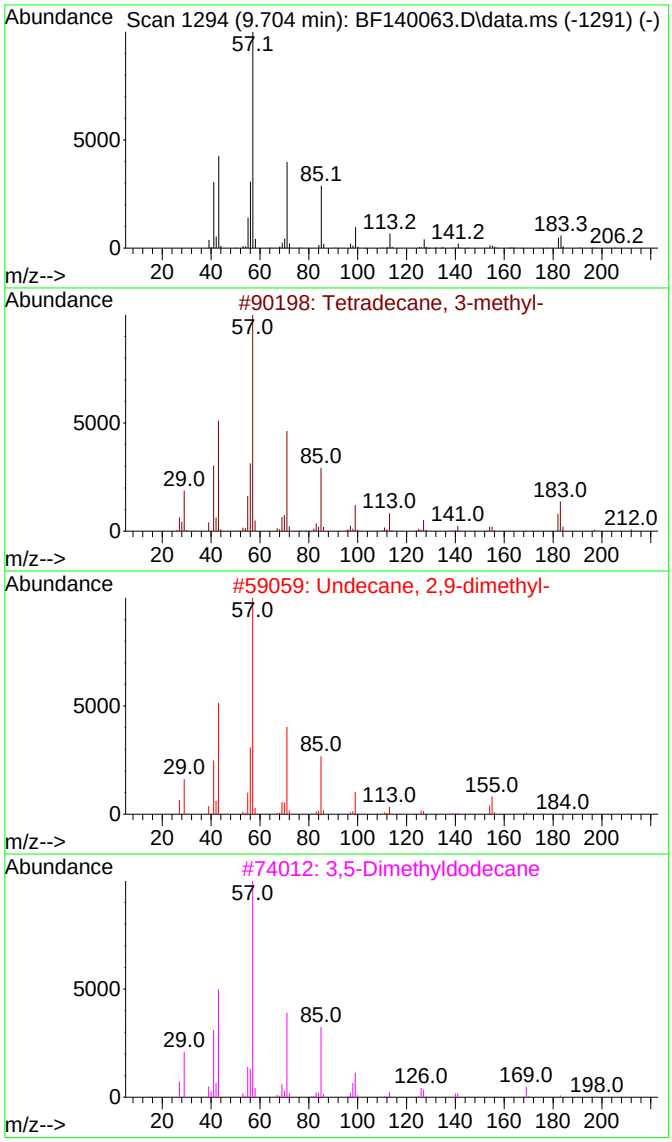
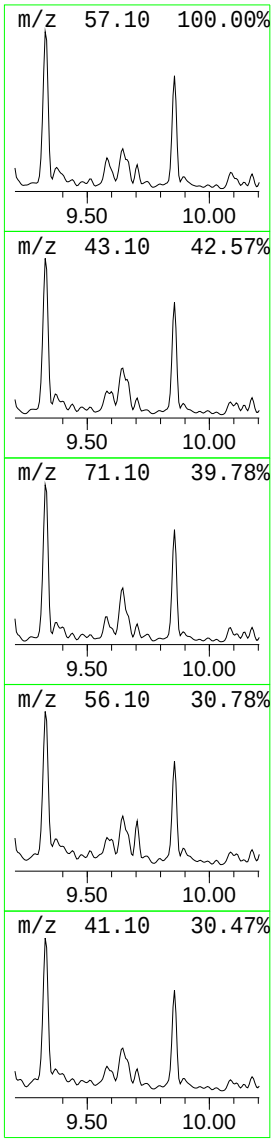
Peak Number 13 Tetradecane, 3-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.704	7.96 ng	488909	Acenaphthene-d10	9.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane, 3-methyl-	212	C15H32	018435-22-8	86
2	Undecane, 2,9-dimethyl-	184	C13H28	017301-26-7	72
3	3,5-Dimethyldodecane	198	C14H30	107770-99-0	64
4	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	64
5	Tridecane, 3-methyl-	198	C14H30	006418-41-3	64





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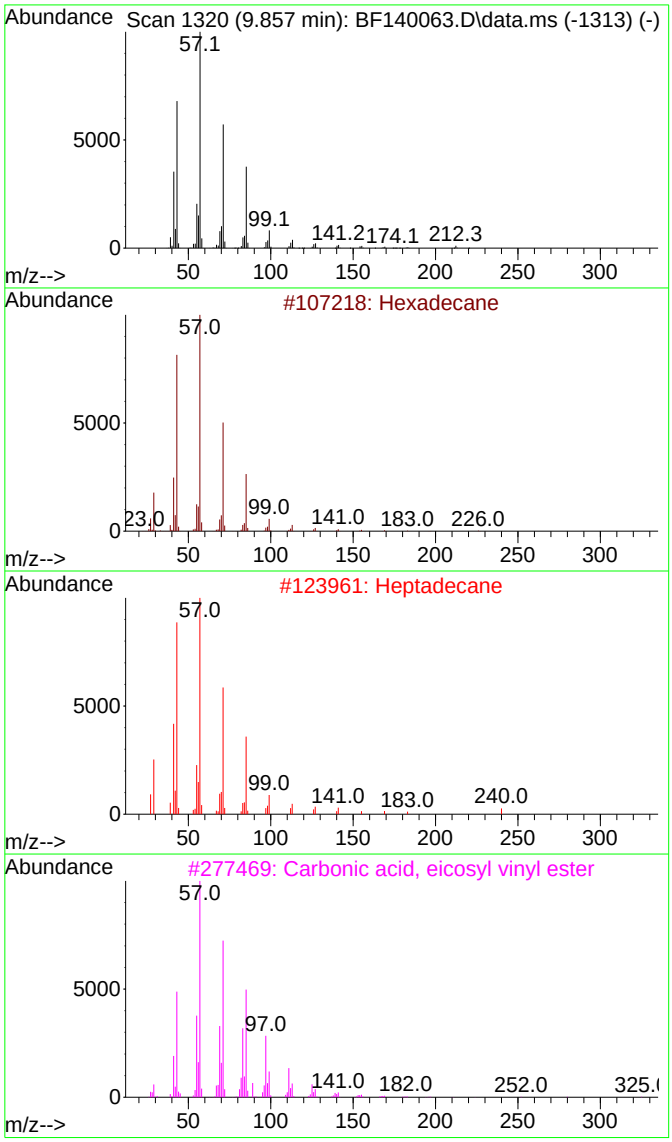
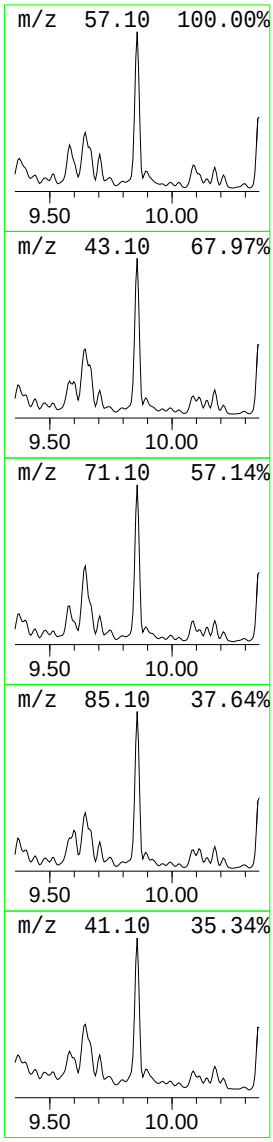
Peak Number 14 Heptadecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.857	65.99 ng	4052040	Acenaphthene-d10	9.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	91
2	Heptadecane	240	C17H36	000629-78-7	90
3	Carbonic acid, eicosyl vinyl ester	368	C23H44O3	1000382-54-3	86
4	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	80
5	Octane, 2,4,6-trimethyl-	156	C11H24	062016-37-9	64





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

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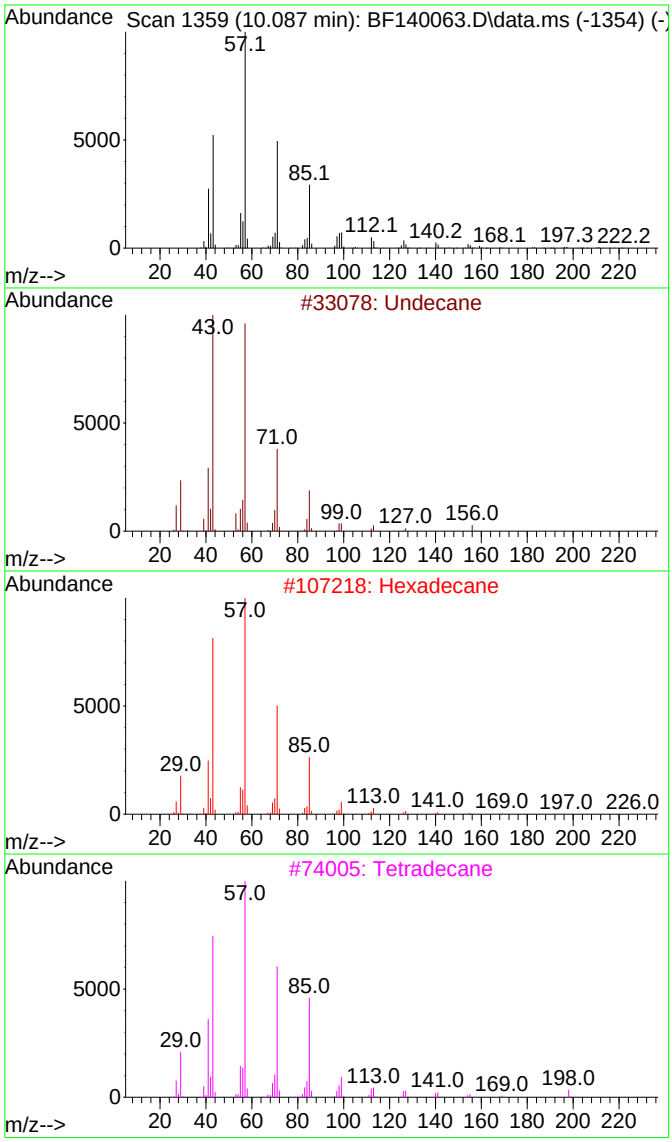
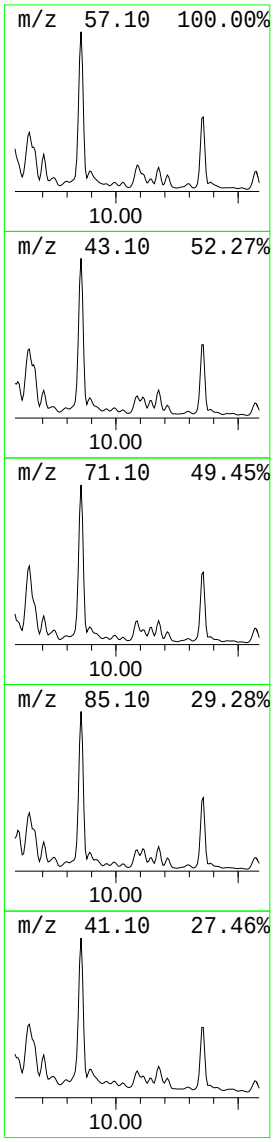
Peak Number 15 Undecane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.086	10.60 ng	651149	Acenaphthene-d10	9.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane	156	C11H24	001120-21-4	83
2	Hexadecane	226	C16H34	000544-76-3	80
3	Tetradecane	198	C14H30	000629-59-4	72
4	Nonane, 3,7-dimethyl-	156	C11H24	017302-32-8	58
5	Pentadecane	212	C15H32	000629-62-9	53





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TIC Integration Parameters: LSCINT.P

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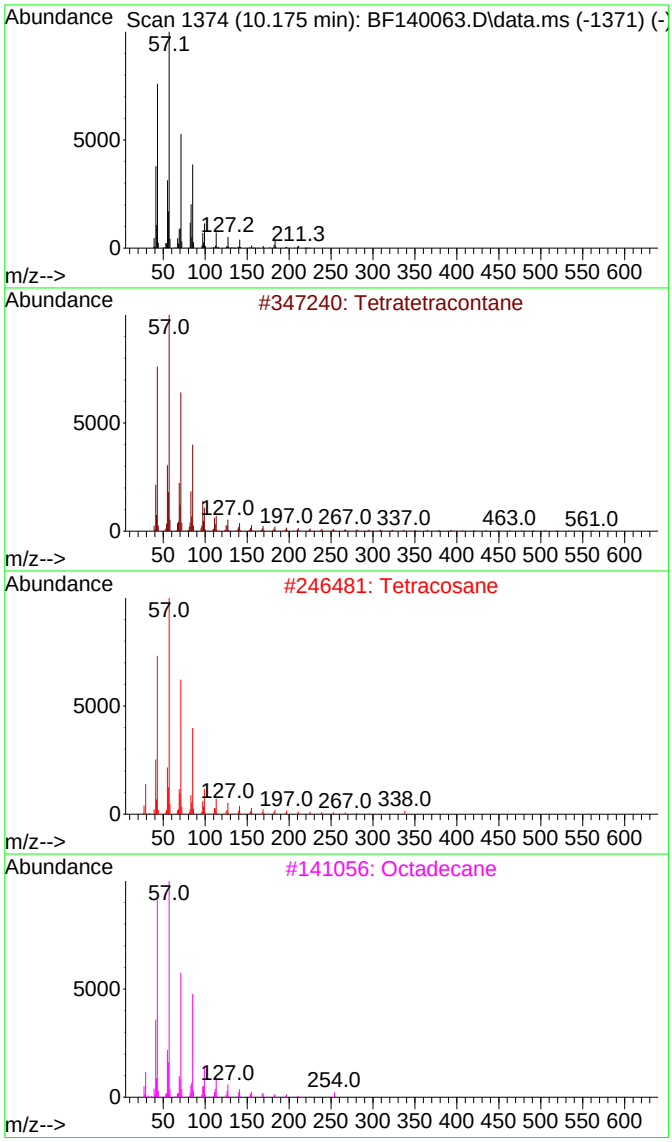
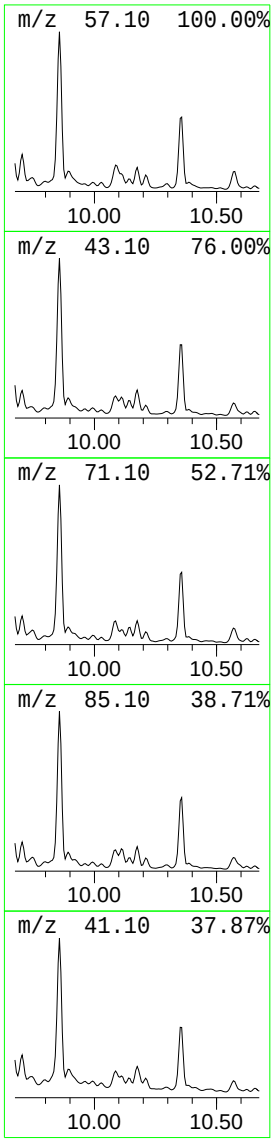
Peak Number 16 Tetratetracontane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.175	11.20 ng	687456	Acenaphthene-d10	9.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetratetracontane	619	C44H90	007098-22-8	86
2	Tetracosane	338	C24H50	000646-31-1	83
3	Octadecane	254	C18H38	000593-45-3	80
4	Octadecane, 1-iodo-	380	C18H37I	000629-93-6	80
5	Decane, 3,8-dimethyl-	170	C12H26	017312-55-9	76





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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140063.D
Acq On    : 26 Oct 2024  16:48
Operator  : RC/JU
Sample    : P4460-03
Misc      :
ALS Vial  : 15   Sample Multiplier: 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
```

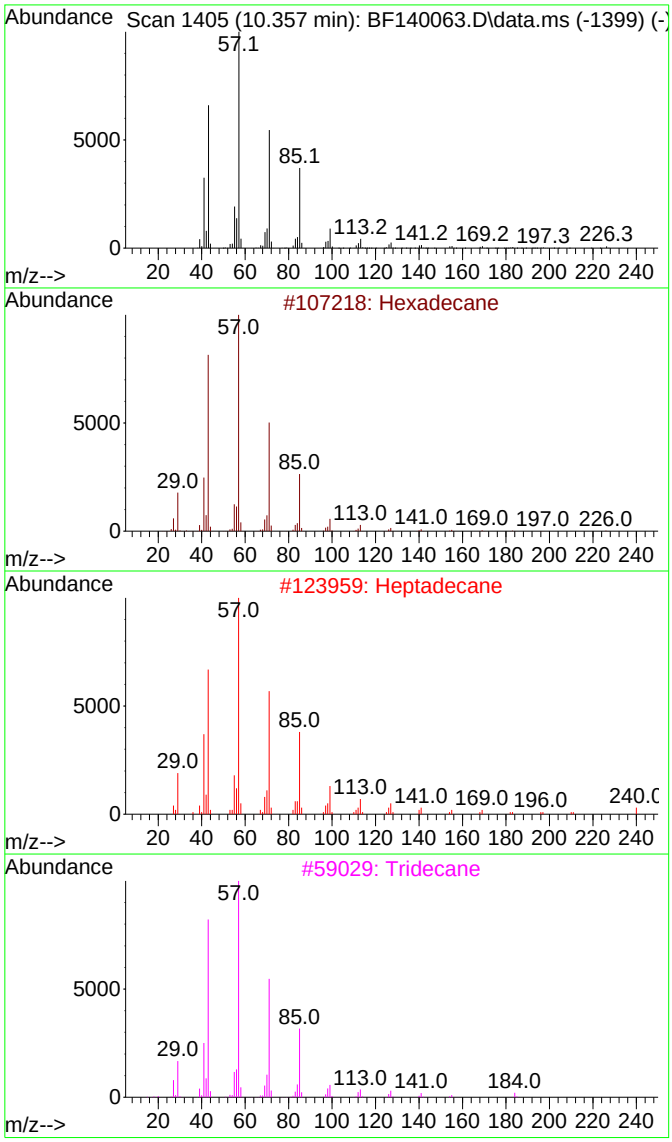
Instrument :
BNA_F
ClientSampleId :
WB-303-BOT

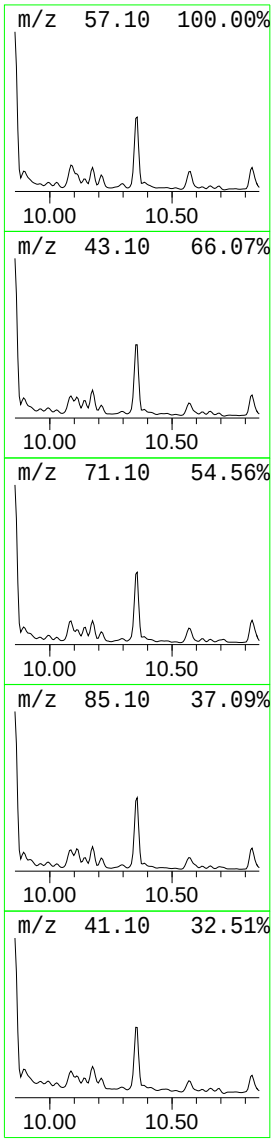
****

Peak Number 17 Tridecane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.357	28.31 ng	1738630	Acenaphthene-d10	9.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	97
2	Heptadecane	240	C17H36	000629-78-7	90
3	Tridecane	184	C13H28	000629-50-5	90
4	Pentadecane, 7-methyl-	226	C16H34	006165-40-8	83
5	Sulfurous acid, 2-ethylhexyl hex...	278	C14H30O3S	1000309-20-2	80





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140063.D
Acq On : 26 Oct 2024 16:48
Operator : RC/JU
Sample : P4460-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-BOT

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

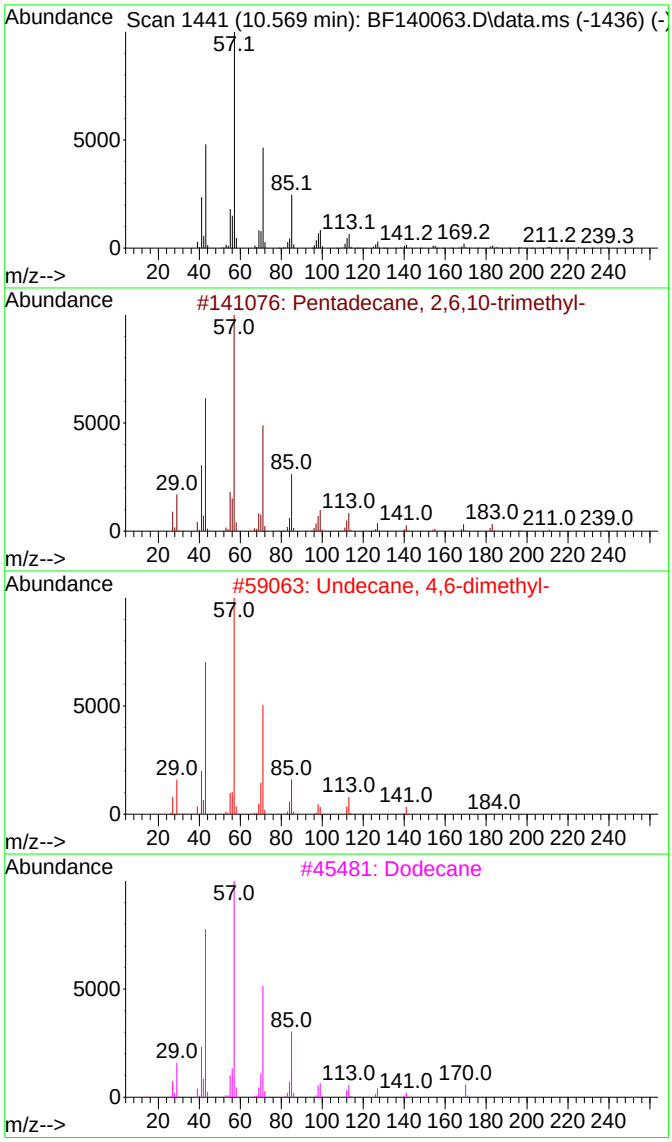
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

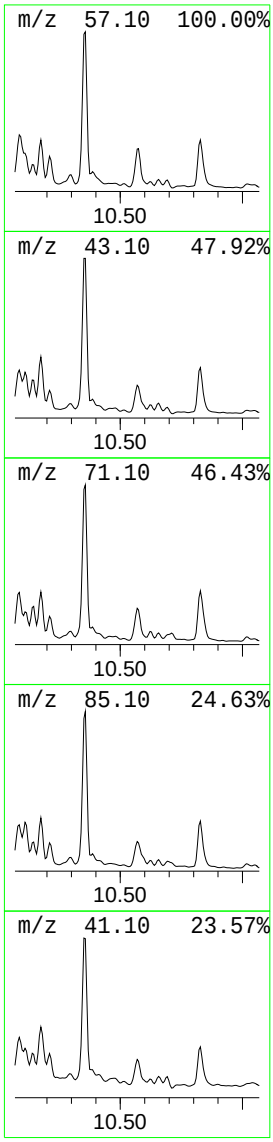
****

Peak Number 18 Pentadecane, 2,6,10-trimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.569	8.37 ng	514269	Acenaphthene-d10	9.928

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane, 2,6,10-trimethyl-	254	C18H38	003892-00-0	91
2	Undecane, 4,6-dimethyl-	184	C13H28	017312-82-2	87
3	Dodecane	170	C12H26	000112-40-3	80
4	Heptacosane	380	C27H56	000593-49-7	80
5	Hexadecane	226	C16H34	000544-76-3	80





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140063.D
Acq On : 26 Oct 2024 16:48
Operator : RC/JU
Sample : P4460-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-BOT

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

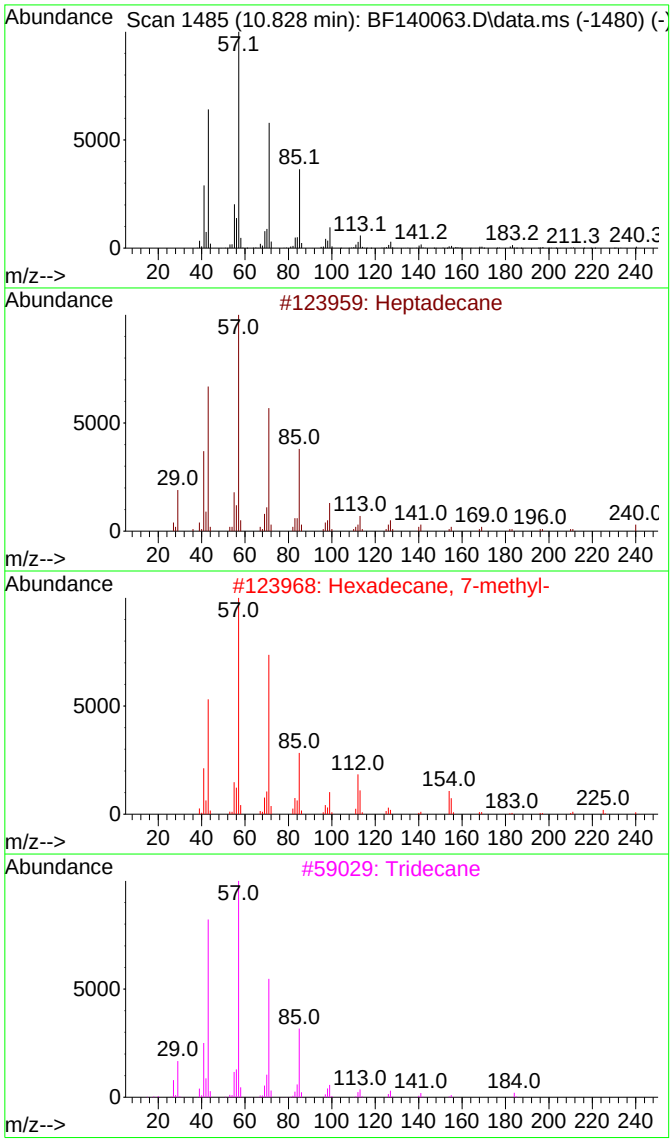
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

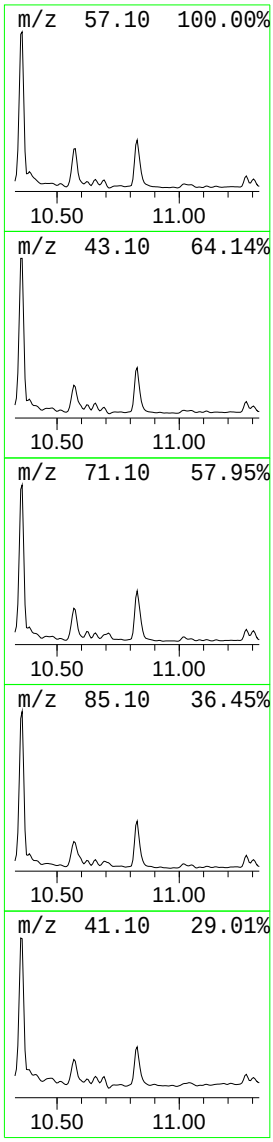
****

Peak Number 19 Hexadecane, 7-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.828	12.13 ng	647723	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane	240	C17H36	000629-78-7	97
2	Hexadecane, 7-methyl-	240	C17H36	026730-20-1	90
3	Tridecane	184	C13H28	000629-50-5	90
4	Hexadecane	226	C16H34	000544-76-3	90
5	Tetracosane	338	C24H50	000646-31-1	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140063.D
Acq On : 26 Oct 2024 16:48
Operator : RC/JU
Sample : P4460-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-BOT

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

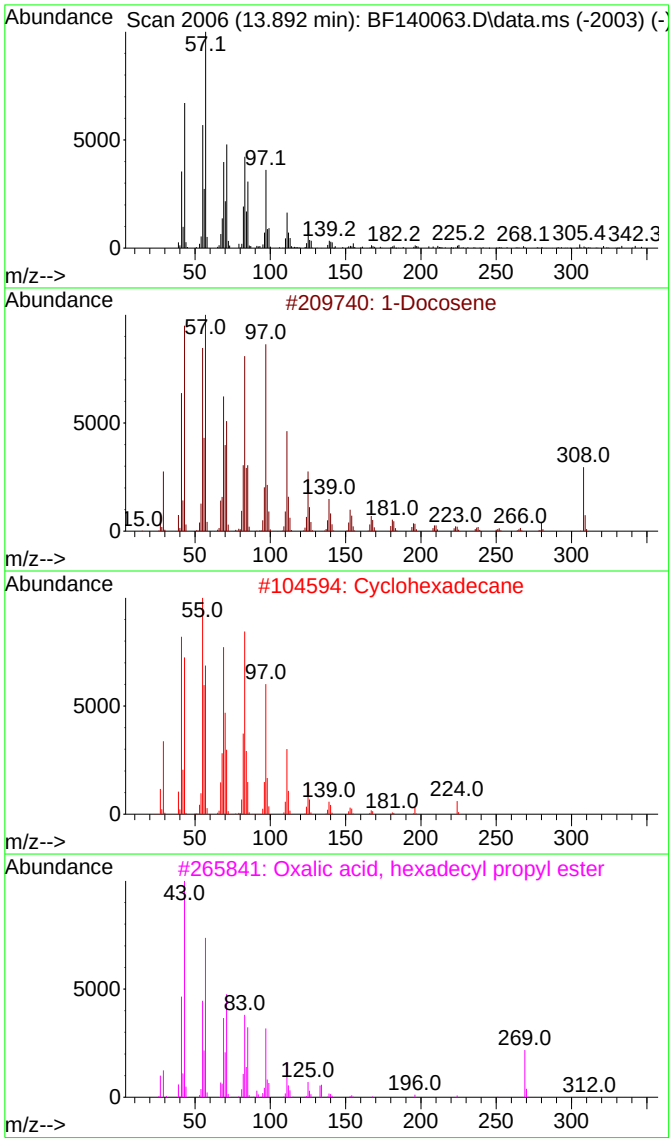
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

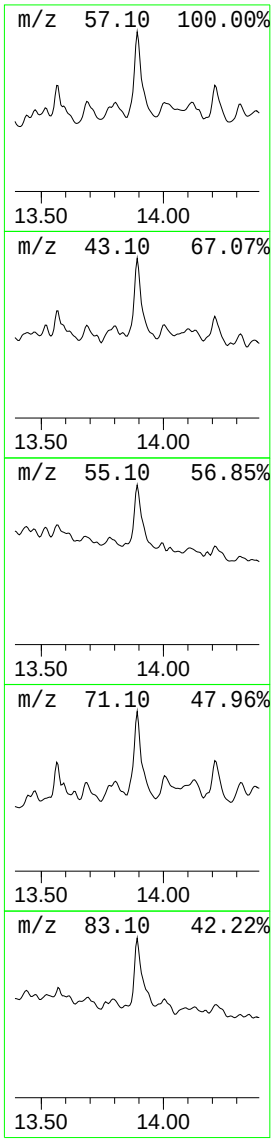
****

Peak Number 20 1-Docosene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.892	12.82 ng	371015	Chrysene-d12	14.051

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosene	308	C22H44	001599-67-3	95
2	Cyclohexadecane	224	C16H32	000295-65-8	94
3	Oxalic acid, hexadecyl propyl ester	356	C21H40O4	1000309-26-9	91
4	Ethanol, 2-(tetradecyloxy)-	258	C16H34O2	002136-70-1	91
5	Octacosyl heptafluorobutyrate	606	C32H57F7O2	1010351-83-6	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140063.D
Acq On : 26 Oct 2024 16:48
Operator : RC/JU
Sample : P4460-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.216	91.0	ng	3690550	1	6.887	811483	20.0
2-Pentanone, 4-...	5.128	7.3	ng	297618	1	6.887	811483	20.0
Benzene, 2-ethe...	7.910	8.6	ng	2270230	2	8.169	5282280	20.0
Undecane, 2,6-d...	8.469	8.9	ng	2363530	2	8.169	5282280	20.0
Dodecane, 2,6,1...	8.592	11.7	ng	3086280	2	8.169	5282280	20.0
Nonadecane	8.763	24.9	ng	6581540	2	8.169	5282280	20.0
Heptacosane	9.128	17.0	ng	1043740	3	9.928	1228120	20.0
Decane, 3,8-dim...	9.169	14.3	ng	874818	3	9.928	1228120	20.0
Nonane, 2,6-dim...	9.192	22.1	ng	1359040	3	9.928	1228120	20.0
Hexadecane	9.328	93.4	ng	5738020	3	9.928	1228120	20.0
Decane, 5-ethyl...	9.581	16.5	ng	1011590	3	9.928	1228120	20.0
3-Ethyl-2,6,10-...	9.645	45.4	ng	2785000	3	9.928	1228120	20.0
Tetradecane, 3-...	9.704	8.0	ng	488909	3	9.928	1228120	20.0
Heptadecane	9.857	66.0	ng	4052040	3	9.928	1228120	20.0
Undecane	10.086	10.6	ng	651149	3	9.928	1228120	20.0
Tetratetracontane	10.175	11.2	ng	687456	3	9.928	1228120	20.0
Tridecane	10.357	28.3	ng	1738630	3	9.928	1228120	20.0
Pentadecane, 2,...	10.569	8.4	ng	514269	3	9.928	1228120	20.0
Hexadecane, 7-m...	10.828	12.1	ng	647723	4	11.410	1068280	20.0
1-Docosene	13.892	12.8	ng	371015	5	14.051	578612	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102524\
Data File : BM048238.D
Acq On : 25 Oct 2024 16:21
Operator : RC/JU
Sample : P4460-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
WB-303-SW

Quant Time: Oct 25 17:20:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 23 18:21:59 2024
Response via : Initial Calibration

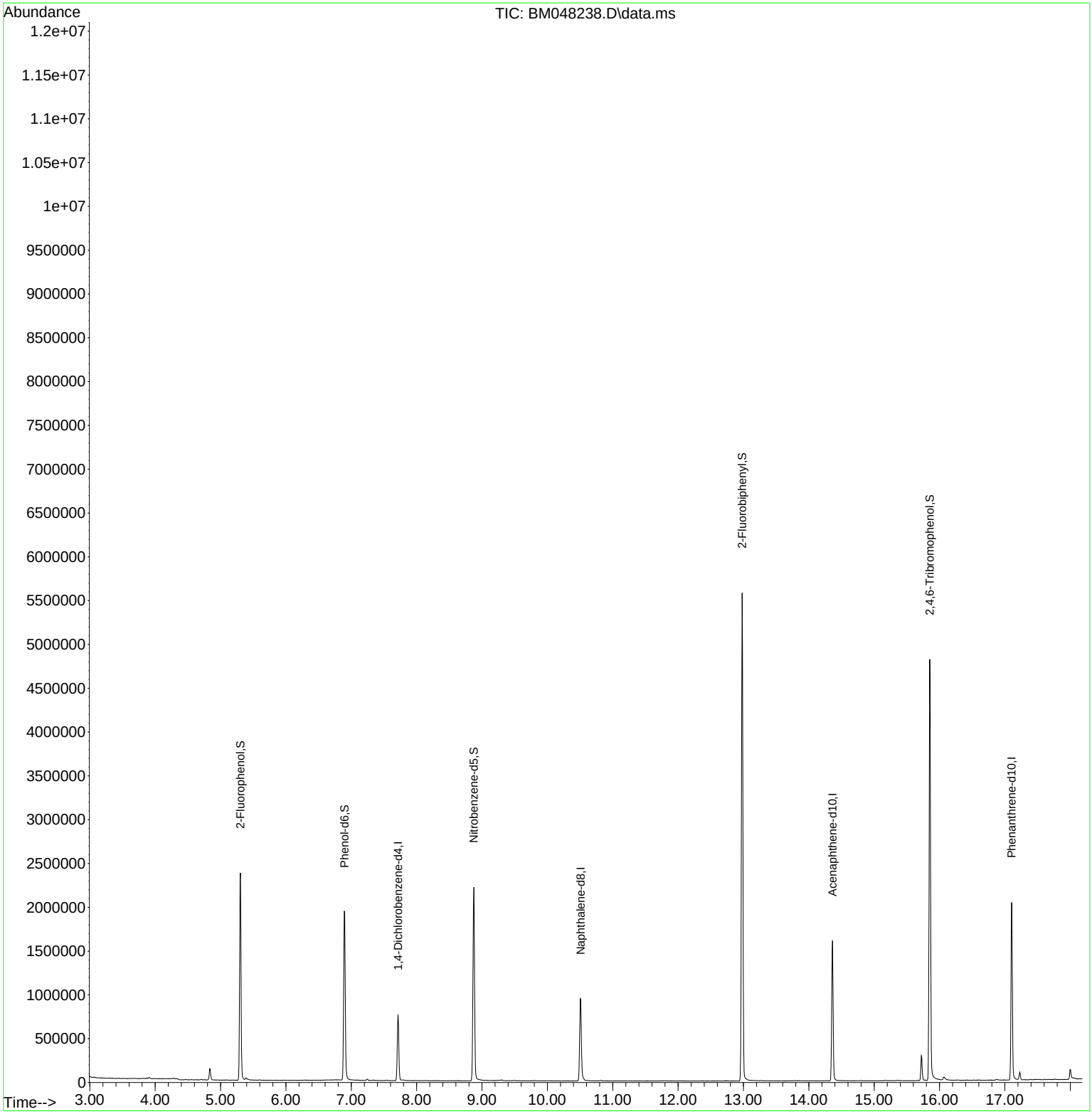
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.716	152	214014	20.000	ng	0.00
21) Naphthalene-d8	10.510	136	870137	20.000	ng	0.00
39) Acenaphthene-d10	14.363	164	580161	20.000	ng	0.00
64) Phenanthrene-d10	17.104	188	1247446	20.000	ng	0.00
76) Chrysene-d12	21.327	240	1150084	20.000	ng	-0.01
86) Perylene-d12	24.280	264	1229812	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.305	112	1072257	84.219	ng	0.00
7) Phenol-d6	6.899	99	1211255	73.051	ng	0.00
23) Nitrobenzene-d5	8.875	82	1316356	85.418	ng	0.00
42) 2,4,6-Tribromophenol	15.851	330	957777	134.875	ng	0.00
45) 2-Fluorobiphenyl	12.981	172	3048150	80.622	ng	0.00
79) Terphenyl-d14	19.733	244	5159936	91.559	ng	0.00
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102524\
Data File : BM048238.D
Acq On : 25 Oct 2024 16:21
Operator : RC/JU
Sample : P4460-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
WB-303-SW

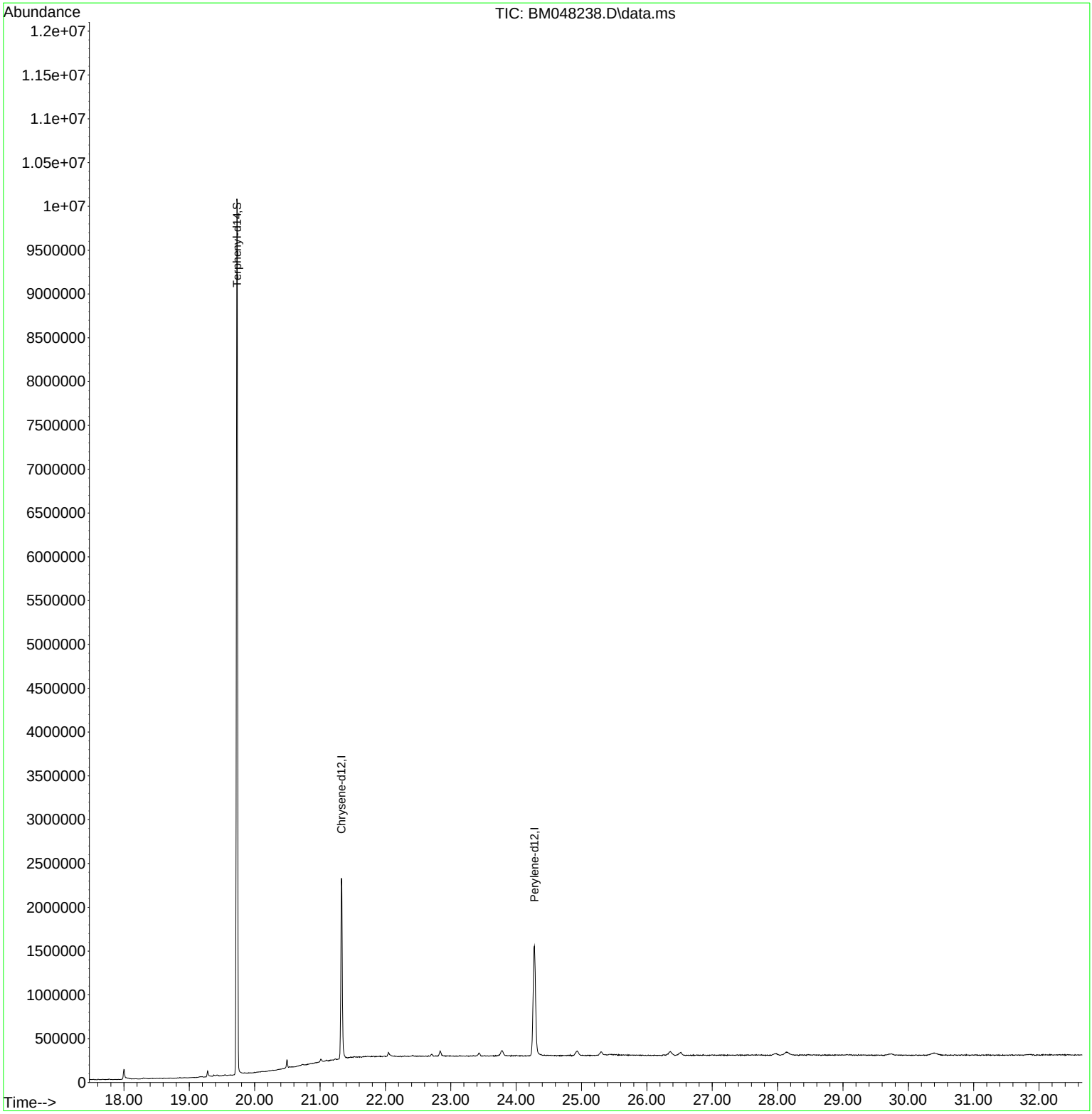
Quant Time: Oct 25 17:20:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 23 18:21:59 2024
Response via : Initial Calibration

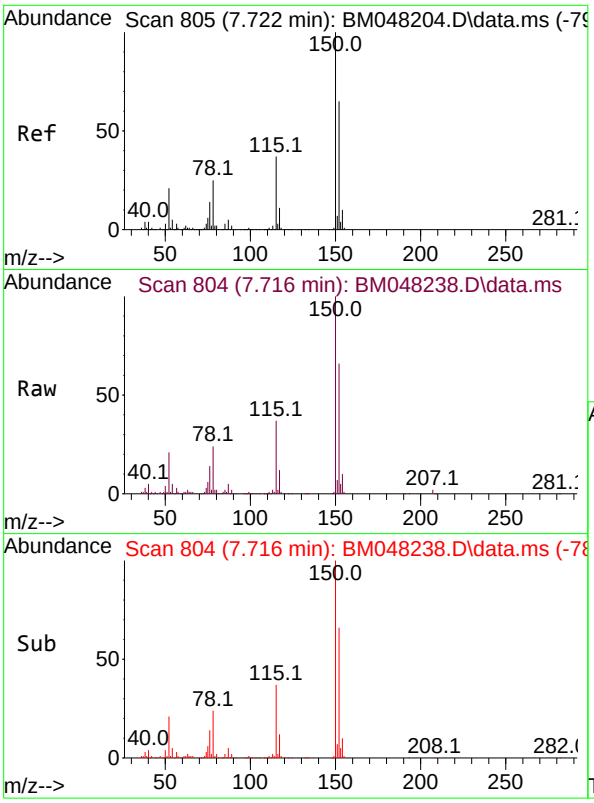


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102524\
Data File : BM048238.D
Acq On : 25 Oct 2024 16:21
Operator : RC/JU
Sample : P4460-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
WB-303-SW

Quant Time: Oct 25 17:20:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 23 18:21:59 2024
Response via : Initial Calibration



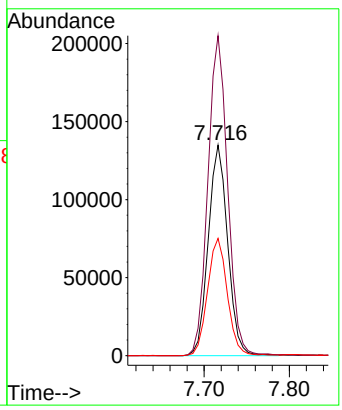


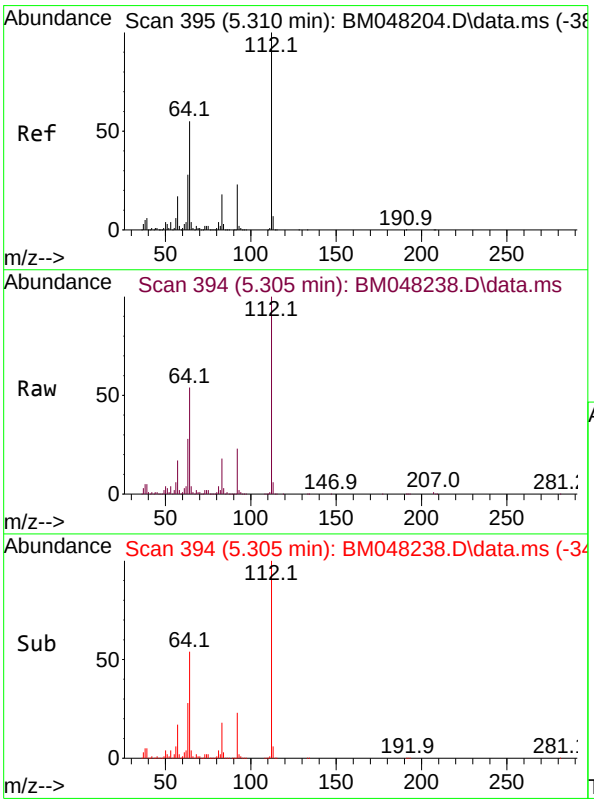
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.716 min Scan# 8
Delta R.T. -0.006 min
Lab File: BM048238.D
Acq: 25 Oct 2024 16:21

Instrument :
BNA_M
ClientSampleId :
WB-303-SW

Tgt Ion:152 Resp: 214014

Ion	Ratio	Lower	Upper
152	100		
150	152.0	123.0	184.6
115	55.7	45.8	68.6

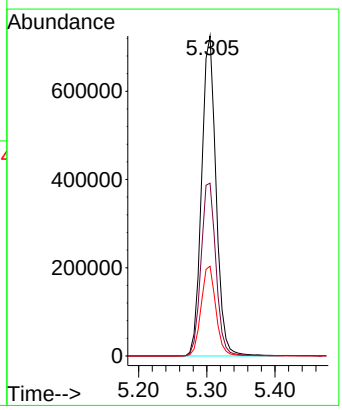


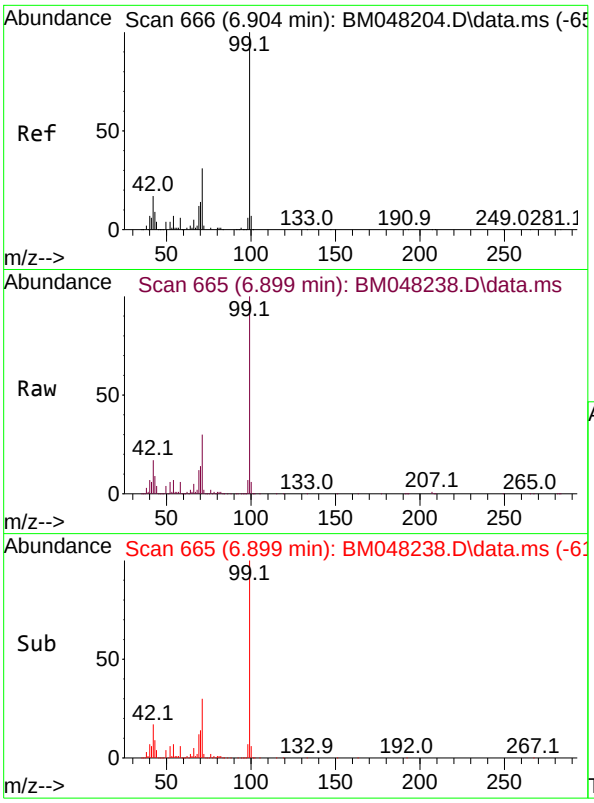


#5
2-Fluorophenol
Concen: 84.219 ng
RT: 5.305 min Scan# 394
Delta R.T. -0.005 min
Lab File: BM048238.D
Acq: 25 Oct 2024 16:21

Tgt Ion:112 Resp: 1072257

Ion	Ratio	Lower	Upper
112	100		
64	54.0	44.2	66.2
63	28.1	22.7	34.1



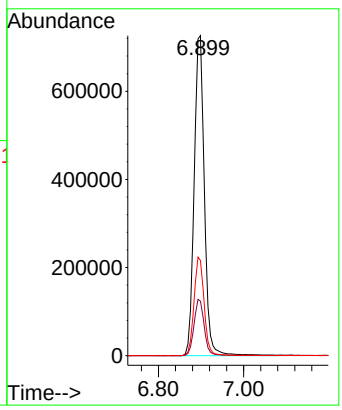


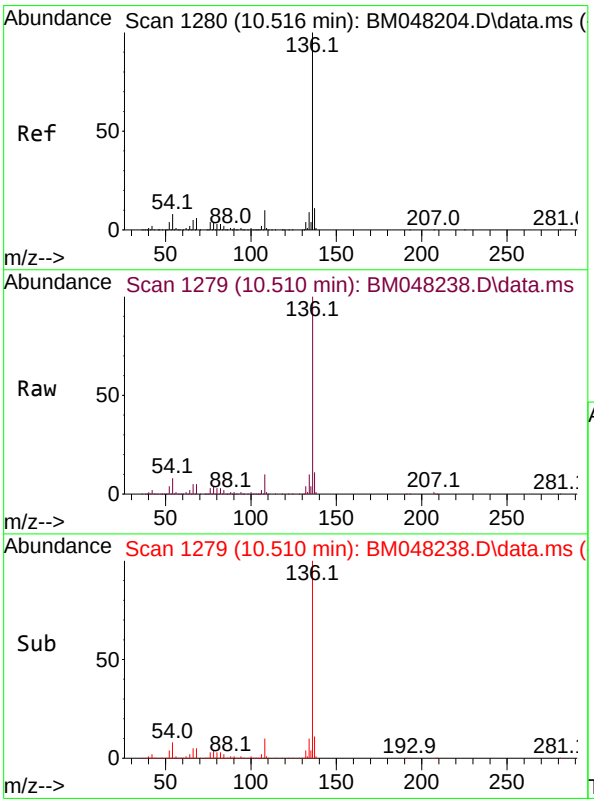
#7
Phenol-d6
Concen: 73.051 ng
RT: 6.899 min Scan# 6
Delta R.T. -0.005 min
Lab File: BM048238.D
Acq: 25 Oct 2024 16:21

Instrument :
BNA_M
ClientSampleId :
WB-303-SW

Tgt Ion: 99 Resp: 1211255

Ion	Ratio	Lower	Upper
99	100		
42	17.1	13.8	20.8
71	29.7	24.9	37.3

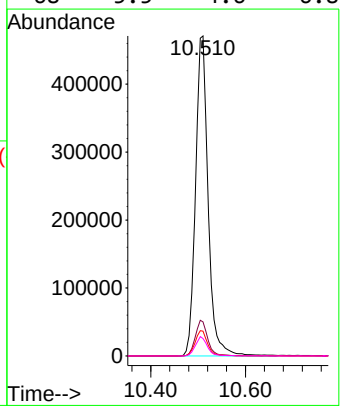


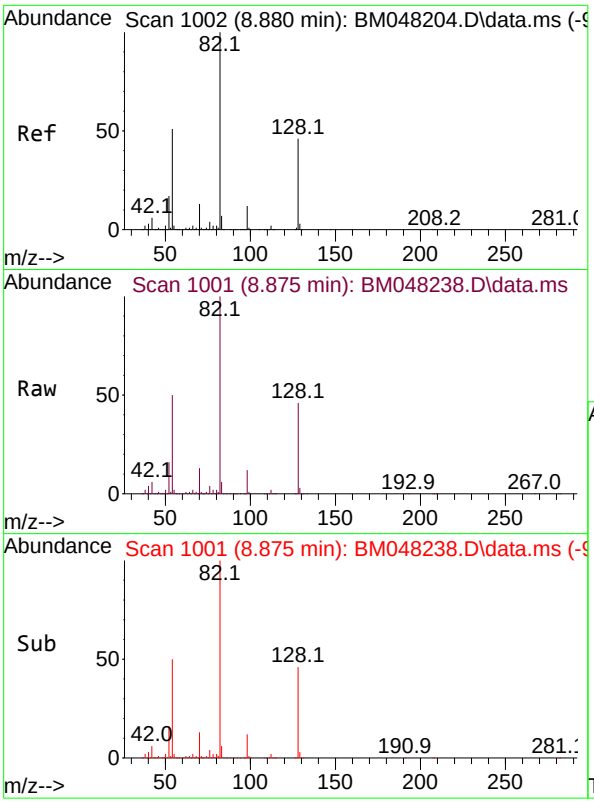


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.510 min Scan# 1279
Delta R.T. -0.005 min
Lab File: BM048238.D
Acq: 25 Oct 2024 16:21

Tgt Ion:136 Resp: 870137

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	7.8	6.5	9.7
68	5.5	4.6	6.8



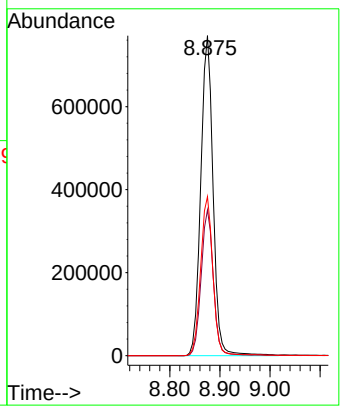


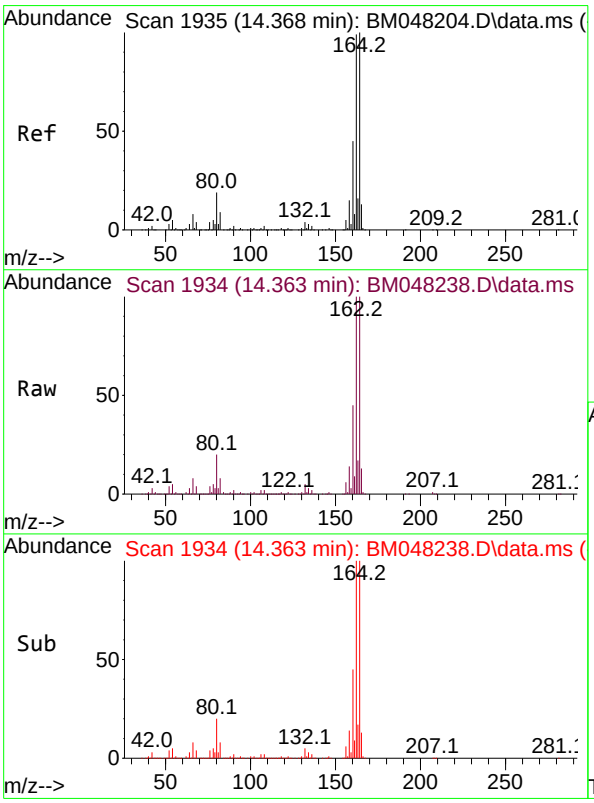
#23
Nitrobenzene-d5
Concen: 85.418 ng
RT: 8.875 min Scan# 1(
Delta R.T. -0.005 min
Lab File: BM048238.D
Acq: 25 Oct 2024 16:21

Instrument :
BNA_M
ClientSampleId :
WB-303-SW

Tgt Ion: 82 Resp: 1316356

Ion	Ratio	Lower	Upper
82	100		
128	45.6	36.6	54.8
54	49.7	41.0	61.4

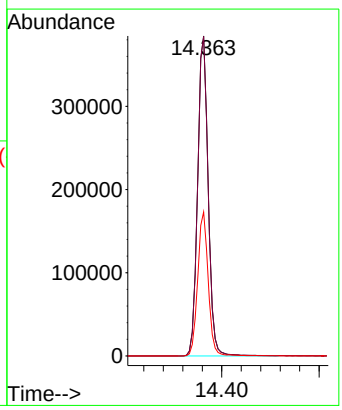


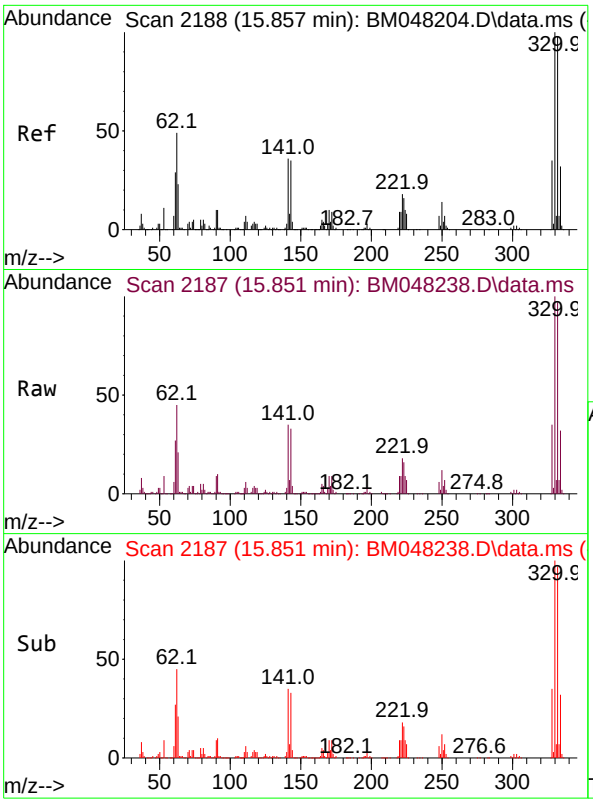


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.363 min Scan# 1934
Delta R.T. -0.005 min
Lab File: BM048238.D
Acq: 25 Oct 2024 16:21

Tgt Ion:164 Resp: 580161

Ion	Ratio	Lower	Upper
164	100		
162	99.8	79.1	118.7
160	45.0	35.8	53.8



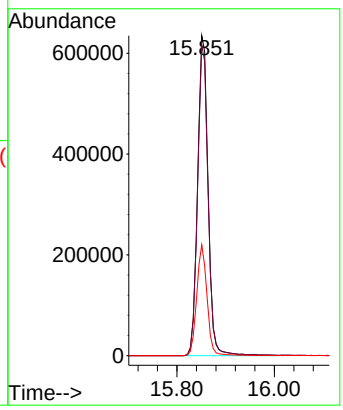


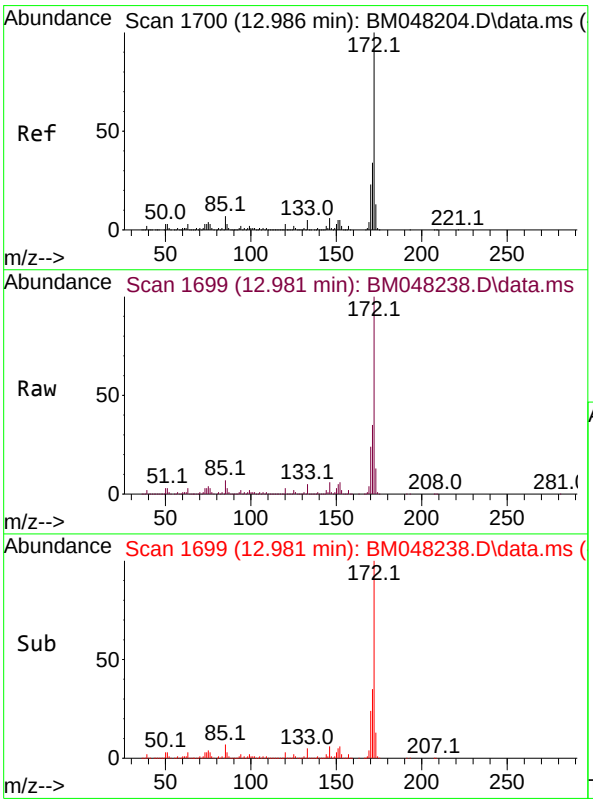
#42
2,4,6-Tribromophenol
Concen: 134.875 ng
RT: 15.851 min Scan# 21
Delta R.T. -0.005 min
Lab File: BM048238.D
Acq: 25 Oct 2024 16:21

Instrument :
BNA_M
ClientSampleId :
WB-303-SW

Tgt Ion:330 Resp: 957777

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.5	116.3
141	34.0	27.5	41.3

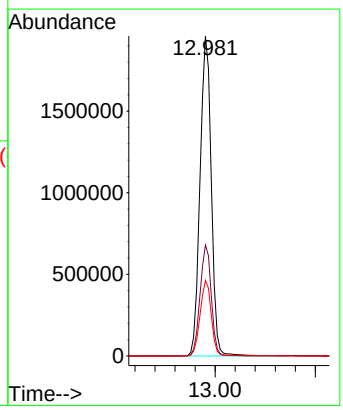


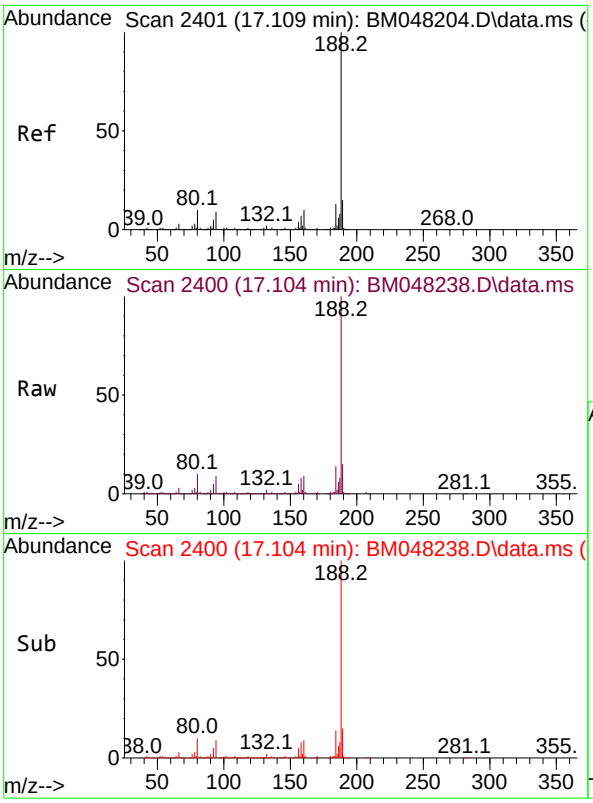


#45
2-Fluorobiphenyl
Concen: 80.622 ng
RT: 12.981 min Scan# 1699
Delta R.T. -0.005 min
Lab File: BM048238.D
Acq: 25 Oct 2024 16:21

Tgt Ion:172 Resp: 3048150

Ion	Ratio	Lower	Upper
172	100		
171	34.7	27.4	41.0
170	23.6	18.5	27.7



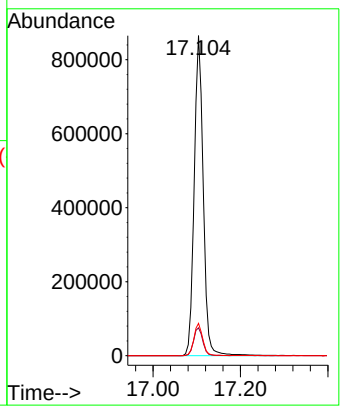


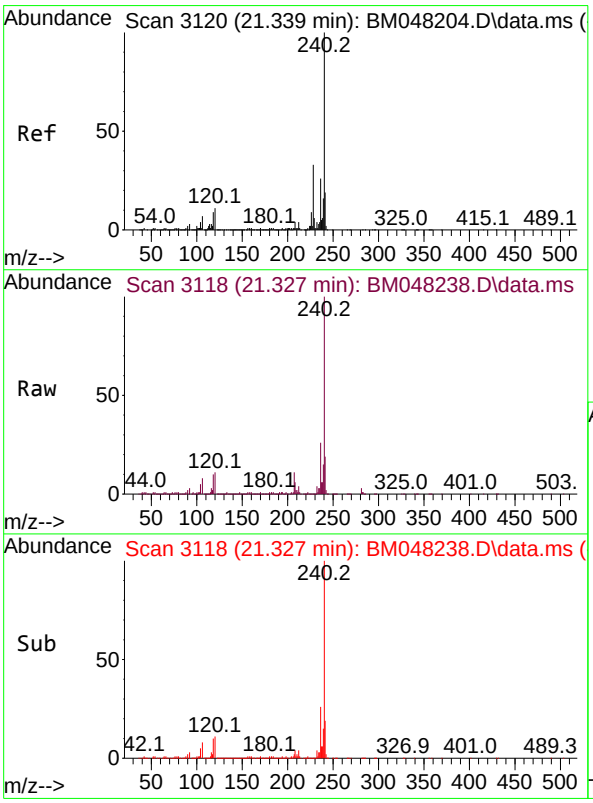
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.104 min Scan# 24
Delta R.T. -0.005 min
Lab File: BM048238.D
Acq: 25 Oct 2024 16:21

Instrument :
BNA_M
ClientSampleId :
WB-303-SW

Tgt Ion:188 Resp: 1247446

Ion	Ratio	Lower	Upper
188	100		
94	8.7	7.3	10.9
80	10.1	8.0	12.0

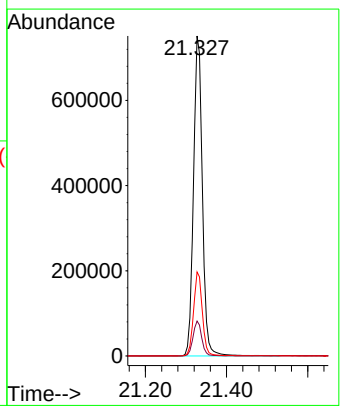


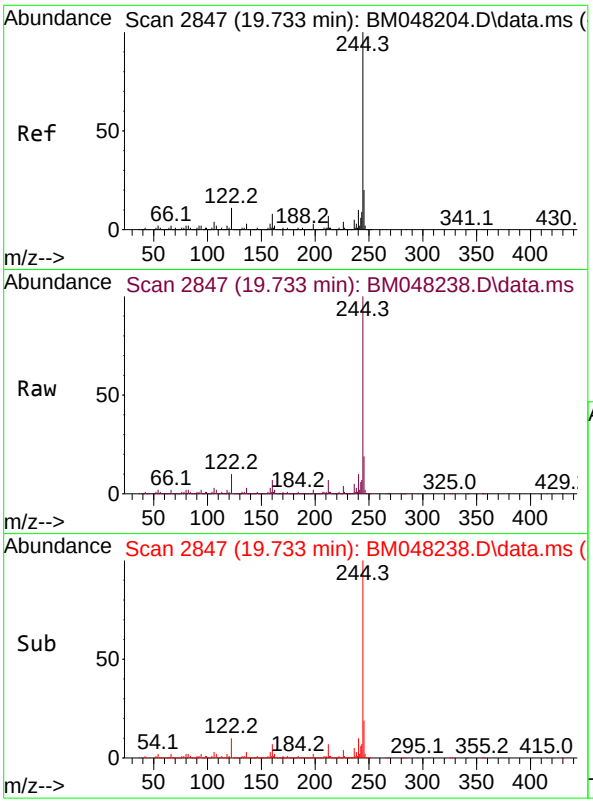


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.327 min Scan# 3118
Delta R.T. -0.011 min
Lab File: BM048238.D
Acq: 25 Oct 2024 16:21

Tgt Ion:240 Resp: 1150084

Ion	Ratio	Lower	Upper
240	100		
120	10.9	8.6	13.0
236	26.3	20.7	31.1



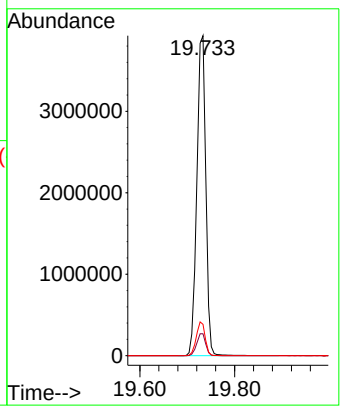


