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

Hit Summary Sheet
SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**B-163-SB01**								
Q1415-01	B-163-SB01	SOIL	13-Docosenamide, (Z)-	*	240.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	2-Butenoic acid, methyl ester, (Z)	*	1,400.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	Benzophenone	*	170.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	Diethyl carbonate	*	1,000.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	Heptadecyl heptafluorobutyrate	*	250.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	Hexanedioic acid, 2-methyl-5-met	*	280.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	n-Hexadecanoic acid	*	220.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	unknown10.851	*	96.200	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	unknown14.004	*	80.100	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	unknown14.392	*	98.100	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	unknown14.769	*	120.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	unknown2.293	*	100.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	unknown3.216	*	230.000	J	0	0	ug/Kg
			Total Tics :		**4,284.40**				
			Total Concentration:		**4,284.40**				
Client ID :	**B-172-SB01**								
Q1415-02	B-172-SB01	SOIL	9-Octadecenamide, (Z)-	*	91.000	J	0	0	ug/Kg
Q1415-02	B-172-SB01	SOIL	Benzophenone	*	170.000	J	0	0	ug/Kg
Q1415-02	B-172-SB01	SOIL	n-Hexadecanoic acid	*	100.000	J	0	0	ug/Kg
Q1415-02	B-172-SB01	SOIL	Supraene	*	110.000	J	0	0	ug/Kg
Q1415-02	B-172-SB01	SOIL	Trifluoroacetoxy hexadecane	*	220.000	J	0	0	ug/Kg
			Total Tics :		**691.00**				
			Total Concentration:		**691.00**				
Client ID :	**B-163-SB02**								
Q1415-03	B-163-SB02	SOIL	Benzophenone	*	180.000	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Diethyl carbonate	*	260.000	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	n-Hexadecanoic acid	*	120.000	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Supraene	*	100.000	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	2- Chloropropionic acid, octadecy	*	160.000	J	0	0	ug/Kg
			Total Tics :		**820.00**				
			Total Concentration:		**820.00**				
Client ID :	**B-172-SB02**								
Q1415-04	B-172-SB02	SOIL	Benzophenone	*	190.000	J	0	0	ug/Kg
Q1415-04	B-172-SB02	SOIL	n-Hexadecanoic acid	*	140.000	J	0	0	ug/Kg
Q1415-04	B-172-SB02	SOIL	Supraene	*	95.300	J	0	0	ug/Kg
Q1415-04	B-172-SB02	SOIL	Trifluoroacetoxy hexadecane	*	270.000	J	0	0	ug/Kg

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q1415-04	B-172-SB02	SOIL	unknown2.340	*	230.000	J	0	0	ug/Kg
			Total Tics :		**925.30**				
			Total Concentration:		**925.30**				
Client ID :	**FB02222025**								
Q1415-05	FB02222025	WATER	n-Hexadecanoic acid	*	3.400	J	0	0	ug/L
Q1415-05	FB02222025	WATER	Oleic Acid	*	5.100	J	0	0	ug/L
Q1415-05	FB02222025	WATER	1-(1-tert-Butoxypropan-2-yloxy)p	*	2.300	J	0	0	ug/L
			Total Tics :		**10.80**				
			Total Concentration:		**10.80**				
Client ID :	**B-173-GW01**								
Q1415-06	B-173-GW01	WATER	Diethylphthalate		5.400	J	1.2	5.6	ug/L
Q1415-06	B-173-GW01	WATER	Di-n-butylphthalate		3.100	J	1.6	5.6	ug/L
Q1415-06	B-173-GW01	WATER	1,4-Dioxane		3.900	J	1.4	5.6	ug/L
			Total Svoc :		**12.40**				
Q1415-06	B-173-GW01	WATER	1,2-Benzenedicarboxylic acid, but	*	5.300	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	1H-Benzotriazole, 4-methyl-	*	10.100	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	1-Isobutoxy-2-ethylhexane	*	8.800	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	2.500	A	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Adipic acid, butyl 2-methylpent-3	*	49.700	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Benzophenone	*	21.000	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Butyl citrate	*	3.600	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Decane	*	4.900	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Ethanol, 2-butoxy-	*	3.300	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Heptadecyl heptafluorobutyrate	*	5.400	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Methanone, (1-hydroxycyclohexy	*	4.700	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Naphthalene, decahydro-, trans-	*	3.200	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Octadecanoic acid	*	8.700	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Squalene	*	3.200	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Sulfurous acid, decyl 2-ethylhexyl	*	4.500	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Tetradecane	*	8.200	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	Tridecane	*	10.200	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	unknown2.263	*	2.300	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	unknown8.357	*	3.600	J	0	0	ug/L
Q1415-06	B-173-GW01	WATER	unknown9.739	*	2.500	J	0	0	ug/L
			Total Tics :		**165.70**				
			Total Concentration:		**178.10**				

SAMPLE DATA

Raw Data: **BF141769.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:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141769.D	1	02/25/25 09:30	02/25/25 17:34	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	U	210	370	ug/Kg
108-95-2	Phenol	93.5	U	93.5	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	94.4	U	94.4	190	ug/Kg
95-57-8	2-Chlorophenol	94.2	U	94.2	190	ug/Kg
95-48-7	2-Methylphenol	90.9	U	90.9	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	U	100	190	ug/Kg
98-86-2	Acetophenone	98.0	U	98.0	190	ug/Kg
65794-96-9	3+4-Methylphenols	90.0	U	90.0	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	45.4	U	45.4	90.2	ug/Kg
67-72-1	Hexachloroethane	93.6	U	93.6	190	ug/Kg
98-95-3	Nitrobenzene	100	U	100	190	ug/Kg
78-59-1	Isophorone	95.4	U	95.4	190	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	96.8	U	96.8	190	ug/Kg
120-83-2	2,4-Dichlorophenol	85.1	U	85.1	190	ug/Kg
91-20-3	Naphthalene	93.1	U	93.1	190	ug/Kg
106-47-8	4-Chloroaniline	93.1	UQ	93.1	190	ug/Kg
87-68-3	Hexachlorobutadiene	93.9	U	93.9	190	ug/Kg
105-60-2	Caprolactam	97.9	U	97.9	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	87.4	U	87.4	190	ug/Kg
91-57-6	2-Methylnaphthalene	93.0	U	93.0	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	180	U	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	80.5	U	80.5	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	83.4	U	83.4	190	ug/Kg
92-52-4	1,1-Biphenyl	98.6	U	98.6	190	ug/Kg
91-58-7	2-Chloronaphthalene	93.9	U	93.9	190	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	190	ug/Kg
131-11-3	Dimethylphthalate	92.1	U	92.1	190	ug/Kg

Raw Data: **BF141769.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:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141769.D	1	02/25/25 09:30	02/25/25 17:34	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	97.5	U	97.5	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	93.8	U	93.8	190	ug/Kg
99-09-2	3-Nitroaniline	100	UQ	100	190	ug/Kg
83-32-9	Acenaphthene	91.5	U	91.5	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	370	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	370	ug/Kg
132-64-9	Dibenzofuran	95.2	U	95.2	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	97.2	U	97.2	190	ug/Kg
84-66-2	Diethylphthalate	90.3	U	90.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	96.5	U	96.5	190	ug/Kg
86-73-7	Fluorene	96.4	U	96.4	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	92.0	U	92.0	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	89.0	U	89.0	190	ug/Kg
118-74-1	Hexachlorobenzene	95.9	U	95.9	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	87.2	U	87.2	370	ug/Kg
85-01-8	Phenanthrene	94.7	U	94.7	190	ug/Kg
120-12-7	Anthracene	95.2	U	95.2	190	ug/Kg
86-74-8	Carbazole	90.6	U	90.6	190	ug/Kg
84-74-2	Di-n-butylphthalate	95.1	U	95.1	190	ug/Kg
206-44-0	Fluoranthene	92.1	U	92.1	190	ug/Kg
129-00-0	Pyrene	93.6	U	93.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	370	ug/Kg
56-55-3	Benzo(a)anthracene	91.0	U	91.0	190	ug/Kg
218-01-9	Chrysene	89.7	U	89.7	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	91.5	U	91.5	190	ug/Kg

Raw Data: **BF141769.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:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141769.D	1	02/25/25 09:30	02/25/25 17:34	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	93.1	U	93.1	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	88.1	U	88.1	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	91.6	U	91.6	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	90.3	U	90.3	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	97.9	U	97.9	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	84.2	U	84.2	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	99.4		30 (18) - 130 (112)	66%	SPK: 150
13127-88-3	Phenol-d6	93.1		30 (15) - 130 (107)	62%	SPK: 150
4165-60-0	Nitrobenzene-d5	68.9		30 (18) - 130 (107)	69%	SPK: 100
321-60-8	2-Fluorobiphenyl	77.3		30 (20) - 130 (109)	77%	SPK: 100
118-79-6	2,4,6-Tribromophenol	84.2		30 (10) - 130 (116)	56%	SPK: 150
1718-51-0	Terphenyl-d14	58.5		30 (10) - 130 (105)	59%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	65700	6.781			
1146-65-2	Naphthalene-d8	241000	8.063			
15067-26-2	Acenaphthene-d10	115000	9.816			
1517-22-2	Phenanthrene-d10	182000	11.298			
1719-03-5	Chrysene-d12	153000	13.939			
1520-96-3	Perylene-d12	176000	15.38			
TENTATIVE IDENTIFIED COMPOUNDS						
	unknown2.293	100	J		2.29	ug/Kg
004358-59-2	2-Butenoic acid, methyl ester, (Z)	1400	J		2.54	ug/Kg
	unknown3.216	230	J		3.22	ug/Kg
000105-58-8	Diethyl carbonate	1000	J		4.17	ug/Kg
004513-62-6	Hexanedioic acid, 2-methyl-5-methy	280	J		8.79	ug/Kg
000119-61-9	Benzophenone	170	J		10.5	ug/Kg
	unknown10.851	96.2	J		10.9	ug/Kg

Raw Data: **BF141769.D**

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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:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141769.D	1	02/25/25 09:30	02/25/25 17:34	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000057-10-3	n-Hexadecanoic acid	220	J		11.8	ug/Kg
959085-66-6	Heptadecyl heptafluorobutyrate	250	J		13.8	ug/Kg
	unknown14.004	80.1	J		14.0	ug/Kg
	unknown14.392	98.1	J		14.4	ug/Kg
000112-84-5	13-Docosenamide, (Z)-	240	J		14.7	ug/Kg
	unknown14.769	120	J		14.8	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: **BF141768.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:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141768.D	1	02/25/25 09:30	02/25/25 17:05	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	U	210	380	ug/Kg
108-95-2	Phenol	95.4	U	95.4	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	96.4	U	96.4	200	ug/Kg
95-57-8	2-Chlorophenol	96.1	U	96.1	200	ug/Kg
95-48-7	2-Methylphenol	92.8	U	92.8	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	U	100	200	ug/Kg
98-86-2	Acetophenone	100	U	100	200	ug/Kg
65794-96-9	3+4-Methylphenols	91.9	U	91.9	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	46.4	U	46.4	92.1	ug/Kg
67-72-1	Hexachloroethane	95.6	U	95.6	200	ug/Kg
98-95-3	Nitrobenzene	100	U	100	200	ug/Kg
78-59-1	Isophorone	97.4	U	97.4	200	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	98.8	U	98.8	200	ug/Kg
120-83-2	2,4-Dichlorophenol	86.9	U	86.9	200	ug/Kg
91-20-3	Naphthalene	95.1	U	95.1	200	ug/Kg
106-47-8	4-Chloroaniline	95.1	UQ	95.1	200	ug/Kg
87-68-3	Hexachlorobutadiene	95.9	U	95.9	200	ug/Kg
105-60-2	Caprolactam	99.9	U	99.9	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	89.2	U	89.2	200	ug/Kg
91-57-6	2-Methylnaphthalene	95.0	U	95.0	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	180	U	180	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	82.2	U	82.2	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	85.2	U	85.2	200	ug/Kg
92-52-4	1,1-Biphenyl	100	U	100	200	ug/Kg
91-58-7	2-Chloronaphthalene	95.9	U	95.9	200	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	200	ug/Kg
131-11-3	Dimethylphthalate	94.1	U	94.1	200	ug/Kg

Raw Data: **BF141768.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:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141768.D	1	02/25/25 09:30	02/25/25 17:05	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	99.6	U	99.6	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	95.8	U	95.8	200	ug/Kg
99-09-2	3-Nitroaniline	100	UQ	100	200	ug/Kg
83-32-9	Acenaphthene	93.4	U	93.4	200	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	380	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	380	ug/Kg
132-64-9	Dibenzofuran	97.2	U	97.2	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	99.2	U	99.2	200	ug/Kg
84-66-2	Diethylphthalate	92.2	U	92.2	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	98.5	U	98.5	200	ug/Kg
86-73-7	Fluorene	98.4	U	98.4	200	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	93.9	U	93.9	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	90.8	U	90.8	200	ug/Kg
118-74-1	Hexachlorobenzene	97.9	U	97.9	200	ug/Kg
1912-24-9	Atrazine	110	U	110	200	ug/Kg
87-86-5	Pentachlorophenol	89.0	U	89.0	380	ug/Kg
85-01-8	Phenanthrene	96.7	U	96.7	200	ug/Kg
120-12-7	Anthracene	97.2	U	97.2	200	ug/Kg
86-74-8	Carbazole	92.4	U	92.4	200	ug/Kg
84-74-2	Di-n-butylphthalate	97.1	U	97.1	200	ug/Kg
206-44-0	Fluoranthene	94.1	U	94.1	200	ug/Kg
129-00-0	Pyrene	95.6	U	95.6	200	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	380	ug/Kg
56-55-3	Benzo(a)anthracene	92.9	U	92.9	200	ug/Kg
218-01-9	Chrysene	91.5	U	91.5	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	200	ug/Kg
117-84-0	Di-n-octyl phthalate	130	U	130	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	93.4	U	93.4	200	ug/Kg

Raw Data: **BF141768.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:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141768.D	1	02/25/25 09:30	02/25/25 17:05	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	95.1	U	95.1	200	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	89.9	U	89.9	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	93.5	U	93.5	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	92.2	U	92.2	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	99.9	U	99.9	200	ug/Kg
123-91-1	1,4-Dioxane	130	U	130	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	86.0	U	86.0	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	91.6		30 (18) - 130 (112)	61%	SPK: 150
13127-88-3	Phenol-d6	90.3		30 (15) - 130 (107)	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	61.9		30 (18) - 130 (107)	62%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.5		30 (20) - 130 (109)	65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	79.7		30 (10) - 130 (116)	53%	SPK: 150
1718-51-0	Terphenyl-d14	60.8		30 (10) - 130 (105)	61%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	68700	6.781			
1146-65-2	Naphthalene-d8	275000	8.063			
15067-26-2	Acenaphthene-d10	147000	9.81			
1517-22-2	Phenanthrene-d10	243000	11.298			
1719-03-5	Chrysene-d12	170000	13.939			
1520-96-3	Perylene-d12	177000	15.386			
TENTATIVE IDENTIFIED COMPOUNDS						
000119-61-9	Benzophenone	170	J		10.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	100	J		11.8	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	220	J		13.8	ug/Kg
000301-02-0	9-Octadecenamide, (Z)-	91.0	J		14.7	ug/Kg
007683-64-9	Supraene	110	J		14.8	ug/Kg

Raw Data: **BF141768.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:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141768.D	1	02/25/25 09:30	02/25/25 17:05	PB166853

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

Raw Data: **BF141767.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:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	72.4
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
BF141767.D	1	02/25/25 09:30	02/25/25 16:35	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	250	U	250	460	ug/Kg
108-95-2	Phenol	110	U	110	230	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	120	U	120	230	ug/Kg
95-57-8	2-Chlorophenol	120	U	120	230	ug/Kg
95-48-7	2-Methylphenol	110	U	110	230	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	130	U	130	230	ug/Kg
98-86-2	Acetophenone	120	U	120	230	ug/Kg
65794-96-9	3+4-Methylphenols	110	U	110	460	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.6	U	55.6	110	ug/Kg
67-72-1	Hexachloroethane	110	U	110	230	ug/Kg
98-95-3	Nitrobenzene	130	U	130	230	ug/Kg
78-59-1	Isophorone	120	U	120	230	ug/Kg
88-75-5	2-Nitrophenol	130	U	130	230	ug/Kg
105-67-9	2,4-Dimethylphenol	130	U	130	230	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	120	U	120	230	ug/Kg
120-83-2	2,4-Dichlorophenol	100	U	100	230	ug/Kg
91-20-3	Naphthalene	110	U	110	230	ug/Kg
106-47-8	4-Chloroaniline	110	UQ	110	230	ug/Kg
87-68-3	Hexachlorobutadiene	110	U	110	230	ug/Kg
105-60-2	Caprolactam	120	U	120	460	ug/Kg
59-50-7	4-Chloro-3-methylphenol	110	U	110	230	ug/Kg
91-57-6	2-Methylnaphthalene	110	U	110	230	ug/Kg
77-47-4	Hexachlorocyclopentadiene	220	U	220	460	ug/Kg
88-06-2	2,4,6-Trichlorophenol	98.6	U	98.6	230	ug/Kg
95-95-4	2,4,5-Trichlorophenol	100	U	100	230	ug/Kg
92-52-4	1,1-Biphenyl	120	U	120	230	ug/Kg
91-58-7	2-Chloronaphthalene	110	U	110	230	ug/Kg
88-74-4	2-Nitroaniline	130	U	130	230	ug/Kg
131-11-3	Dimethylphthalate	110	U	110	230	ug/Kg

Raw Data: **BF141767.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	72.4
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
BF141767.D	1	02/25/25 09:30	02/25/25 16:35	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	120	U	120	230	ug/Kg
606-20-2	2,6-Dinitrotoluene	110	U	110	230	ug/Kg
99-09-2	3-Nitroaniline	120	UQ	120	230	ug/Kg
83-32-9	Acenaphthene	110	U	110	230	ug/Kg
51-28-5	2,4-Dinitrophenol	340	U	340	460	ug/Kg
100-02-7	4-Nitrophenol	160	U	160	460	ug/Kg
132-64-9	Dibenzofuran	120	U	120	230	ug/Kg
121-14-2	2,4-Dinitrotoluene	120	U	120	230	ug/Kg
84-66-2	Diethylphthalate	110	U	110	230	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	120	U	120	230	ug/Kg
86-73-7	Fluorene	120	U	120	230	ug/Kg
100-01-6	4-Nitroaniline	150	U	150	230	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	160	U	160	460	ug/Kg
86-30-6	n-Nitrosodiphenylamine	110	U	110	230	ug/Kg
101-55-3	4-Bromophenyl-phenylether	110	U	110	230	ug/Kg
118-74-1	Hexachlorobenzene	120	U	120	230	ug/Kg
1912-24-9	Atrazine	130	U	130	230	ug/Kg
87-86-5	Pentachlorophenol	110	U	110	460	ug/Kg
85-01-8	Phenanthrene	120	U	120	230	ug/Kg
120-12-7	Anthracene	120	U	120	230	ug/Kg
86-74-8	Carbazole	110	U	110	230	ug/Kg
84-74-2	Di-n-butylphthalate	120	U	120	230	ug/Kg
206-44-0	Fluoranthene	110	U	110	230	ug/Kg
129-00-0	Pyrene	110	U	110	230	ug/Kg
85-68-7	Butylbenzylphthalate	130	U	130	230	ug/Kg
91-94-1	3,3-Dichlorobenzidine	140	UQ	140	460	ug/Kg
56-55-3	Benzo(a)anthracene	110	U	110	230	ug/Kg
218-01-9	Chrysene	110	U	110	230	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	130	U	130	230	ug/Kg
117-84-0	Di-n-octyl phthalate	150	U	150	460	ug/Kg
205-99-2	Benzo(b)fluoranthene	110	U	110	230	ug/Kg

Raw Data: **BF141767.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:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	72.4
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
BF141767.D	1	02/25/25 09:30	02/25/25 16:35	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	110	U	110	230	ug/Kg
50-32-8	Benzo(a)pyrene	130	U	130	230	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	110	U	110	230	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	110	U	110	230	ug/Kg
191-24-2	Benzo(g,h,i)perylene	110	U	110	230	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	120	U	120	230	ug/Kg
123-91-1	1,4-Dioxane	150	U	150	230	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	100	U	100	230	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	83.6		30 (18) - 130 (112)	56%	SPK: 150
13127-88-3	Phenol-d6	81.5		30 (15) - 130 (107)	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	54.3		30 (18) - 130 (107)	54%	SPK: 100
321-60-8	2-Fluorobiphenyl	59.3		30 (20) - 130 (109)	59%	SPK: 100
118-79-6	2,4,6-Tribromophenol	72.1		30 (10) - 130 (116)	48%	SPK: 150
1718-51-0	Terphenyl-d14	54.8		30 (10) - 130 (105)	55%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	74400	6.781			
1146-65-2	Naphthalene-d8	293000	8.063			
15067-26-2	Acenaphthene-d10	154000	9.81			
1517-22-2	Phenanthrene-d10	249000	11.298			
1719-03-5	Chrysene-d12	169000	13.939			
1520-96-3	Perylene-d12	185000	15.386			
TENTATIVE IDENTIFIED COMPOUNDS						
000105-58-8	Diethyl carbonate	260	J		4.17	ug/Kg
000119-61-9	Benzophenone	180	J		10.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	120	J		11.8	ug/Kg
088104-31-8	2- Chloropropionic acid, octadecyl	160	J		13.8	ug/Kg
007683-64-9	Supraene	100	J		14.8	ug/Kg

Raw Data: **BF141767.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:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	72.4
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
BF141767.D	1	02/25/25 09:30	02/25/25 16:35	PB166853

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

Raw Data: **BF141766.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:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141766.D	1	02/25/25 09:30	02/25/25 16:05	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	370	ug/Kg
108-95-2	Phenol	92.2	U	92.2	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	93.1	U	93.1	190	ug/Kg
95-57-8	2-Chlorophenol	92.9	U	92.9	190	ug/Kg
95-48-7	2-Methylphenol	89.6	U	89.6	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	U	100	190	ug/Kg
98-86-2	Acetophenone	96.7	U	96.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	88.8	U	88.8	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	44.8	U	44.8	89.0	ug/Kg
67-72-1	Hexachloroethane	92.3	U	92.3	190	ug/Kg
98-95-3	Nitrobenzene	100	U	100	190	ug/Kg
78-59-1	Isophorone	94.1	U	94.1	190	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	100	U	100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	95.4	U	95.4	190	ug/Kg
120-83-2	2,4-Dichlorophenol	84.0	U	84.0	190	ug/Kg
91-20-3	Naphthalene	91.9	U	91.9	190	ug/Kg
106-47-8	4-Chloroaniline	91.9	UQ	91.9	190	ug/Kg
87-68-3	Hexachlorobutadiene	92.6	U	92.6	190	ug/Kg
105-60-2	Caprolactam	96.5	U	96.5	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	86.2	U	86.2	190	ug/Kg
91-57-6	2-Methylnaphthalene	91.8	U	91.8	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170	U	170	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	79.4	U	79.4	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	82.3	U	82.3	190	ug/Kg
92-52-4	1,1-Biphenyl	97.2	U	97.2	190	ug/Kg
91-58-7	2-Chloronaphthalene	92.6	U	92.6	190	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	190	ug/Kg
131-11-3	Dimethylphthalate	90.9	U	90.9	190	ug/Kg

Raw Data: **BF141766.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:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141766.D	1	02/25/25 09:30	02/25/25 16:05	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	96.2	U	96.2	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	92.5	U	92.5	190	ug/Kg
99-09-2	3-Nitroaniline	99.2	UQ	99.2	190	ug/Kg
83-32-9	Acenaphthene	90.2	U	90.2	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	370	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	370	ug/Kg
132-64-9	Dibenzofuran	93.9	U	93.9	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	95.9	U	95.9	190	ug/Kg
84-66-2	Diethylphthalate	89.1	U	89.1	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	95.2	U	95.2	190	ug/Kg
86-73-7	Fluorene	95.1	U	95.1	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	90.8	U	90.8	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	87.8	U	87.8	190	ug/Kg
118-74-1	Hexachlorobenzene	94.5	U	94.5	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	86.0	U	86.0	370	ug/Kg
85-01-8	Phenanthrene	93.4	U	93.4	190	ug/Kg
120-12-7	Anthracene	93.9	U	93.9	190	ug/Kg
86-74-8	Carbazole	89.3	U	89.3	190	ug/Kg
84-74-2	Di-n-butylphthalate	93.8	U	93.8	190	ug/Kg
206-44-0	Fluoranthene	90.9	U	90.9	190	ug/Kg
129-00-0	Pyrene	92.3	U	92.3	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	370	ug/Kg
56-55-3	Benzo(a)anthracene	89.8	U	89.8	190	ug/Kg
218-01-9	Chrysene	88.4	U	88.4	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	90.2	U	90.2	190	ug/Kg

Raw Data: **BF141766.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:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141766.D	1	02/25/25 09:30	02/25/25 16:05	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	91.9	U	91.9	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	86.9	U	86.9	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	90.3	U	90.3	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	89.1	U	89.1	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	96.5	U	96.5	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	83.1	U	83.1	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	102		30 (18) - 130 (112)	68%	SPK: 150
13127-88-3	Phenol-d6	98.7		30 (15) - 130 (107)	66%	SPK: 150
4165-60-0	Nitrobenzene-d5	68.6		30 (18) - 130 (107)	69%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.0		30 (20) - 130 (109)	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	85.9		30 (10) - 130 (116)	57%	SPK: 150
1718-51-0	Terphenyl-d14	69.8		30 (10) - 130 (105)	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	71100	6.781			
1146-65-2	Naphthalene-d8	280000	8.063			
15067-26-2	Acenaphthene-d10	151000	9.81			
1517-22-2	Phenanthrene-d10	244000	11.298			
1719-03-5	Chrysene-d12	166000	13.939			
1520-96-3	Perylene-d12	176000	15.386			
TENTATIVE IDENTIFIED COMPOUNDS						
	unknown2.340	230	J		2.34	ug/Kg
000119-61-9	Benzophenone	190	J		10.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	140	J		11.8	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	270	J		13.8	ug/Kg
007683-64-9	Supraene	95.3	J		14.8	ug/Kg

Raw Data: **BF141766.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141766.D	1	02/25/25 09:30	02/25/25 16:05	PB166853