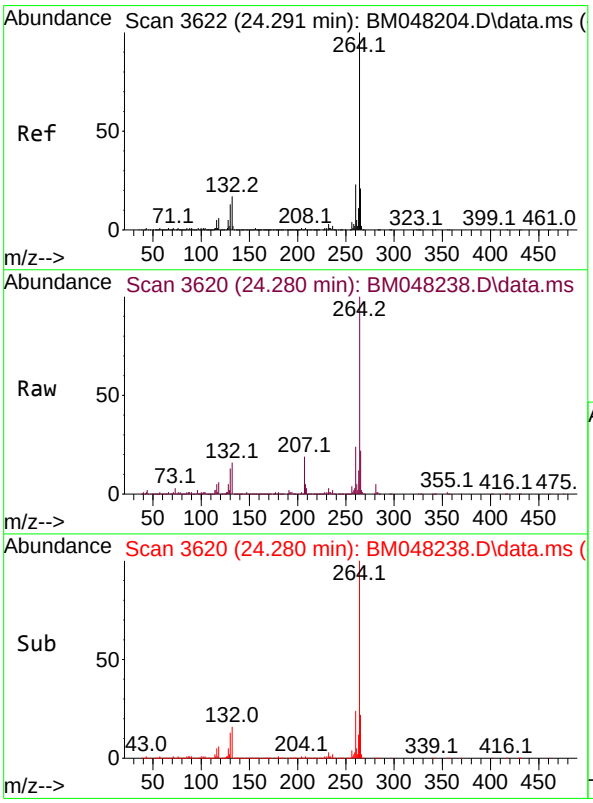
#79
Terphenyl-d14
Concen: 91.559 ng
RT: 19.733 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM048238.D
Acq: 25 Oct 2024 16:21

Instrument :
BNA_M
ClientSampleId :
WB-303-SW

Tgt Ion:244 Resp: 5159936

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.6	8.4
122	9.8	8.8	13.2

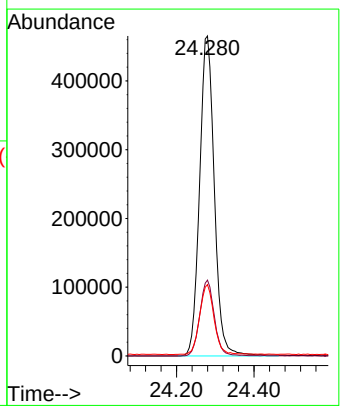




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.280 min Scan# 3620
Delta R.T. -0.011 min
Lab File: BM048238.D
Acq: 25 Oct 2024 16:21

Tgt Ion:264 Resp: 1229812

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.6	27.8
265	22.3	17.4	26.2



Sample Results: **BM048238.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102524\
Data File : BM048238.D
Acq On : 25 Oct 2024 16:21
Operator : RC/JU
Sample : P4460-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
WB-303-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_M\Methods\8270-BM102324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM048238.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.834	308	314	325	rVB	130927	208716	1.56%	0.377%
2	5.305	387	394	405	rBV	2364539	3558615	26.64%	6.426%
3	6.893	656	664	679	rBV	1925312	3248141	24.31%	5.866%
4	7.716	797	804	812	rBV	753795	1217650	9.11%	2.199%
5	8.875	992	1001	1014	rBV	2211319	3772599	28.24%	6.813%
6	10.504	1268	1278	1291	rBV	941822	1742255	13.04%	3.146%
7	12.981	1692	1699	1717	rBV	5570296	8616290	64.49%	15.560%
8	14.363	1925	1934	1947	rBV	1603286	2445054	18.30%	4.415%
9	15.722	2160	2165	2173	rBV	282406	411602	3.08%	0.743%
10	15.851	2180	2187	2210	rBV	4807555	7295481	54.61%	13.174%
11	17.104	2393	2400	2412	rBV	2026327	2928465	21.92%	5.288%
12	17.998	2547	2552	2558	rBV	113571	185490	1.39%	0.335%
13	19.727	2840	2846	2858	rBV	9998151	13360307	100.00%	24.127%
14	21.327	3113	3118	3130	rVB2	2051498	3175920	23.77%	5.735%
15	24.280	3612	3620	3635	rVB	1240770	3209344	24.02%	5.796%

Sum of corrected areas: 55375929

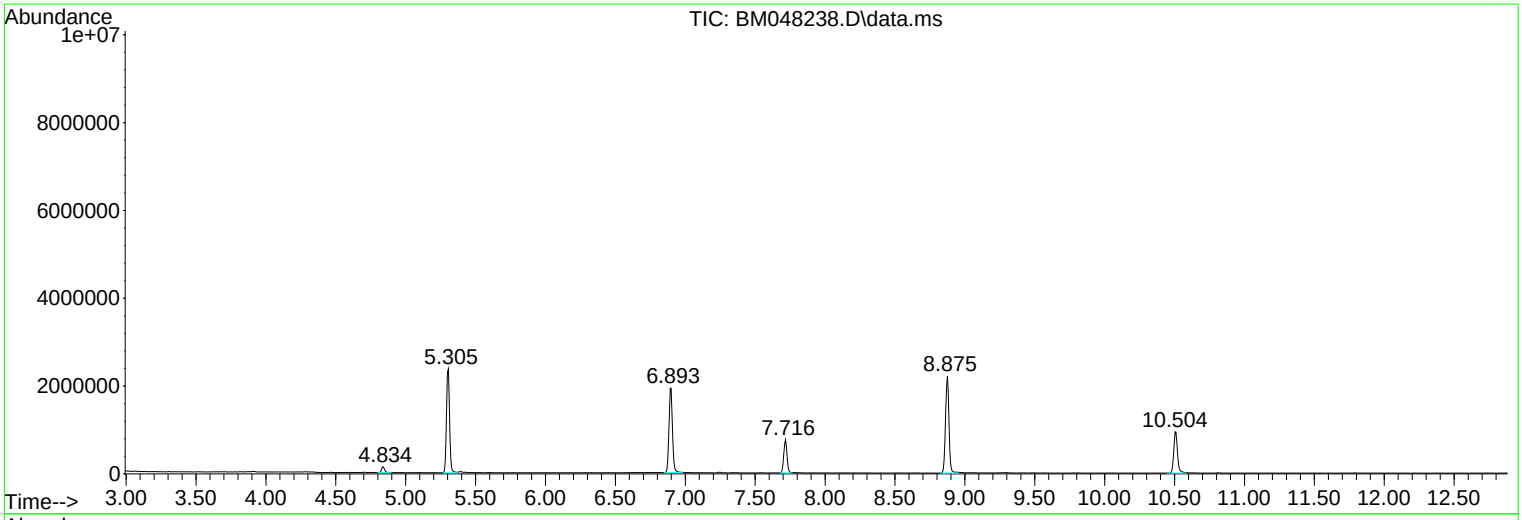
Sample Results: **BM048238.D**

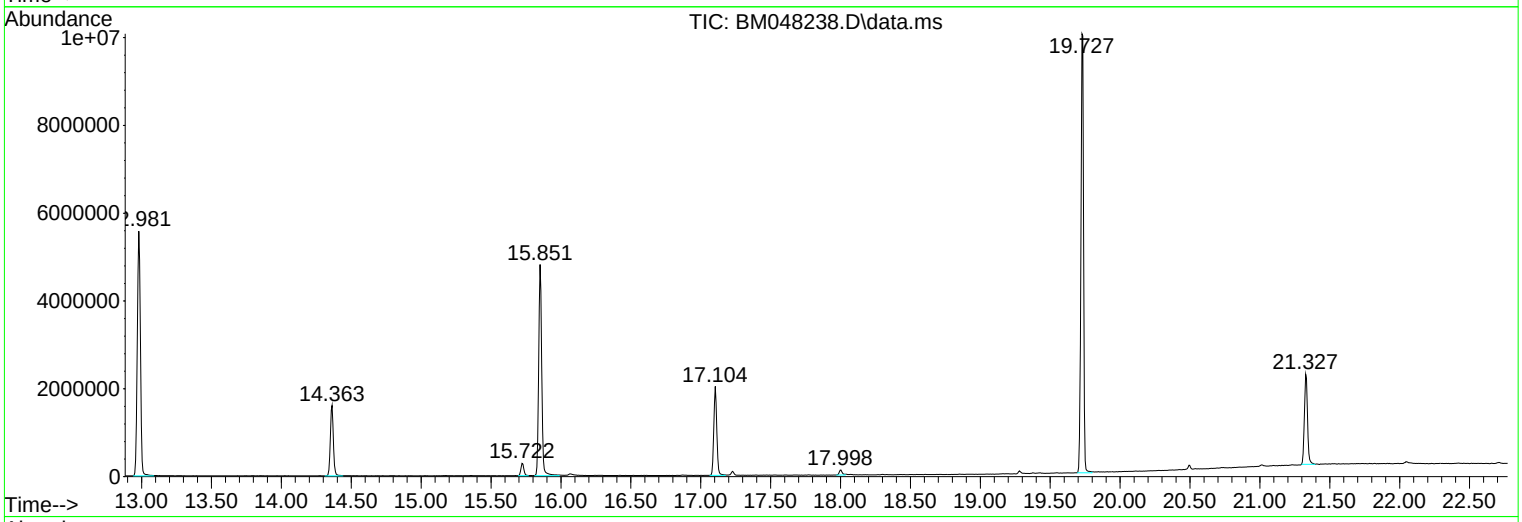
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102524\
Data File : BM048238.D
Acq On : 25 Oct 2024 16:21
Operator : RC/JU
Sample : P4460-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

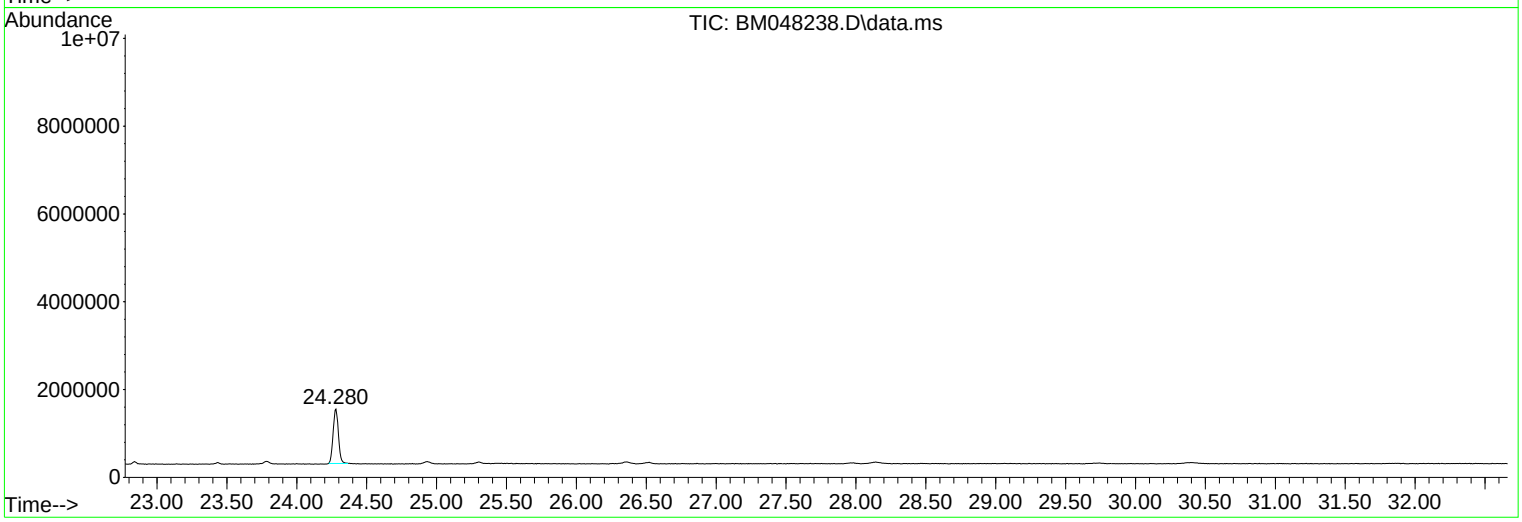
Instrument :
BNA_M
ClientSampleId :
WB-303-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102324.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_M\Data\BM102524\
Data File : BM048238.D
Acq On : 25 Oct 2024 16:21
Operator : RC/JU
Sample : P4460-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
WB-303-SW

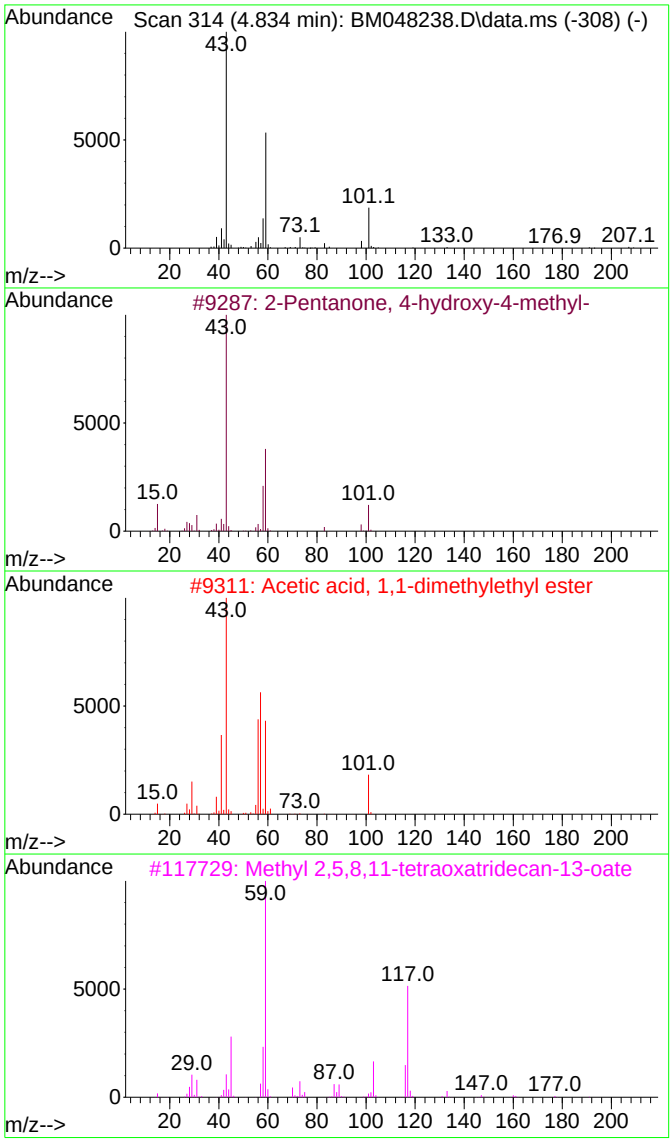
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

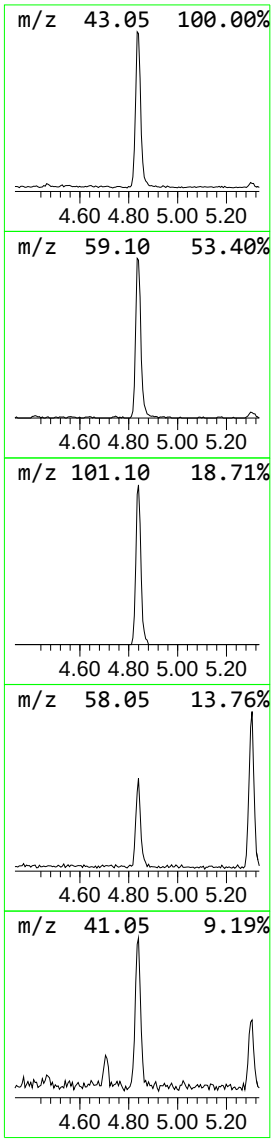
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.834	3.43 ng	208716	1,4-Dichlorobenzene-d4	7.716

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	45
3	Methyl 2,5,8,11-tetraoxatridecan...	236	C10H20O6	1000366-78-2	28
4	2-Butanol, 1-methoxy-	104	C5H12O2	053778-73-7	25
5	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	23





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102524\
Data File : BM048238.D
Acq On : 25 Oct 2024 16:21
Operator : RC/JU
Sample : P4460-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
WB-303-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

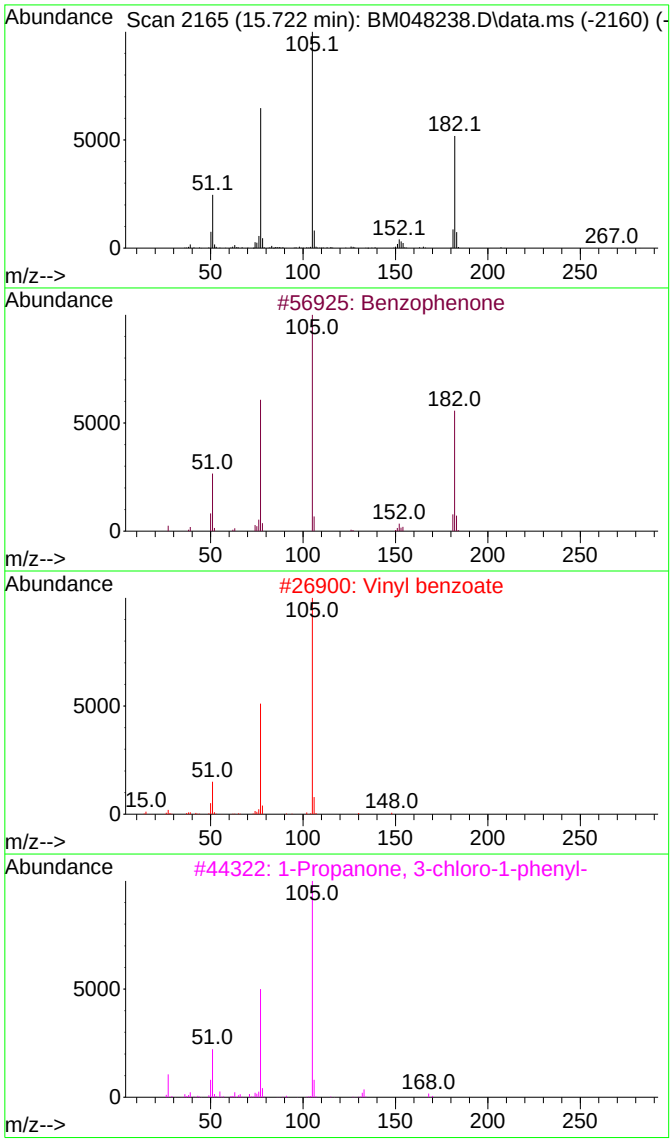
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

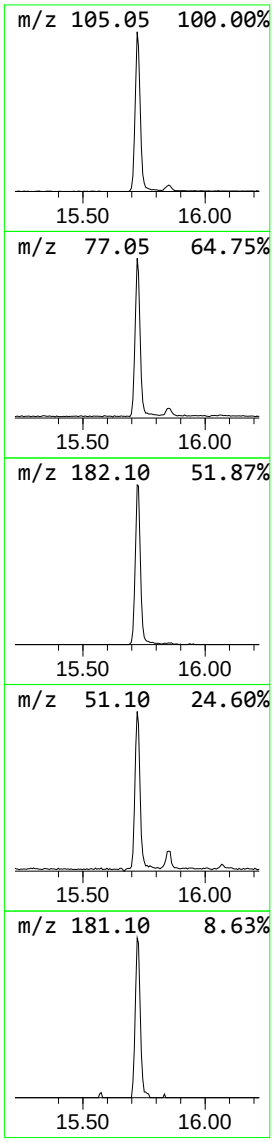
****

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.722	3.37 ng	411602	Acenaphthene-d10	14.363

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Vinyl benzoate	148	C9H8O2	000769-78-8	47
3	1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	47
4	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47
5	Benzoyl isothiocyanate	163	C8H5NOS	000532-55-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102524\
Data File : BM048238.D
Acq On : 25 Oct 2024 16:21
Operator : RC/JU
Sample : P4460-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
WB-303-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	4.834	3.4	ng	208716	1	7.716	1217650	20.0
Benzophenone	15.722	3.4	ng	411602	3	14.363	2445050	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139962.D
Acq On : 23 Oct 2024 14:04
Operator : RC/JU
Sample : PB164286BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164286BL

Quant Time: Oct 23 14:28:47 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

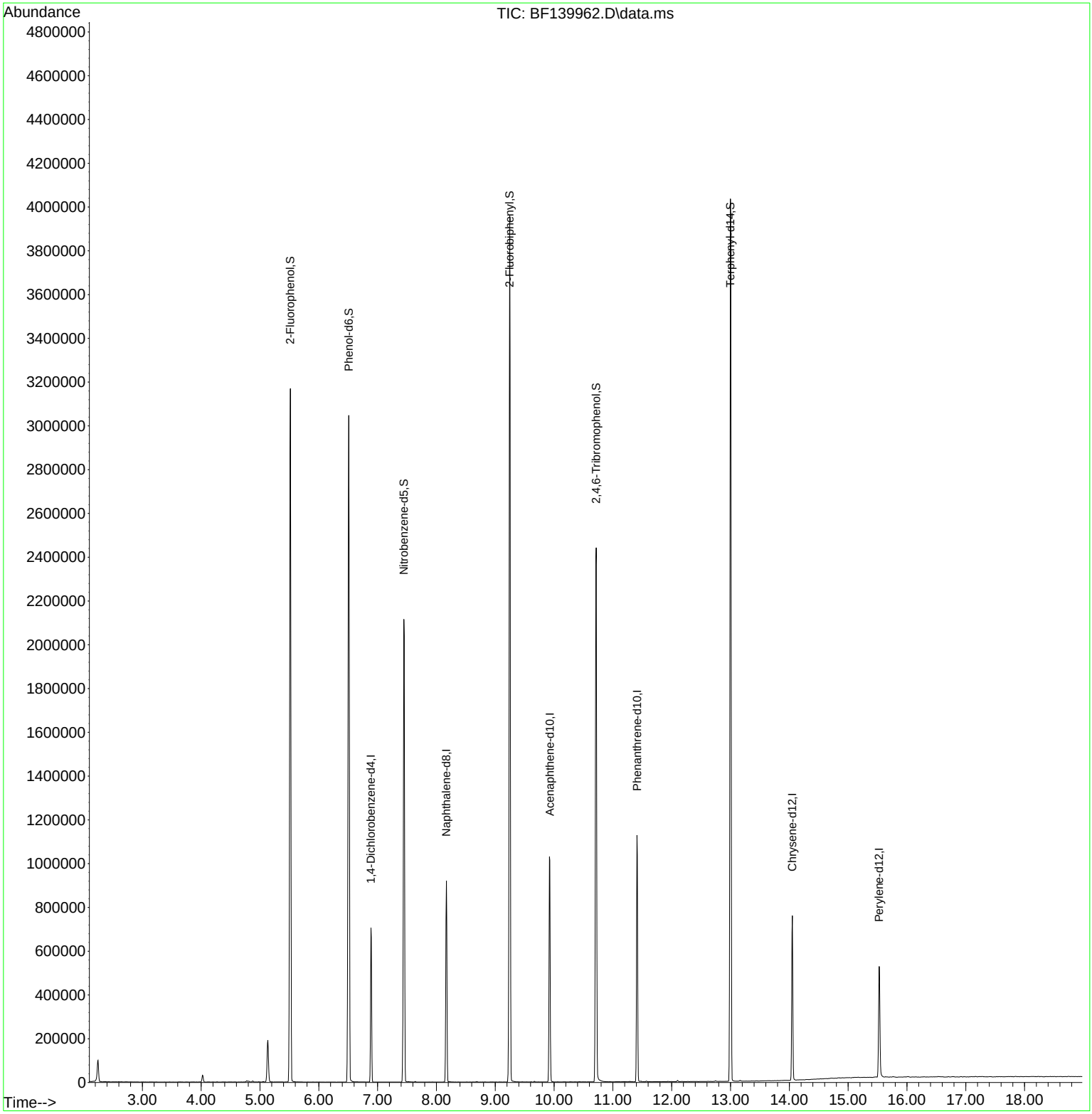
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	146341	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	564292	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	320476	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	596529	20.000	ng	0.00
76) Chrysene-d12	14.051	240	356991	20.000	ng	0.00
86) Perylene-d12	15.527	264	312503	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1257004	134.468	ng	0.02
7) Phenol-d6	6.510	99	1582027	130.669	ng	0.00
23) Nitrobenzene-d5	7.445	82	1012283	99.424	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	468968	156.446	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1837259	94.748	ng	0.00
79) Terphenyl-d14	12.998	244	2156843	98.449	ng	0.00
Target Compounds						Qvalue

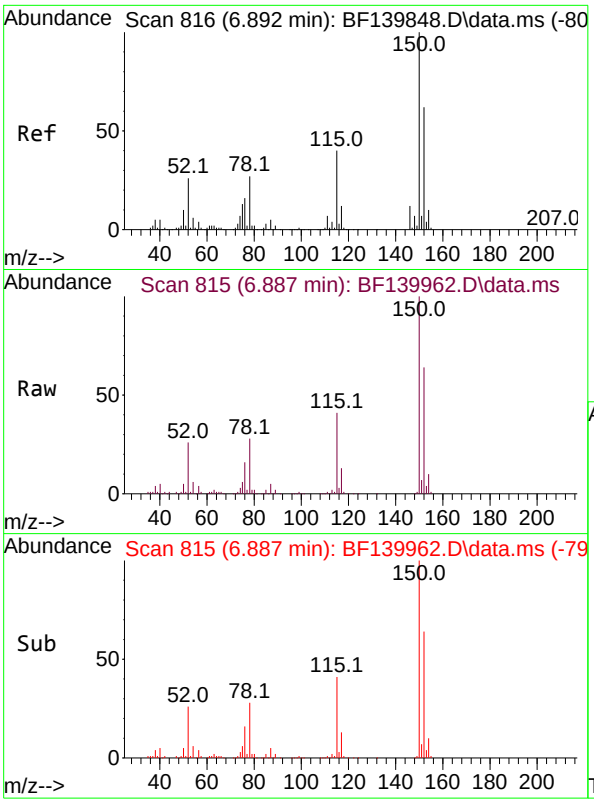
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139962.D
Acq On : 23 Oct 2024 14:04
Operator : RC/JU
Sample : PB164286BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164286BL

Quant Time: Oct 23 14:28:47 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



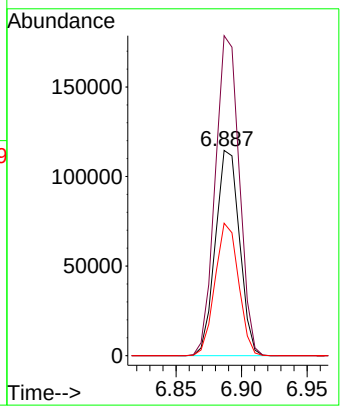


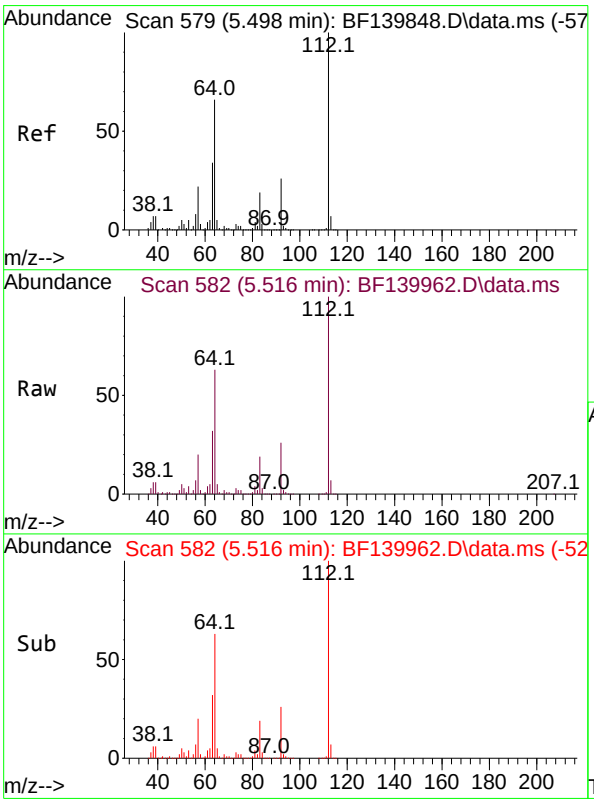
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF139962.D
Acq: 23 Oct 2024 14:04

Instrument :
BNA_F
ClientSampleId :
PB164286BL

Tgt Ion:152 Resp: 146341

Ion	Ratio	Lower	Upper
152	100		
150	155.9	130.2	195.2
115	64.5	51.4	77.2

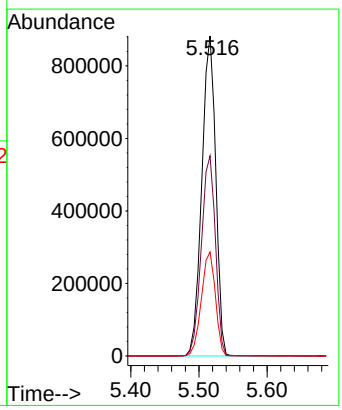


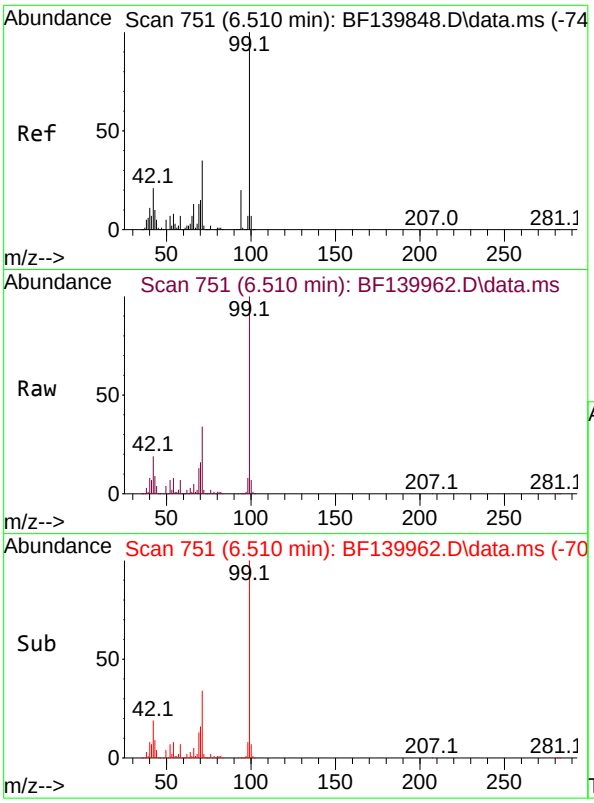


#5
2-Fluorophenol
Concen: 134.468 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF139962.D
Acq: 23 Oct 2024 14:04

Tgt Ion:112 Resp: 1257004

Ion	Ratio	Lower	Upper
112	100		
64	62.6	53.0	79.6
63	32.5	27.0	40.4



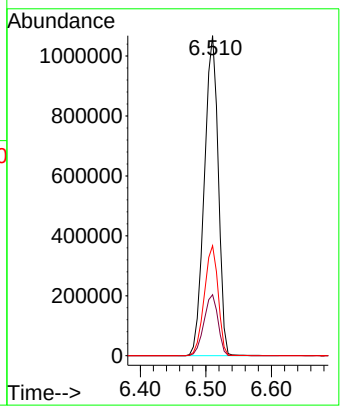


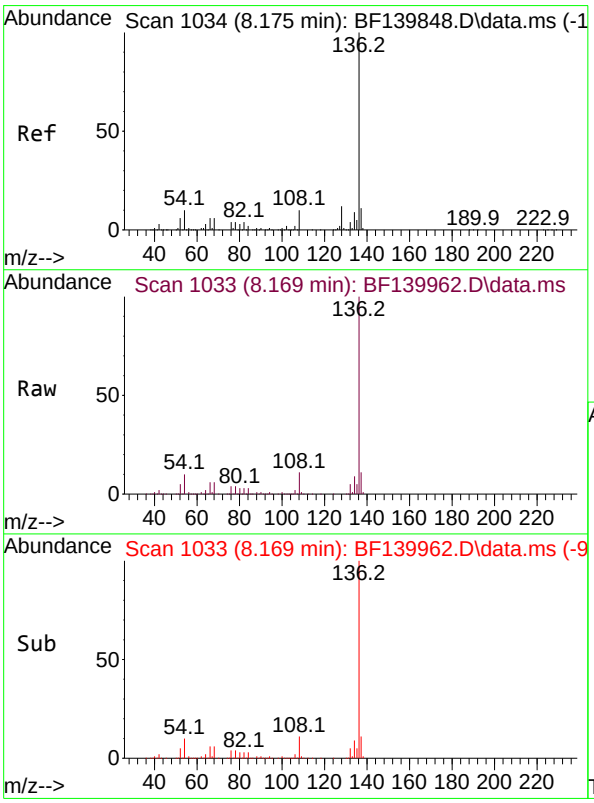
#7
Phenol-d6
Concen: 130.669 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139962.D
Acq: 23 Oct 2024 14:04

Instrument :
BNA_F
ClientSampleId :
PB164286BL

Tgt Ion: 99 Resp: 1582027

Ion	Ratio	Lower	Upper
99	100		
42	19.0	16.7	25.1
71	34.3	27.7	41.5

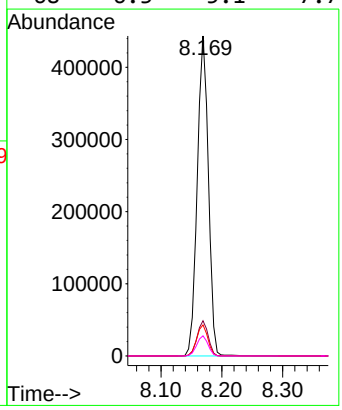


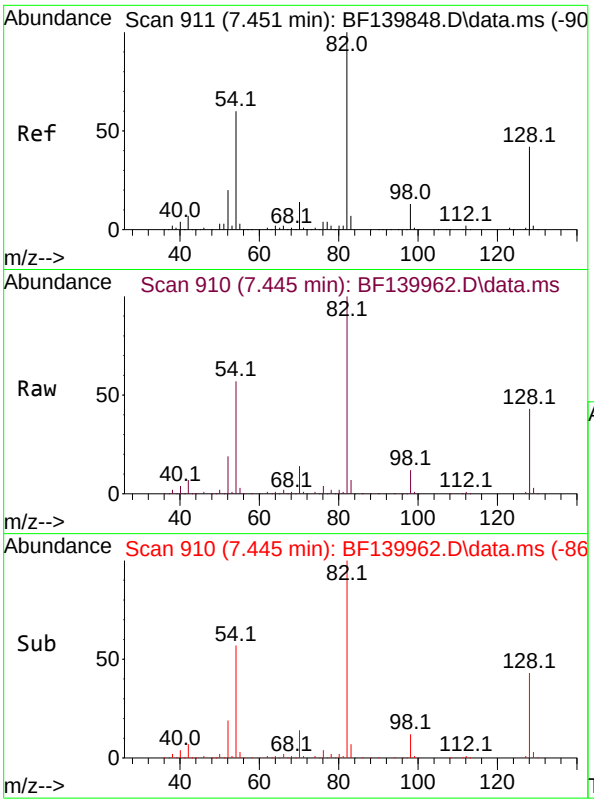


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF139962.D
Acq: 23 Oct 2024 14:04

Tgt Ion:136 Resp: 564292

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	12.8
54	9.7	8.4	12.6
68	6.3	5.1	7.7



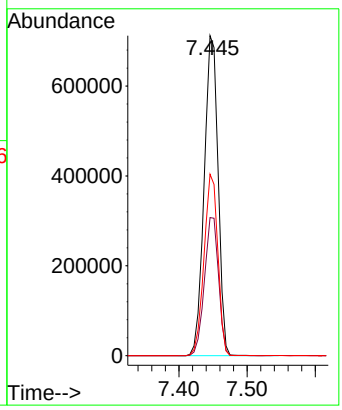


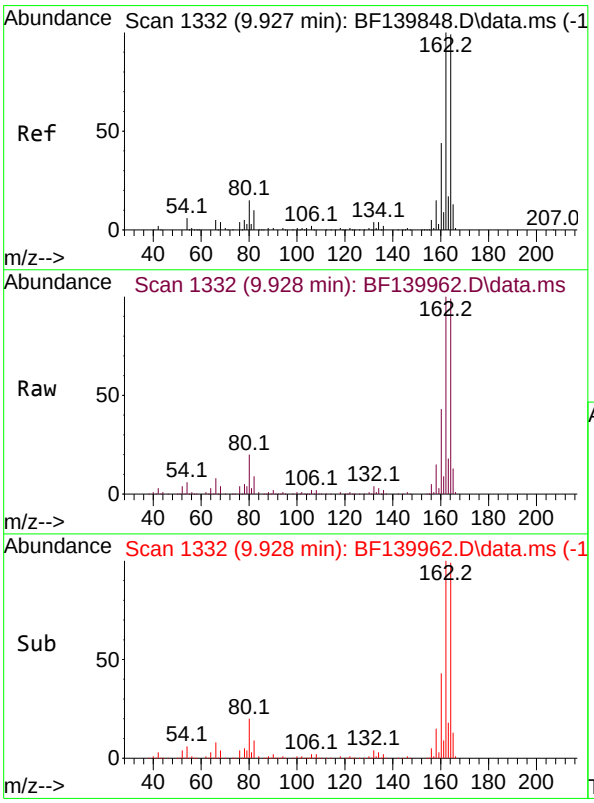
#23
Nitrobenzene-d5
Concen: 99.424 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF139962.D
Acq: 23 Oct 2024 14:04

Instrument :
BNA_F
ClientSampleId :
PB164286BL

Tgt Ion: 82 Resp: 1012283

Ion	Ratio	Lower	Upper
82	100		
128	43.2	33.4	50.0
54	56.7	47.8	71.8

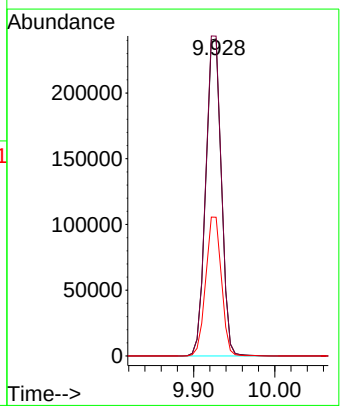


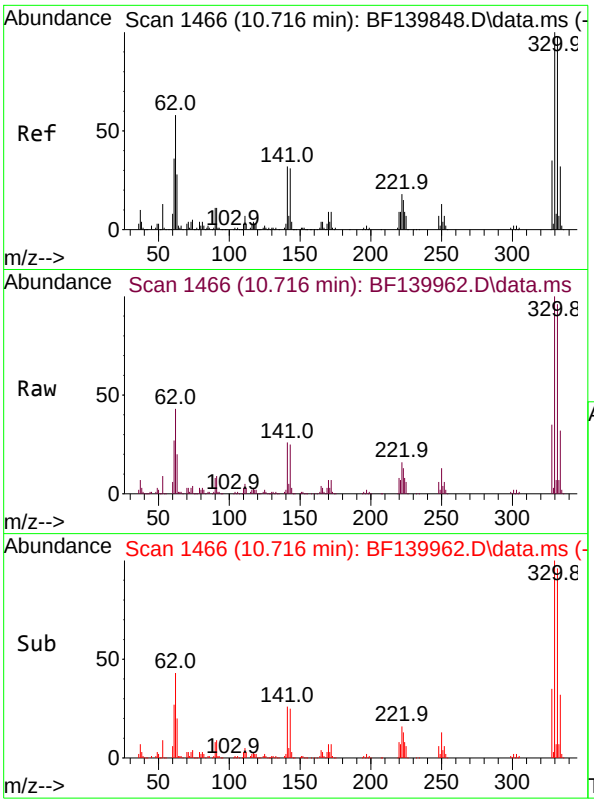


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1332
Delta R.T. 0.001 min
Lab File: BF139962.D
Acq: 23 Oct 2024 14:04

Tgt Ion:164 Resp: 320476

Ion	Ratio	Lower	Upper
164	100		
162	101.0	81.0	121.4
160	43.8	35.4	53.0



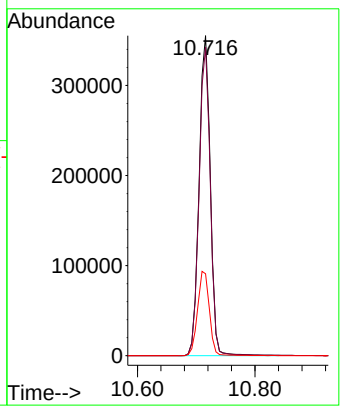


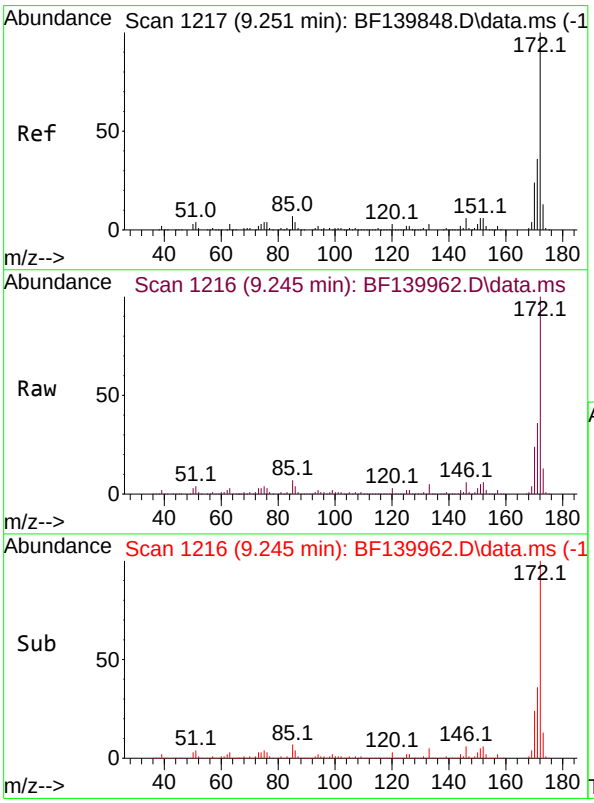
#42
2,4,6-Tribromophenol
Concen: 156.446 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF139962.D
Acq: 23 Oct 2024 14:04

Instrument :
BNA_F
ClientSampleId :
PB164286BL

Tgt Ion:330 Resp: 468968

Ion	Ratio	Lower	Upper
330	100		
332	96.6	78.1	117.1
141	27.8	26.6	39.8

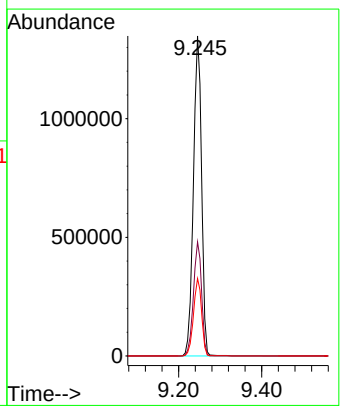


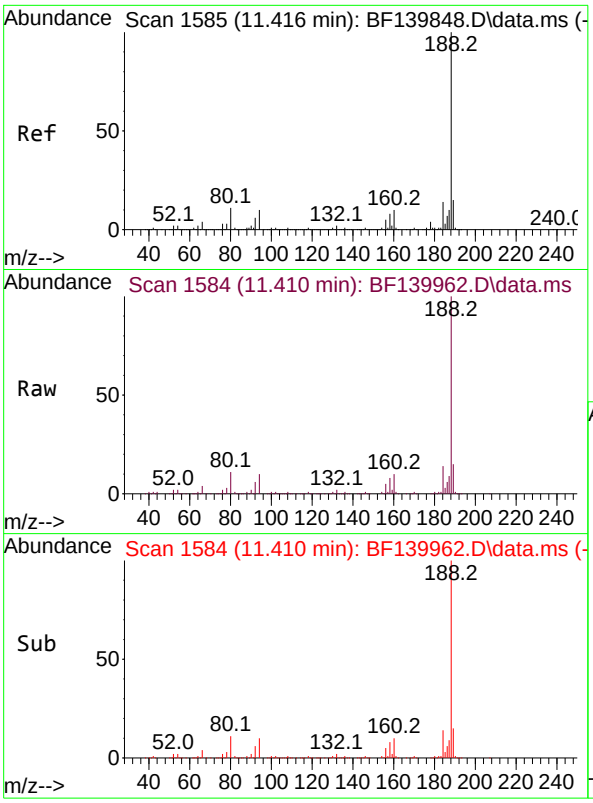


#45
2-Fluorobiphenyl
Concen: 94.748 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF139962.D
Acq: 23 Oct 2024 14:04

Tgt Ion:172 Resp: 1837259

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	43.0
170	24.2	19.1	28.7



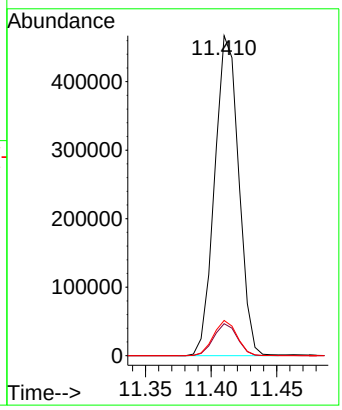


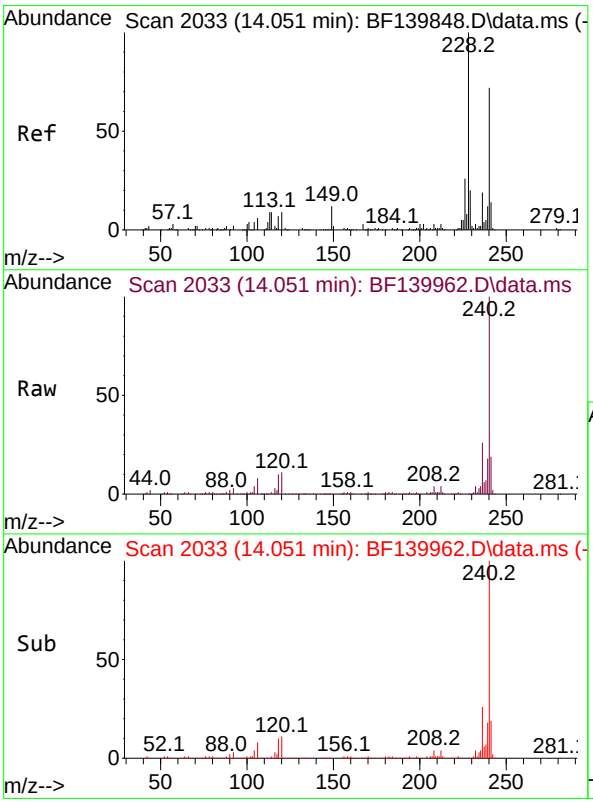
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139962.D
Acq: 23 Oct 2024 14:04

Instrument :
BNA_F
ClientSampleId :
PB164286BL

Tgt Ion:188 Resp: 596529

Ion	Ratio	Lower	Upper
188	100		
94	10.0	7.9	11.9
80	11.0	9.0	13.4

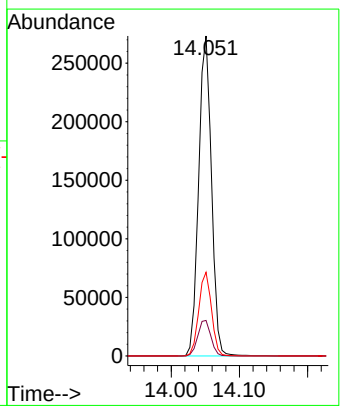


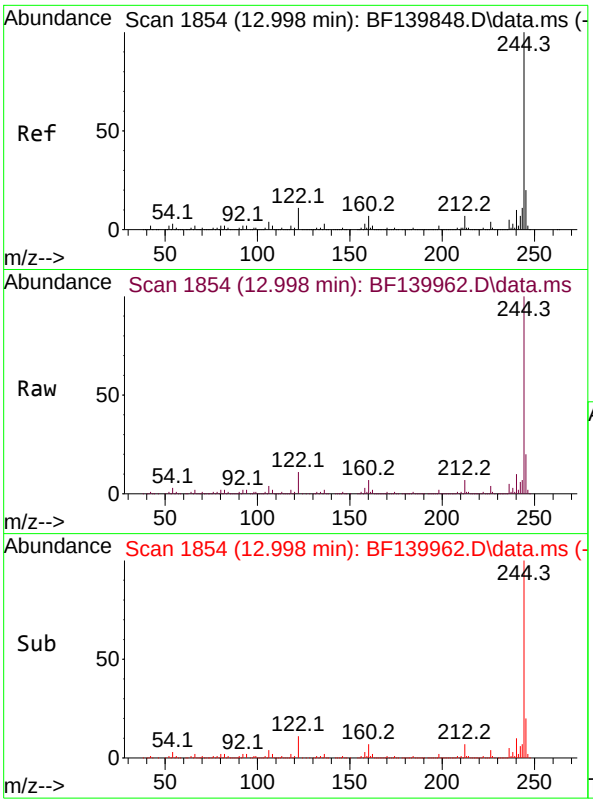


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF139962.D
Acq: 23 Oct 2024 14:04

Tgt Ion:240 Resp: 356991

Ion	Ratio	Lower	Upper
240	100		
120	11.1	9.4	14.2
236	26.2	20.9	31.3



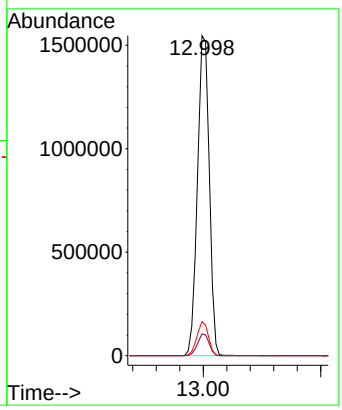


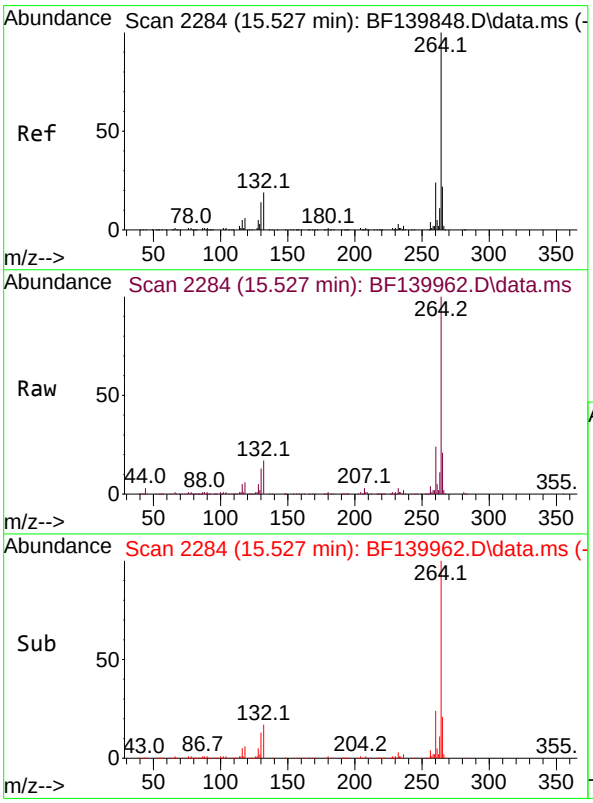
#79
Terphenyl-d14
Concen: 98.449 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139962.D
Acq: 23 Oct 2024 14:04

Instrument :
BNA_F
ClientSampleId :
PB164286BL

Tgt Ion:244 Resp: 2156843

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	10.6	8.6	13.0

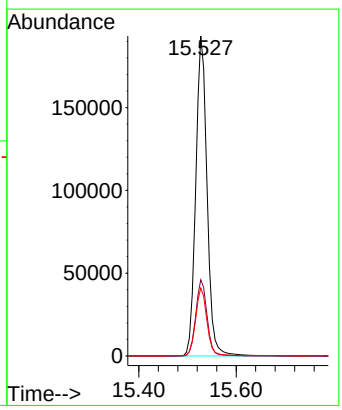




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF139962.D
Acq: 23 Oct 2024 14:04

Tgt Ion:264 Resp: 312503

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.4	29.2
265	21.3	17.4	26.0



Sample Results: **BF139962.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139962.D
Acq On : 23 Oct 2024 14:04
Operator : RC/JU
Sample : PB164286BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164286BL

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: BF139962.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.246	16	26	32	rVB	96327	169159	3.05%	0.506%
2	5.134	509	517	526	rBV	191313	325538	5.87%	0.974%
3	5.516	575	582	587	rBV	3167895	4525109	81.53%	13.534%
4	6.510	744	751	756	rBV	3045622	4503924	81.15%	13.471%
5	6.887	810	815	821	rVB	704321	884368	15.93%	2.645%
6	7.445	904	910	916	rBV	2114373	3005131	54.15%	8.988%
7	8.169	1027	1033	1038	rBV	919728	1164539	20.98%	3.483%
8	9.245	1209	1216	1221	rBV	3958388	5341336	96.24%	15.975%
9	9.922	1325	1331	1344	rVB	1028668	1359976	24.50%	4.068%
10	10.716	1459	1466	1492	rBV	2440568	3383675	60.97%	10.120%
11	11.410	1579	1584	1590	rBV	1126626	1432080	25.80%	4.283%
12	12.998	1848	1854	1860	rBV	4031941	5550060	100.00%	16.599%
13	14.051	2027	2033	2044	rBV	751869	980332	17.66%	2.932%
14	15.527	2278	2284	2299	rBV	505903	809910	14.59%	2.422%

Sum of corrected areas: 33435137

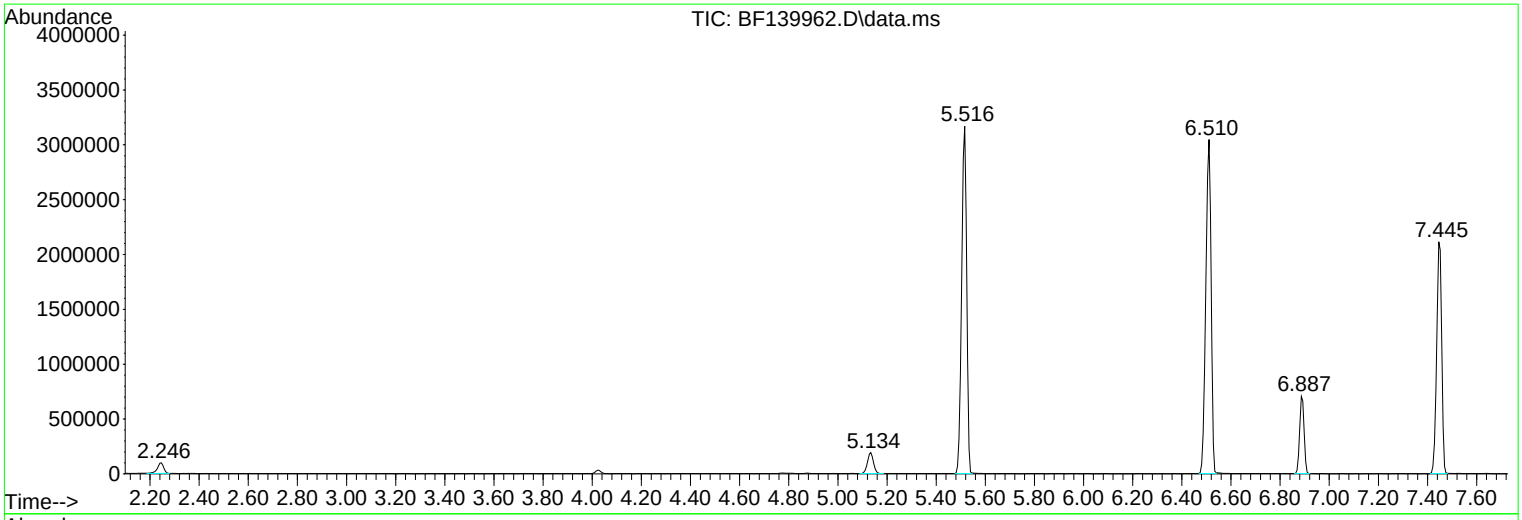
Sample Results: **BF139962.D**

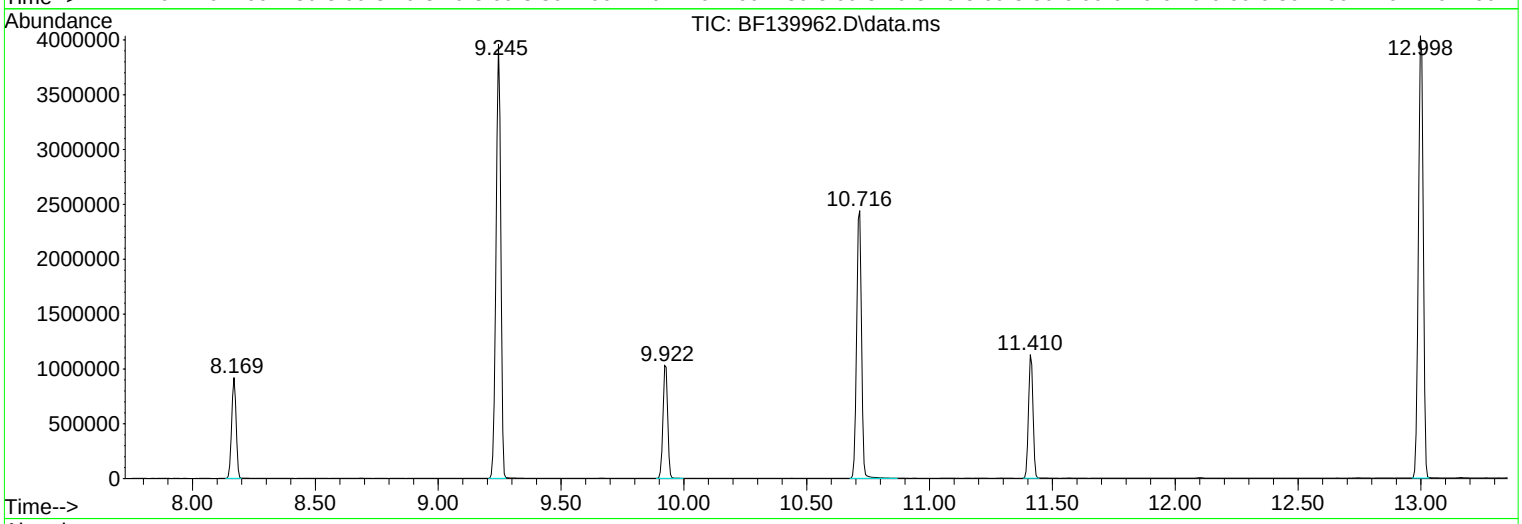
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139962.D
Acq On : 23 Oct 2024 14:04
Operator : RC/JU
Sample : PB164286BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

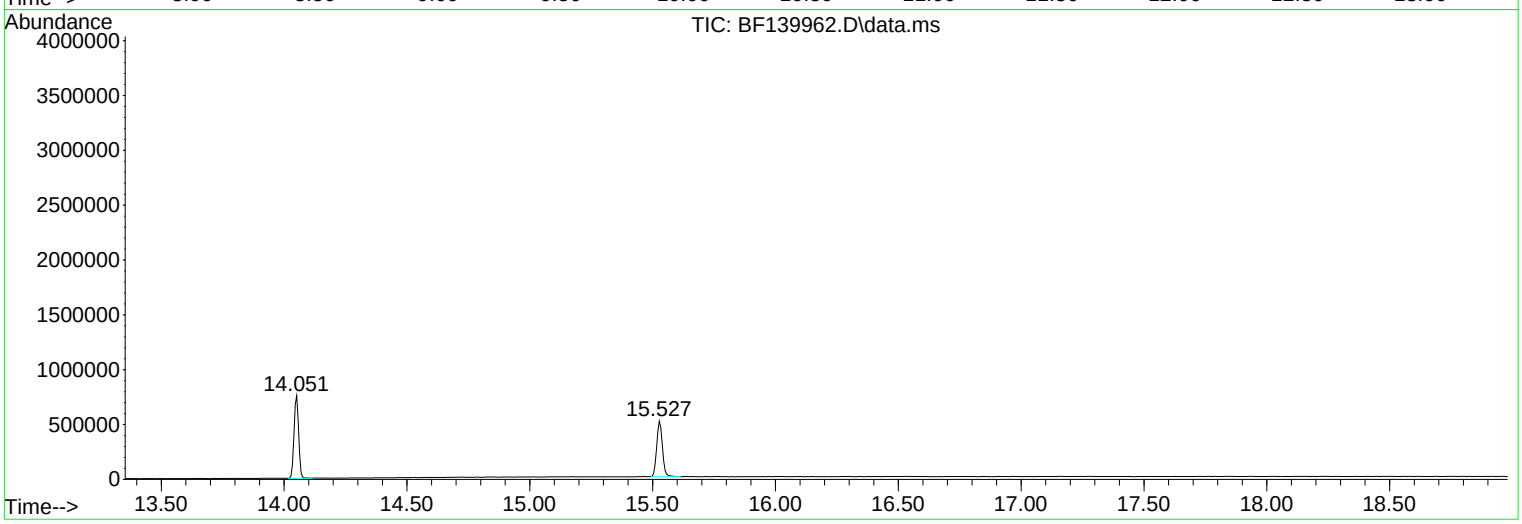
Instrument :
BNA_F
ClientSampleId :
PB164286BL

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\BF102324\
Data File : BF139962.D
Acq On : 23 Oct 2024 14:04
Operator : RC/JU
Sample : PB164286BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164286BL

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

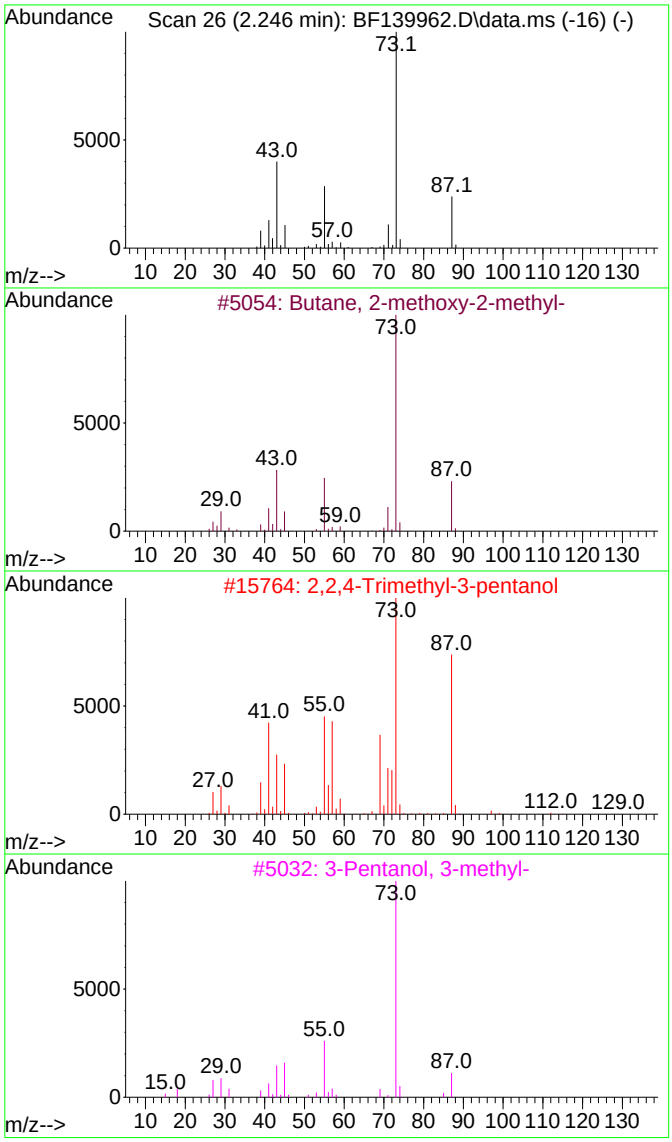
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

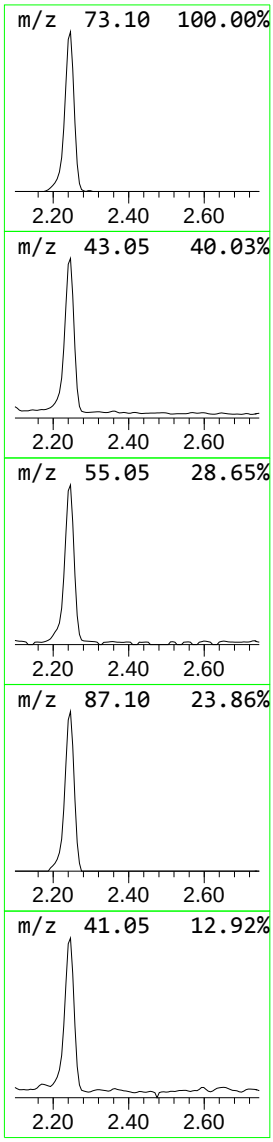
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.246	3.83 ng	169159	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-Pentanol, 3-methyl-	102	C6H14O	000077-74-7	25
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
5	Boronic acid, ethyl-, dimethyl e...	102	C4H11BO2	007318-82-3	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139962.D
Acq On : 23 Oct 2024 14:04
Operator : RC/JU
Sample : PB164286BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164286BL

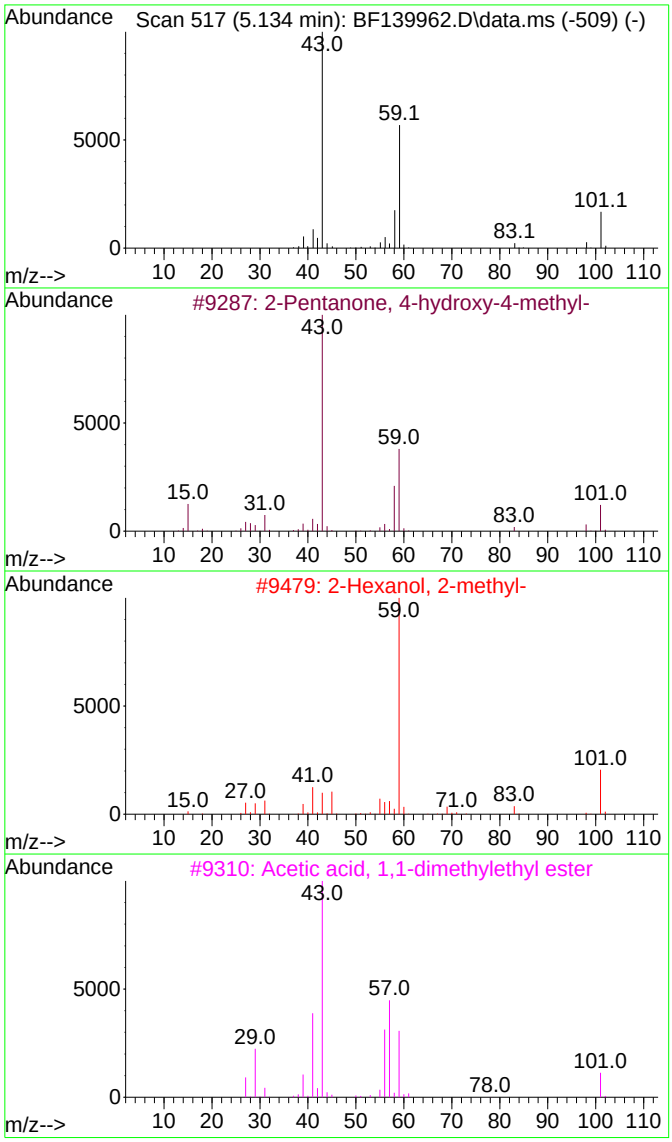
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

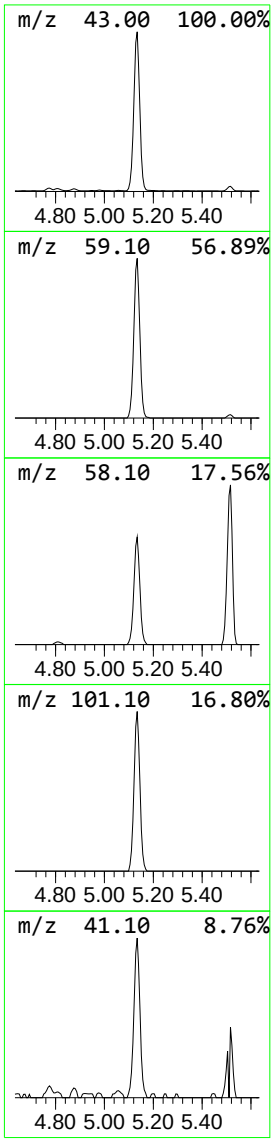
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.134	7.36 ng	325538	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28
3	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	28
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139962.D
Acq On : 23 Oct 2024 14:04
Operator : RC/JU
Sample : PB164286BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164286BL

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.246	3.8	ng	169159	1	6.887	884368	20.0
2-Pentanone, 4-...	5.134	7.4	ng	325538	1	6.887	884368	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102424\
Data File : BM048212.D
Acq On : 24 Oct 2024 11:50
Operator : RC/JU
Sample : PB164369BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB164369BL

Quant Time: Oct 24 12:36:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 23 18:21:59 2024
Response via : Initial Calibration

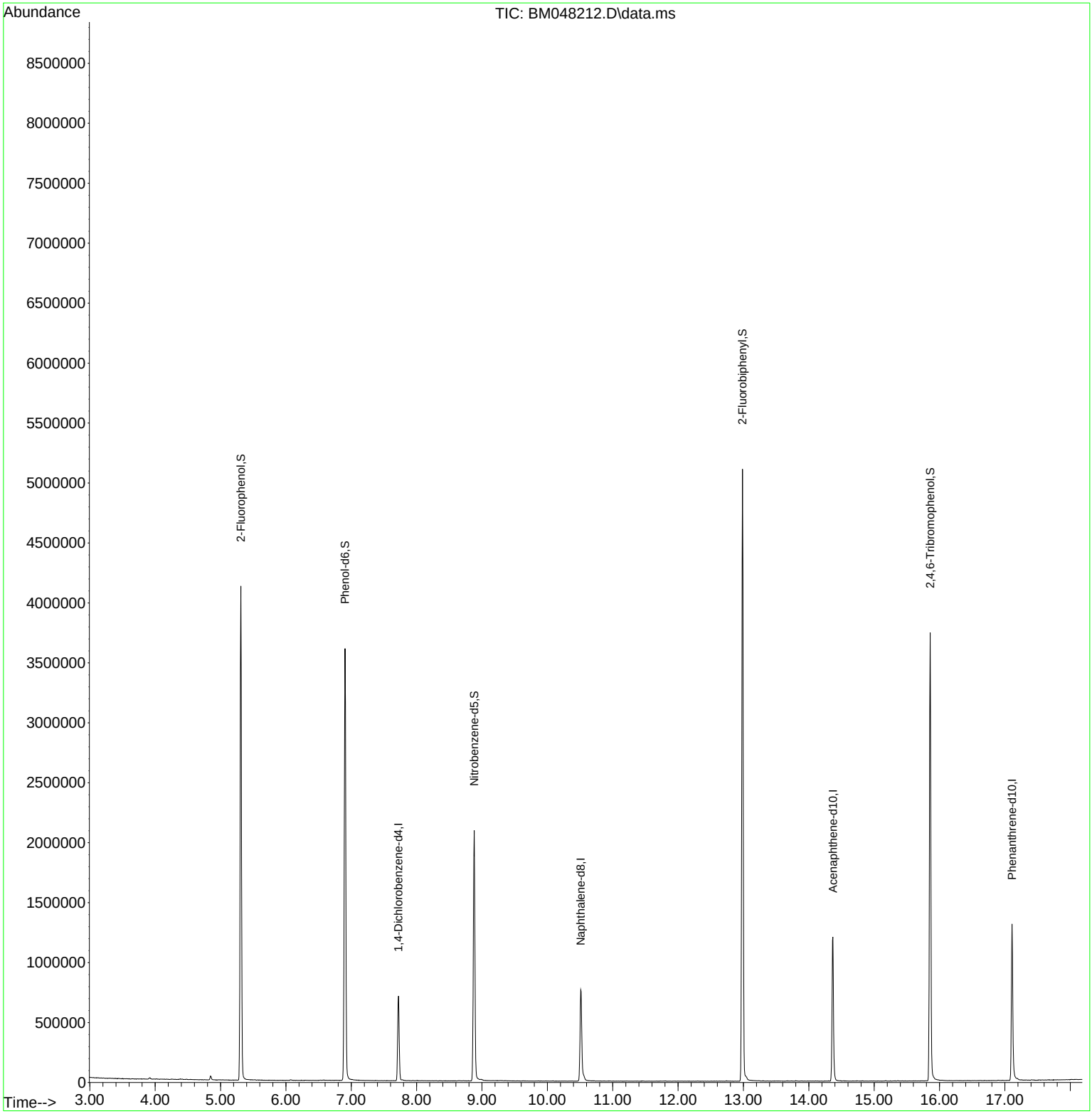
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.722	152	201808	20.000	ng	0.00
21) Naphthalene-d8	10.510	136	755271	20.000	ng	0.00
39) Acenaphthene-d10	14.368	164	451085	20.000	ng	0.00
64) Phenanthrene-d10	17.109	188	855662	20.000	ng	0.00
76) Chrysene-d12	21.333	240	674681	20.000	ng	0.00
86) Perylene-d12	24.291	264	711330	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.310	112	1817481	151.386	ng	0.00
7) Phenol-d6	6.904	99	2155715	137.876	ng	0.00
23) Nitrobenzene-d5	8.881	82	1232464	92.137	ng	0.00
42) 2,4,6-Tribromophenol	15.857	330	732767	132.716	ng	0.00
45) 2-Fluorobiphenyl	12.986	172	2758153	93.827	ng	0.00
79) Terphenyl-d14	19.733	244	3487510	105.488	ng	0.00
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102424\
Data File : BM048212.D
Acq On : 24 Oct 2024 11:50
Operator : RC/JU
Sample : PB164369BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB164369BL

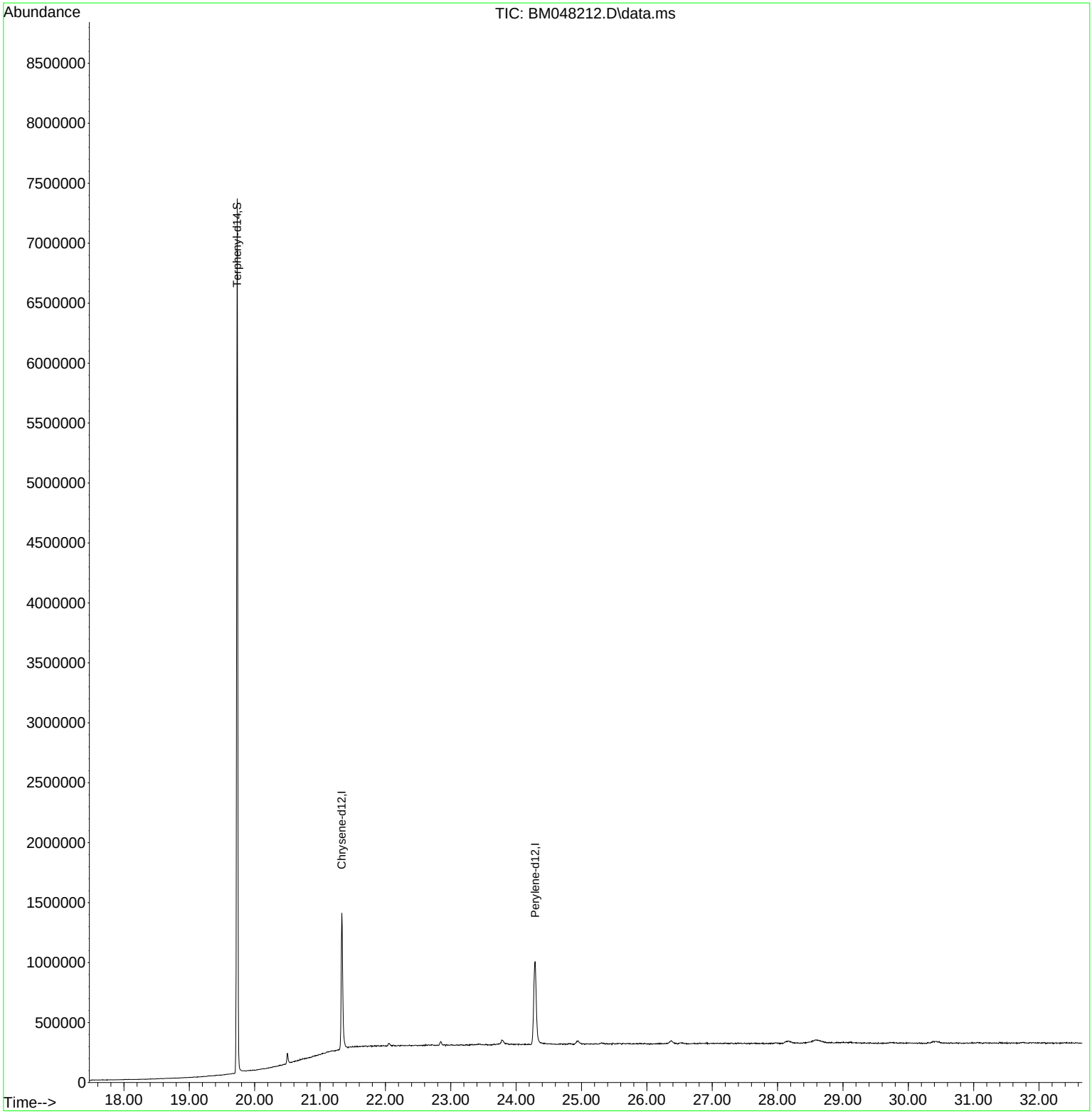
Quant Time: Oct 24 12:36:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 23 18:21:59 2024
Response via : Initial Calibration

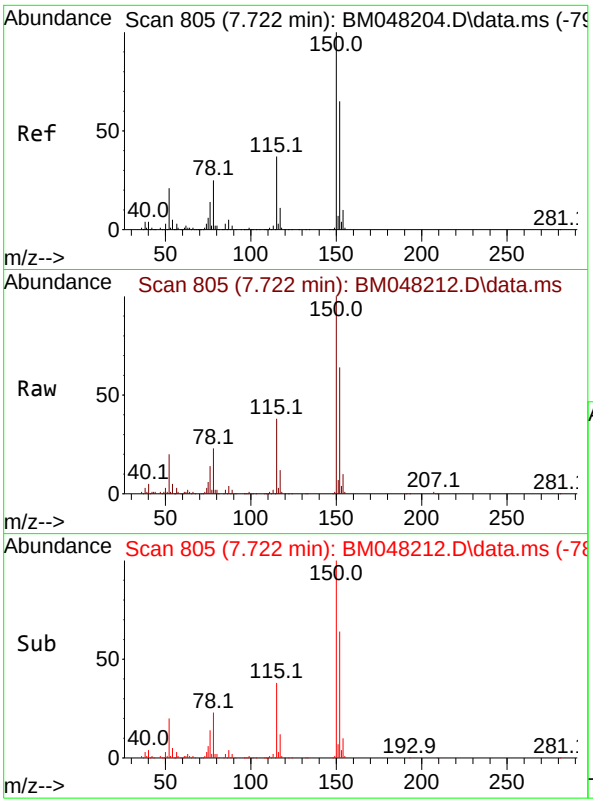


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102424\
Data File : BM048212.D
Acq On : 24 Oct 2024 11:50
Operator : RC/JU
Sample : PB164369BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB164369BL

Quant Time: Oct 24 12:36:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 23 18:21:59 2024
Response via : Initial Calibration



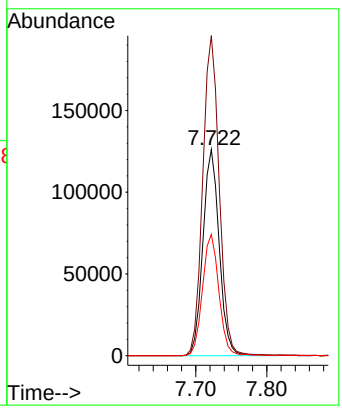


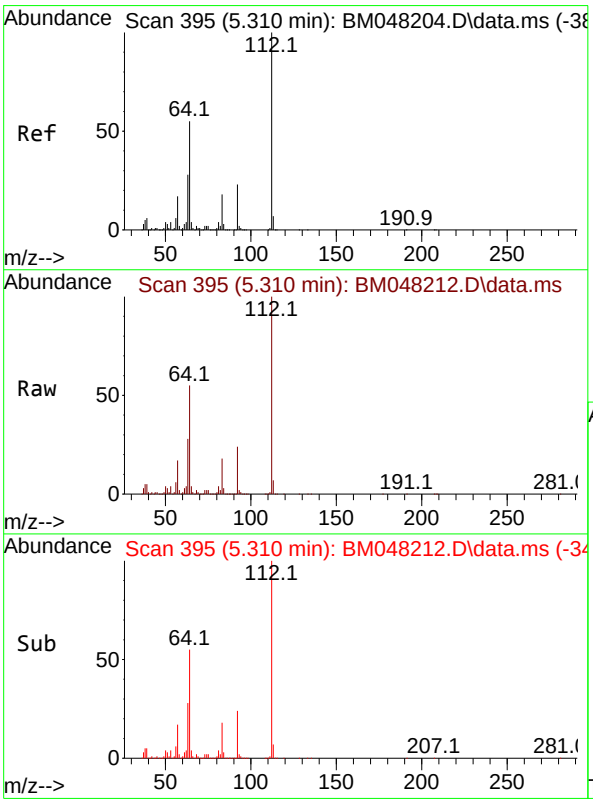
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.722 min Scan# 80
Delta R.T. -0.000 min
Lab File: BM048212.D
Acq: 24 Oct 2024 11:50

Instrument :
BNA_M
ClientSampleId :
PB164369BL

Tgt Ion:152 Resp: 201808

Ion	Ratio	Lower	Upper
152	100		
150	155.2	123.0	184.6
115	58.8	45.8	68.6

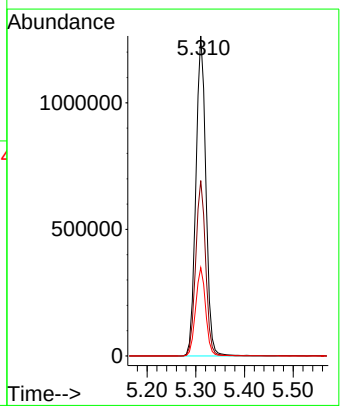


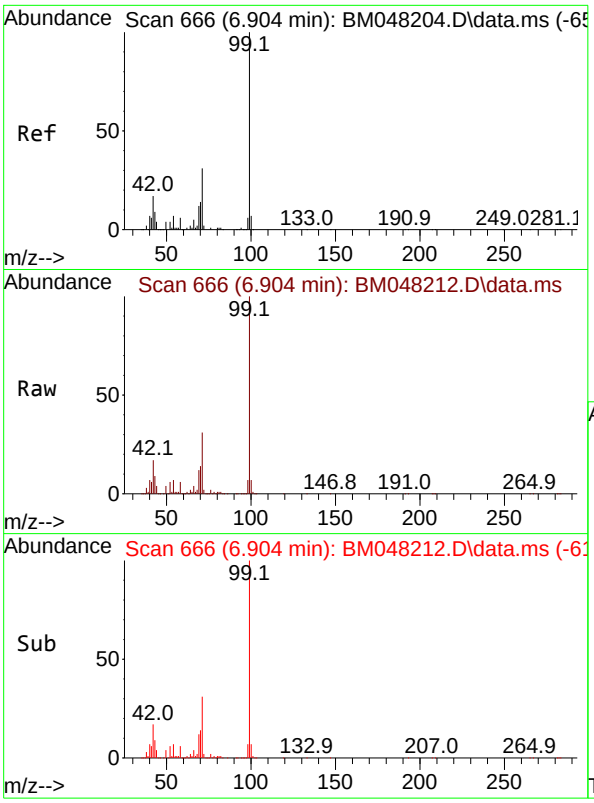


#5
2-Fluorophenol
Concen: 151.386 ng
RT: 5.310 min Scan# 395
Delta R.T. 0.000 min
Lab File: BM048212.D
Acq: 24 Oct 2024 11:50

Tgt Ion:112 Resp: 1817481

Ion	Ratio	Lower	Upper
112	100		
64	54.8	44.2	66.2
63	27.6	22.7	34.1



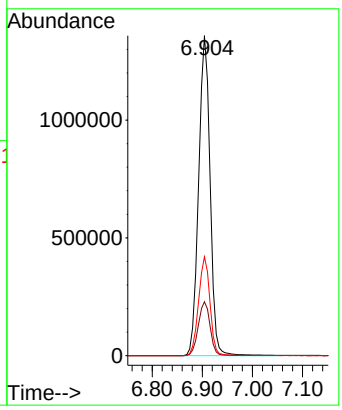


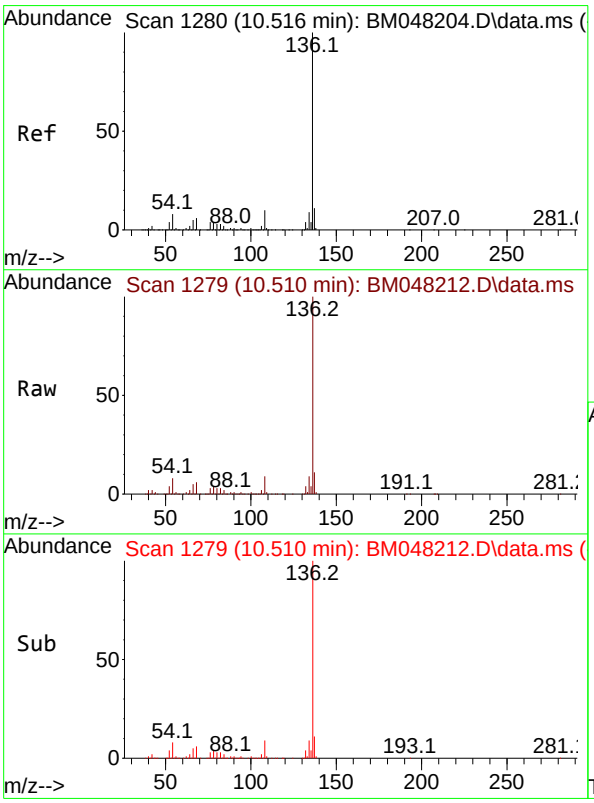
#7
Phenol-d6
Concen: 137.876 ng
RT: 6.904 min Scan# 6
Delta R.T. 0.000 min
Lab File: BM048212.D
Acq: 24 Oct 2024 11:50

Instrument :
BNA_M
ClientSampleId :
PB164369BL

Tgt Ion: 99 Resp: 2155715

Ion	Ratio	Lower	Upper
99	100		
42	16.9	13.8	20.8
71	30.9	24.9	37.3

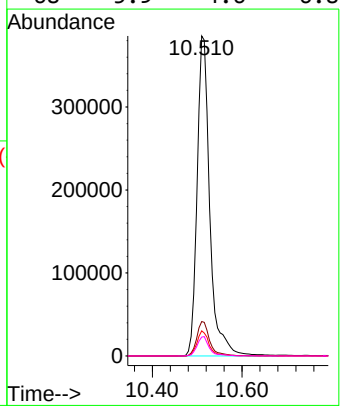


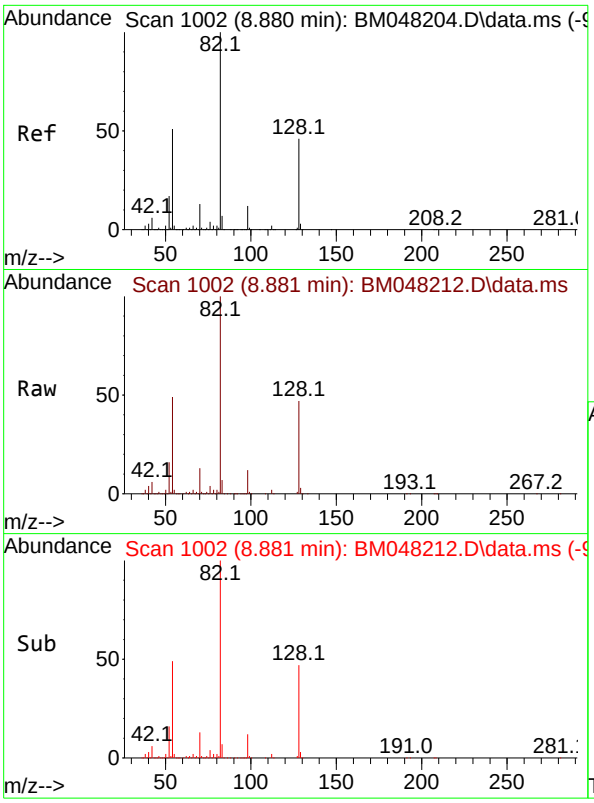


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.510 min Scan# 1279
Delta R.T. -0.006 min
Lab File: BM048212.D
Acq: 24 Oct 2024 11:50

Tgt Ion:136 Resp: 755271

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	7.8	6.5	9.7
68	5.9	4.6	6.8



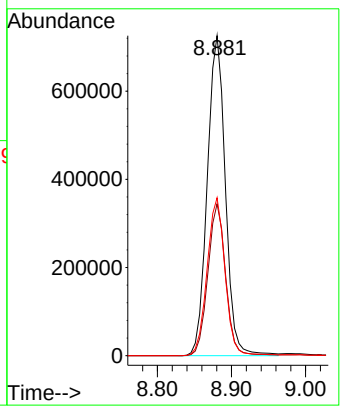


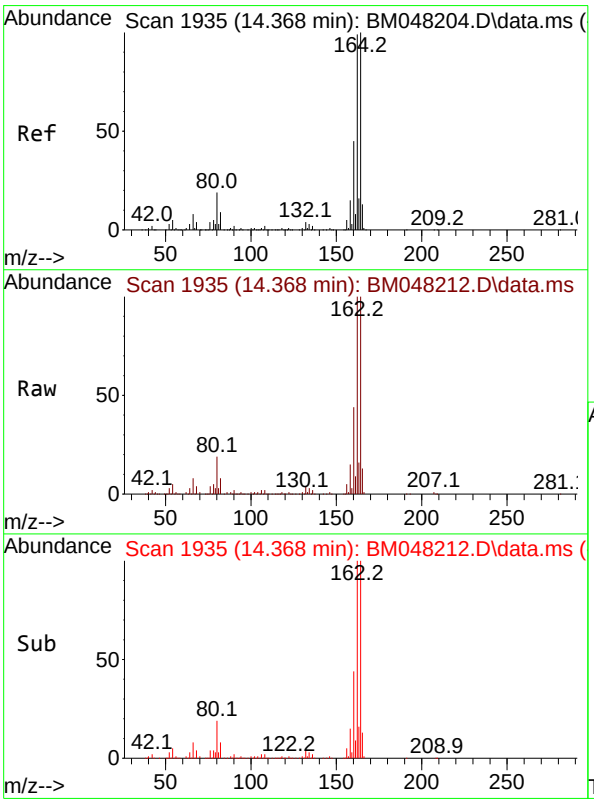
#23
Nitrobenzene-d5
Concen: 92.137 ng
RT: 8.881 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BM048212.D
Acq: 24 Oct 2024 11:50

Instrument :
BNA_M
ClientSampleId :
PB164369BL

Tgt Ion: 82 Resp: 1232464

Ion	Ratio	Lower	Upper
82	100		
128	47.4	36.6	54.8
54	49.4	41.0	61.4

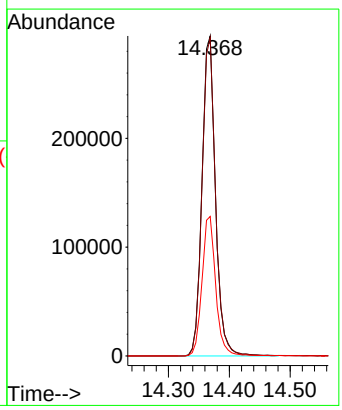


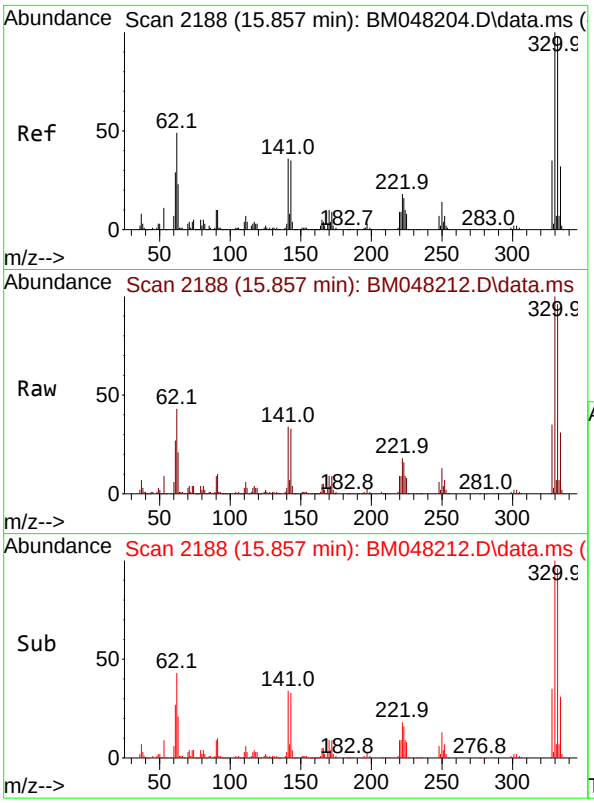


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.368 min Scan# 1935
Delta R.T. 0.000 min
Lab File: BM048212.D
Acq: 24 Oct 2024 11:50

Tgt Ion:164 Resp: 451085

Ion	Ratio	Lower	Upper
164	100		
162	99.5	79.1	118.7
160	43.6	35.8	53.8



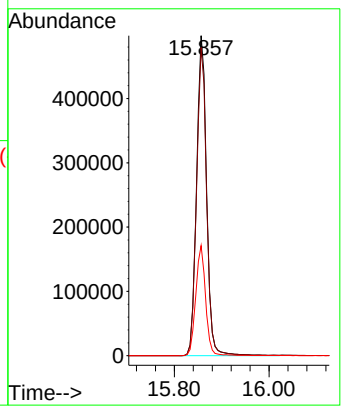


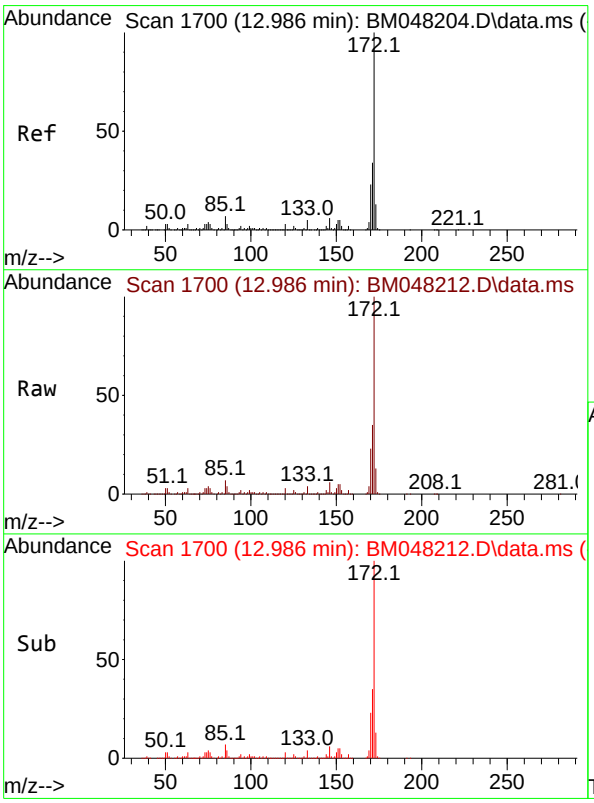
#42
2,4,6-Tribromophenol
Concen: 132.716 ng
RT: 15.857 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM048212.D
Acq: 24 Oct 2024 11:50

Instrument :
BNA_M
ClientSampleId :
PB164369BL

Tgt Ion:330 Resp: 732767

Ion	Ratio	Lower	Upper
330	100		
332	96.2	77.5	116.3
141	33.7	27.5	41.3

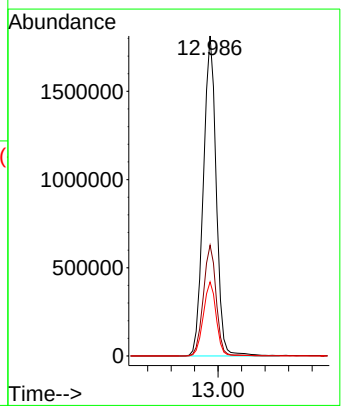


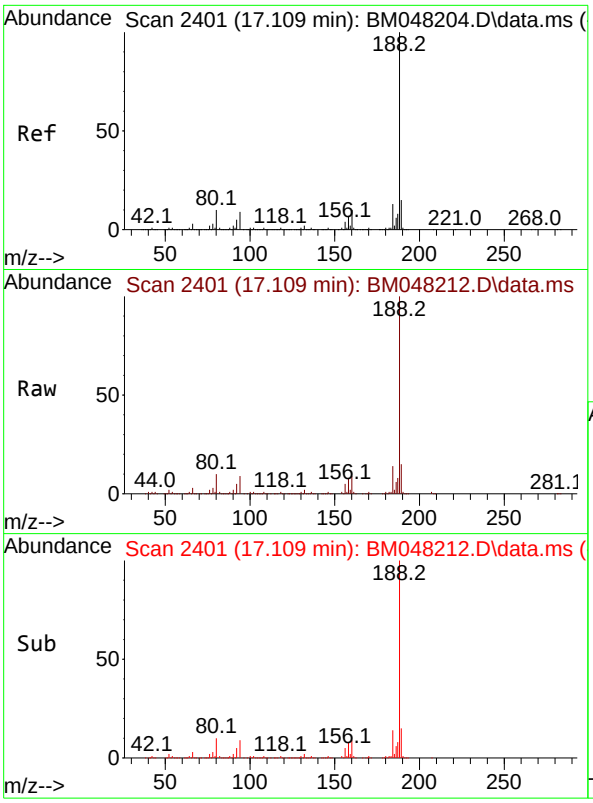


#45
2-Fluorobiphenyl
Concen: 93.827 ng
RT: 12.986 min Scan# 1700
Delta R.T. 0.000 min
Lab File: BM048212.D
Acq: 24 Oct 2024 11:50

Tgt Ion:172 Resp: 2758153

Ion	Ratio	Lower	Upper
172	100		
171	34.6	27.4	41.0
170	23.2	18.5	27.7



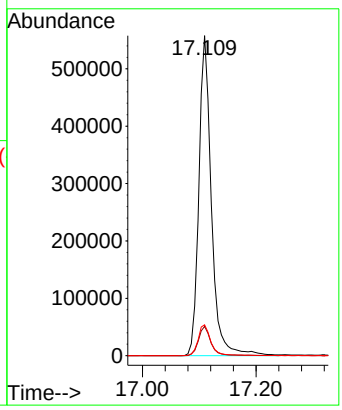


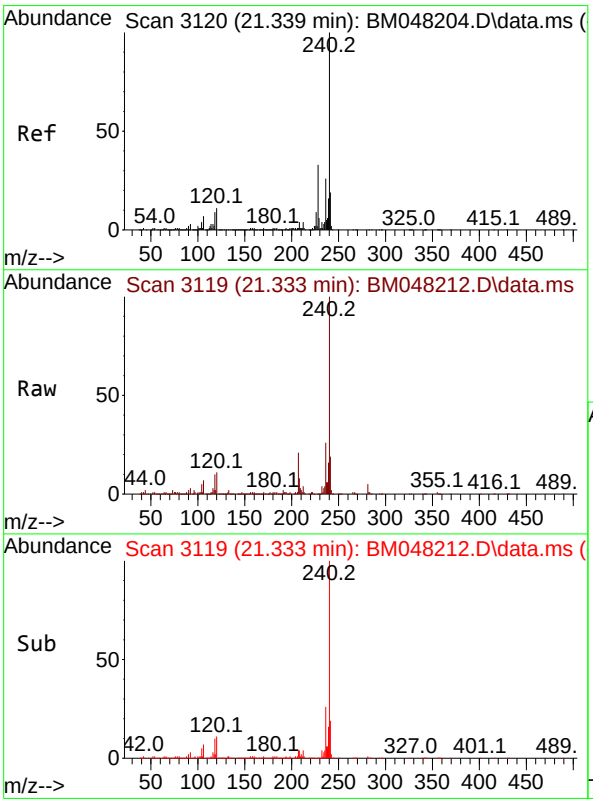
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.109 min Scan# 24
Delta R.T. 0.000 min
Lab File: BM048212.D
Acq: 24 Oct 2024 11:50

Instrument :
BNA_M
ClientSampleId :
PB164369BL

Tgt Ion:188 Resp: 855662

Ion	Ratio	Lower	Upper
188	100		
94	9.2	7.3	10.9
80	9.6	8.0	12.0

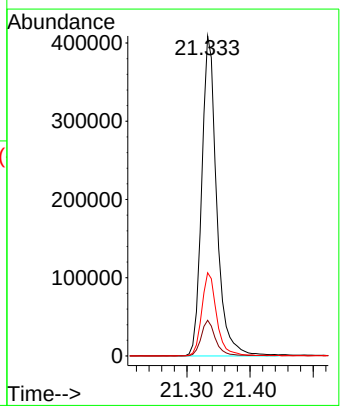


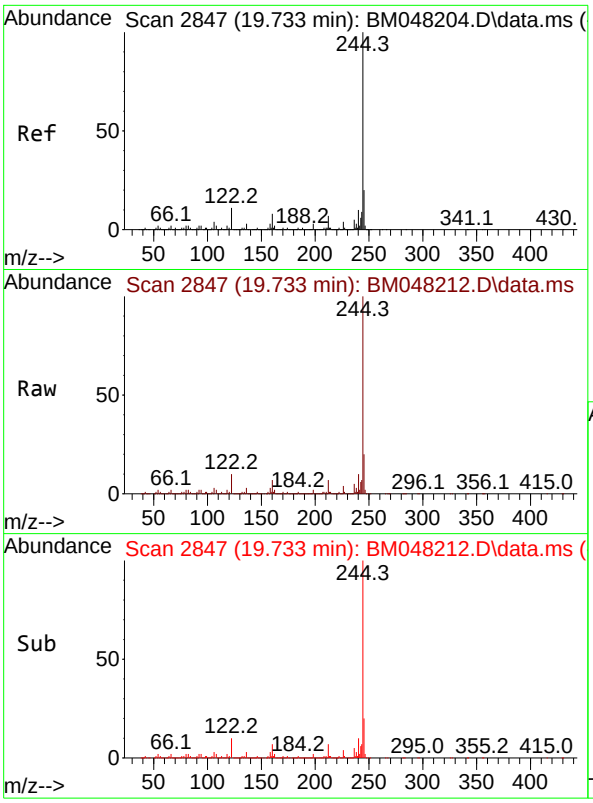


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.333 min Scan# 3119
Delta R.T. -0.006 min
Lab File: BM048212.D
Acq: 24 Oct 2024 11:50

Tgt Ion:240 Resp: 674681

Ion	Ratio	Lower	Upper
240	100		
120	11.1	8.6	13.0
236	26.0	20.7	31.1



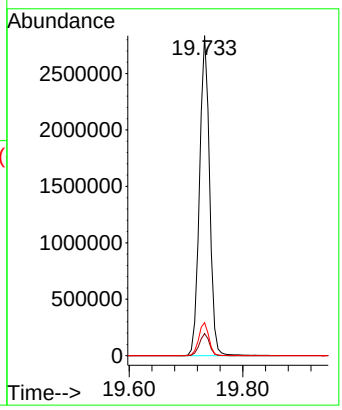


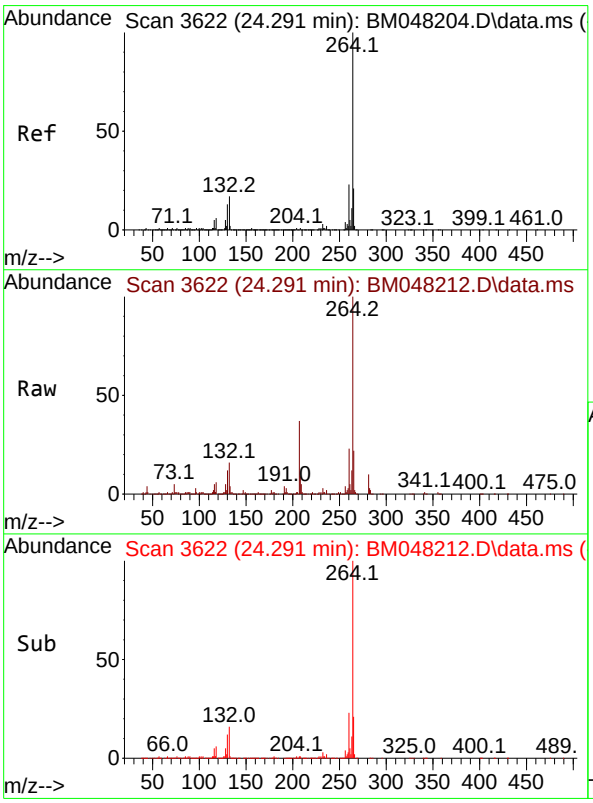
#79
Terphenyl-d14
Concen: 105.488 ng
RT: 19.733 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM048212.D
Acq: 24 Oct 2024 11:50

Instrument :
BNA_M
ClientSampleId :
PB164369BL

Tgt Ion:244 Resp: 3487510

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.6	8.4
122	10.3	8.8	13.2

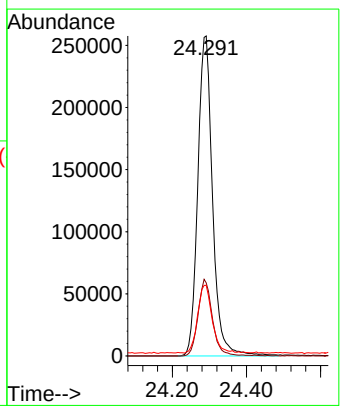




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.291 min Scan# 3622
Delta R.T. 0.000 min
Lab File: BM048212.D
Acq: 24 Oct 2024 11:50

Tgt Ion:264 Resp: 711330

Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.6	27.8
265	22.1	17.4	26.2



Sample Results: **BM048212.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102424\
Data File : BM048212.D
Acq On : 24 Oct 2024 11:50
Operator : RC/JU
Sample : PB164369BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB164369BL

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_M\Methods\8270-BM102324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM048212.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.310	388	395	409	rBV	4120565	5919760	65.60%	12.383%
2	6.904	657	666	679	rBV	3602233	5803898	64.32%	12.141%
3	7.722	798	805	812	rBV	707423	1134868	12.58%	2.374%
4	8.881	994	1002	1016	rBV	2088077	3539729	39.23%	7.405%
5	10.510	1269	1279	1298	rBV	761253	1497998	16.60%	3.134%
6	12.986	1692	1700	1720	rBV	5105062	7763813	86.04%	16.241%
7	14.368	1928	1935	1948	rBV	1200861	1873390	20.76%	3.919%
8	15.857	2181	2188	2204	rBV	3737210	5480585	60.74%	11.465%
9	17.109	2394	2401	2414	rBV	1305231	1996363	22.12%	4.176%
10	19.733	2841	2847	2860	rBV	7291555	9023373	100.00%	18.876%
11	20.503	2974	2978	2985	rBV	84643	126947	1.41%	0.266%
12	21.333	3114	3119	3131	rBV	1124335	1844048	20.44%	3.858%
13	24.291	3614	3622	3635	rVB	677450	1799297	19.94%	3.764%

Sum of corrected areas: 47804069

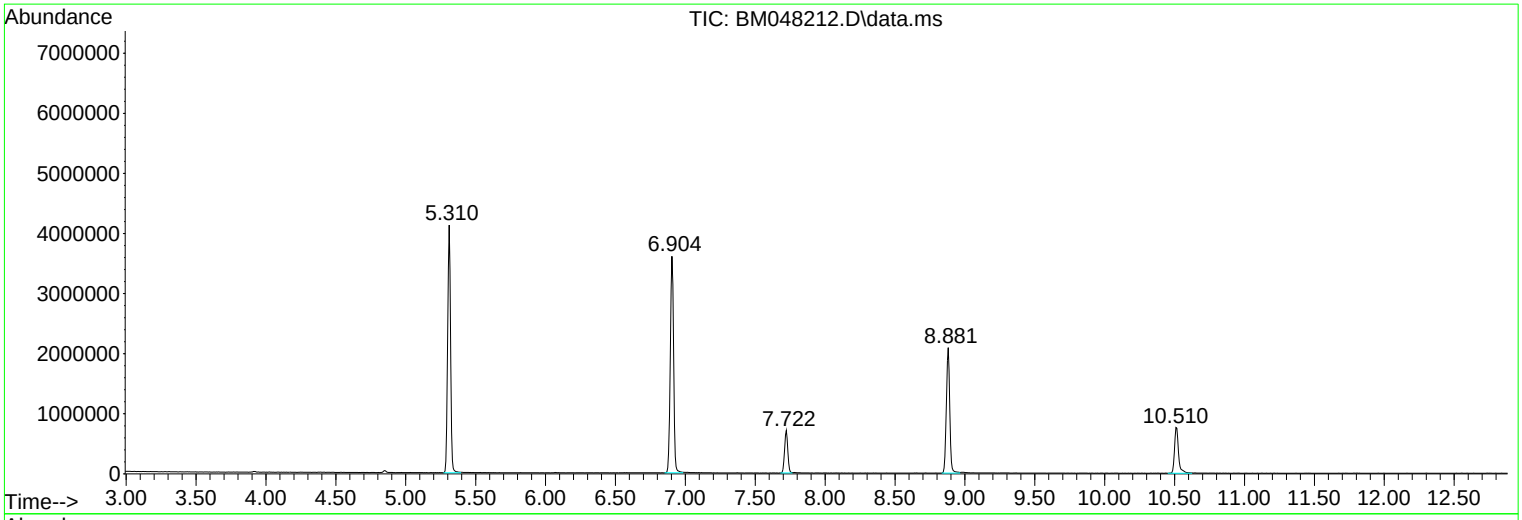
Sample Results: **BM048212.D**

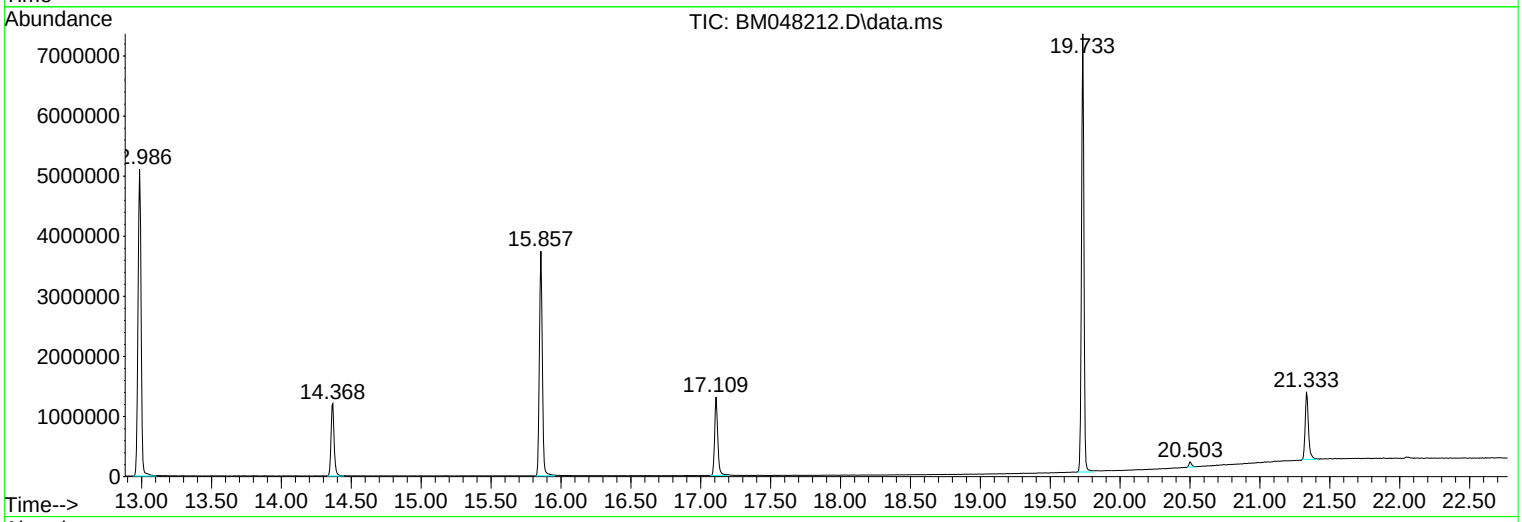
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102424\
Data File : BM048212.D
Acq On : 24 Oct 2024 11:50
Operator : RC/JU
Sample : PB164369BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

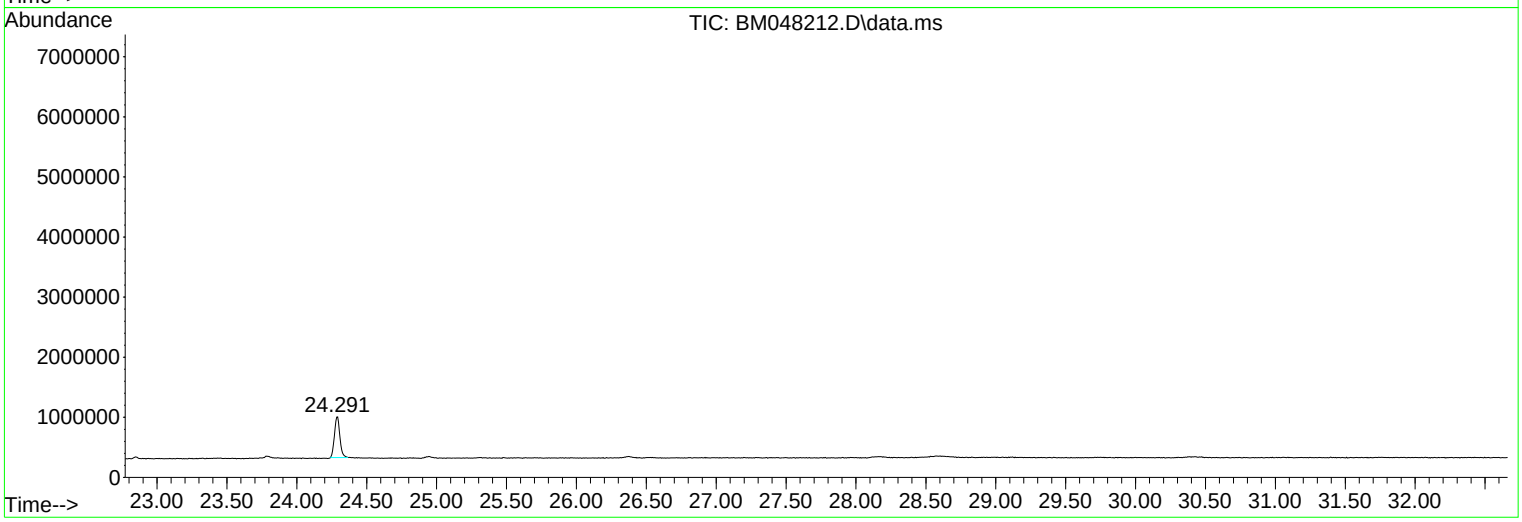
Instrument :
BNA_M
ClientSampleId :
PB164369BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Library Search Compound Report

Sample Results: **BM048212.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102424\
Data File : BM048212.D
Acq On : 24 Oct 2024 11:50
Operator : RC/JU
Sample : PB164369BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB164369BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102324.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_M\Data\BM102424\
Data File : BM048212.D
Acq On : 24 Oct 2024 11:50
Operator : RC/JU
Sample : PB164369BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB164369BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Sample Results: **BF139963.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139963.D
Acq On : 23 Oct 2024 14:33
Operator : RC/JU
Sample : PB164286BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 23 15:04:43 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

Instrument :
BNA_F
ClientSampleId :
PB164286BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	158593	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	620873	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	350222	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	635882	20.000	ng	0.00
76) Chrysene-d12	14.057	240	319612	20.000	ng	0.00
86) Perylene-d12	15.533	264	347575	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1248672	123.258	ng	0.02
7) Phenol-d6	6.516	99	1574829	120.026	ng	0.00
23) Nitrobenzene-d5	7.451	82	1028527	91.814	ng	0.00
42) 2,4,6-Tribromophenol	10.722	330	482928	147.420	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	1833539	86.525	ng	0.00
79) Terphenyl-d14	12.998	244	1877217	95.706	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.763	88	175724	37.203	ng	94
3) Pyridine	3.522	79	462499	39.504	ng	96
4) n-Nitrosodimethylamine	3.469	42	256555	40.786	ng	99
6) Aniline	6.551	93	572321	46.803	ng	98
8) 2-Chlorophenol	6.675	128	470973	45.476	ng	97
9) Benzaldehyde	6.440	77	100752	13.650	ng	96
10) Phenol	6.528	94	584091m	43.180	ng	
11) bis(2-Chloroethyl)ether	6.628	93	449836	43.025	ng	98
12) 1,3-Dichlorobenzene	6.834	146	503588	42.360	ng	99
13) 1,4-Dichlorobenzene	6.910	146	511955	43.104	ng	99
14) 1,2-Dichlorobenzene	7.057	146	489916	44.196	ng	99
15) Benzyl Alcohol	7.028	79	428535	44.525	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	745202	41.800	ng	97
17) 2-Methylphenol	7.134	107	387922	43.927	ng	99
18) Hexachloroethane	7.404	117	184304	43.515	ng	97
19) n-Nitroso-di-n-propyla...	7.304	70	335625	42.176	ng	95
20) 3+4-Methylphenols	7.287	107	474544	42.012	ng	92
22) Acetophenone	7.298	105	644789	42.400	ng	98
24) Nitrobenzene	7.469	77	517121	42.103	ng	100
25) Isophorone	7.710	82	928529	43.671	ng	99
26) 2-Nitrophenol	7.787	139	243091	52.464	ng	95
27) 2,4-Dimethylphenol	7.816	122	395771	51.225	ng	100
28) bis(2-Chloroethoxy)met...	7.916	93	547368	42.491	ng	100
29) 2,4-Dichlorophenol	8.022	162	388777	44.178	ng	99
30) 1,2,4-Trichlorobenzene	8.110	180	408692	41.971	ng	100
31) Naphthalene	8.193	128	1371252	42.824	ng	100
32) Benzoic acid	7.928	122	303453	45.032	ng	97
33) 4-Chloroaniline	8.240	127	359722	32.945	ng	98
34) Hexachlorobutadiene	8.310	225	262325	42.876	ng	100
35) Caprolactam	8.604	113	129060m	46.123	ng	
36) 4-Chloro-3-methylphenol	8.716	107	430883	44.218	ng	97
37) 2-Methylnaphthalene	8.887	142	857996	43.751	ng	99
38) 1-Methylnaphthalene	8.987	142	798971	41.525	ng	99
40) 1,2,4,5-Tetrachloroben...	9.051	216	402191	42.567	ng	99
41) Hexachlorocyclopentadiene	9.040	237	525230	159.761	ng	99
43) 2,4,6-Trichlorophenol	9.157	196	311582	46.578	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139963.D
Acq On : 23 Oct 2024 14:33
Operator : RC/JU
Sample : PB164286BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 23 15:04:43 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

Instrument :
BNA_F
ClientSampleId :
PB164286BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/25/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	308415	44.687	ng		99
46) 1,1'-Biphenyl	9.351	154	1042962	42.778	ng		99
47) 2-Chloronaphthalene	9.375	162	827583	42.145	ng		100