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:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	480 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
BF141788.D	1	02/26/25 08:45	02/26/25 17:56	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.20	U	4.20	10.4	ug/L
108-95-2	Phenol	0.97	U	0.97	5.20	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.20	ug/L
95-57-8	2-Chlorophenol	0.74	U	0.74	5.20	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.20	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.20	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.20	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.4	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	1.10	U	1.10	5.20	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.20	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.20	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.20	ug/L
105-67-9	2,4-Dimethylphenol	1.60	U	1.60	5.20	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.10	U	1.10	5.20	ug/L
120-83-2	2,4-Dichlorophenol	0.92	U	0.92	5.20	ug/L
91-20-3	Naphthalene	1.10	U	1.10	5.20	ug/L
106-47-8	4-Chloroaniline	1.40	UQ	1.40	5.20	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.20	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.4	ug/L
59-50-7	4-Chloro-3-methylphenol	0.88	U	0.88	5.20	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.20	ug/L
77-47-4	Hexachlorocyclopentadiene	5.20	U	5.20	10.4	ug/L
88-06-2	2,4,6-Trichlorophenol	0.93	U	0.93	5.20	ug/L
95-95-4	2,4,5-Trichlorophenol	1.10	U	1.10	5.20	ug/L
92-52-4	1,1-Biphenyl	0.95	U	0.95	5.20	ug/L
91-58-7	2-Chloronaphthalene	1.00	U	1.00	5.20	ug/L
88-74-4	2-Nitroaniline	1.50	U	1.50	5.20	ug/L
131-11-3	Dimethylphthalate	0.97	U	0.97	5.20	ug/L

Raw Data: **BF141788.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	480 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
BF141788.D	1	02/26/25 08:45	02/26/25 17:56	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.10	U	1.10	5.20	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.20	ug/L
99-09-2	3-Nitroaniline	1.40	UQ	1.40	5.20	ug/L
83-32-9	Acenaphthene	0.84	U	0.84	5.20	ug/L
51-28-5	2,4-Dinitrophenol	6.70	U	6.70	10.4	ug/L
100-02-7	4-Nitrophenol	2.10	U	2.10	10.4	ug/L
132-64-9	Dibenzofuran	0.97	U	0.97	5.20	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.20	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.20	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	1.00	5.20	ug/L
86-73-7	Fluorene	1.00	U	1.00	5.20	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.20	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.20	U	3.20	10.4	ug/L
86-30-6	n-Nitrosodiphenylamine	0.93	U	0.93	5.20	ug/L
101-55-3	4-Bromophenyl-phenylether	0.99	U	0.99	5.20	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.20	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.20	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.4	ug/L
85-01-8	Phenanthrene	0.93	U	0.93	5.20	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.20	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.20	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.20	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.20	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.20	ug/L
85-68-7	Butylbenzylphthalate	2.20	U	2.20	5.20	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	UQ	1.30	10.4	ug/L
56-55-3	Benzo(a)anthracene	0.98	U	0.98	5.20	ug/L
218-01-9	Chrysene	0.90	U	0.90	5.20	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	2.00	U	2.00	5.20	ug/L
117-84-0	Di-n-octyl phthalate	2.60	U	2.60	10.4	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.20	ug/L

Raw Data: **BF141788.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:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	480 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
BF141788.D	1	02/26/25 08:45	02/26/25 17:56	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.20	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.20	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.10	U	1.10	5.20	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.20	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.20	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.20	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.20	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.82	U	0.82	5.20	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	23.3		15 (10) - 110 (139)	31%	SPK: 75
13127-88-3	Phenol-d6	13.1		15 (10) - 110 (134)	18%	SPK: 75
4165-60-0	Nitrobenzene-d5	38.6		30 (49) - 130 (133)	77%	SPK: 50
321-60-8	2-Fluorobiphenyl	39.7		30 (52) - 130 (132)	79%	SPK: 50
118-79-6	2,4,6-Tribromophenol	57.7		15 (44) - 110 (137)	77%	SPK: 75
1718-51-0	Terphenyl-d14	39.6		30 (48) - 130 (125)	79%	SPK: 50
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	78200	6.781			
1146-65-2	Naphthalene-d8	312000	8.063			
15067-26-2	Acenaphthene-d10	173000	9.816			
1517-22-2	Phenanthrene-d10	307000	11.298			
1719-03-5	Chrysene-d12	235000	13.939			
1520-96-3	Perylene-d12	196000	15.386			
TENTATIVE IDENTIFIED COMPOUNDS						
132739-31-2	1-(1-tert-Butoxypropan-2-yloxy)pro	2.30	J		8.31	ug/L
000057-10-3	n-Hexadecanoic acid	3.40	J		11.8	ug/L
000112-80-1	Oleic Acid	5.10	J		12.5	ug/L

Raw Data: **BF141788.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	480 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
BF141788.D	1	02/26/25 08:45	02/26/25 17:56	PB166875

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	900 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
BF141787.D	1	02/26/25 08:45	02/26/25 17:27	PB166875

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

Raw Data: **BF141787.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:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	900 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
BF141787.D	1	02/26/25 08:45	02/26/25 17:27	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.20	U	1.20	5.60	ug/L
606-20-2	2,6-Dinitrotoluene	1.40	U	1.40	5.60	ug/L
99-09-2	3-Nitroaniline	1.50	UQ	1.50	5.60	ug/L
83-32-9	Acenaphthene	0.90	U	0.90	5.60	ug/L
51-28-5	2,4-Dinitrophenol	7.10	U	7.10	11.1	ug/L
100-02-7	4-Nitrophenol	2.20	U	2.20	11.1	ug/L
132-64-9	Dibenzofuran	1.00	U	1.00	5.60	ug/L
121-14-2	2,4-Dinitrotoluene	1.70	U	1.70	5.60	ug/L
84-66-2	Diethylphthalate	5.40	J	1.20	5.60	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.10	U	1.10	5.60	ug/L
86-73-7	Fluorene	1.10	U	1.10	5.60	ug/L
100-01-6	4-Nitroaniline	2.30	U	2.30	5.60	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.40	U	3.40	11.1	ug/L
86-30-6	n-Nitrosodiphenylamine	0.99	U	0.99	5.60	ug/L
101-55-3	4-Bromophenyl-phenylether	1.10	U	1.10	5.60	ug/L
118-74-1	Hexachlorobenzene	1.30	U	1.30	5.60	ug/L
1912-24-9	Atrazine	1.40	U	1.40	5.60	ug/L
87-86-5	Pentachlorophenol	2.10	U	2.10	11.1	ug/L
85-01-8	Phenanthrene	0.99	U	0.99	5.60	ug/L
120-12-7	Anthracene	1.20	U	1.20	5.60	ug/L
86-74-8	Carbazole	1.30	U	1.30	5.60	ug/L
84-74-2	Di-n-butylphthalate	3.10	J	1.60	5.60	ug/L
206-44-0	Fluoranthene	1.40	U	1.40	5.60	ug/L
129-00-0	Pyrene	1.20	U	1.20	5.60	ug/L
85-68-7	Butylbenzylphthalate	2.30	U	2.30	5.60	ug/L
91-94-1	3,3-Dichlorobenzidine	1.40	UQ	1.40	11.1	ug/L
56-55-3	Benzo(a)anthracene	1.00	U	1.00	5.60	ug/L
218-01-9	Chrysene	0.96	U	0.96	5.60	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	2.10	U	2.10	5.60	ug/L
117-84-0	Di-n-octyl phthalate	2.80	U	2.80	11.1	ug/L
205-99-2	Benzo(b)fluoranthene	1.30	U	1.30	5.60	ug/L

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:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	900 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
BF141787.D	1	02/26/25 08:45	02/26/25 17:27	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.30	U	1.30	5.60	ug/L
50-32-8	Benzo(a)pyrene	1.90	U	1.90	5.60	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.10	U	1.10	5.60	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.30	U	1.30	5.60	ug/L
191-24-2	Benzo(g,h,i)perylene	1.30	U	1.30	5.60	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.20	U	1.20	5.60	ug/L
123-91-1	1,4-Dioxane	3.90	J	1.40	5.60	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.88	U	0.88	5.60	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	57.4		15 (10) - 110 (139)	38%	SPK: 150
13127-88-3	Phenol-d6	37.3		15 (10) - 110 (134)	25%	SPK: 150
4165-60-0	Nitrobenzene-d5	74.2		30 (49) - 130 (133)	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	80.7		30 (52) - 130 (132)	81%	SPK: 100
118-79-6	2,4,6-Tribromophenol	122		15 (44) - 110 (137)	81%	SPK: 150
1718-51-0	Terphenyl-d14	88.2		30 (48) - 130 (125)	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	70100	6.781			
1146-65-2	Naphthalene-d8	282000	8.063			
15067-26-2	Acenaphthene-d10	154000	9.81			
1517-22-2	Phenanthrene-d10	263000	11.298			
1719-03-5	Chrysene-d12	181000	13.939			
1520-96-3	Perylene-d12	167000	15.386			
TENTATIVE IDENTIFIED COMPOUNDS						
	unknown2.263	2.30	J		2.26	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.50	A		4.97	ug/L
000111-76-2	Ethanol, 2-butoxy-	3.30	J		5.73	ug/L
000124-18-5	Decane	4.90	J		6.61	ug/L
1000139-90-3	1-Isobutoxy-2-ethylhexane	8.80	J		6.84	ug/L
000493-02-7	Naphthalene, decahydro-, trans-	3.20	J		7.17	ug/L
	unknown8.357	3.60	J		8.36	ug/L

Raw Data: **BF141787.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:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	900 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
BF141787.D	1	02/26/25 08:45	02/26/25 17:27	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1000309-19-3	Sulfurous acid, decyl 2-ethylhexyl	4.50	J		8.48	ug/L
000629-50-5	Tridecane	10.2	J		8.65	ug/L
000629-59-4	Tetradecane	8.20	J		9.22	ug/L
	unknown9.739	2.50	J		9.74	ug/L
029878-31-7	1H-Benzotriazole, 4-methyl-	10.1	J		9.99	ug/L
000119-61-9	Benzophenone	21.0	J		10.5	ug/L
000947-19-3	Methanone, (1-hydroxycyclohexyl)ph	4.70	J		10.8	ug/L
000084-78-6	1,2-Benzenedicarboxylic acid, buty	5.30	J		11.7	ug/L
000077-94-1	Butyl citrate	3.60	J		12.5	ug/L
000057-11-4	Octadecanoic acid	8.70	J		12.6	ug/L
1010353-55-8	Adipic acid, butyl 2-methylpent-3-	49.7	J		12.7	ug/L
959085-66-6	Heptadecyl heptafluorobutyrate	5.40	J		13.8	ug/L
000111-02-4	Squalene	3.20	J		14.8	ug/L

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,
Fax : 908 789 8922

Surrogate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB166853BL	PB166853BL	2-Fluorophenol	150	141	94		30 (18)	130 (112)
		Phenol-d6	150	133	89		30 (15)	130 (107)
		Nitrobenzene-d5	100	90.7	91		30 (18)	130 (107)
		2-Fluorobiphenyl	100	97.0	97		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	135	90		30 (10)	130 (116)
		Terphenyl-d14	100	104	104		30 (10)	130 (105)
PB166853BS	PB166853BS	2-Fluorophenol	150	138	92		30 (18)	130 (112)
		Phenol-d6	150	131	88		30 (15)	130 (107)
		Nitrobenzene-d5	100	87.9	88		30 (18)	130 (107)
		2-Fluorobiphenyl	100	95.9	96		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	145	96		30 (10)	130 (116)
		Terphenyl-d14	100	116	116		30 (10)	130 (105)
Q1415-01	B-163-SB01	2-Fluorophenol	150	99.4	66		30 (18)	130 (112)
		Phenol-d6	150	93.1	62		30 (15)	130 (107)
		Nitrobenzene-d5	100	68.9	69		30 (18)	130 (107)
		2-Fluorobiphenyl	100	77.3	77		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	84.2	56		30 (10)	130 (116)
		Terphenyl-d14	100	58.5	59		30 (10)	130 (105)
Q1415-02	B-172-SB01	2-Fluorophenol	150	91.6	61		30 (18)	130 (112)
		Phenol-d6	150	90.3	60		30 (15)	130 (107)
		Nitrobenzene-d5	100	61.9	62		30 (18)	130 (107)
		2-Fluorobiphenyl	100	65.5	65		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	79.7	53		30 (10)	130 (116)
		Terphenyl-d14	100	60.8	61		30 (10)	130 (105)
Q1415-03	B-163-SB02	2-Fluorophenol	150	83.6	56		30 (18)	130 (112)
		Phenol-d6	150	81.5	54		30 (15)	130 (107)
		Nitrobenzene-d5	100	54.3	54		30 (18)	130 (107)
		2-Fluorobiphenyl	100	59.3	59		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	72.1	48		30 (10)	130 (116)
		Terphenyl-d14	100	54.8	55		30 (10)	130 (105)
Q1415-04	B-172-SB02	2-Fluorophenol	150	102	68		30 (18)	130 (112)
		Phenol-d6	150	98.7	66		30 (15)	130 (107)
		Nitrobenzene-d5	100	68.6	69		30 (18)	130 (107)
		2-Fluorobiphenyl	100	73.0	73		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	85.9	57		30 (10)	130 (116)
		Terphenyl-d14	100	69.8	70		30 (10)	130 (105)
Q1421-02MS	P001-CLAY-CF01-01MS	2-Fluorophenol	150	100	67		30 (18)	130 (112)
		Phenol-d6	150	98.8	66		30 (15)	130 (107)
		Nitrobenzene-d5	100	65.3	65		30 (18)	130 (107)
		2-Fluorobiphenyl	100	69.2	69		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	94.2	63		30 (10)	130 (116)
		Terphenyl-d14	100	74.9	75		30 (10)	130 (105)
Q1421-03MSD	P001-CLAY-CF01-01MSD	2-Fluorophenol	150	104	69		30 (18)	130 (112)
		Phenol-d6	150	101	68		30 (15)	130 (107)
		Nitrobenzene-d5	100	67.9	68		30 (18)	130 (107)
		2-Fluorobiphenyl	100	72.5	73		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	94.1	63		30 (10)	130 (116)
		Terphenyl-d14	100	71.3	71		30 (10)	130 (105)