48) 2-Nitroaniline	9.469	65	292014	48.623	ng		92
49) Acenaphthylene	9.792	152	1296649	45.675	ng		100
50) Dimethylphthalate	9.651	163	984207	45.117	ng		100
51) 2,6-Dinitrotoluene	9.710	165	220063	46.591	ng		95
52) Acenaphthene	9.963	154	901159	49.071	ng		100
53) 3-Nitroaniline	9.875	138	177145	36.368	ng		97
54) 2,4-Dinitrophenol	9.986	184	232244	115.216	ng	#	1
55) Dibenzofuran	10.134	168	1145279	43.467	ng		99
56) 4-Nitrophenol	10.034	139	362307	96.682	ng		98
57) 2,4-Dinitrotoluene	10.116	165	295318	50.843	ng		96
58) Fluorene	10.481	166	870747	43.389	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	264684	48.921	ng		96
60) Diethylphthalate	10.351	149	945782	44.157	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	447598	44.165	ng		97
62) 4-Nitroaniline	10.492	138	224753	48.856	ng		96
63) Azobenzene	10.628	77	963247	42.420	ng		98
65) 4,6-Dinitro-2-methylph...	10.522	198	158383	61.064	ng		89
66) n-Nitrosodiphenylamine	10.586	169	820984	43.138	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	288868	44.097	ng		97
68) Hexachlorobenzene	11.022	284	325983	44.247	ng		99
69) Atrazine	11.116	200	265737	51.545	ng		99
70) Pentachlorophenol	11.216	266	400627	89.599	ng		100
71) Phenanthrene	11.439	178	1301995	43.347	ng		100
72) Anthracene	11.492	178	1321841	45.105	ng		100
73) Carbazole	11.645	167	1132997	41.570	ng		99
74) Di-n-butylphthalate	11.975	149	1373983	43.634	ng		100
75) Fluoranthene	12.628	202	1258467	41.445	ng		100
77) Benzidine	12.745	184	417992	79.534	ng		99
78) Pyrene	12.857	202	1262248	45.118	ng		100
80) Butylbenzylphthalate	13.475	149	406282	48.439	ng		98
81) Benzo(a)anthracene	14.045	228	948731	45.600	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	244157	40.249	ng		99
83) Chrysene	14.080	228	852715	44.700	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	467356	49.664	ng		99
85) Di-n-octyl phthalate	14.645	149	808706	47.248	ng		97
87) Indeno(1,2,3-cd)pyrene	17.033	276	1080680	48.330	ng		98
88) Benzo(b)fluoranthene	15.098	252	950470	44.891	ng		100
89) Benzo(k)fluoranthene	15.127	252	757041	41.459	ng		100
90) Benzo(a)pyrene	15.469	252	832975	47.813	ng		99
91) Dibenzo(a,h)anthracene	17.051	278	885004	47.444	ng		99
92) Benzo(g,h,i)perylene	17.486	276	809408	43.441	ng		99

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

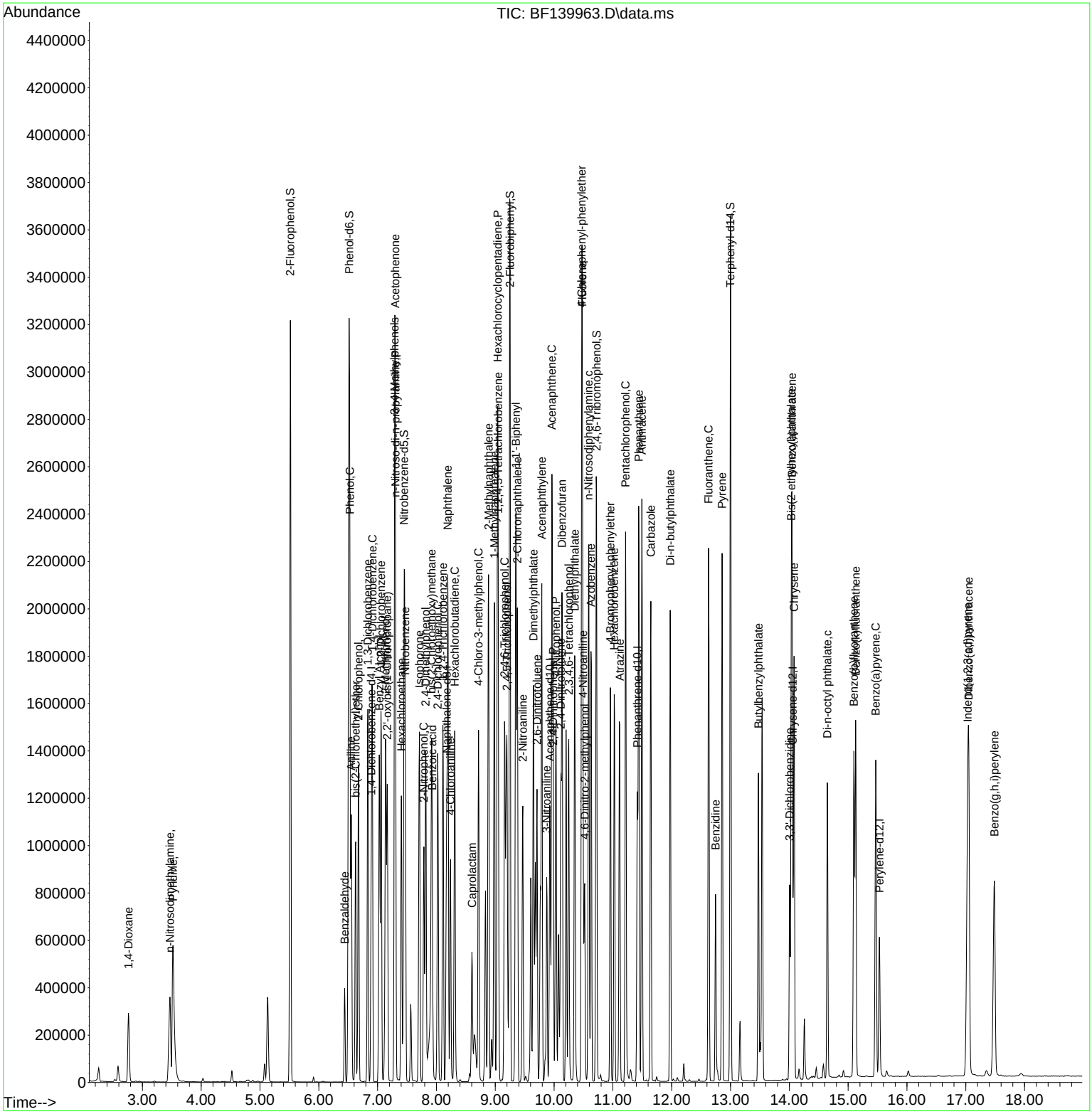
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102324\
Data File : BF139963.D
Acq On : 23 Oct 2024 14:33
Operator : RC/JU
Sample : PB164286BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 23 15:04:43 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

Instrument :
BNA_F
ClientSampleId :
PB164286BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/24/2024
Supervised By :mohammad ahmed 10/25/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102524\
Data File : BM048237.D
Acq On : 25 Oct 2024 15:42
Operator : RC/JU
Sample : PB164369BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB164369BS

Quant Time: Oct 25 16:15:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 23 18:21:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.716	152	198559	20.000	ng		0.00
21) Naphthalene-d8	10.510	136	731104	20.000	ng		0.00
39) Acenaphthene-d10	14.363	164	398895	20.000	ng		0.00
64) Phenanthrene-d10	17.104	188	712540	20.000	ng		0.00
76) Chrysene-d12	21.333	240	616038	20.000	ng		0.00
86) Perylene-d12	24.280	264	708876	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.305	112	1703567	144.219	ng		0.00
7) Phenol-d6	6.899	99	2007808	130.517	ng		0.00
23) Nitrobenzene-d5	8.875	82	1249240	96.478	ng		0.00
42) 2,4,6-Tribromophenol	15.851	330	648289	132.778	ng		0.00
45) 2-Fluorobiphenyl	12.981	172	2572793	98.972	ng		0.00
79) Terphenyl-d14	19.727	244	3098083	102.629	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.205	88	209292	43.285	ng		99
3) Pyridine	3.605	79	543769	42.335	ng		99
4) n-Nitrosodimethylamine	3.511	42	273166	50.089	ng		99
6) Aniline	7.046	93	598377	46.860	ng		99
8) 2-Chlorophenol	7.287	128	621166	48.403	ng		99
9) Benzaldehyde	6.863	77	103315	13.670	ng		99
10) Phenol	6.928	94	739044	47.750	ng		100
11) bis(2-Chloroethyl)ether	7.146	93	594723	48.242	ng		99
12) 1,3-Dichlorobenzene	7.604	146	692926	46.834	ng		100
13) 1,4-Dichlorobenzene	7.752	146	703218	46.784	ng		98
14) 1,2-Dichlorobenzene	8.069	146	675931	46.530	ng		99
15) Benzyl Alcohol	7.963	79	489064	49.832	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.240	45	887225	49.204	ng		98
17) 2-Methylphenol	8.169	107	478037	46.481	ng		99
18) Hexachloroethane	8.793	117	258158	46.860	ng		98
19) n-Nitroso-di-n-propyla...	8.528	70	427366	43.912	ng		99
20) 3+4-Methylphenols	8.498	107	640983	44.991	ng		100
22) Acetophenone	8.540	105	865677	48.516	ng		99
24) Nitrobenzene	8.916	77	639420	47.661	ng		99
25) Isophorone	9.445	82	1114649	46.963	ng		100
26) 2-Nitrophenol	9.628	139	305570	49.329	ng		96
27) 2,4-Dimethylphenol	9.693	122	448080	59.622	ng		99
28) bis(2-Chloroethoxy)met...	9.922	93	720808	47.993	ng		99
29) 2,4-Dichlorophenol	10.163	162	529197	48.948	ng		98
30) 1,2,4-Trichlorobenzene	10.375	180	576417	46.553	ng		99
31) Naphthalene	10.557	128	1791362	46.979	ng		99
32) Benzoic acid	9.851	122	340001	40.643	ng		98
33) 4-Chloroaniline	10.675	127	244821	19.796	ng		99
34) Hexachlorobutadiene	10.845	225	365600	47.641	ng		98
35) Caprolactam	11.469	113	138443	39.421	ng		96
36) 4-Chloro-3-methylphenol	11.810	107	498365	44.158	ng		98
37) 2-Methylnaphthalene	12.175	142	1173125	46.047	ng		99
38) 1-Methylnaphthalene	12.392	142	1084221	42.917	ng		98
40) 1,2,4,5-Tetrachloroben...	12.551	216	592472	51.965	ng	#	98
41) Hexachlorocyclopentadiene	12.528	237	817728	211.949	ng		98
43) 2,4,6-Trichlorophenol	12.792	196	388315	51.322	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102524\
Data File : BM048237.D
Acq On : 25 Oct 2024 15:42
Operator : RC/JU
Sample : PB164369BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB164369BS

Quant Time: Oct 25 16:15:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 23 18:21:59 2024
Response via : Initial Calibration

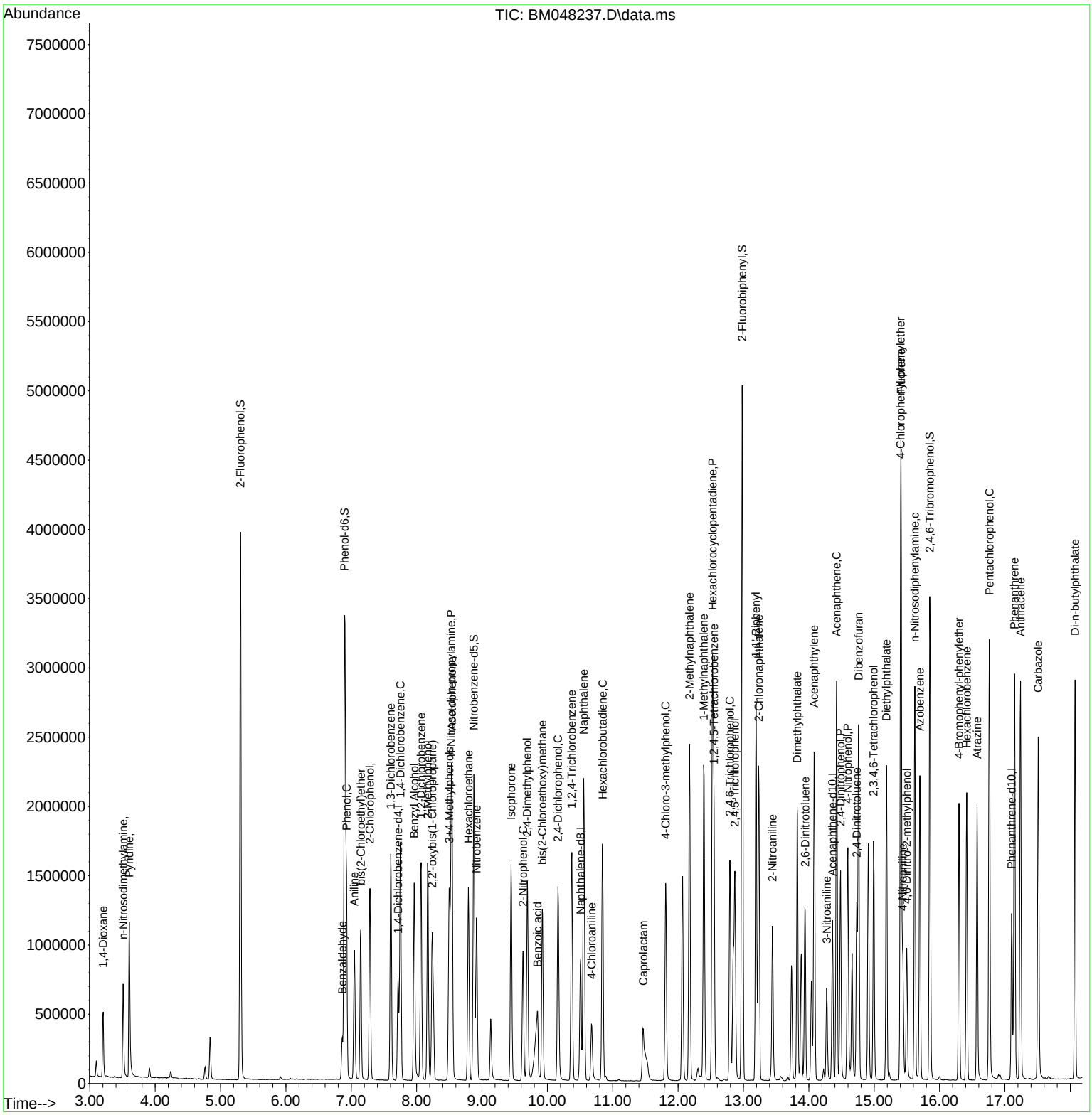
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.869	196	413494	49.007	ng	99
46) 1,1'-Biphenyl	13.192	154	1438193	50.499	ng	100
47) 2-Chloronaphthalene	13.233	162	1111001	49.475	ng	99
48) 2-Nitroaniline	13.445	65	303080	49.763	ng	97
49) Acenaphthylene	14.081	152	1713262	52.295	ng	99
50) Dimethylphthalate	13.822	163	1284546	47.172	ng	99
51) 2,6-Dinitrotoluene	13.945	165	275953	45.417	ng	98
52) Acenaphthene	14.428	154	1032626	49.606	ng	99
53) 3-Nitroaniline	14.275	138	171183	29.874	ng	99
54) 2,4-Dinitrophenol	14.486	184	331785	93.445	ng	97
55) Dibenzofuran	14.763	168	1607974	48.620	ng	99
56) 4-Nitrophenol	14.598	139	484899	94.818	ng	98
57) 2,4-Dinitrotoluene	14.733	165	366700	45.702	ng	99
58) Fluorene	15.410	166	1229017	46.996	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.992	232	337906	48.317	ng	99
60) Diethylphthalate	15.186	149	1248532	45.284	ng	100
61) 4-Chlorophenyl-phenyle...	15.404	204	615954	47.106	ng	98
62) 4-Nitroaniline	15.439	138	266271	44.901	ng	98
63) Azobenzene	15.698	77	1217591	49.273	ng	100
65) 4,6-Dinitro-2-methylph...	15.498	198	207072	50.087	ng	99
66) n-Nitrosodiphenylamine	15.622	169	1038366	53.085	ng	99
67) 4-Bromophenyl-phenylether	16.298	248	370969	51.351	ng	99
68) Hexachlorobenzene	16.416	284	430167	49.577	ng	100
69) Atrazine	16.574	200	348529	63.680	ng	98
70) Pentachlorophenol	16.763	266	557690	97.899	ng	99
71) Phenanthrene	17.145	178	1792677	50.808	ng	100
72) Anthracene	17.239	178	1835874	53.751	ng	100
73) Carbazole	17.510	167	1638769	48.943	ng	100
74) Di-n-butylphthalate	18.074	149	2010401	48.238	ng	100
75) Fluoranthene	19.163	202	1950971	46.354	ng	100
77) Benzidine	19.351	184	693232	97.505	ng	99
78) Pyrene	19.527	202	2076321	50.355	ng	99
80) Butylbenzylphthalate	20.427	149	854251	49.543	ng	99
81) Benzo(a)anthracene	21.315	228	1980643	50.313	ng	100
82) 3,3'-Dichlorobenzidine	21.239	252	503215	37.319	ng	100
83) Chrysene	21.374	228	1889892	50.015	ng	100
84) Bis(2-ethylhexyl)phtha...	21.239	149	1263594	50.421	ng	99
85) Di-n-octyl phthalate	22.351	149	2149398	49.521	ng	100
87) Indeno(1,2,3-cd)pyrene	27.609	276	2611543	55.712	ng	100
88) Benzo(b)fluoranthene	23.350	252	2008564	49.418	ng	100
89) Benzo(k)fluoranthene	23.409	252	2035238	51.792	ng	99
90) Benzo(a)pyrene	24.145	252	1941733	54.952	ng	99
91) Dibenzo(a,h)anthracene	27.650	278	2162109	55.388	ng	100
92) Benzo(g,h,i)perylene	28.644	276	2018651	50.501	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102524\
Data File : BM048237.D
Acq On : 25 Oct 2024 15:42
Operator : RC/JU
Sample : PB164369BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB164369BS

Quant Time: Oct 25 16:15:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 23 18:21:59 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102524\
Data File : BM048233.D
Acq On : 25 Oct 2024 12:58
Operator : RC/JU
Sample : PB164369BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB164369BSD

Quant Time: Oct 25 14:30:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 23 18:21:59 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.716	152	239298	20.000	ng	0.00
21) Naphthalene-d8	10.504	136	913341	20.000	ng	-0.01
39) Acenaphthene-d10	14.363	164	513456	20.000	ng	0.00
64) Phenanthrene-d10	17.104	188	916015	20.000	ng	0.00
76) Chrysene-d12	21.333	240	699111	20.000	ng	0.00
86) Perylene-d12	24.280	264	737917	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.305	112	2081138	146.189	ng	0.00
7) Phenol-d6	6.904	99	2505490	135.141	ng	0.00
23) Nitrobenzene-d5	8.875	82	1533785	94.819	ng	0.00
42) 2,4,6-Tribromophenol	15.857	330	829498	131.986	ng	0.00
45) 2-Fluorobiphenyl	12.981	172	3228427	96.484	ng	0.00
79) Terphenyl-d14	19.733	244	3755388	109.621	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.205	88	233263	40.029	ng	99
3) Pyridine	3.605	79	623685	40.290	ng	99
4) n-Nitrosodimethylamine	3.511	42	318581	48.471	ng	99
6) Aniline	7.052	93	758054	49.258	ng	98
8) 2-Chlorophenol	7.287	128	774078	50.049	ng	100
9) Benzaldehyde	6.863	77	129106	14.174	ng	100
10) Phenol	6.928	94	924498	49.564	ng	99
11) bis(2-Chloroethyl)ether	7.146	93	725750	48.849	ng	99
12) 1,3-Dichlorobenzene	7.604	146	823926	46.207	ng	99
13) 1,4-Dichlorobenzene	7.751	146	833847	46.031	ng	98
14) 1,2-Dichlorobenzene	8.069	146	809563	46.241	ng	99
15) Benzyl Alcohol	7.963	79	614029	51.914	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.240	45	1072710	49.363	ng	98
17) 2-Methylphenol	8.169	107	605318	48.837	ng	99
18) Hexachloroethane	8.793	117	306345	46.140	ng	95
19) n-Nitroso-di-n-propyla...	8.528	70	525529	44.805	ng	99
20) 3+4-Methylphenols	8.498	107	813980	47.407	ng	98
22) Acetophenone	8.540	105	1066939	47.865	ng	99
24) Nitrobenzene	8.916	77	784288	46.795	ng	99
25) Isophorone	9.445	82	1402532	47.302	ng	99
26) 2-Nitrophenol	9.628	139	391898	50.642	ng	99
27) 2,4-Dimethylphenol	9.693	122	572056	60.930	ng	100
28) bis(2-Chloroethoxy)met...	9.922	93	911890	48.601	ng	98
29) 2,4-Dichlorophenol	10.163	162	675572	50.020	ng	99
30) 1,2,4-Trichlorobenzene	10.375	180	710506	45.933	ng	99
31) Naphthalene	10.557	128	2223360	46.674	ng	99
32) Benzoic acid	9.863	122	446917	42.764	ng	98
33) 4-Chloroaniline	10.675	127	319702	20.693	ng	99
34) Hexachlorobutadiene	10.845	225	445942	46.516	ng	97
35) Caprolactam	11.469	113	181897	41.460	ng	94
36) 4-Chloro-3-methylphenol	11.810	107	647545	45.928	ng	99
37) 2-Methylnaphthalene	12.175	142	1480825	46.527	ng	99
38) 1-Methylnaphthalene	12.398	142	1375410	43.580	ng	100
40) 1,2,4,5-Tetrachloroben...	12.551	216	742646	50.604	ng	98
41) Hexachlorocyclopentadiene	12.528	237	1020250	205.439	ng	98
43) 2,4,6-Trichlorophenol	12.792	196	504377	51.788	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102524\
Data File : BM048233.D
Acq On : 25 Oct 2024 12:58
Operator : RC/JU
Sample : PB164369BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB164369BSD

Quant Time: Oct 25 14:30:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 23 18:21:59 2024
Response via : Initial Calibration