( ) = LABORATORY INHOUSE LIMIT

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

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB166875BL	PB166875BL	2-Fluorophenol	150	141	94		15 (10)	110 (139)
		Phenol-d6	150	136	90		15 (10)	110 (134)
		Nitrobenzene-d5	100	91.5	91		30 (49)	130 (133)
		2-Fluorobiphenyl	100	96.6	97		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	133	89		15 (44)	110 (137)
		Terphenyl-d14	100	106	106		30 (48)	130 (125)
PB166875BS	PB166875BS	2-Fluorophenol	150	127	85		15 (10)	110 (139)
		Phenol-d6	150	121	80		15 (10)	110 (134)
		Nitrobenzene-d5	100	84.5	84		30 (49)	130 (133)
		2-Fluorobiphenyl	100	88.2	88		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	130	87		15 (44)	110 (137)
		Terphenyl-d14	100	102	102		30 (48)	130 (125)
PB166875BSD	PB166875BSD	2-Fluorophenol	150	132	88		15 (10)	110 (139)
		Phenol-d6	150	127	84		15 (10)	110 (134)
		Nitrobenzene-d5	100	87.4	87		30 (49)	130 (133)
		2-Fluorobiphenyl	100	91.7	92		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	138	92		15 (44)	110 (137)
		Terphenyl-d14	100	106	106		30 (48)	130 (125)
Q1415-05	FB02222025	2-Fluorophenol	75	23.3	31		15 (10)	110 (139)
		Phenol-d6	75	13.1	18		15 (10)	110 (134)
		Nitrobenzene-d5	50	38.6	77		30 (49)	130 (133)
		2-Fluorobiphenyl	50	39.7	79		30 (52)	130 (132)
		2,4,6-Tribromophenol	75	57.7	77		15 (44)	110 (137)
		Terphenyl-d14	50	39.6	79		30 (48)	130 (125)
Q1415-06	B-173-GW01	2-Fluorophenol	150	57.4	38		15 (10)	110 (139)
		Phenol-d6	150	37.3	25		15 (10)	110 (134)
		Nitrobenzene-d5	100	74.2	74		30 (49)	130 (133)
		2-Fluorobiphenyl	100	80.7	81		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	122	81		15 (44)	110 (137)
		Terphenyl-d14	100	88.2	88		30 (48)	130 (125)

( ) = LABORATORY INHOUSE LIMIT

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1415

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: Q1421-02MS		**Client Sample ID: P001-CLAY-CF01-01MS**						**DataFile: BF141762.D**			
Benzaldehyde	2400	0	1300	ug/Kg	54				20 (10)	160 (86)	
Phenol	2400	0	2100	ug/Kg	88				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	2400	0	2100	ug/Kg	88				70 (54)	130 (125)	
2-Chlorophenol	2400	0	2100	ug/Kg	88				70 (79)	130 (107)	
2-Methylphenol	2400	0	2100	ug/Kg	88				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	2400	0	1900	ug/Kg	79				70 (65)	130 (110)	
Acetophenone	2400	0	2200	ug/Kg	92				70 (75)	130 (111)	
3+4-Methylphenols	2400	0	2200	ug/Kg	92				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	2400	0	2000	ug/Kg	83				70 (59)	130 (119)	
Hexachloroethane	2400	0	2100	ug/Kg	88				20 (65)	160 (117)	
Nitrobenzene	2400	0	2000	ug/Kg	83				70 (70)	130 (119)	
Isophorone	2400	0	2200	ug/Kg	92				70 (76)	130 (122)	
2-Nitrophenol	2400	0	2200	ug/Kg	92				70 (54)	130 (145)	
2,4-Dimethylphenol	2400	0	2700	ug/Kg	113				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	2400	0	2100	ug/Kg	88				70 (68)	130 (112)	
2,4-Dichlorophenol	2400	0	2100	ug/Kg	88				70 (72)	130 (118)	
Naphthalene	2400	0	2000	ug/Kg	83				70 (72)	130 (110)	
4-Chloroaniline	2400	0	850	ug/Kg	35	*			70 (10)	130 (91)	
Hexachlorobutadiene	2400	0	2100	ug/Kg	88				70 (66)	130 (114)	
Caprolactam	2400	0	2200	ug/Kg	92				20 (51)	160 (134)	
4-Chloro-3-methylphenol	2400	0	2000	ug/Kg	83				70 (57)	130 (132)	
2-Methylnaphthalene	2400	0	2000	ug/Kg	83				70 (59)	130 (123)	
Hexachlorocyclopentadiene	4700	0	6200	ug/Kg	132				20 (10)	160 (175)	
2,4,6-Trichlorophenol	2400	0	2000	ug/Kg	83				70 (72)	130 (117)	
2,4,5-Trichlorophenol	2400	0	2000	ug/Kg	83				70 (72)	130 (117)	
1,1-Biphenyl	2400	0	2300	ug/Kg	96				70 (75)	130 (113)	
2-Chloronaphthalene	2400	0	2100	ug/Kg	88				70 (67)	130 (118)	
2-Nitroaniline	2400	0	2000	ug/Kg	83				70 (69)	130 (127)	
Dimethylphthalate	2400	0	2100	ug/Kg	88				70 (70)	130 (113)	
Acenaphthylene	2400	0	2200	ug/Kg	92				70 (79)	130 (118)	
2,6-Dinitrotoluene	2400	0	2100	ug/Kg	88				70 (70)	130 (125)	
3-Nitroaniline	2400	0	1300	ug/Kg	54	*			70 (30)	130 (99)	
Acenaphthene	2400	0	2000	ug/Kg	83				70 (70)	130 (121)	
2,4-Dinitrophenol	4700	0	3000	ug/Kg	64				20 (10)	160 (155)	
4-Nitrophenol	4700	0	3700	ug/Kg	79				20 (45)	160 (133)	
Dibenzofuran	2400	0	2000	ug/Kg	83				70 (72)	130 (110)	
2,4-Dinitrotoluene	2400	0	2100	ug/Kg	88				70 (55)	130 (128)	
Diethylphthalate	2400	0	2000	ug/Kg	83				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	2400	0	2100	ug/Kg	88				70 (71)	130 (108)	
Fluorene	2400	0	2100	ug/Kg	88				70 (68)	130 (116)	
4-Nitroaniline	2400	0	2000	ug/Kg	83				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	2400	0	1800	ug/Kg	75				70 (10)	130 (160)	
N-Nitrosodiphenylamine	2400	0	2200	ug/Kg	92				70 (73)	130 (118)	
4-Bromophenyl-phenylether	2400	0	2200	ug/Kg	92				70 (65)	130 (121)	
Hexachlorobenzene	2400	0	2200	ug/Kg	92				70 (67)	130 (118)	
Atrazine	2400	0	2700	ug/Kg	113				70 (79)	130 (127)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1415

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	4700	0	3200	ug/Kg	68				20 (47)	160 (128)	
Phenanthrene	2400	0	2100	ug/Kg	88				70 (52)	130 (128)	
Anthracene	2400	0	2200	ug/Kg	92				70 (62)	130 (124)	
Carbazole	2400	0	2100	ug/Kg	88				70 (59)	130 (119)	
Di-n-butylphthalate	2400	0	2100	ug/Kg	88				70 (69)	130 (118)	
Fluoranthene	2400	0	2000	ug/Kg	83				70 (44)	130 (125)	
Pyrene	2400	0	2200	ug/Kg	92				70 (26)	130 (142)	
Butylbenzylphthalate	2400	0	2300	ug/Kg	96				70 (64)	130 (126)	
3,3-Dichlorobenzidine	2400	0	1700	ug/Kg	71				70 (33)	130 (116)	
Benzo(a)anthracene	2400	0	2200	ug/Kg	92				70 (71)	130 (114)	
Chrysene	2400	0	2100	ug/Kg	88				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	2400	0	2600	ug/Kg	108				70 (42)	130 (169)	
Di-n-octyl phthalate	2400	0	2800	ug/Kg	117				70 (23)	130 (175)	
Benzo(b)fluoranthene	2400	0	2100	ug/Kg	88				70 (67)	130 (121)	
Benzo(k)fluoranthene	2400	0	1900	ug/Kg	79				70 (57)	130 (134)	
Benzo(a)pyrene	2400	0	2200	ug/Kg	92				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	2400	0	2400	ug/Kg	100				70 (40)	130 (129)	
Dibenz(a,h)anthracene	2400	0	2400	ug/Kg	100				70 (43)	130 (123)	
Benzo(g,h,i)perylene	2400	0	2200	ug/Kg	92				70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	2400	0	2300	ug/Kg	96				70 (69)	130 (124)	
1,4-Dioxane	2400	0	2100	ug/Kg	88				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	2400	0	2000	ug/Kg	83				70 (69)	130 (112)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1415

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: Q1421-03MSD		**Client Sample ID: P001-CLAY-CF01-01MSD**						**DataFile: BF141763.D**			
Benzaldehyde	2400	0	1400	ug/Kg	58		7		20 (10)	160 (86)	30 (20)
Phenol	2400	0	2200	ug/Kg	92		4		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	2400	0	2200	ug/Kg	92		4		70 (54)	130 (125)	30 (20)
2-Chlorophenol	2400	0	2200	ug/Kg	92		4		70 (79)	130 (107)	30 (20)
2-Methylphenol	2400	0	2200	ug/Kg	92		4		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	2400	0	2000	ug/Kg	83		5		70 (65)	130 (110)	30 (20)
Acetophenone	2400	0	2400	ug/Kg	100		8		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	2400	0	2200	ug/Kg	92		0		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	2400	0	2100	ug/Kg	88		6		70 (59)	130 (119)	30 (20)
Hexachloroethane	2400	0	2200	ug/Kg	92		4		20 (65)	160 (117)	30 (20)
Nitrobenzene	2400	0	2100	ug/Kg	88		6		70 (70)	130 (119)	30 (20)
Isophorone	2400	0	2200	ug/Kg	92		0		70 (76)	130 (122)	30 (20)
2-Nitrophenol	2400	0	2200	ug/Kg	92		0		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	2400	0	2800	ug/Kg	117		3		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	2400	0	2200	ug/Kg	92		4		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	2400	0	2100	ug/Kg	88		0		70 (72)	130 (118)	30 (20)
Naphthalene	2400	0	2100	ug/Kg	88		6		70 (72)	130 (110)	30 (20)
4-Chloroaniline	2400	0	940	ug/Kg	39	*	11		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	2400	0	2200	ug/Kg	92		4		70 (66)	130 (114)	30 (20)
Caprolactam	2400	0	2200	ug/Kg	92		0		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	2400	0	2000	ug/Kg	83		0		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	2400	0	2000	ug/Kg	83		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	4700	0	6400	ug/Kg	136		3		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	2400	0	2100	ug/Kg	88		6		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	2400	0	2000	ug/Kg	83		0		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	2400	0	2400	ug/Kg	100		4		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	2400	0	2200	ug/Kg	92		4		70 (67)	130 (118)	30 (20)
2-Nitroaniline	2400	0	2100	ug/Kg	88		6		70 (69)	130 (127)	30 (20)
Dimethylphthalate	2400	0	2100	ug/Kg	88		0		70 (70)	130 (113)	30 (20)
Acenaphthylene	2400	0	2200	ug/Kg	92		0		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	2400	0	2100	ug/Kg	88		0		70 (70)	130 (125)	30 (20)
3-Nitroaniline	2400	0	1200	ug/Kg	50	*	8		70 (30)	130 (99)	30 (20)
Acenaphthene	2400	0	2100	ug/Kg	88		6		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	4700	0	2900	ug/Kg	62		3		20 (10)	160 (155)	30 (20)
4-Nitrophenol	4700	0	3500	ug/Kg	74		7		20 (45)	160 (133)	30 (20)
Dibenzofuran	2400	0	2000	ug/Kg	83		0		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	2400	0	2100	ug/Kg	88		0		70 (55)	130 (128)	30 (20)
Diethylphthalate	2400	0	2000	ug/Kg	83		0		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	2400	0	2100	ug/Kg	88		0		70 (71)	130 (108)	30 (20)
Fluorene	2400	0	2100	ug/Kg	88		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	2400	0	2000	ug/Kg	83		0		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	2400	0	1800	ug/Kg	75		0		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	2400	0	2300	ug/Kg	96		4		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	2400	0	2300	ug/Kg	96		4		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	2400	0	2400	ug/Kg	100		8		70 (67)	130 (118)	30 (20)
Atrazine	2400	0	2800	ug/Kg	117		3		70 (79)	130 (127)	30 (20)

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1415

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	4700	0	3400	ug/Kg	72		6		20 (47)	160 (128)	30 (20)
Phenanthrene	2400	0	2200	ug/Kg	92		4		70 (52)	130 (128)	30 (20)
Anthracene	2400	0	2300	ug/Kg	96		4		70 (62)	130 (124)	30 (20)
Carbazole	2400	0	2200	ug/Kg	92		4		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	2400	0	2200	ug/Kg	92		4		70 (69)	130 (118)	30 (20)
Fluoranthene	2400	0	2100	ug/Kg	88		6		70 (44)	130 (125)	30 (20)
Pyrene	2400	0	2100	ug/Kg	88		4		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	2400	0	2300	ug/Kg	96		0		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	2400	0	1900	ug/Kg	79		11		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	2400	0	2300	ug/Kg	96		4		70 (71)	130 (114)	30 (20)
Chrysene	2400	0	2100	ug/Kg	88		0		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	2400	0	2700	ug/Kg	113		5		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	2400	0	3200	ug/Kg	133	*	13		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	2400	0	1900	ug/Kg	79		11		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	2400	0	2200	ug/Kg	92		15		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	2400	0	2300	ug/Kg	96		4		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	2400	0	2500	ug/Kg	104		4		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	2400	0	2500	ug/Kg	104		4		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	2400	0	2300	ug/Kg	96		4		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	2400	0	2400	ug/Kg	100		4		70 (69)	130 (124)	30 (20)
1,4-Dioxane	2400	0	2200	ug/Kg	92		4		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	2400	0	2000	ug/Kg	83		0		70 (69)	130 (112)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141777.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166853BS	Benzaldehyde	1700	950	ug/Kg	56				20 (10)	160 (133)	
	Phenol	1700	1400	ug/Kg	82				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				70 (60)	130 (101)	
	2-Chlorophenol	1700	1500	ug/Kg	88				70 (65)	130 (112)	
	2-Methylphenol	1700	1500	ug/Kg	88				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1300	ug/Kg	76				70 (51)	130 (100)	
	Acetophenone	1700	1600	ug/Kg	94				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1500	ug/Kg	88				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				70 (63)	130 (95)	
	Hexachloroethane	1700	1500	ug/Kg	88				20 (72)	160 (108)	
	Nitrobenzene	1700	1400	ug/Kg	82				70 (57)	130 (101)	
	Isophorone	1700	1500	ug/Kg	88				70 (59)	130 (99)	
	2-Nitrophenol	1700	1500	ug/Kg	88				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1900	ug/Kg	112				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1500	ug/Kg	88				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				70 (62)	130 (107)	
	Naphthalene	1700	1400	ug/Kg	82				70 (62)	130 (100)	
	4-Chloroaniline	1700	740	ug/Kg	44		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				70 (53)	130 (98)	
	Caprolactam	1700	1700	ug/Kg	100				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	4300	ug/Kg	130				20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1600	ug/Kg	94				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1500	ug/Kg	88				70 (58)	130 (99)	
	2-Nitroaniline	1700	1400	ug/Kg	82				70 (66)	130 (101)	
	Dimethylphthalate	1700	1600	ug/Kg	94				70 (61)	130 (99)	
	Acenaphthylene	1700	1600	ug/Kg	94				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1600	ug/Kg	94				70 (61)	130 (104)	
	3-Nitroaniline	1700	910	ug/Kg	54		*		70 (28)	130 (100)	
	Acenaphthene	1700	1400	ug/Kg	82				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	3000	ug/Kg	91				20 (37)	160 (128)	
	4-Nitrophenol	3300	2600	ug/Kg	79				20 (48)	160 (119)	
	Dibenzofuran	1700	1400	ug/Kg	82				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1600	ug/Kg	94				70 (60)	130 (106)	
	Diethylphthalate	1700	1500	ug/Kg	88				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1600	ug/Kg	94				70 (58)	130 (98)	
	Fluorene	1700	1500	ug/Kg	88				70 (61)	130 (101)	
	4-Nitroaniline	1700	1500	ug/Kg	88				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	1500	ug/Kg	88				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1500	ug/Kg	88				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				70 (66)	130 (102)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141777.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166853BS	Hexachlorobenzene	1700	1600	ug/Kg	94				70 (64)	130 (98)	
	Atrazine	1700	2000	ug/Kg	118				70 (47)	130 (152)	
	Pentachlorophenol	3300	2400	ug/Kg	73				20 (67)	160 (105)	
	Phenanthrene	1700	1500	ug/Kg	88				70 (59)	130 (103)	
	Anthracene	1700	1600	ug/Kg	94				70 (61)	130 (105)	
	Carbazole	1700	1500	ug/Kg	88				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1600	ug/Kg	94				70 (58)	130 (104)	
	Fluoranthene	1700	1500	ug/Kg	88				70 (57)	130 (107)	
	Pyrene	1700	1700	ug/Kg	100				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1800	ug/Kg	106				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	1100	ug/Kg	65		*		70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1600	ug/Kg	94				70 (60)	130 (102)	
	Chrysene	1700	1600	ug/Kg	94				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	2100	ug/Kg	124				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	2100	ug/Kg	124				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1300	ug/Kg	76				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1300	ug/Kg	76				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1600	ug/Kg	94				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1700	ug/Kg	100				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1700	ug/Kg	100				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1600	ug/Kg	94				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1700	ug/Kg	100				70 (53)	130 (101)	
	1,4-Dioxane	1700	1400	ug/Kg	82				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1500	ug/Kg	88				70 (59)	130 (108)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141781.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166875BS	Benzaldehyde	50	25.9	ug/L	52				20 (10)	160 (162)	
	Phenol	50	40.2	ug/L	80				20 (66)	160 (118)	
	bis(2-Chloroethyl)ether	50	41.6	ug/L	83				70 (62)	130 (103)	
	2-Chlorophenol	50	41.9	ug/L	84				70 (70)	130 (117)	
	2-Methylphenol	50	40.5	ug/L	81				70 (69)	130 (109)	
	2,2-oxybis(1-Chloropropane)	50	36.5	ug/L	73				70 (65)	130 (100)	
	Acetophenone	50	45.6	ug/L	91				70 (60)	130 (104)	
	3+4-Methylphenols	50	42.6	ug/L	85				20 (67)	160 (106)	
	N-Nitroso-di-n-propylamine	50	40.8	ug/L	82				70 (57)	130 (107)	
	Hexachloroethane	50	41.0	ug/L	82				20 (76)	160 (118)	
	Nitrobenzene	50	39.9	ug/L	80				70 (58)	130 (106)	
	Isophorone	50	43.9	ug/L	88				70 (61)	130 (102)	
	2-Nitrophenol	50	43.6	ug/L	87				70 (70)	130 (115)	
	2,4-Dimethylphenol	50	54.7	ug/L	109				70 (42)	130 (142)	
	bis(2-Chloroethoxy)methane	50	42.5	ug/L	85				70 (58)	130 (109)	
	2,4-Dichlorophenol	50	42.6	ug/L	85				70 (66)	130 (115)	
	Naphthalene	50	40.6	ug/L	81				70 (64)	130 (107)	
	4-Chloroaniline	50	17.8	ug/L	36		*		70 (10)	130 (85)	
	Hexachlorobutadiene	50	42.6	ug/L	85				70 (69)	130 (101)	
	Caprolactam	50	47.0	ug/L	94				20 (58)	160 (128)	
	4-Chloro-3-methylphenol	50	41.0	ug/L	82				70 (65)	130 (114)	
	2-Methylnaphthalene	50	40.5	ug/L	81				70 (64)	130 (107)	
	Hexachlorocyclopentadiene	100	120	ug/L	120				20 (36)	160 (160)	
	2,4,6-Trichlorophenol	50	40.8	ug/L	82				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	40.9	ug/L	82				70 (70)	130 (106)	
	1,1-Biphenyl	50	45.7	ug/L	91				70 (72)	130 (98)	
	2-Chloronaphthalene	50	42.1	ug/L	84				70 (59)	130 (106)	
	2-Nitroaniline	50	39.2	ug/L	78				70 (73)	130 (114)	
	Dimethylphthalate	50	42.5	ug/L	85				70 (64)	130 (103)	
	Acenaphthylene	50	43.2	ug/L	86				70 (79)	130 (103)	
	2,6-Dinitrotoluene	50	42.9	ug/L	86				70 (64)	130 (110)	
	3-Nitroaniline	50	23.7	ug/L	47		*		70 (28)	130 (100)	
	Acenaphthene	50	40.1	ug/L	80				70 (59)	130 (113)	
	2,4-Dinitrophenol	100	78.0	ug/L	78				20 (36)	160 (166)	
	4-Nitrophenol	100	67.7	ug/L	68				20 (45)	160 (147)	
	Dibenzofuran	50	39.6	ug/L	79				70 (65)	130 (106)	
	2,4-Dinitrotoluene	50	42.8	ug/L	86				70 (60)	130 (115)	
	Diethylphthalate	50	41.6	ug/L	83				70 (63)	130 (105)	
	4-Chlorophenyl-phenylether	50	42.5	ug/L	85				70 (61)	130 (104)	
	Fluorene	50	41.7	ug/L	83				70 (64)	130 (107)	
	4-Nitroaniline	50	38.6	ug/L	77				70 (55)	130 (125)	
	4,6-Dinitro-2-methylphenol	50	38.6	ug/L	77				70 (62)	130 (132)	
	N-Nitrosodiphenylamine	50	43.3	ug/L	87				70 (61)	130 (109)	
	4-Bromophenyl-phenylether	50	43.2	ug/L	86				70 (73)	130 (103)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141781.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166875BS	Hexachlorobenzene	50	44.2	ug/L	88				70 (73)	130 (106)	
	Atrazine	50	55.6	ug/L	111				70 (76)	130 (120)	
	Pentachlorophenol	100	67.2	ug/L	67				20 (47)	160 (114)	
	Phenanthrene	50	42.4	ug/L	85				70 (62)	130 (109)	
	Anthracene	50	43.9	ug/L	88				70 (65)	130 (110)	
	Carbazole	50	41.5	ug/L	83				70 (62)	130 (106)	
	Di-n-butylphthalate	50	44.1	ug/L	88				70 (64)	130 (106)	
	Fluoranthene	50	41.2	ug/L	82				70 (64)	130 (110)	
	Pyrene	50	45.1	ug/L	90				70 (71)	130 (103)	
	Butylbenzylphthalate	50	49.6	ug/L	99				70 (61)	130 (105)	
	3,3-Dichlorobenzidine	50	31.4	ug/L	63		*		70 (43)	130 (108)	
	Benzo(a)anthracene	50	44.2	ug/L	88				70 (62)	130 (107)	
	Chrysene	50	42.9	ug/L	86				70 (61)	130 (108)	
	bis(2-Ethylhexyl)phthalate	50	56.5	ug/L	113				70 (59)	130 (110)	
	Di-n-octyl phthalate	50	57.6	ug/L	115				70 (52)	130 (139)	
	Benzo(b)fluoranthene	50	37.5	ug/L	75				70 (77)	130 (113)	
	Benzo(k)fluoranthene	50	43.8	ug/L	88				70 (77)	130 (105)	
	Benzo(a)pyrene	50	44.3	ug/L	89				70 (72)	130 (131)	
	Indeno(1,2,3-cd)pyrene	50	46.7	ug/L	93				70 (72)	130 (105)	
	Dibenz(a,h)anthracene	50	46.7	ug/L	93				70 (78)	130 (115)	
	Benzo(g,h,i)perylene	50	42.3	ug/L	85				70 (75)	130 (118)	
	1,2,4,5-Tetrachlorobenzene	50	46.4	ug/L	93				70 (72)	130 (101)	
	1,4-Dioxane	50	40.0	ug/L	80				20 (38)	160 (125)	
	2,3,4,6-Tetrachlorophenol	50	40.0	ug/L	80				70 (63)	130 (116)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141782.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166875BSD	Benzaldehyde	50	27.2	ug/L	54	5			20 (10)	160 (162)	20 (20)
	Phenol	50	42.1	ug/L	84	5			20 (66)	160 (118)	20 (20)
	bis(2-Chloroethyl)ether	50	43.7	ug/L	87	5			70 (62)	130 (103)	20 (20)
	2-Chlorophenol	50	43.9	ug/L	88	5			70 (70)	130 (117)	20 (20)
	2-Methylphenol	50	42.9	ug/L	86	6			70 (69)	130 (109)	20 (20)
	2,2-oxybis(1-Chloropropane)	50	37.7	ug/L	75	3			70 (65)	130 (100)	20 (20)
	Acetophenone	50	46.7	ug/L	93	2			70 (60)	130 (104)	20 (20)
	3+4-Methylphenols	50	45.2	ug/L	90	6			20 (67)	160 (106)	20 (20)
	N-Nitroso-di-n-propylamine	50	41.7	ug/L	83	2			70 (57)	130 (107)	20 (20)
	Hexachloroethane	50	43.5	ug/L	87	6			20 (76)	160 (118)	20 (20)
	Nitrobenzene	50	40.9	ug/L	82	2			70 (58)	130 (106)	20 (20)
	Isophorone	50	45.0	ug/L	90	2			70 (61)	130 (102)	20 (20)
	2-Nitrophenol	50	44.3	ug/L	89	2			70 (70)	130 (115)	20 (20)
	2,4-Dimethylphenol	50	55.8	ug/L	112	2			70 (42)	130 (142)	20 (20)
	bis(2-Chloroethoxy)methane	50	44.4	ug/L	89	4			70 (58)	130 (109)	20 (20)
	2,4-Dichlorophenol	50	44.1	ug/L	88	3			70 (66)	130 (115)	20 (20)
	Naphthalene	50	42.4	ug/L	85	4			70 (64)	130 (107)	20 (20)
	4-Chloroaniline	50	18.3	ug/L	37	3	*		70 (10)	130 (85)	20 (20)
	Hexachlorobutadiene	50	43.9	ug/L	88	3			70 (69)	130 (101)	20 (20)
	Caprolactam	50	49.7	ug/L	99	6			20 (58)	160 (128)	20 (20)
	4-Chloro-3-methylphenol	50	42.1	ug/L	84	3			70 (65)	130 (114)	20 (20)
	2-Methylnaphthalene	50	41.3	ug/L	83	2			70 (64)	130 (107)	20 (20)
	Hexachlorocyclopentadiene	100	120	ug/L	120	0			20 (36)	160 (160)	20 (20)
	2,4,6-Trichlorophenol	50	42.4	ug/L	85	4			70 (61)	130 (110)	20 (20)
	2,4,5-Trichlorophenol	50	42.1	ug/L	84	3			70 (70)	130 (106)	20 (20)
	1,1-Biphenyl	50	47.9	ug/L	96	5			70 (72)	130 (98)	20 (20)
	2-Chloronaphthalene	50	43.6	ug/L	87	4			70 (59)	130 (106)	20 (20)
	2-Nitroaniline	50	40.5	ug/L	81	3			70 (73)	130 (114)	20 (20)
	Dimethylphthalate	50	44.6	ug/L	89	5			70 (64)	130 (103)	20 (20)
	Acenaphthylene	50	45.1	ug/L	90	4			70 (79)	130 (103)	20 (20)
	2,6-Dinitrotoluene	50	44.2	ug/L	88	3			70 (64)	130 (110)	20 (20)
	3-Nitroaniline	50	25.4	ug/L	51	7	*		70 (28)	130 (100)	20 (20)
	Acenaphthene	50	41.9	ug/L	84	4			70 (59)	130 (113)	20 (20)
	2,4-Dinitrophenol	100	79.0	ug/L	79	1			20 (36)	160 (166)	20 (20)
	4-Nitrophenol	100	70.6	ug/L	71	4			20 (45)	160 (147)	20 (20)
	Dibenzofuran	50	41.4	ug/L	83	4			70 (65)	130 (106)	20 (20)
	2,4-Dinitrotoluene	50	44.8	ug/L	90	5			70 (60)	130 (115)	20 (20)
	Diethylphthalate	50	43.8	ug/L	88	5			70 (63)	130 (105)	20 (20)
	4-Chlorophenyl-phenylether	50	44.4	ug/L	89	4			70 (61)	130 (104)	20 (20)
	Fluorene	50	43.4	ug/L	87	4			70 (64)	130 (107)	20 (20)
	4-Nitroaniline	50	40.8	ug/L	82	6			70 (55)	130 (125)	20 (20)
	4,6-Dinitro-2-methylphenol	50	41.5	ug/L	83	7			70 (62)	130 (132)	20 (20)
	N-Nitrosodiphenylamine	50	45.1	ug/L	90	4			70 (61)	130 (109)	20 (20)
	4-Bromophenyl-phenylether	50	45.4	ug/L	91	5			70 (73)	130 (103)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF141782.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166875BSD	Hexachlorobenzene	50	46.7	ug/L	93	6			70 (73)	130 (106)	20 (20)
	Atrazine	50	58.7	ug/L	117	5			70 (76)	130 (120)	20 (20)
	Pentachlorophenol	100	70.3	ug/L	70	5			20 (47)	160 (114)	20 (20)
	Phenanthrene	50	44.7	ug/L	89	5			70 (62)	130 (109)	20 (20)
	Anthracene	50	45.3	ug/L	91	3			70 (65)	130 (110)	20 (20)
	Carbazole	50	43.3	ug/L	87	4			70 (62)	130 (106)	20 (20)
	Di-n-butylphthalate	50	47.0	ug/L	94	6			70 (64)	130 (106)	20 (20)
	Fluoranthene	50	42.8	ug/L	86	4			70 (64)	130 (110)	20 (20)
	Pyrene	50	46.1	ug/L	92	2			70 (71)	130 (103)	20 (20)
	Butylbenzylphthalate	50	51.5	ug/L	103	4			70 (61)	130 (105)	20 (20)
	3,3-Dichlorobenzidine	50	32.8	ug/L	66	4	*		70 (43)	130 (108)	20 (20)
	Benzo(a)anthracene	50	45.1	ug/L	90	2			70 (62)	130 (107)	20 (20)
	Chrysene	50	44.4	ug/L	89	3			70 (61)	130 (108)	20 (20)
	bis(2-Ethylhexyl)phthalate	50	58.8	ug/L	118	4			70 (59)	130 (110)	20 (20)
	Di-n-octyl phthalate	50	59.6	ug/L	119	3			70 (52)	130 (139)	20 (20)
	Benzo(b)fluoranthene	50	44.9	ug/L	90	18			70 (77)	130 (113)	20 (20)
	Benzo(k)fluoranthene	50	40.8	ug/L	82	7			70 (77)	130 (105)	20 (20)
	Benzo(a)pyrene	50	47.3	ug/L	95	7			70 (72)	130 (131)	20 (20)
	Indeno(1,2,3-cd)pyrene	50	49.1	ug/L	98	5			70 (72)	130 (105)	20 (20)
	Dibenz(a,h)anthracene	50	49.3	ug/L	99	5			70 (78)	130 (115)	20 (20)
	Benzo(g,h,i)perylene	50	44.2	ug/L	88	4			70 (75)	130 (118)	20 (20)
	1,2,4,5-Tetrachlorobenzene	50	47.2	ug/L	94	2			70 (72)	130 (101)	20 (20)
	1,4-Dioxane	50	41.9	ug/L	84	5			20 (38)	160 (125)	20 (20)
	2,3,4,6-Tetrachlorophenol	50	41.3	ug/L	83	3			70 (63)	130 (116)	20 (20)