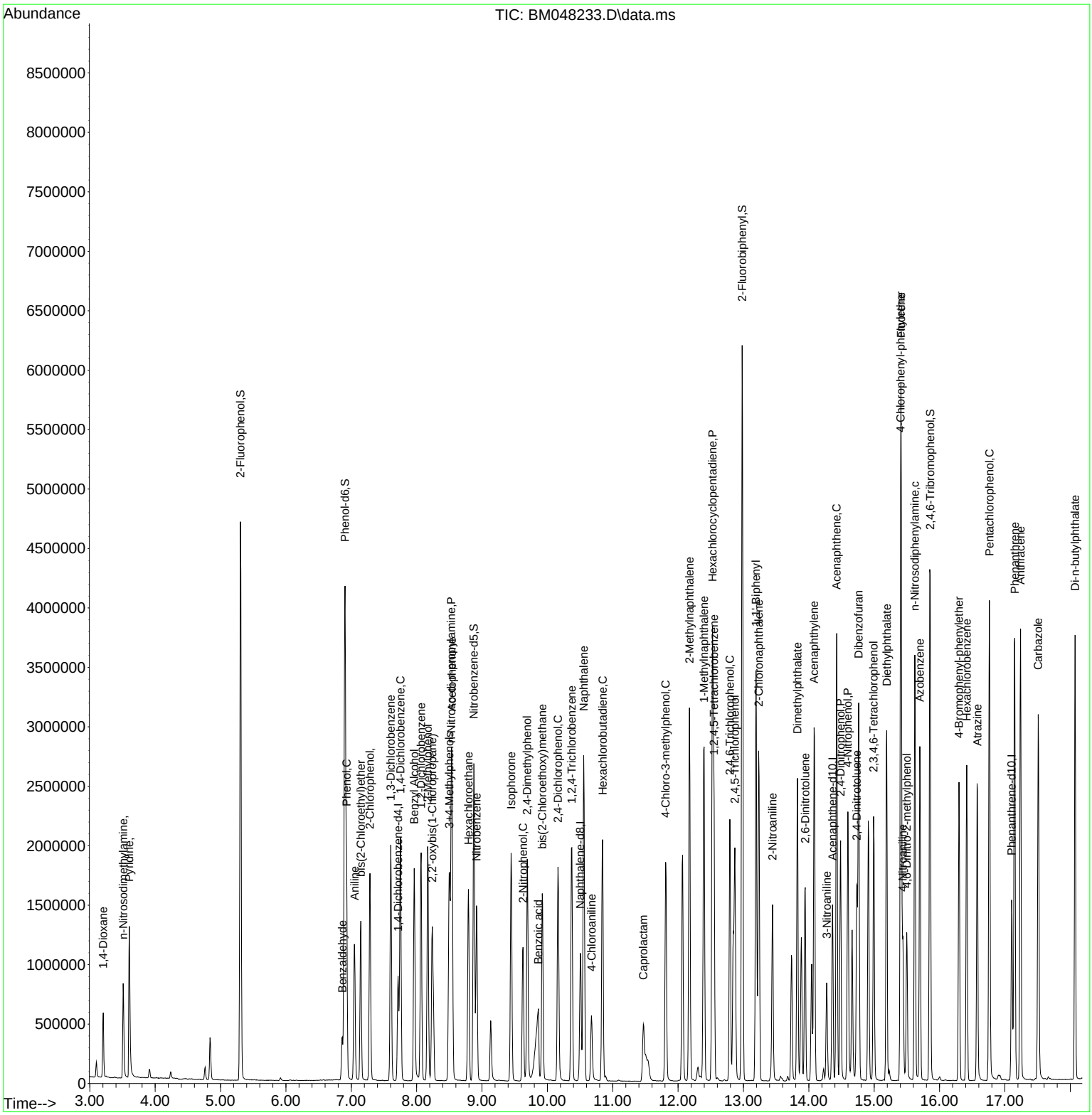
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.869	196	540050	49.726	ng	99
46) 1,1'-Biphenyl	13.192	154	1806463	49.278	ng	99
47) 2-Chloronaphthalene	13.233	162	1401582	48.490	ng	99
48) 2-Nitroaniline	13.445	65	393385	50.179	ng	98
49) Acenaphthylene	14.080	152	2178347	51.656	ng	99
50) Dimethylphthalate	13.828	163	1662733	47.436	ng	99
51) 2,6-Dinitrotoluene	13.945	165	360034	46.034	ng	97
52) Acenaphthene	14.428	154	1307350	48.791	ng	99
53) 3-Nitroaniline	14.275	138	215340	29.196	ng	99
54) 2,4-Dinitrophenol	14.486	184	439629	96.193	ng	99
55) Dibenzofuran	14.763	168	2020924	47.472	ng	99
56) 4-Nitrophenol	14.598	139	632429	96.074	ng	96
57) 2,4-Dinitrotoluene	14.733	165	481215	46.593	ng	100
58) Fluorene	15.410	166	1543051	45.839	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.992	232	434654	48.284	ng	99
60) Diethylphthalate	15.192	149	1634653	46.060	ng	99
61) 4-Chlorophenyl-phenyle...	15.404	204	785377	46.662	ng	98
62) 4-Nitroaniline	15.439	138	346297	45.366	ng	99
63) Azobenzene	15.698	77	1545366	48.584	ng	100
65) 4,6-Dinitro-2-methylph...	15.498	198	277984	52.303	ng	99
66) n-Nitrosodiphenylamine	15.622	169	1329437	52.868	ng	100
67) 4-Bromophenyl-phenylether	16.298	248	471288	50.746	ng	99
68) Hexachlorobenzene	16.416	284	550844	49.383	ng	99
69) Atrazine	16.580	200	451420	64.158	ng	98
70) Pentachlorophenol	16.763	266	712070	97.233	ng	100
71) Phenanthrene	17.151	178	2277951	50.221	ng	99
72) Anthracene	17.239	178	2309397	52.595	ng	99
73) Carbazole	17.510	167	2043704	47.479	ng	99
74) Di-n-butylphthalate	18.074	149	2603062	48.584	ng	100
75) Fluoranthene	19.162	202	2398028	44.320	ng	99
77) Benzidine	19.351	184	846649	104.934	ng	100
78) Pyrene	19.527	202	2548311	54.459	ng	100
80) Butylbenzylphthalate	20.427	149	1033558	52.820	ng	99
81) Benzo(a)anthracene	21.315	228	2272826	50.875	ng	99
82) 3,3'-Dichlorobenzidine	21.239	252	531097	34.706	ng	99
83) Chrysene	21.374	228	2146699	50.061	ng	100
84) Bis(2-ethylhexyl)phtha...	21.239	149	1475826	51.892	ng	99
85) Di-n-octyl phthalate	22.351	149	2440203	49.541	ng	100
87) Indeno(1,2,3-cd)pyrene	27.603	276	2639431	54.091	ng	100
88) Benzo(b)fluoranthene	23.350	252	2179954	51.524	ng	100
89) Benzo(k)fluoranthene	23.409	252	2154133	52.660	ng	99
90) Benzo(a)pyrene	24.145	252	2042425	55.526	ng	99
91) Dibenzo(a,h)anthracene	27.656	278	2177602	53.589	ng	99
92) Benzo(g,h,i)perylene	28.638	276	2034294	48.889	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM102524\
Data File : BM048233.D
Acq On : 25 Oct 2024 12:58
Operator : RC/JU
Sample : PB164369BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB164369BSD

Quant Time: Oct 25 14:30:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM102324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 23 18:21:59 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140006.D
Acq On : 24 Oct 2024 17:45
Operator : RC/JU
Sample : P4460-03MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-BOTMS

Quant Time: Oct 24 18:16:28 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	6.892	152	132812	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	485291	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	253613	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	408327	20.000	ng		0.00
76) Chrysene-d12	14.051	240	231840	20.000	ng		0.00
86) Perylene-d12	15.533	264	316800	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	1009086	118.943	ng		0.01
7) Phenol-d6	6.516	99	1302368	118.528	ng		0.00
23) Nitrobenzene-d5	7.451	82	812163	92.755	ng		0.00
42) 2,4,6-Tribromophenol	10.716	330	332717	140.256	ng		0.00
45) 2-Fluorobiphenyl	9.251	172	1389664	90.559	ng		0.00
79) Terphenyl-d14	12.998	244	1106097	77.742	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.728	88	160935	40.686	ng		95
3) Pyridine	3.487	79	409519	41.768	ng		96
4) n-Nitrosodimethylamine	3.440	42	220343	41.829	ng		94
6) Aniline	6.551	93	423608	41.366	ng		98
8) 2-Chlorophenol	6.675	128	419382	48.355	ng		96
9) Benzaldehyde	6.440	77	89315	14.449	ng		97
10) Phenol	6.528	94	530259m	46.810	ng		
11) bis(2-Chloroethyl)ether	6.628	93	408626	46.670	ng		98
12) 1,3-Dichlorobenzene	6.834	146	451474	45.348	ng		98
13) 1,4-Dichlorobenzene	6.910	146	459485	46.195	ng		98
14) 1,2-Dichlorobenzene	7.063	146	437217	47.098	ng		98
15) Benzyl Alcohol	7.028	79	378417	46.950	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	653421	43.767	ng		96
17) 2-Methylphenol	7.134	107	342003	46.245	ng		99
18) Hexachloroethane	7.404	117	181556	51.187	ng		96
19) n-Nitroso-di-n-propyla...	7.304	70	299954	45.011	ng		95
20) 3+4-Methylphenols	7.287	107	427624	45.207	ng		97
22) Acetophenone	7.298	105	580776	48.861	ng		98
24) Nitrobenzene	7.475	77	447960	46.662	ng		97
25) Isophorone	7.710	82	803381	48.341	ng		99
26) 2-Nitrophenol	7.787	139	212625	58.709	ng		97
27) 2,4-Dimethylphenol	7.822	122	326057	53.992	ng		98
28) bis(2-Chloroethoxy)met...	7.922	93	471268	46.804	ng		99
29) 2,4-Dichlorophenol	8.028	162	329975	47.972	ng		98
30) 1,2,4-Trichlorobenzene	8.116	180	350142	46.004	ng		100
31) Naphthalene	8.198	128	1251711	50.012	ng		100
32) Benzoic acid	7.928	122	241453	45.842	ng	#	77
33) 4-Chloroaniline	8.239	127	147841	17.323	ng		99
34) Hexachlorobutadiene	8.310	225	229807	48.055	ng		99
35) Caprolactam	8.598	113	143053	65.407	ng	#	62
36) 4-Chloro-3-methylphenol	8.716	107	351036	46.089	ng		98
37) 2-Methylnaphthalene	8.886	142	729328	47.580	ng		100
38) 1-Methylnaphthalene	8.986	142	675083	44.889	ng		100
40) 1,2,4,5-Tetrachloroben...	9.051	216	331657	48.473	ng		99
41) Hexachlorocyclopentadiene	9.039	237	397348	166.903	ng		100
43) 2,4,6-Trichlorophenol	9.163	196	239656	49.474	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140006.D
Acq On : 24 Oct 2024 17:45
Operator : RC/JU
Sample : P4460-03MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-BOTMS

Quant Time: Oct 24 18:16:28 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

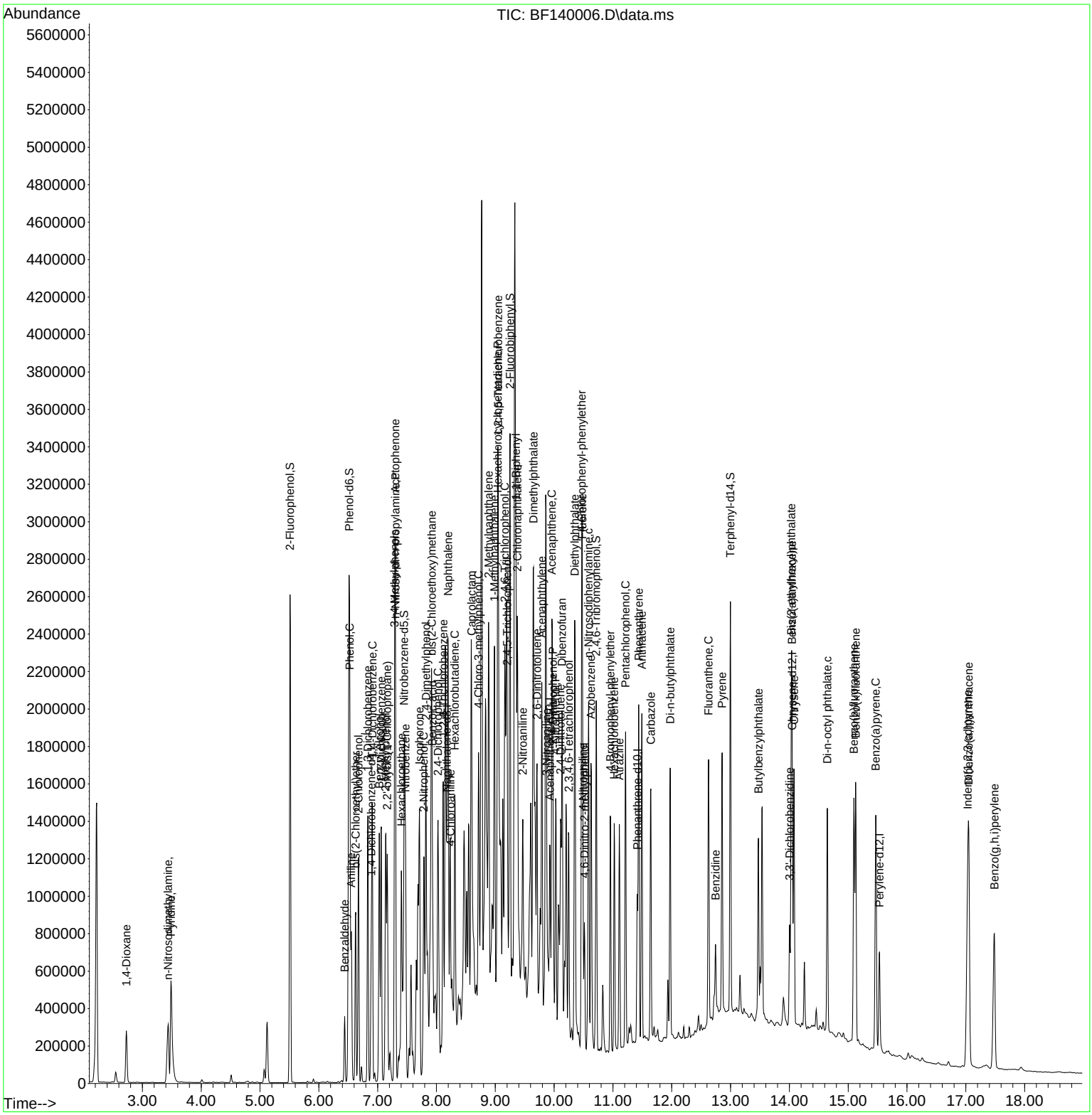
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	238505	47.722	ng	#	94
46) 1,1'-Biphenyl	9.351	154	840716	47.619	ng		99
47) 2-Chloronaphthalene	9.375	162	664744	46.748	ng		99
48) 2-Nitroaniline	9.469	65	227547	52.322	ng		91
49) Acenaphthylene	9.792	152	1047540	50.957	ng		99
50) Dimethylphthalate	9.651	163	751861	47.595	ng		100
51) 2,6-Dinitrotoluene	9.710	165	170904	49.966	ng		94
52) Acenaphthene	9.963	154	725130	54.527	ng		99
53) 3-Nitroaniline	9.875	138	124549	35.311	ng		97
54) 2,4-Dinitrophenol	9.980	184	182941	124.756	ng	#	1
55) Dibenzofuran	10.133	168	924548	48.456	ng		99
56) 4-Nitrophenol	10.028	139	269339	99.252	ng		97
57) 2,4-Dinitrotoluene	10.110	165	231462	55.029	ng	#	97
58) Fluorene	10.480	166	692046	47.620	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.251	232	200756	51.240	ng		96
60) Diethylphthalate	10.351	149	739923	47.705	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	354505	48.304	ng		99
62) 4-Nitroaniline	10.492	138	157376	47.241	ng		98
63) Azobenzene	10.628	77	813162	49.452	ng		97
65) 4,6-Dinitro-2-methylph...	10.516	198	123597	74.208	ng		93
66) n-Nitrosodiphenylamine	10.586	169	639939	52.363	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	223018	53.017	ng		98
68) Hexachlorobenzene	11.022	284	237746	50.253	ng		99
69) Atrazine	11.110	200	203576	61.494	ng		99
70) Pentachlorophenol	11.216	266	281566	98.064	ng		98
71) Phenanthrene	11.439	178	933629	48.406	ng		100
72) Anthracene	11.492	178	955951	50.798	ng		100
73) Carbazole	11.645	167	797681	45.577	ng		99
74) Di-n-butylphthalate	11.974	149	1022219	50.554	ng		99
75) Fluoranthene	12.627	202	809238	41.503	ng		99
77) Benzidine	12.745	184	214417	56.244	ng		99
78) Pyrene	12.857	202	806610	39.747	ng		100
80) Butylbenzylphthalate	13.474	149	311437	51.189	ng		98
81) Benzo(a)anthracene	14.045	228	745519	49.398	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	165952	37.714	ng		98
83) Chrysene	14.080	228	674113	48.716	ng		100
84) Bis(2-ethylhexyl)phtha...	14.033	149	415213	60.828	ng		100
85) Di-n-octyl phthalate	14.645	149	789345	63.576	ng		97
87) Indeno(1,2,3-cd)pyrene	17.033	276	992966	48.721	ng		98
88) Benzo(b)fluoranthene	15.098	252	925046	47.935	ng		100
89) Benzo(k)fluoranthene	15.127	252	736766	44.269	ng		100
90) Benzo(a)pyrene	15.468	252	822922	51.824	ng		99
91) Dibenzo(a,h)anthracene	17.051	278	820090	48.235	ng		98
92) Benzo(g,h,i)perylene	17.486	276	714813	42.091	ng		98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140006.D
Acq On : 24 Oct 2024 17:45
Operator : RC/JU
Sample : P4460-03MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-BOTMS

Quant Time: Oct 24 18:16:28 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\BF102424\
Data File : BF140007.D
Acq On : 24 Oct 2024 18:14
Operator : RC/JU
Sample : P4460-03MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-BOTMSD

Quant Time: Oct 25 01:08:08 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	6.893	152	114465	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	337350	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	176753	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	285247	20.000	ng		0.00
76) Chrysene-d12	14.051	240	164779	20.000	ng		0.00
86) Perylene-d12	15.533	264	222740	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	824926	112.822	ng		0.01
7) Phenol-d6	6.516	99	1325410	139.960	ng		0.00
23) Nitrobenzene-d5	7.451	82	617039	101.374	ng		0.00
42) 2,4,6-Tribromophenol	10.716	330	247008	149.404	ng		0.00
45) 2-Fluorobiphenyl	9.251	172	1051039	98.276	ng		0.00
79) Terphenyl-d14	12.998	244	828244	81.904	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.734	88	133047	39.027	ng		95
3) Pyridine	3.493	79	343491	40.649	ng		96
4) n-Nitrosodimethylamine	3.440	42	201377	44.356	ng		96
6) Aniline	6.551	93	426575	48.333	ng		98
8) 2-Chlorophenol	6.675	128	427918	57.248	ng		97
9) Benzaldehyde	6.440	77	92682	17.397	ng		96
10) Phenol	6.528	94	547354m	56.064	ng		
11) bis(2-Chloroethyl)ether	6.628	93	412436	54.655	ng		99
12) 1,3-Dichlorobenzene	6.834	146	401889	46.837	ng		99
13) 1,4-Dichlorobenzene	6.910	146	392844	45.826	ng		98
14) 1,2-Dichlorobenzene	7.057	146	382366	47.792	ng		99
15) Benzyl Alcohol	7.028	79	339932	48.935	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	493410	38.347	ng		96
17) 2-Methylphenol	7.134	107	260974	40.945	ng		98
18) Hexachloroethane	7.404	117	145603	47.630	ng		97
19) n-Nitroso-di-n-propyla...	7.304	70	225802	39.314	ng		97
20) 3+4-Methylphenols	7.287	107	317036	38.888	ng		94
22) Acetophenone	7.298	105	436315	52.805	ng		99
24) Nitrobenzene	7.475	77	340321	50.996	ng		99
25) Isophorone	7.710	82	602896	52.187	ng		99
26) 2-Nitrophenol	7.787	139	155768	61.872	ng		98
27) 2,4-Dimethylphenol	7.822	122	239425	57.033	ng		96
28) bis(2-Chloroethoxy)met...	7.922	93	345019	49.293	ng		100
29) 2,4-Dichlorophenol	8.028	162	250024	52.289	ng		98
30) 1,2,4-Trichlorobenzene	8.116	180	263493	49.801	ng		100
31) Naphthalene	8.198	128	920714	52.919	ng		100
32) Benzoic acid	7.928	122	169951	46.416	ng	#	70
33) 4-Chloroaniline	8.240	127	107977	18.200	ng		98
34) Hexachlorobutadiene	8.310	225	175596	52.821	ng		99
35) Caprolactam	8.598	113	103349	67.976	ng	#	53
36) 4-Chloro-3-methylphenol	8.716	107	266317	50.300	ng		100
37) 2-Methylnaphthalene	8.887	142	545080	51.155	ng		99
38) 1-Methylnaphthalene	8.987	142	501190	47.941	ng		100
40) 1,2,4,5-Tetrachloroben...	9.051	216	247588	51.921	ng		99
41) Hexachlorocyclopentadiene	9.040	237	300488	181.102	ng		100
43) 2,4,6-Trichlorophenol	9.163	196	178341	52.825	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140007.D
Acq On : 24 Oct 2024 18:14
Operator : RC/JU
Sample : P4460-03MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-BOTMSD

Quant Time: Oct 25 01:08:08 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

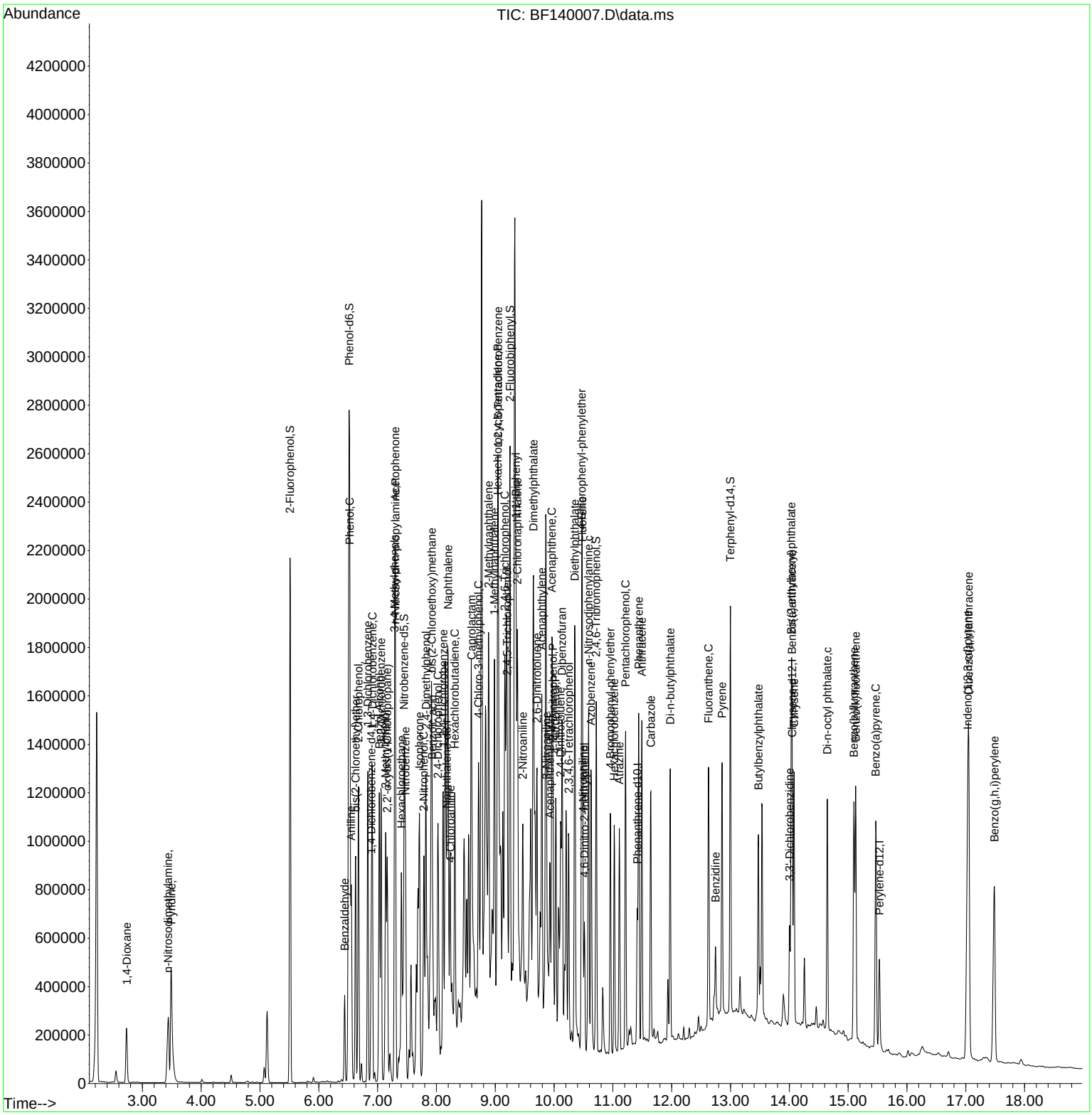
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	177917	51.079	ng	#	94
46) 1,1'-Biphenyl	9.351	154	627889	51.029	ng		98
47) 2-Chloronaphthalene	9.375	162	494241	49.872	ng		98
48) 2-Nitroaniline	9.469	65	174378	57.532	ng		96
49) Acenaphthylene	9.792	152	781851	54.571	ng		99
50) Dimethylphthalate	9.651	163	567442	51.541	ng		100
51) 2,6-Dinitrotoluene	9.710	165	125567	52.675	ng		98
52) Acenaphthene	9.963	154	546490	58.964	ng		100
53) 3-Nitroaniline	9.875	138	89755	36.512	ng		99
54) 2,4-Dinitrophenol	9.981	184	136407	133.016	ng	#	1
55) Dibenzofuran	10.134	168	691704	52.016	ng		99
56) 4-Nitrophenol	10.028	139	201029	106.293	ng		91
57) 2,4-Dinitrotoluene	10.110	165	172391	58.808	ng		99
58) Fluorene	10.481	166	521069	51.447	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	151151	55.355	ng		98
60) Diethylphthalate	10.351	149	569509	52.685	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	266504	52.104	ng		98
62) 4-Nitroaniline	10.492	138	120028	51.697	ng		94
63) Azobenzene	10.628	77	613537	53.537	ng		98
65) 4,6-Dinitro-2-methylph...	10.516	198	92659	79.637	ng		97
66) n-Nitrosodiphenylamine	10.586	169	479294	56.141	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	164323	55.919	ng		99
68) Hexachlorobenzene	11.022	284	179167	54.212	ng		99
69) Atrazine	11.110	200	156202	67.542	ng		98
70) Pentachlorophenol	11.216	266	213326	106.356	ng		99
71) Phenanthrene	11.439	178	700993	52.026	ng		100
72) Anthracene	11.492	178	714722	54.367	ng		100
73) Carbazole	11.645	167	607885	49.719	ng		100
74) Di-n-butylphthalate	11.975	149	775297	54.886	ng		100
75) Fluoranthene	12.628	202	611032	44.860	ng		98
77) Benzidine	12.745	184	156772	57.860	ng		99
78) Pyrene	12.857	202	607684	42.131	ng		99
80) Butylbenzylphthalate	13.475	149	242592	56.100	ng		98
81) Benzo(a)anthracene	14.045	228	567503	52.906	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	124225	39.720	ng		99
83) Chrysene	14.080	228	507254	51.577	ng		100
84) Bis(2-ethylhexyl)phtha...	14.033	149	320782	66.119	ng		100
85) Di-n-octyl phthalate	14.645	149	612589	69.420	ng		99
87) Indeno(1,2,3-cd)pyrene	17.033	276	1006407	70.234	ng		97
88) Benzo(b)fluoranthene	15.098	252	696336	51.321	ng		99
89) Benzo(k)fluoranthene	15.127	252	539757	46.127	ng		99
90) Benzo(a)pyrene	15.468	252	612597	54.870	ng		99
91) Dibenzo(a,h)anthracene	17.051	278	830579	69.482	ng		98
92) Benzo(g,h,i)perylene	17.486	276	729168	61.067	ng		98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140007.D
Acq On : 24 Oct 2024 18:14
Operator : RC/JU
Sample : P4460-03MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-303-BOTMSD

Quant Time: Oct 25 01:08:08 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



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

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
SSTDICC050	BF139849.D	Phenol	yogesh	10/21/2024 6:33:46 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC060	BF139850.D	Phenol	yogesh	10/21/2024 6:33:47 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC080	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

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Manual Integration Report

Sequence:	BF102324	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF139952.D	Phenol	yogesh	10/24/2024 1:42:16 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software
PB164286BS	BF139963.D	Caprolactam	yogesh	10/24/2024 1:42:26 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software
PB164286BS	BF139963.D	Phenol	yogesh	10/24/2024 1:42:26 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software
SSTDCCC040	BF139965.D	Phenol	yogesh	10/24/2024 1:42:27 AM	mohammad	10/25/2024 1:58:50 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BF102424	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF139990.D	Phenol	yogesh	10/25/2024 6:26:47 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software
SSTDCCC040	BF140001.D	Phenol	yogesh	10/25/2024 6:27:19 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software
P4460-03MS	BF140006.D	Phenol	yogesh	10/25/2024 6:27:34 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software
P4460-03MSD	BF140007.D	Phenol	yogesh	10/25/2024 6:27:37 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BF102624	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140050.D	Phenol	yogesh	10/29/2024 1:34:09 AM	mohammad	10/29/2024 1:38:32 AM	Peak Integrated by Software
P4460-02	BF140068.D	Benzo(b)fluoranthene	yogesh	10/29/2024 1:34:19 AM	mohammad	10/29/2024 1:38:32 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bm102324	Instrument	BNA_m

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BM048201.D	Benzaldehyde	yogesh	10/24/2024 1:43:00 AM	mohammad	10/24/2024 1:59:34 AM	Peak Integrated by Software
SSTDICC005	BM048201.D	Benzoic acid	yogesh	10/24/2024 1:43:00 AM	mohammad	10/24/2024 1:59:34 AM	Peak Integrated by Software
SSTDICC005	BM048201.D	Caprolactam	yogesh	10/24/2024 1:43:00 AM	mohammad	10/24/2024 1:59:34 AM	Peak Integrated by Software
SSTDICC010	BM048202.D	Benzaldehyde	yogesh	10/24/2024 1:43:00 AM	mohammad	10/24/2024 1:59:34 AM	Peak Integrated by Software
SSTDICC010	BM048202.D	Benzoic acid	yogesh	10/24/2024 1:43:00 AM	mohammad	10/24/2024 1:59:34 AM	Peak Integrated by Software
SSTDICC010	BM048202.D	Caprolactam	yogesh	10/24/2024 1:43:00 AM	mohammad	10/24/2024 1:59:34 AM	Peak Integrated by Software
SSTDICCC040	BM048204.D	Pyridine	yogesh	10/24/2024 1:43:01 AM	mohammad	10/24/2024 1:59:34 AM	Peak Integrated by Software
SSTDICC050	BM048205.D	Pyridine	yogesh	10/24/2024 1:43:03 AM	mohammad	10/24/2024 1:59:34 AM	Peak Integrated by Software
SSTDICC060	BM048206.D	Pyridine	yogesh	10/24/2024 1:43:05 AM	mohammad	10/24/2024 1:59:34 AM	Peak Integrated by Software
SSTDICC080	BM048207.D	Pyridine	yogesh	10/24/2024 1:43:06 AM	mohammad	10/24/2024 1:59:34 AM	Peak Integrated by Software
SSTDICV040	BM048208.D	Pyridine	yogesh	10/24/2024 1:43:08 AM	mohammad	10/24/2024 1:59:34 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BM102424	Instrument	BNA_m

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BM048211.D	Pyridine	yogesh	10/25/2024 11:53:13 PM	mohammad	10/26/2024 4:14:29 AM	Peak Integrated by Software
SSTDCCC040	BM048226.D	Pyridine	yogesh	10/25/2024 11:53:38 PM	mohammad	10/26/2024 4:14:29 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BM102524	Instrument	BNA_m

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BM048228.D	Pyridine	yogesh	10/25/2024 11:59:12 PM	mohammad	10/28/2024 3:13:37 AM	Peak Integrated by Software
SSTDCCC040	BM048239.D	Pyridine	yogesh	10/25/2024 11:59:51 PM	mohammad	10/28/2024 3:13:37 AM	Peak Integrated by Software

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch 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

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch 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

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102324

Review By	yogesh	Review On	10/24/2024 1:42:44 AM				
Supervise By	mohammad	Supervise On	10/25/2024 1:58:50 AM				
SubDirectory	BF102324	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	BF139951.D	23 Oct 2024 08:52	RC/JU	Ok
2	SSTDCCC040	BF139952.D	23 Oct 2024 09:20	RC/JU	Ok,M
3	PB164020BL	BF139953.D	23 Oct 2024 09:48	RC/JU	Ok
4	PB164020BS	BF139954.D	23 Oct 2024 10:17	RC/JU	Ok,M
5	PB164237BL	BF139955.D	23 Oct 2024 10:45	RC/JU	Ok
6	PB164237BS	BF139956.D	23 Oct 2024 11:14	RC/JU	Ok,M
7	PB164208BL	BF139957.D	23 Oct 2024 11:42	RC/JU	Ok
8	PB164216BS	BF139958.D	23 Oct 2024 12:10	RC/JU	Ok,M
9	PB164123BS	BF139959.D	23 Oct 2024 12:39	RC/JU	Ok,M
10	PB164154BS	BF139960.D	23 Oct 2024 13:07	RC/JU	Ok,M
11	PB164154BSD	BF139961.D	23 Oct 2024 13:36	RC/JU	Ok,M
12	PB164286BL	BF139962.D	23 Oct 2024 14:04	RC/JU	Ok
13	PB164286BS	BF139963.D	23 Oct 2024 14:33	RC/JU	Ok,M
14	DFTPP	BF139964.D	23 Oct 2024 15:01	RC/JU	Ok
15	SSTDCCC040	BF139965.D	23 Oct 2024 15:30	RC/JU	Ok,M
16	PB164195TB	BF139966.D	23 Oct 2024 15:58	RC/JU	Ok
17	P4397-06	BF139967.D	23 Oct 2024 16:32	RC/JU	Ok
18	P4443-06DL	BF139968.D	23 Oct 2024 17:01	RC/JU	Ok,M
19	P4458-01	BF139969.D	23 Oct 2024 17:30	RC/JU	Ok,M
20	P4397-06MS	BF139970.D	23 Oct 2024 17:59	RC/JU	Ok,M
21	P4397-06MSD	BF139971.D	23 Oct 2024 18:28	RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102324

Review By	yogesh	Review On	10/24/2024 1:42:44 AM		
Supervise By	mohammad	Supervise On	10/25/2024 1:58:50 AM		
SubDirectory	BF102324	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	P4472-04	BF139972.D	23 Oct 2024 18:56	RC/JU	Ok
23	P4468-06	BF139973.D	23 Oct 2024 19:25	RC/JU	Ok
24	P4468-04	BF139974.D	23 Oct 2024 19:54	RC/JU	Ok
25	P4397-04	BF139975.D	23 Oct 2024 20:22	RC/JU	Ok
26	P4397-02	BF139976.D	23 Oct 2024 20:51	RC/JU	Ok
27	P4397-02MS	BF139977.D	23 Oct 2024 21:20	RC/JU	Ok,M
28	P4397-02MSD	BF139978.D	23 Oct 2024 21:49	RC/JU	Ok,M
29	P4397-01	BF139979.D	23 Oct 2024 22:17	RC/JU	Ok,M
30	P4468-05	BF139980.D	23 Oct 2024 22:46	RC/JU	Ok
31	P4472-01	BF139981.D	23 Oct 2024 23:14	RC/JU	Ok
32	P4385-20	BF139982.D	23 Oct 2024 23:43	RC/JU	Ok,M
33	P4385-14	BF139983.D	24 Oct 2024 00:11	RC/JU	Ok
34	P4474-01	BF139984.D	24 Oct 2024 00:40	RC/JU	Ok
35	P4473-01	BF139985.D	24 Oct 2024 01:08	RC/JU	Ok
36	P4489-01	BF139986.D	24 Oct 2024 01:37	RC/JU	Dilution
37	P4486-01	BF139987.D	24 Oct 2024 02:06	RC/JU	Ok,M
38	P4468-03	BF139988.D	24 Oct 2024 02:34	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102424

Review By	yogesh	Review On	10/25/2024 6:28:05 AM				
Supervise By	mohammad	Supervise On	10/25/2024 8:37:24 AM				
SubDirectory	BF102424	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	BF139989.D	24 Oct 2024 09:26	RC/JU	Ok
2	SSTDCCC040	BF139990.D	24 Oct 2024 09:55	RC/JU	Ok,M
3	PB164312BL	BF139991.D	24 Oct 2024 10:23	RC/JU	Ok
4	PB164312BS	BF139992.D	24 Oct 2024 10:52	RC/JU	Ok,M
5	PB164315BL	BF139993.D	24 Oct 2024 11:20	RC/JU	Ok
6	PB164315BS	BF139994.D	24 Oct 2024 11:49	RC/JU	Ok,M
7	PB164301TB	BF139995.D	24 Oct 2024 12:17	RC/JU	Ok
8	PB163997BS	BF139996.D	24 Oct 2024 12:53	RC/JU	Ok,M
9	PB164208BS	BF139997.D	24 Oct 2024 13:21	RC/JU	Ok,M
10	PB164338BL	BF139998.D	24 Oct 2024 13:50	RC/JU	Ok
11	PB164338BS	BF139999.D	24 Oct 2024 14:19	RC/JU	Ok,M
12	DFTPP	BF140000.D	24 Oct 2024 14:47	RC/JU	Ok
13	SSTDCCC040	BF140001.D	24 Oct 2024 15:16	RC/JU	Ok,M
14	PB164261TB	BF140002.D	24 Oct 2024 15:44	RC/JU	Ok
15	P4489-01DL	BF140003.D	24 Oct 2024 16:19	RC/JU	Ok
16	P4467-01MS	BF140004.D	24 Oct 2024 16:48	RC/JU	Ok,M
17	P4467-01MSD	BF140005.D	24 Oct 2024 17:17	RC/JU	Ok,M
18	P4460-03MS	BF140006.D	24 Oct 2024 17:45	RC/JU	Ok,M
19	P4460-03MSD	BF140007.D	24 Oct 2024 18:14	RC/JU	Ok,M
20	P4467-04	BF140008.D	24 Oct 2024 18:42	RC/JU	Ok
21	P4472-08	BF140009.D	24 Oct 2024 19:11	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102424

Review By	yogesh	Review On	10/25/2024 6:28:05 AM		
Supervise By	mohammad	Supervise On	10/25/2024 8:37:24 AM		
SubDirectory	BF102424	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	P4460-03	BF140010.D	24 Oct 2024 19:39	RC/JU	ReRun
23	P4471-01	BF140011.D	24 Oct 2024 20:08	RC/JU	Ok
24	P4471-02	BF140012.D	24 Oct 2024 20:36	RC/JU	ReRun
25	P4467-01	BF140013.D	24 Oct 2024 21:04	RC/JU	ReRun
26	P4460-04	BF140014.D	24 Oct 2024 21:33	RC/JU	ReRun
27	P4468-01	BF140015.D	24 Oct 2024 22:01	RC/JU	ReRun
28	P4485-01	BF140016.D	24 Oct 2024 22:29	RC/JU	ReRun
29	P4487-01	BF140017.D	24 Oct 2024 22:58	RC/JU	ReRun
30	P4487-05	BF140018.D	24 Oct 2024 23:26	RC/JU	Ok
31	P4487-05MS	BF140019.D	24 Oct 2024 23:54	RC/JU	Ok,M
32	P4487-05MSD	BF140020.D	25 Oct 2024 00:22	RC/JU	Ok,M
33	P4485-02	BF140021.D	25 Oct 2024 00:50	RC/JU	ReRun
34	P4512-03	BF140022.D	25 Oct 2024 01:19	RC/JU	ReRun
35	P4470-01	BF140023.D	25 Oct 2024 01:46	RC/JU	Ok
36	P4472-05	BF140024.D	25 Oct 2024 02:14	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102624

Review By	yogesh	Review On	10/29/2024 1:34:36 AM				
Supervise By	mohammad	Supervise On	10/29/2024 1:38:32 AM				
SubDirectory	BF102624	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	BF140049.D	26 Oct 2024 10:10	RC/JU	Ok
2	SSTDCCC040	BF140050.D	26 Oct 2024 10:38	RC/JU	Ok,M
3	PB164401BL	BF140051.D	26 Oct 2024 11:06	RC/JU	Ok
4	PB164401BS	BF140052.D	26 Oct 2024 11:34	RC/JU	Ok,M
5	P4508-09	BF140053.D	26 Oct 2024 12:06	RC/JU	Ok
6	P4508-09MS	BF140054.D	26 Oct 2024 12:34	RC/JU	Ok,M
7	P4508-09MSD	BF140055.D	26 Oct 2024 13:02	RC/JU	Ok,M
8	P4547-05	BF140056.D	26 Oct 2024 13:30	RC/JU	Ok
9	P4547-05MS	BF140057.D	26 Oct 2024 13:58	RC/JU	Ok,M