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166853BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: BF141776.D Lab Sample ID: PB166853BL

Instrument ID: BNA_F Date Extracted: 02/25/2025

Matrix: (soil/water) SOIL Date Analyzed: 02/26/2025

Level: (low/med) LOW Time Analyzed: 11:49

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166853BS	PB166853BS	BF141777.D	02/26/2025
B-163-SB01	Q1415-01	BF141769.D	02/25/2025
B-172-SB01	Q1415-02	BF141768.D	02/25/2025
P001-CLAY-CF01-01MS	Q1421-02MS	BF141762.D	02/25/2025
P001-CLAY-CF01-01MSD	Q1421-03MSD	BF141763.D	02/25/2025
B-172-SB02	Q1415-04	BF141766.D	02/25/2025
B-163-SB02	Q1415-03	BF141767.D	02/25/2025

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166875BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: BF141780.D Lab Sample ID: PB166875BL

Instrument ID: BNA_F Date Extracted: 02/26/2025

Matrix: (soil/water) Water Date Analyzed: 02/26/2025

Level: (low/med) LOW Time Analyzed: 13:55

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166875BS	PB166875BS	BF141781.D	02/26/2025
PB166875BSD	PB166875BSD	BF141782.D	02/26/2025
B-173-GW01	Q1415-06	BF141787.D	02/26/2025
FB02222025	Q1415-05	BF141788.D	02/26/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: BF141471.D DFTPP Injection Date: 02/06/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	43.2
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	36.7
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	49.1
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	6.8
275	10.0 - 60.0% of mass 198	25.6
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	12.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.4 (18.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF141472.D	02/06/2025	11:07
SSTDICC005	SSTDICC005	BF141473.D	02/06/2025	11:34
SSTDICC010	SSTDICC010	BF141474.D	02/06/2025	12:00
SSTDICC020	SSTDICC020	BF141475.D	02/06/2025	12:26
SSTDICCC040	SSTDICCC040	BF141476.D	02/06/2025	12:55
SSTDICC050	SSTDICC050	BF141477.D	02/06/2025	13:21
SSTDICC060	SSTDICC060	BF141478.D	02/06/2025	13:47
SSTDICC080	SSTDICC080	BF141479.D	02/06/2025	14:14

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: BF141754.D DFTPP Injection Date: 02/25/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:06

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.2
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	35.2
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	46.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26.7
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	13.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.4 (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	BF141755.D	02/25/2025	10:34
P001-CLAY-CF01-01MS	Q1421-02MS	BF141762.D	02/25/2025	14:07
P001-CLAY-CF01-01MSD	Q1421-03MSD	BF141763.D	02/25/2025	14:36
B-172-SB02	Q1415-04	BF141766.D	02/25/2025	16:05
B-163-SB02	Q1415-03	BF141767.D	02/25/2025	16:35
B-172-SB01	Q1415-02	BF141768.D	02/25/2025	17:05
B-163-SB01	Q1415-01	BF141769.D	02/25/2025	17:34

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: BF141774.D DFTPP Injection Date: 02/26/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	33.5
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	47.6
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27.2
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.7 (18.9) 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	BF141775.D	02/26/2025	10:45
PB166853BL	PB166853BL	BF141776.D	02/26/2025	11:49
PB166853BS	PB166853BS	BF141777.D	02/26/2025	12:19
PB166875BL	PB166875BL	BF141780.D	02/26/2025	13:55
PB166875BS	PB166875BS	BF141781.D	02/26/2025	14:24
PB166875BSD	PB166875BSD	BF141782.D	02/26/2025	14:54
B-173-GW01	Q1415-06	BF141787.D	02/26/2025	17:27
FB02222025	Q1415-05	BF141788.D	02/26/2025	17:56

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/25/2025

Lab File ID: BF141755.D Time Analyzed: 10:34

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	83876	6.781	333850	8.06	179797	9.82
	UPPER LIMIT	167752	7.281	667700	8.563	359594	10.316
	LOWER LIMIT	41938	6.281	166925	7.563	89898.5	9.316
	EPA SAMPLE NO.						
01	B-163-SB01	65687	6.78	241105	8.06	115261	9.82
02	B-172-SB01	68668	6.78	275032	8.06	146934	9.81
03	B-163-SB02	74409	6.78	292573	8.06	153922	9.81
04	B-172-SB02	71117	6.78	279572	8.06	151408	9.81
05	P001-CLAY-CF01-01MS	88792	6.78	356048	8.06	194554	9.82
06	P001-CLAY-CF01-01MSD	75675	6.78	299933	8.06	161806	9.82

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.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/25/2025

Lab File ID: BF141755.D Time Analyzed: 10:34

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	280239	11.304	152344	13.939	167961	15.386
	UPPER LIMIT	560478	11.804	304688	14.439	335922	15.886
	LOWER LIMIT	140120	10.804	76172	13.439	83980.5	14.886
	EPA SAMPLE NO.						
01	B-163-SB01	181981	11.30	152705	13.94	176440	15.38
02	B-172-SB01	243302	11.30	170277	13.94	176972	15.39
03	B-163-SB02	248859	11.30	169140	13.94	184984	15.39
04	B-172-SB02	244202	11.30	165983	13.94	176431	15.39
05	P001-CLAY-CF01-01MS	323859	11.30	195463	13.95	188853	15.39
06	P001-CLAY-CF01-01MSD	253973	11.30	171769	13.94	186973	15.39

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.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/26/2025

Lab File ID: BF141775.D Time Analyzed: 10:45

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	85384	6.781	345346	8.06	188350	9.82
	UPPER LIMIT	170768	7.281	690692	8.563	376700	10.316
	LOWER LIMIT	42692	6.281	172673	7.563	94175	9.316
	EPA SAMPLE NO.						
01	PB166853BL	81286	6.78	323646	8.06	177621	9.82
02	PB166853BS	81688	6.78	331787	8.06	180365	9.82
03	PB166875BL	76736	6.78	309972	8.06	172156	9.82
04	PB166875BS	82911	6.78	323947	8.06	182265	9.82
05	PB166875BSD	81030	6.78	321539	8.06	179613	9.82
06	FB02222025	78152	6.78	311819	8.06	173235	9.82
07	B-173-GW01	70131	6.78	281804	8.06	154242	9.81

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.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/26/2025

Lab File ID: BF141775.D Time Analyzed: 10:45

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	315416	11.304	190171	13.945	189428	15.392
	UPPER LIMIT	630832	11.804	380342	14.445	378856	15.892
	LOWER LIMIT	157708	10.804	95085.5	13.445	94714	14.892
	EPA SAMPLE NO.						
01	PB166853BL	318142	11.30	217249	13.94	172479	15.39
02	PB166853BS	319305	11.30	191917	13.95	177241	15.39
03	PB166875BL	297565	11.30	205070	13.94	168978	15.39
04	PB166875BS	312748	11.30	195301	13.95	182516	15.39
05	PB166875BSD	311091	11.30	197944	13.95	175575	15.39
06	FB02222025	306559	11.30	234571	13.94	196458	15.39
07	B-173-GW01	262674	11.30	181385	13.94	166658	15.39

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: **BF141776.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166853BL	SDG No.:	Q1415
Lab Sample ID:	PB166853BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141776.D	1	02/25/25 09:30	02/26/25 11:49	PB166853

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	71.4	U	71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	74.0	U	74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	87.3	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: **BF141776.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166853BL	SDG No.:	Q1415
Lab Sample ID:	PB166853BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141776.D	1	02/25/25 09:30	02/26/25 11:49	PB166853

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: **BF141776.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166853BL	SDG No.:	Q1415
Lab Sample ID:	PB166853BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141776.D	1	02/25/25 09:30	02/26/25 11:49	PB166853

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	74.7	U	74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	141		30 (18) - 130 (112)	94%	SPK: 150
13127-88-3	Phenol-d6	133		30 (15) - 130 (107)	89%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.7		30 (18) - 130 (107)	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	97.0		30 (20) - 130 (109)	97%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		30 (10) - 130 (116)	90%	SPK: 150
1718-51-0	Terphenyl-d14	104		30 (10) - 130 (105)	104%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	81300	6.781			
1146-65-2	Naphthalene-d8	324000	8.063			
15067-26-2	Acenaphthene-d10	178000	9.816			
1517-22-2	Phenanthrene-d10	318000	11.298			
1719-03-5	Chrysene-d12	217000	13.939			
1520-96-3	Perylene-d12	172000	15.386			