10	P4547-05MSD	BF140058.D	26 Oct 2024 14:27	RC/JU	Ok,M
11	P4508-05	BF140059.D	26 Oct 2024 14:55	RC/JU	Ok
12	P4517-07	BF140060.D	26 Oct 2024 15:23	RC/JU	Ok
13	P4487-08	BF140061.D	26 Oct 2024 15:51	RC/JU	Ok
14	P4460-04	BF140062.D	26 Oct 2024 16:20	RC/JU	Ok
15	P4460-03	BF140063.D	26 Oct 2024 16:48	RC/JU	Ok
16	P4471-02	BF140064.D	26 Oct 2024 17:16	RC/JU	Ok
17	P4508-12	BF140065.D	26 Oct 2024 17:44	RC/JU	Ok
18	P4508-04	BF140066.D	26 Oct 2024 18:12	RC/JU	Ok
19	P4508-08	BF140067.D	26 Oct 2024 18:40	RC/JU	Ok
20	P4460-02	BF140068.D	26 Oct 2024 19:09	RC/JU	Ok,M
21	P4547-01	BF140069.D	26 Oct 2024 19:37	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102624

Review By	yogesh	Review On	10/29/2024 1:34:36 AM		
Supervise By	mohammad	Supervise On	10/29/2024 1:38:32 AM		
SubDirectory	BF102624	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	P4508-01	BF140070.D	26 Oct 2024 20:05	RC/JU	Ok
23	P4545-01	BF140071.D	26 Oct 2024 20:33	RC/JU	Ok,M
24	P4509-01	BF140072.D	26 Oct 2024 21:01	RC/JU	Ok,M
25	P4531-01	BF140073.D	26 Oct 2024 21:29	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM102324

Review By	yogesh	Review On	10/24/2024 1:43:12 AM				
Supervise By	mohammad	Supervise On	10/24/2024 1:59:34 AM				
SubDirectory	BM102324	HP Acquire Method	BNA_M		HP Processing Method	bm102324	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6621,SP6622,SP6623,SP6624,SP6625,SP6626,SP6627,SP6628
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	BM048199.D	23 Oct 2024 11:47	RC/JU	Ok
2	SSTDICC2.5	BM048200.D	23 Oct 2024 12:26	RC/JU	Ok
3	SSTDICC005	BM048201.D	23 Oct 2024 13:05	RC/JU	Ok,M
4	SSTDICC010	BM048202.D	23 Oct 2024 13:45	RC/JU	Ok,M
5	SSTDICC020	BM048203.D	23 Oct 2024 14:24	RC/JU	Ok
6	SSTDICCC040	BM048204.D	23 Oct 2024 15:04	RC/JU	Ok,M
7	SSTDICC050	BM048205.D	23 Oct 2024 15:43	RC/JU	Ok,M
8	SSTDICC060	BM048206.D	23 Oct 2024 16:23	RC/JU	Ok,M
9	SSTDICC080	BM048207.D	23 Oct 2024 17:02	RC/JU	Ok,M
10	SSTDICV040	BM048208.D	23 Oct 2024 17:46	RC/JU	Ok,M
11	PB164286BL	BM048209.D	23 Oct 2024 18:25	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM102424

Review By	yogesh	Review On	10/25/2024 11:54:54 PM				
Supervise By	mohammad	Supervise On	10/26/2024 4:14:29 AM				
SubDirectory	BM102424	HP Acquire Method	BNA_M		HP Processing Method	bm102324	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6621,SP6622,SP6623,SP6624,SP6625,SP6626,SP6627,SP6628
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	BM048210.D	24 Oct 2024 10:31	RC/JU	Ok
2	SSTDCCC040	BM048211.D	24 Oct 2024 11:11	RC/JU	Ok,M
3	PB164369BL	BM048212.D	24 Oct 2024 11:50	RC/JU	Ok
4	P4368-08	BM048213.D	24 Oct 2024 12:29	RC/JU	Ok,M
5	P4368-08	BM048214.D	24 Oct 2024 13:09	RC/JU	Ok,M
6	P4368-07	BM048215.D	24 Oct 2024 13:51	RC/JU	Ok,M
7	P4368-02	BM048216.D	24 Oct 2024 14:30	RC/JU	Ok,M
8	P4368-02	BM048217.D	24 Oct 2024 15:10	RC/JU	Ok,M
9	P4368-08	BM048218.D	24 Oct 2024 15:49	RC/JU	Ok,M
10	P4368-02	BM048219.D	24 Oct 2024 16:29	RC/JU	Ok,M
11	P4368-08	BM048220.D	24 Oct 2024 17:08	RC/JU	Ok,M
12	P4368-02	BM048221.D	24 Oct 2024 17:48	RC/JU	Ok,M
13	P4368-07	BM048222.D	24 Oct 2024 18:27	RC/JU	Ok,M
14	P4368-01	BM048223.D	24 Oct 2024 19:07	RC/JU	Ok,M
15	P4368-01	BM048224.D	24 Oct 2024 19:46	RC/JU	Ok,M
16	PB164366BL	BM048225.D	24 Oct 2024 20:26	RC/JU	Ok
17	SSTDCCC040	BM048226.D	24 Oct 2024 21:05	RC/JU	Ok,M

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM102524

Review By	yogesh	Review On	10/26/2024 12:00:14 AM				
Supervise By	mohammad	Supervise On	10/28/2024 3:13:37 AM				
SubDirectory	BM102524	HP Acquire Method	BNA_M		HP Processing Method	bm102324	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6621,SP6622,SP6623,SP6624,SP6625,SP6626,SP6627,SP6628
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	BM048227.D	25 Oct 2024 08:10	RC/JU	Ok
2	SSTDCCC040	BM048228.D	25 Oct 2024 08:49	RC/JU	Ok,M
3	PB164382BL	BM048229.D	25 Oct 2024 09:28	RC/JU	Ok
4	P4368-09	BM048230.D	25 Oct 2024 10:07	RC/JU	Ok,M
5	P4368-09	BM048231.D	25 Oct 2024 10:47	RC/JU	Ok,M
6	PB164369BS	BM048232.D	25 Oct 2024 12:19	RC/JU	Not Ok
7	PB164369BSD	BM048233.D	25 Oct 2024 12:58	RC/JU	Ok
8	PB164401BL	BM048234.D	25 Oct 2024 13:38	RC/JU	Ok
9	P4368-03	BM048235.D	25 Oct 2024 14:17	RC/JU	Ok,M
10	P4368-03	BM048236.D	25 Oct 2024 14:56	RC/JU	Ok,M
11	PB164369BS	BM048237.D	25 Oct 2024 15:42	RC/JU	Ok
12	P4460-06	BM048238.D	25 Oct 2024 16:21	RC/JU	Ok
13	SSTDCCC040	BM048239.D	25 Oct 2024 17:00	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch 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

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch 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

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102324

Review By	yogesh	Review On	10/24/2024 1:42:44 AM		
Supervise By	mohammad	Supervise On	10/25/2024 1:58:50 AM		
SubDirectory	BF102324	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	BF139951.D	23 Oct 2024 08:52		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF139952.D	23 Oct 2024 09:20		RC/JU	Ok,M
3	PB164020BL	PB164020BL	BF139953.D	23 Oct 2024 09:48		RC/JU	Ok
4	PB164020BS	PB164020BS	BF139954.D	23 Oct 2024 10:17		RC/JU	Ok,M
5	PB164237BL	PB164237BL	BF139955.D	23 Oct 2024 10:45		RC/JU	Ok
6	PB164237BS	PB164237BS	BF139956.D	23 Oct 2024 11:14		RC/JU	Ok,M
7	PB164208BL	PB164208BL	BF139957.D	23 Oct 2024 11:42		RC/JU	Ok
8	PB164216BS	PB164216BS	BF139958.D	23 Oct 2024 12:10		RC/JU	Ok,M
9	PB164123BS	PB164123BS	BF139959.D	23 Oct 2024 12:39		RC/JU	Ok,M
10	PB164154BS	PB164154BS	BF139960.D	23 Oct 2024 13:07		RC/JU	Ok,M
11	PB164154BSD	PB164154BSD	BF139961.D	23 Oct 2024 13:36		RC/JU	Ok,M
12	PB164286BL	PB164286BL	BF139962.D	23 Oct 2024 14:04		RC/JU	Ok
13	PB164286BS	PB164286BS	BF139963.D	23 Oct 2024 14:33		RC/JU	Ok,M
14	DFTPP	DFTPP	BF139964.D	23 Oct 2024 15:01		RC/JU	Ok
15	SSTDCCC040	SSTDCCC040	BF139965.D	23 Oct 2024 15:30		RC/JU	Ok,M
16	PB164195TB	PB164195TB	BF139966.D	23 Oct 2024 15:58		RC/JU	Ok
17	P4397-06	WB-301-BOT	BF139967.D	23 Oct 2024 16:32		RC/JU	Ok
18	P4443-06DL	OG-315-HR-502-COMP	BF139968.D	23 Oct 2024 17:01		RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102324

Review By	yogesh	Review On	10/24/2024 1:42:44 AM		
Supervise By	mohammad	Supervise On	10/25/2024 1:58:50 AM		
SubDirectory	BF102324	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	

19	P4458-01	280517	BF139969.D	23 Oct 2024 17:30		RC/JU	Ok,M
20	P4397-06MS	WB-301-BOTMS	BF139970.D	23 Oct 2024 17:59		RC/JU	Ok,M
21	P4397-06MSD	WB-301-BOTMSD	BF139971.D	23 Oct 2024 18:28		RC/JU	Ok,M
22	P4472-04	BP-F-28	BF139972.D	23 Oct 2024 18:56		RC/JU	Ok
23	P4468-06	ETGI-345	BF139973.D	23 Oct 2024 19:25		RC/JU	Ok
24	P4468-04	ETGI-329	BF139974.D	23 Oct 2024 19:54		RC/JU	Ok
25	P4397-04	WB-301-SW	BF139975.D	23 Oct 2024 20:22		RC/JU	Ok
26	P4397-02	WB-301-BOT	BF139976.D	23 Oct 2024 20:51		RC/JU	Ok
27	P4397-02MS	WB-301-BOTMS	BF139977.D	23 Oct 2024 21:20		RC/JU	Ok,M
28	P4397-02MSD	WB-301-BOTMSD	BF139978.D	23 Oct 2024 21:49		RC/JU	Ok,M
29	P4397-01	WB-301-TOP	BF139979.D	23 Oct 2024 22:17		RC/JU	Ok,M
30	P4468-05	ETGI-345	BF139980.D	23 Oct 2024 22:46		RC/JU	Ok
31	P4472-01	BP-F-28	BF139981.D	23 Oct 2024 23:14		RC/JU	Ok
32	P4385-20	SP-10	BF139982.D	23 Oct 2024 23:43		RC/JU	Ok,M
33	P4385-14	SP-7	BF139983.D	24 Oct 2024 00:11		RC/JU	Ok
34	P4474-01	TS-2	BF139984.D	24 Oct 2024 00:40		RC/JU	Ok
35	P4473-01	TS-1	BF139985.D	24 Oct 2024 01:08		RC/JU	Ok
36	P4489-01	RT-2675	BF139986.D	24 Oct 2024 01:37	Internal Standard Failed, Need 5X Dilution	RC/JU	Dilution
37	P4486-01	EO-03-102224	BF139987.D	24 Oct 2024 02:06		RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102324

Review By	yogesh	Review On	10/24/2024 1:42:44 AM		
Supervise By	mohammad	Supervise On	10/25/2024 1:58:50 AM		
SubDirectory	BF102324	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	

38	P4468-03	ETGI-329	BF139988.D	24 Oct 2024 02:34		RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102424

Review By	yogesh	Review On	10/25/2024 6:28:05 AM		
Supervise By	mohammad	Supervise On	10/25/2024 8:37:24 AM		
SubDirectory	BF102424	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	BF139989.D	24 Oct 2024 09:26		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF139990.D	24 Oct 2024 09:55		RC/JU	Ok,M
3	PB164312BL	PB164312BL	BF139991.D	24 Oct 2024 10:23		RC/JU	Ok
4	PB164312BS	PB164312BS	BF139992.D	24 Oct 2024 10:52		RC/JU	Ok,M
5	PB164315BL	PB164315BL	BF139993.D	24 Oct 2024 11:20		RC/JU	Ok
6	PB164315BS	PB164315BS	BF139994.D	24 Oct 2024 11:49		RC/JU	Ok,M
7	PB164301TB	PB164301TB	BF139995.D	24 Oct 2024 12:17		RC/JU	Ok
8	PB163997BS	PB163997BS	BF139996.D	24 Oct 2024 12:53		RC/JU	Ok,M
9	PB164208BS	PB164208BS	BF139997.D	24 Oct 2024 13:21		RC/JU	Ok,M
10	PB164338BL	PB164338BL	BF139998.D	24 Oct 2024 13:50		RC/JU	Ok
11	PB164338BS	PB164338BS	BF139999.D	24 Oct 2024 14:19		RC/JU	Ok,M
12	DFTPP	DFTPP	BF140000.D	24 Oct 2024 14:47		RC/JU	Ok
13	SSTDCCC040	SSTDCCC040	BF140001.D	24 Oct 2024 15:16		RC/JU	Ok,M
14	PB164261TB	PB164261TB	BF140002.D	24 Oct 2024 15:44		RC/JU	Ok
15	P4489-01DL	RT-2675DL	BF140003.D	24 Oct 2024 16:19	Internal Standard Fail	RC/JU	Ok
16	P4467-01MS	TP-1MS	BF140004.D	24 Oct 2024 16:48		RC/JU	Ok,M
17	P4467-01MSD	TP-1MSD	BF140005.D	24 Oct 2024 17:17		RC/JU	Ok,M
18	P4460-03MS	WB-303-BOTMS	BF140006.D	24 Oct 2024 17:45		RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102424

Review By	yogesh	Review On	10/25/2024 6:28:05 AM		
Supervise By	mohammad	Supervise On	10/25/2024 8:37:24 AM		
SubDirectory	BF102424	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	P4460-03MSD	WB-303-BOTMSD	BF140007.D	24 Oct 2024 18:14		RC/JU	Ok,M
20	P4467-04	TP-1	BF140008.D	24 Oct 2024 18:42		RC/JU	Ok
21	P4472-08	BP-F-6	BF140009.D	24 Oct 2024 19:11		RC/JU	Ok
22	P4460-03	WB-303-BOT	BF140010.D	24 Oct 2024 19:39	Internal Standrad Fail	RC/JU	ReRun
23	P4471-01	B-180-SB01	BF140011.D	24 Oct 2024 20:08		RC/JU	Ok
24	P4471-02	B-180-SB02	BF140012.D	24 Oct 2024 20:36	Internal Standrad Fail	RC/JU	ReRun
25	P4467-01	TP-1	BF140013.D	24 Oct 2024 21:04	Internal Standrad Fail	RC/JU	ReRun
26	P4460-04	WB-303-BOT	BF140014.D	24 Oct 2024 21:33	Internal Standrad Fail	RC/JU	ReRun
27	P4468-01	ETGI-331	BF140015.D	24 Oct 2024 22:01	Internal Standrad Fail	RC/JU	ReRun
28	P4485-01	D20241001-01-04	BF140016.D	24 Oct 2024 22:29	Internal Standrad Fail	RC/JU	ReRun
29	P4487-01	BP-B5	BF140017.D	24 Oct 2024 22:58	Internal Standrad Fail	RC/JU	ReRun
30	P4487-05	BP-F27	BF140018.D	24 Oct 2024 23:26	Internal Standrad Fail	RC/JU	Ok
31	P4487-05MS	BP-F27MS	BF140019.D	24 Oct 2024 23:54	Internal Standrad Fail	RC/JU	Ok,M
32	P4487-05MSD	BP-F27MSD	BF140020.D	25 Oct 2024 00:22	Internal Standrad Fail	RC/JU	Ok,M
33	P4485-02	D20241001-01-04	BF140021.D	25 Oct 2024 00:50	Internal Standrad Fail	RC/JU	ReRun
34	P4512-03	VNJ-212	BF140022.D	25 Oct 2024 01:19	Internal Standrad Fail	RC/JU	ReRun
35	P4470-01	CL-01-102124	BF140023.D	25 Oct 2024 01:46		RC/JU	Ok
36	P4472-05	BP-F-6	BF140024.D	25 Oct 2024 02:14	Internal Standrad Fail	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102624

Review By	yogesh	Review On	10/29/2024 1:34:36 AM		
Supervise By	mohammad	Supervise On	10/29/2024 1:38:32 AM		
SubDirectory	BF102624	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	BF140049.D	26 Oct 2024 10:10		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140050.D	26 Oct 2024 10:38		RC/JU	Ok,M
3	PB164401BL	PB164401BL	BF140051.D	26 Oct 2024 11:06		RC/JU	Ok
4	PB164401BS	PB164401BS	BF140052.D	26 Oct 2024 11:34		RC/JU	Ok,M
5	P4508-09	BP-F22	BF140053.D	26 Oct 2024 12:06		RC/JU	Ok
6	P4508-09MS	BP-F22MS	BF140054.D	26 Oct 2024 12:34		RC/JU	Ok,M
7	P4508-09MSD	BP-F22MSD	BF140055.D	26 Oct 2024 13:02		RC/JU	Ok,M
8	P4547-05	BP-F-20	BF140056.D	26 Oct 2024 13:30		RC/JU	Ok
9	P4547-05MS	BP-F-20MS	BF140057.D	26 Oct 2024 13:58		RC/JU	Ok,M
10	P4547-05MSD	BP-F-20MSD	BF140058.D	26 Oct 2024 14:27		RC/JU	Ok,M
11	P4508-05	BP-F23	BF140059.D	26 Oct 2024 14:55		RC/JU	Ok
12	P4517-07	FOREST-ST-CO	BF140060.D	26 Oct 2024 15:23		RC/JU	Ok
13	P4487-08	BP-B27	BF140061.D	26 Oct 2024 15:51		RC/JU	Ok
14	P4460-04	WB-303-BOT	BF140062.D	26 Oct 2024 16:20		RC/JU	Ok
15	P4460-03	WB-303-BOT	BF140063.D	26 Oct 2024 16:48		RC/JU	Ok
16	P4471-02	B-180-SB02	BF140064.D	26 Oct 2024 17:16		RC/JU	Ok
17	P4508-12	BP-F22	BF140065.D	26 Oct 2024 17:44		RC/JU	Ok
18	P4508-04	TP-3	BF140066.D	26 Oct 2024 18:12		RC/JU	Ok

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102624

Review By	yogesh	Review On	10/29/2024 1:34:36 AM		
Supervise By	mohammad	Supervise On	10/29/2024 1:38:32 AM		
SubDirectory	BF102624	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	P4508-08	BP-F23	BF140067.D	26 Oct 2024 18:40		RC/JU	Ok
20	P4460-02	WB-303-TOP	BF140068.D	26 Oct 2024 19:09		RC/JU	Ok,M
21	P4547-01	BP-F-21	BF140069.D	26 Oct 2024 19:37		RC/JU	Ok
22	P4508-01	TP-3	BF140070.D	26 Oct 2024 20:05		RC/JU	Ok
23	P4545-01	VNJ-215	BF140071.D	26 Oct 2024 20:33		RC/JU	Ok,M
24	P4509-01	AU-06-10232024	BF140072.D	26 Oct 2024 21:01		RC/JU	Ok,M
25	P4531-01	OR-03-102424	BF140073.D	26 Oct 2024 21:29		RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM102324

Review By	yogesh	Review On	10/24/2024 1:43:12 AM		
Supervise By	mohammad	Supervise On	10/24/2024 1:59:34 AM		
SubDirectory	BM102324	HP Acquire Method	BNA_M	HP Processing Method	bm102324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6621,SP6622,SP6623,SP6624,SP6625,SP6626,SP6627,SP6628
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	BM048199.D	23 Oct 2024 11:47		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BM048200.D	23 Oct 2024 12:26		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BM048201.D	23 Oct 2024 13:05	Compound#54,56 removed from 5 ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BM048202.D	23 Oct 2024 13:45		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BM048203.D	23 Oct 2024 14:24		RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BM048204.D	23 Oct 2024 15:04	The Calibration is Good For 8270 DOD Except com#77 and good for 625.1 Method Except com#77	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BM048205.D	23 Oct 2024 15:43	Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BM048206.D	23 Oct 2024 16:23	The calibration Passed for 625.1 Method for all Compounds Except com#77	RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BM048207.D	23 Oct 2024 17:02	Comopunds#9,69 removed from 80 ppm	RC/JU	Ok,M
10	SSTDICV040	ICVBM102324	BM048208.D	23 Oct 2024 17:46		RC/JU	Ok,M
11	PB164286BL	PB164286BL	BM048209.D	23 Oct 2024 18:25		RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM102424

Review By	yogesh	Review On	10/25/2024 11:54:54 PM		
Supervise By	mohammad	Supervise On	10/26/2024 4:14:29 AM		
SubDirectory	BM102424	HP Acquire Method	BNA_M	HP Processing Method	bm102324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6621,SP6622,SP6623,SP6624,SP6625,SP6626,SP6627,SP6628
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	BM048210.D	24 Oct 2024 10:31		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BM048211.D	24 Oct 2024 11:11		RC/JU	Ok,M
3	PB164369BL	PB164369BL	BM048212.D	24 Oct 2024 11:50		RC/JU	Ok
4	P4368-08	LOQ-WATER-02-QT4-2	BM048213.D	24 Oct 2024 12:29	LOQ-WATER-5 PPM (Not used for Compound#6,69)	RC/JU	Ok,M
5	P4368-08	LOQ-WATER-02-QT4-2	BM048214.D	24 Oct 2024 13:09	LOQ-WATER-10 PPM (Not used for Compound#20,35,54,56,77,82,85)	RC/JU	Ok,M
6	P4368-07	LOD-MDL-WATER-01-(	BM048215.D	24 Oct 2024 13:51	LOD-MDL-WATER- 4 ppm	RC/JU	Ok,M
7	P4368-02	LOQ-SOIL-02-QT4-202	BM048216.D	24 Oct 2024 14:30	LOQ-SOIL-5 PPM (Not used for Compound#6,69)	RC/JU	Ok,M
8	P4368-02	LOQ-SOIL-02-QT4-202	BM048217.D	24 Oct 2024 15:10	LOQ-SOIL-10 PPM (Not used for Compound#20,35,54,56,77,82,85)	RC/JU	Ok,M
9	P4368-08	LOQ-WATER-02-QT4-2	BM048218.D	24 Oct 2024 15:49	LOQ-WATER-10 PPM (Use for Compound#20,35,54,56,77,82,85)	RC/JU	Ok,M
10	P4368-02	LOQ-SOIL-02-QT4-202	BM048219.D	24 Oct 2024 16:29	LOQ-SOIL-10 PPM (Use for Compound#20,35,54,56,77,82,85)	RC/JU	Ok,M
11	P4368-08	LOQ-WATER-02-QT4-2	BM048220.D	24 Oct 2024 17:08	LOQ-WATER-5 PPM (Use for Compound#6,69)	RC/JU	Ok,M
12	P4368-02	LOQ-SOIL-02-QT4-202	BM048221.D	24 Oct 2024 17:48	LOQ-SOIL-5 PPM (Use for Compound#6,69)	RC/JU	Ok,M
13	P4368-07	LOD-MDL-WATER-01-(	BM048222.D	24 Oct 2024 18:27	LOD-MDL-WATER- 8 ppm	RC/JU	Ok,M
14	P4368-01	LOD-MDL-SOIL-01-QT-	BM048223.D	24 Oct 2024 19:07	LOD-MDL-SOIL- 4 ppm	RC/JU	Ok,M

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM102424

Review By	yogesh	Review On	10/25/2024 11:54:54 PM		
Supervise By	mohammad	Supervise On	10/26/2024 4:14:29 AM		
SubDirectory	BM102424	HP Acquire Method	BNA_M	HP Processing Method	bm102324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6621,SP6622,SP6623,SP6624,SP6625,SP6626,SP6627,SP6628
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

15	P4368-01	LOD-MDL-SOIL-01-QT	BM048224.D	24 Oct 2024 19:46	LOD-MDL-SOIL- 8 ppm	RC/JU	Ok,M
16	PB164366BL	PB164366BL	BM048225.D	24 Oct 2024 20:26		RC/JU	Ok
17	SSTDCCC040	SSTDCCC040EC	BM048226.D	24 Oct 2024 21:05		RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM102524

Review By	yogesh	Review On	10/26/2024 12:00:14 AM		
Supervise By	mohammad	Supervise On	10/28/2024 3:13:37 AM		
SubDirectory	BM102524	HP Acquire Method	BNA_M	HP Processing Method	bm102324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6621,SP6622,SP6623,SP6624,SP6625,SP6626,SP6627,SP6628
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	BM048227.D	25 Oct 2024 08:10		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BM048228.D	25 Oct 2024 08:49		RC/JU	Ok,M
3	PB164382BL	PB164382BL	BM048229.D	25 Oct 2024 09:28		RC/JU	Ok
4	P4368-09	MDL-WATER-03-QT4-2	BM048230.D	25 Oct 2024 10:07	MDL-WATER-4 ppm	RC/JU	Ok,M
5	P4368-09	MDL-WATER-03-QT4-2	BM048231.D	25 Oct 2024 10:47	MDL-WATER-8 ppm	RC/JU	Ok,M
6	PB164369BS	PB164369BS	BM048232.D	25 Oct 2024 12:19	Internal Standard Fail	RC/JU	Not Ok
7	PB164369BSD	PB164369BSD	BM048233.D	25 Oct 2024 12:58		RC/JU	Ok
8	PB164401BL	PB164401BL	BM048234.D	25 Oct 2024 13:38		RC/JU	Ok
9	P4368-03	MDL-SOIL-03-QT4-202	BM048235.D	25 Oct 2024 14:17	MDL-SOIL-4 ppm	RC/JU	Ok,M
10	P4368-03	MDL-SOIL-03-QT4-202	BM048236.D	25 Oct 2024 14:56	MDL-SOIL-8 ppm	RC/JU	Ok,M
11	PB164369BS	PB164369BS	BM048237.D	25 Oct 2024 15:42		RC/JU	Ok
12	P4460-06	WB-303-SW	BM048238.D	25 Oct 2024 16:21		RC/JU	Ok
13	SSTDCCC040	SSTDCCC040EC	BM048239.D	25 Oct 2024 17:00		RC/JU	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164286

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	10/21/2024
Matrix :	Solid			**Extraction Start Time :**	09:28
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	10/21/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	12:30
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared 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	SP6524
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	EP2551
Sand	N/A	E2865
Methylene Chloride	N/A	E3817
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/21/24	RP (Ext. Lab)	RC/SVOC
12:35	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164286

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 10/21/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164286BL	SBLK286	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			U5-1
PB164286BS	SLCS286	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			2
P4443-01	OG-315-HR-502-COMP-29	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	A		3
P4443-06	OG-315-HR-502-COMP-30	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	A		4
P4452-01	ETGI-285	SVOC-PAH	50.03	N/A	ritesh	Evelyn	1	B	Concrete	5
P4455-01	SU-4-101824	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E		6
P4456-01	PAD-10182024	SVOC-PAH	50.04	N/A	ritesh	Evelyn	1	B	Concrete	U1-1
P4458-01	280517	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	H		2
P4460-02	WB-303-TOP	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1	E		3
P4460-03	WB-303-BOT	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		4
P4460-03MS	WB-303-BOTMS	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	E		5
P4460-03MSD	WB-303-BOTMSD	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		6

* **Extracts relinquished on the same date as received.**

10/21/24

1642586
9:25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4452 **WorkList ID :** 184624 **Department :** Extraction **Date :** 10-21-2024 08:37:45

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4443-01	OG-315-HR-502-COMP-29	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K51	10/17/2024	8270E
P4443-06	OG-315-HR-502-COMP-30	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K51	10/17/2024	8270E
P4452-01	ETGI-285	Solid	SVOC-PAH	Cool 4 deg C	PSEG03	K51	10/17/2024	8270E
P4455-01	SU-4-101824	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K51	10/18/2024	8270E
P4456-01	PAD-10182024	Solid	SVOC-PAH	Cool 4 deg C	PSEG05	K41	10/18/2024	8270E
P4458-01	280517	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K51	10/18/2024	8270E
P4460-02	WB-303-TOP	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K51	10/18/2024	8270E
P4460-03	WB-303-BOT	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K51	10/18/2024	8270E

Date/Time 10/21/24 9:25
Raw Sample Received by: RT (Sept Lab)
Raw Sample Relinquished by:

Date/Time 10/21/24 10:00
Raw Sample Received by:
Raw Sample Relinquished by: RT (Sept Lab)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164369

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3574

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 10/23/2024

Extraction Start Time : 09:50

Extraction End Date : 10/23/2024

Extraction End Time : 14:50

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [✓] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared 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
LOD	1.0ML	~~N/A~~ 4 PPM 5 PPM	SP6507/6508
LOD	1.0ML	~~N/A~~ 8 PPM	SP6509
LOQ	1.0ML	~~N/A~~ 10 PPM	SP6510

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. P4460-06 Limited volume recd.

KD Bath ID: Water bath -01,02

KD Bath Temperature: 60 °C

Envap ID: NE VAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/23/24	RP (Sept 2024)	Ju/SVOC
14:55	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164369

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 10/23/2024

Sample ID	Client Sample ID	Test	g /(mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164369BL	SBLK369	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			SEP11
PB164369BS	SLCS369	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			12
PB164369BSD	SLCSD369	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			13
P4368-07	LOD-MDL-WATER-01-QT4-2024 4 PPM	SVOC-Chemtech Full -25	1000	6	RUPESH	rajesh	1			14
P4368-08	LOQ-WATER-02-QT4-2024 10 PPM	SVOC-Chemtech Full -25	1000	6	RUPESH	rajesh	1			15
P4460-06	WB-303-SW	SVOC-TCL BNA -20	490	6	RUPESH	rajesh	0.5	F		16
	LOD 5 PPM		1000	6			1			Sep9
	LOD 6 PPM		1000	6						10

* **Extracts relinquished on the same date as received.**

10/23/24

164369
3W
9:30

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4460 **WorkList ID :** 184727 **Department :** Extraction **Date :** 10-23-2024 09:44:46

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4368-07	LOD-MDL-WATER-01-QT4-202	Water	SVOC-Chemtech Full -25	Cool 4 deg C	CHEM02	QA Of	10/09/2024	8270E
P4368-08	LOQ-WATER-02-QT4-2024	Water	SVOC-Chemtech Full -25	Cool 4 deg C	CHEM02	QA Of	10/09/2024	8270E
P4460-06	WB-303-SW	Water	EPH	1:1 HCl to pH < 2	PORT06	K51	10/18/2024	NJEPH
P4460-06	WB-303-SW	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K51	10/18/2024	8270E

Date/Time 10/23/24 9:45
Raw Sample Received by: RJ (Set Long)
Raw Sample Relinquished by: RM SM

Date/Time 10/23/24 10:10
Raw Sample Received by: RM SM
Raw Sample Relinquished by: RJ (Set Long)

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

LAB CHRONICLE

OrderID:	P4460	**OrderDate:**	10/18/2024 3:24:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K51,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4460-02	**WB-303-TOP**	**SOIL**			**10/18/24**			**10/18/24**
			SVOC-TCL BNA -20	8270E		10/21/24	10/26/24	
P4460-03	**WB-303-BOT**	**SOIL**			**10/18/24**			**10/18/24**
			SVOC-TCL BNA -20	8270E		10/21/24	10/26/24	
P4460-06	**WB-303-SW**	**Water**			**10/18/24**			**10/18/24**
			SVOC-TCL BNA -20	8270E		10/23/24	10/25/24	