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: **BF141780.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166875BL	SDG No.:	Q1415
Lab Sample ID:	PB166875BL	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
BF141780.D	1	02/26/25 08:45	02/26/25 13:55	PB166875

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

Raw Data: **BF141780.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166875BL	SDG No.:	Q1415
Lab Sample ID:	PB166875BL	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
BF141780.D	1	02/26/25 08:45	02/26/25 13:55	PB166875

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: **BF141780.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 2025	Date Received:	
Client Sample ID:	PB166875BL	SDG No.:	Q1415
Lab Sample ID:	PB166875BL	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
BF141780.D	1	02/26/25 08:45	02/26/25 13:55	PB166875

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	141		15 (10) - 110 (139)	94%	SPK: 150
13127-88-3	Phenol-d6	136		15 (10) - 110 (134)	90%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.5		30 (49) - 130 (133)	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.6		30 (52) - 130 (132)	97%	SPK: 100
118-79-6	2,4,6-Tribromophenol	133		15 (44) - 110 (137)	89%	SPK: 150
1718-51-0	Terphenyl-d14	106		30 (48) - 130 (125)	106%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	76700	6.781			
1146-65-2	Naphthalene-d8	310000	8.063			
15067-26-2	Acenaphthene-d10	172000	9.816			
1517-22-2	Phenanthrene-d10	298000	11.298			
1719-03-5	Chrysene-d12	205000	13.939			
1520-96-3	Perylene-d12	169000	15.386			

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: **BF141777.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 2025	Date Received:	
Client Sample ID:	PB166853BS	SDG No.:	Q1415
Lab Sample ID:	PB166853BS	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
BF141777.D	1	02/25/25 09:30	02/26/25 12:19	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	950		180	330	ug/Kg
108-95-2	Phenol	1400		82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		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)	1300		90.9	170	ug/Kg
98-86-2	Acetophenone	1600		86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	1500		83.0	170	ug/Kg
98-95-3	Nitrobenzene	1400		90.8	170	ug/Kg
78-59-1	Isophorone	1500		84.6	170	ug/Kg
88-75-5	2-Nitrophenol	1500		94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1900		93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		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	740		82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		83.3	170	ug/Kg
105-60-2	Caprolactam	1700		86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	1400		82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4300	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	1600		87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		83.3	170	ug/Kg
88-74-4	2-Nitroaniline	1400		95.0	170	ug/Kg
131-11-3	Dimethylphthalate	1600		81.7	170	ug/Kg

Raw Data: **BF141777.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166853BS	SDG No.:	Q1415
Lab Sample ID:	PB166853BS	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
BF141777.D	1	02/25/25 09:30	02/26/25 12:19	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.2	170	ug/Kg
99-09-2	3-Nitroaniline	910		89.2	170	ug/Kg
83-32-9	Acenaphthene	1400		81.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3000	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	2600		120	330	ug/Kg
132-64-9	Dibenzofuran	1400		84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		86.2	170	ug/Kg
84-66-2	Diethylphthalate	1500		80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		85.6	170	ug/Kg
86-73-7	Fluorene	1500		85.5	170	ug/Kg
100-01-6	4-Nitroaniline	1500		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		85.0	170	ug/Kg
1912-24-9	Atrazine	2000		91.4	170	ug/Kg
87-86-5	Pentachlorophenol	2400		77.3	330	ug/Kg
85-01-8	Phenanthrene	1500		84.0	170	ug/Kg
120-12-7	Anthracene	1600		84.4	170	ug/Kg
86-74-8	Carbazole	1500		80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	1600		84.3	170	ug/Kg
206-44-0	Fluoranthene	1500		81.7	170	ug/Kg
129-00-0	Pyrene	1700		83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1800		96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1100		98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	1600		80.7	170	ug/Kg
218-01-9	Chrysene	1600		79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2100		91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	2100		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1300		81.1	170	ug/Kg

Raw Data: **BF141777.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 2025	Date Received:	
Client Sample ID:	PB166853BS	SDG No.:	Q1415
Lab Sample ID:	PB166853BS	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
BF141777.D	1	02/25/25 09:30	02/26/25 12:19	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1300		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	1700		78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1700		81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1700		86.8	170	ug/Kg
123-91-1	1,4-Dioxane	1400		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	138		30 (18) - 130 (112)	92%	SPK: 150
13127-88-3	Phenol-d6	131		30 (15) - 130 (107)	88%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.9		30 (18) - 130 (107)	88%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.9		30 (20) - 130 (109)	96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	145		30 (10) - 130 (116)	96%	SPK: 150
1718-51-0	Terphenyl-d14	116		30 (10) - 130 (105)	116%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	81700	6.781			
1146-65-2	Naphthalene-d8	332000	8.063			
15067-26-2	Acenaphthene-d10	180000	9.816			
1517-22-2	Phenanthrene-d10	319000	11.304			
1719-03-5	Chrysene-d12	192000	13.945			
1520-96-3	Perylene-d12	177000	15.386			

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: **BF141781.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 2025	Date Received:	
Client Sample ID:	PB166875BS	SDG No.:	Q1415
Lab Sample ID:	PB166875BS	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
BF141781.D	1	02/26/25 08:45	02/26/25 14:24	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	25.9		4.00	10.0	ug/L
108-95-2	Phenol	40.2		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	41.6		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	41.9		0.71	5.00	ug/L
95-48-7	2-Methylphenol	40.5		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	36.5		1.40	5.00	ug/L
98-86-2	Acetophenone	45.6		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	42.6		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	40.8		1.50	2.50	ug/L
67-72-1	Hexachloroethane	41.0		1.00	5.00	ug/L
98-95-3	Nitrobenzene	39.9		1.30	5.00	ug/L
78-59-1	Isophorone	43.9		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	43.6		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	54.7		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	42.5		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	42.6		0.88	5.00	ug/L
91-20-3	Naphthalene	40.6		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	17.8		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	42.6		1.30	5.00	ug/L
105-60-2	Caprolactam	47.0		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	41.0		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	40.5		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	120	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	40.8		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	40.9		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	45.7		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	42.1		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	39.2		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	42.5		0.93	5.00	ug/L

Raw Data: **BF141781.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 2025	Date Received:	
Client Sample ID:	PB166875BS	SDG No.:	Q1415
Lab Sample ID:	PB166875BS	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
BF141781.D	1	02/26/25 08:45	02/26/25 14:24	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	43.2		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	42.9		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	23.7		1.40	5.00	ug/L
83-32-9	Acenaphthene	40.1		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	78.0		6.40	10.0	ug/L
100-02-7	4-Nitrophenol	67.7		2.00	10.0	ug/L
132-64-9	Dibenzofuran	39.6		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	42.8		1.50	5.00	ug/L
84-66-2	Diethylphthalate	41.6		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	42.5		0.98	5.00	ug/L
86-73-7	Fluorene	41.7		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	38.6		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	38.6		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	43.3		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	43.2		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	44.2		1.10	5.00	ug/L
1912-24-9	Atrazine	55.6		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	67.2		1.90	10.0	ug/L
85-01-8	Phenanthrene	42.4		0.89	5.00	ug/L
120-12-7	Anthracene	43.9		1.10	5.00	ug/L
86-74-8	Carbazole	41.5		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	44.1		1.50	5.00	ug/L
206-44-0	Fluoranthene	41.2		1.30	5.00	ug/L
129-00-0	Pyrene	45.1		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	49.6		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	31.4		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	44.2		0.94	5.00	ug/L
218-01-9	Chrysene	42.9		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	56.5		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	57.6		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	37.5		1.10	5.00	ug/L

Raw Data: **BF141781.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 2025	Date Received:	
Client Sample ID:	PB166875BS	SDG No.:	Q1415
Lab Sample ID:	PB166875BS	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
BF141781.D	1	02/26/25 08:45	02/26/25 14:24	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	43.8		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	44.3		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	46.7		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	46.7		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	42.3		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	46.4		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	40.0		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	127		15 (10) - 110 (139)	85%	SPK: 150
13127-88-3	Phenol-d6	121		15 (10) - 110 (134)	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	84.5		30 (49) - 130 (133)	84%	SPK: 100
321-60-8	2-Fluorobiphenyl	88.2		30 (52) - 130 (132)	88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	130		15 (44) - 110 (137)	87%	SPK: 150
1718-51-0	Terphenyl-d14	102		30 (48) - 130 (125)	102%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	82900	6.781			
1146-65-2	Naphthalene-d8	324000	8.063			
15067-26-2	Acenaphthene-d10	182000	9.816			
1517-22-2	Phenanthrene-d10	313000	11.304			
1719-03-5	Chrysene-d12	195000	13.945			
1520-96-3	Perylene-d12	183000	15.386			

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 2025	Date Received:	
Client Sample ID:	PB166875BSD	SDG No.:	Q1415
Lab Sample ID:	PB166875BSD	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
BF141782.D	1	02/26/25 08:45	02/26/25 14:54	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	27.2		4.00	10.0	ug/L
108-95-2	Phenol	42.1		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	43.7		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	43.9		0.71	5.00	ug/L
95-48-7	2-Methylphenol	42.9		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	37.7		1.40	5.00	ug/L
98-86-2	Acetophenone	46.7		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	45.2		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	41.7		1.50	2.50	ug/L
67-72-1	Hexachloroethane	43.5		1.00	5.00	ug/L
98-95-3	Nitrobenzene	40.9		1.30	5.00	ug/L
78-59-1	Isophorone	45.0		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	44.3		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	55.8		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	44.4		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	44.1		0.88	5.00	ug/L
91-20-3	Naphthalene	42.4		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	18.3		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	43.9		1.30	5.00	ug/L
105-60-2	Caprolactam	49.7		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	42.1		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	41.3		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	120	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	42.4		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	42.1		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	47.9		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	43.6		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	40.5		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	44.6		0.93	5.00	ug/L

Raw Data: **BF141782.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166875BSD	SDG No.:	Q1415
Lab Sample ID:	PB166875BSD	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
BF141782.D	1	02/26/25 08:45	02/26/25 14:54	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	45.1		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	44.2		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	25.4		1.40	5.00	ug/L
83-32-9	Acenaphthene	41.9		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	79.0		6.40	10.0	ug/L
100-02-7	4-Nitrophenol	70.6		2.00	10.0	ug/L
132-64-9	Dibenzofuran	41.4		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	44.8		1.50	5.00	ug/L
84-66-2	Diethylphthalate	43.8		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	44.4		0.98	5.00	ug/L
86-73-7	Fluorene	43.4		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	40.8		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	41.5		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	45.1		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	45.4		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	46.7		1.10	5.00	ug/L
1912-24-9	Atrazine	58.7		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	70.3		1.90	10.0	ug/L
85-01-8	Phenanthrene	44.7		0.89	5.00	ug/L
120-12-7	Anthracene	45.3		1.10	5.00	ug/L
86-74-8	Carbazole	43.3		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	47.0		1.50	5.00	ug/L
206-44-0	Fluoranthene	42.8		1.30	5.00	ug/L
129-00-0	Pyrene	46.1		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	51.5		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	32.8		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	45.1		0.94	5.00	ug/L
218-01-9	Chrysene	44.4		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	58.8		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	59.6		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	44.9		1.10	5.00	ug/L

Raw Data: **BF141782.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 2025	Date Received:	
Client Sample ID:	PB166875BSD	SDG No.:	Q1415
Lab Sample ID:	PB166875BSD	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
BF141782.D	1	02/26/25 08:45	02/26/25 14:54	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	40.8		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	47.3		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	49.1		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.3		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	44.2		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	47.2		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	41.9		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	41.3		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	132		15 (10) - 110 (139)	88%	SPK: 150
13127-88-3	Phenol-d6	127		15 (10) - 110 (134)	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.4		30 (49) - 130 (133)	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.7		30 (52) - 130 (132)	92%	SPK: 100
118-79-6	2,4,6-Tribromophenol	138		15 (44) - 110 (137)	92%	SPK: 150
1718-51-0	Terphenyl-d14	106		30 (48) - 130 (125)	106%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	81000	6.781			
1146-65-2	Naphthalene-d8	322000	8.063			
15067-26-2	Acenaphthene-d10	180000	9.816			
1517-22-2	Phenanthrene-d10	311000	11.304			
1719-03-5	Chrysene-d12	198000	13.945			
1520-96-3	Perylene-d12	176000	15.386			

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: **BF141762.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:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1415
Lab Sample ID:	Q1421-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141762.D	1	02/25/25 09:30	02/25/25 14:07	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1300		260	470	ug/Kg
108-95-2	Phenol	2100		120	240	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	2100		120	240	ug/Kg
95-57-8	2-Chlorophenol	2100		120	240	ug/Kg
95-48-7	2-Methylphenol	2100		110	240	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1900		130	240	ug/Kg
98-86-2	Acetophenone	2200		120	240	ug/Kg
65794-96-9	3+4-Methylphenols	2200		110	470	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	2000		57.2	110	ug/Kg
67-72-1	Hexachloroethane	2100		120	240	ug/Kg
98-95-3	Nitrobenzene	2000		130	240	ug/Kg
78-59-1	Isophorone	2200		120	240	ug/Kg
88-75-5	2-Nitrophenol	2200		130	240	ug/Kg
105-67-9	2,4-Dimethylphenol	2700		130	240	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	2100		120	240	ug/Kg
120-83-2	2,4-Dichlorophenol	2100		110	240	ug/Kg
91-20-3	Naphthalene	2000		120	240	ug/Kg
106-47-8	4-Chloroaniline	850		120	240	ug/Kg
87-68-3	Hexachlorobutadiene	2100		120	240	ug/Kg
105-60-2	Caprolactam	2200		120	470	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2000		110	240	ug/Kg
91-57-6	2-Methylnaphthalene	2000		120	240	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6200	E	220	470	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2000		100	240	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2000		110	240	ug/Kg
92-52-4	1,1-Biphenyl	2300		120	240	ug/Kg
91-58-7	2-Chloronaphthalene	2100		120	240	ug/Kg
88-74-4	2-Nitroaniline	2000		130	240	ug/Kg
131-11-3	Dimethylphthalate	2100		120	240	ug/Kg

Raw Data: **BF141762.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1415
Lab Sample ID:	Q1421-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141762.D	1	02/25/25 09:30	02/25/25 14:07	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2200		120	240	ug/Kg
606-20-2	2,6-Dinitrotoluene	2100		120	240	ug/Kg
99-09-2	3-Nitroaniline	1300		130	240	ug/Kg
83-32-9	Acenaphthene	2000		120	240	ug/Kg
51-28-5	2,4-Dinitrophenol	3000		340	470	ug/Kg
100-02-7	4-Nitrophenol	3700		160	470	ug/Kg
132-64-9	Dibenzofuran	2000		120	240	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		120	240	ug/Kg
84-66-2	Diethylphthalate	2000		110	240	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2100		120	240	ug/Kg
86-73-7	Fluorene	2100		120	240	ug/Kg
100-01-6	4-Nitroaniline	2000		150	240	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		170	470	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2200		120	240	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2200		110	240	ug/Kg
118-74-1	Hexachlorobenzene	2200		120	240	ug/Kg
1912-24-9	Atrazine	2700		130	240	ug/Kg
87-86-5	Pentachlorophenol	3200		110	470	ug/Kg
85-01-8	Phenanthrene	2100		120	240	ug/Kg
120-12-7	Anthracene	2200		120	240	ug/Kg
86-74-8	Carbazole	2100		110	240	ug/Kg
84-74-2	Di-n-butylphthalate	2100		120	240	ug/Kg
206-44-0	Fluoranthene	2000		120	240	ug/Kg
129-00-0	Pyrene	2200		120	240	ug/Kg
85-68-7	Butylbenzylphthalate	2300		140	240	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1700		140	470	ug/Kg
56-55-3	Benzo(a)anthracene	2200		110	240	ug/Kg
218-01-9	Chrysene	2100		110	240	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2600		130	240	ug/Kg
117-84-0	Di-n-octyl phthalate	2800		160	470	ug/Kg
205-99-2	Benzo(b)fluoranthene	2100		120	240	ug/Kg

Raw Data: **BF141762.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1415
Lab Sample ID:	Q1421-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141762.D	1	02/25/25 09:30	02/25/25 14:07	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1900		120	240	ug/Kg
50-32-8	Benzo(a)pyrene	2200		130	240	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2400		110	240	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2400		120	240	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2200		110	240	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2300		120	240	ug/Kg
123-91-1	1,4-Dioxane	2100		160	240	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2000		110	240	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	100		30 (18) - 130 (112)	67%	SPK: 150
13127-88-3	Phenol-d6	98.8		30 (15) - 130 (107)	66%	SPK: 150
4165-60-0	Nitrobenzene-d5	65.3		30 (18) - 130 (107)	65%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.2		30 (20) - 130 (109)	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	94.2		30 (10) - 130 (116)	63%	SPK: 150
1718-51-0	Terphenyl-d14	74.9		30 (10) - 130 (105)	75%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	88800	6.781			
1146-65-2	Naphthalene-d8	356000	8.063			
15067-26-2	Acenaphthene-d10	195000	9.816			
1517-22-2	Phenanthrene-d10	324000	11.304			
1719-03-5	Chrysene-d12	195000	13.945			
1520-96-3	Perylene-d12	189000	15.386			

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: **BF141763.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:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1415
Lab Sample ID:	Q1421-03MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
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
BF141763.D	1	02/25/25 09:30	02/25/25 14:36	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1400		260	470	ug/Kg
108-95-2	Phenol	2200		120	240	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	2200		120	240	ug/Kg
95-57-8	2-Chlorophenol	2200		120	240	ug/Kg
95-48-7	2-Methylphenol	2200		110	240	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	2000		130	240	ug/Kg
98-86-2	Acetophenone	2400		120	240	ug/Kg
65794-96-9	3+4-Methylphenols	2200		110	470	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	2100		57.2	110	ug/Kg
67-72-1	Hexachloroethane	2200		120	240	ug/Kg
98-95-3	Nitrobenzene	2100		130	240	ug/Kg
78-59-1	Isophorone	2200		120	240	ug/Kg
88-75-5	2-Nitrophenol	2200		130	240	ug/Kg
105-67-9	2,4-Dimethylphenol	2800		130	240	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	2200		120	240	ug/Kg
120-83-2	2,4-Dichlorophenol	2100		110	240	ug/Kg
91-20-3	Naphthalene	2100		120	240	ug/Kg
106-47-8	4-Chloroaniline	940		120	240	ug/Kg
87-68-3	Hexachlorobutadiene	2200		120	240	ug/Kg
105-60-2	Caprolactam	2200		120	470	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2000		110	240	ug/Kg
91-57-6	2-Methylnaphthalene	2000		120	240	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6400	E	220	470	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2100		100	240	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2000		110	240	ug/Kg
92-52-4	1,1-Biphenyl	2400		120	240	ug/Kg
91-58-7	2-Chloronaphthalene	2200		120	240	ug/Kg
88-74-4	2-Nitroaniline	2100		130	240	ug/Kg
131-11-3	Dimethylphthalate	2100		120	240	ug/Kg

Raw Data: **BF141763.D**

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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:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1415
Lab Sample ID:	Q1421-03MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
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
BF141763.D	1	02/25/25 09:30	02/25/25 14:36	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2200		120	240	ug/Kg
606-20-2	2,6-Dinitrotoluene	2100		120	240	ug/Kg
99-09-2	3-Nitroaniline	1200		130	240	ug/Kg
83-32-9	Acenaphthene	2100		120	240	ug/Kg
51-28-5	2,4-Dinitrophenol	2900		350	470	ug/Kg
100-02-7	4-Nitrophenol	3500		160	470	ug/Kg
132-64-9	Dibenzofuran	2000		120	240	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		120	240	ug/Kg
84-66-2	Diethylphthalate	2000		110	240	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2100		120	240	ug/Kg
86-73-7	Fluorene	2100		120	240	ug/Kg
100-01-6	4-Nitroaniline	2000		150	240	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		170	470	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2300		120	240	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2300		110	240	ug/Kg
118-74-1	Hexachlorobenzene	2400		120	240	ug/Kg
1912-24-9	Atrazine	2800		130	240	ug/Kg
87-86-5	Pentachlorophenol	3400		110	470	ug/Kg
85-01-8	Phenanthrene	2200		120	240	ug/Kg
120-12-7	Anthracene	2300		120	240	ug/Kg
86-74-8	Carbazole	2200		110	240	ug/Kg
84-74-2	Di-n-butylphthalate	2200		120	240	ug/Kg
206-44-0	Fluoranthene	2100		120	240	ug/Kg
129-00-0	Pyrene	2100		120	240	ug/Kg
85-68-7	Butylbenzylphthalate	2300		140	240	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1900		140	470	ug/Kg
56-55-3	Benzo(a)anthracene	2300		110	240	ug/Kg
218-01-9	Chrysene	2100		110	240	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2700		130	240	ug/Kg
117-84-0	Di-n-octyl phthalate	3200		160	470	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		120	240	ug/Kg

Raw Data: **BF141763.D**

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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:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1415
Lab Sample ID:	Q1421-03MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
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
BF141763.D	1	02/25/25 09:30	02/25/25 14:36	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	2200		120	240	ug/Kg
50-32-8	Benzo(a)pyrene	2300		130	240	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2500		110	240	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2500		120	240	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2300		110	240	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2400		120	240	ug/Kg
123-91-1	1,4-Dioxane	2200		160	240	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2000		110	240	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	104		30 (18) - 130 (112)	69%	SPK: 150
13127-88-3	Phenol-d6	101		30 (15) - 130 (107)	68%	SPK: 150
4165-60-0	Nitrobenzene-d5	67.9		30 (18) - 130 (107)	68%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.5		30 (20) - 130 (109)	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	94.1		30 (10) - 130 (116)	63%	SPK: 150
1718-51-0	Terphenyl-d14	71.3		30 (10) - 130 (105)	71%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	75700	6.781			
1146-65-2	Naphthalene-d8	300000	8.063			
15067-26-2	Acenaphthene-d10	162000	9.816			
1517-22-2	Phenanthrene-d10	254000	11.304			
1719-03-5	Chrysene-d12	172000	13.939			
1520-96-3	Perylene-d12	187000	15.386			

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-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Feb 06 16:58:59 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF141472.D 5 =BF141473.D 10 =BF141474.D 20 =BF141475.D 40 =BF141476.D 50 =BF141477.D 60 =BF141478.D 80 =BF1414
79.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.511	0.519	0.523	0.517	0.502	0.521	0.501	0.513	1.73
3)		Pyridine		1.053	1.205	1.311	1.263	1.256	1.261	1.204	1.222	6.79
4)		n-Nitrosodimet...		0.737	0.774	0.820	0.818	0.835	0.846	0.833	0.809	4.83
5)	S	2-Fluorophenol		1.235	1.290	1.365	1.289	1.273	1.264	1.214	1.276	3.77
6)		Aniline		1.476	1.545	1.650	1.538	1.506	1.494	1.379	1.513	5.42
7)	S	Phenol-d6		1.619	1.629	1.704	1.613	1.599	1.585	1.538	1.612	3.13
8)		2-Chlorophenol		1.399	1.410	1.446	1.379	1.368	1.345	1.302	1.378	3.38
9)		Benzaldehyde		0.892	0.993	0.981	0.821	0.747	0.706		0.857	13.92
10)	C	Phenol		1.693	1.681	1.817	1.685	1.659	1.644	1.569	1.678	4.42
11)		bis(2-Chloroet...		1.262	1.229	1.296	1.266	1.252	1.262	1.256	1.261	1.59
12)		1,3-Dichlorobe...		1.473	1.482	1.554	1.441	1.441	1.430	1.366	1.455	3.95
13)	C	1,4-Dichlorobe...		1.546	1.538	1.571	1.471	1.465	1.439	1.379	1.487	4.59
14)		1,2-Dichlorobe...		1.393	1.439	1.473	1.374	1.351	1.345	1.285	1.380	4.55
15)		Benzyl Alcohol		1.191	1.251	1.322	1.262	1.248	1.218	1.163	1.236	4.19
16)		2,2'-oxybis(1-...		2.222	2.245	2.313	2.165	2.119	2.082	1.959	2.158	5.45
17)		2-Methylphenol		1.116	1.089	1.121	1.077	1.059	1.066	1.024	1.079	3.15
18)		Hexachloroethane		0.539	0.545	0.589	0.553	0.556	0.544	0.526	0.550	3.59
19)	P	n-Nitroso-di-n...	0.950	0.978	0.985	1.039	0.969	0.947	0.941	0.907	0.964	4.03
20)		3+4-Methylphenols		1.442	1.417	1.459	1.372	1.344	1.319	1.244	1.371	5.52
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.517	0.502	0.521	0.493	0.483	0.488	0.478	0.498	3.35
23)	S	Nitrobenzene-d5		0.380	0.379	0.396	0.385	0.378	0.381	0.384	0.383	1.58
24)		Nitrobenzene		0.370	0.371	0.383	0.374	0.369	0.375	0.376	0.374	1.29
25)		Isophorone		0.611	0.594	0.633	0.611	0.601	0.617	0.614	0.611	2.04
26)	C	2-Nitrophenol		0.171	0.175	0.190	0.193	0.190	0.193	0.191	0.186	4.91
27)		2,4-Dimethylph...		0.208	0.212	0.221	0.223	0.218	0.220	0.220	0.217	2.46
28)		bis(2-Chloroet...		0.384	0.390	0.408	0.394	0.387	0.391	0.388	0.392	2.03
29)	C	2,4-Dichloroph...		0.286	0.287	0.312	0.296	0.290	0.292	0.292	0.294	2.95
30)		1,2,4-Trichlor...		0.327	0.321	0.331	0.317	0.312	0.317	0.314	0.320	2.12
31)		Naphthalene		1.067	1.041	1.096	1.037	1.012	1.022	1.012	1.041	2.98
32)		Benzoic acid			0.186	0.217	0.229	0.233	0.243	0.246	0.226	9.70
33)		4-Chloroaniline		0.354	0.352	0.382	0.364	0.360	0.364	0.370	0.363	2.82
34)	C	Hexachlorobuta...		0.193	0.191	0.200	0.192	0.188	0.191	0.189	0.192	2.01
35)		Caprolactam		0.083	0.085	0.094	0.093	0.088	0.091	0.092	0.089	4.75
36)	C	4-Chloro-3-met...		0.310	0.324	0.342	0.329	0.324	0.325	0.324	0.325	2.91
37)		2-Methylnaphth...		0.688	0.689	0.719	0.669	0.659	0.666	0.652	0.677	3.42
38)		1-Methylnaphth...		0.680	0.657	0.691	0.656	0.637	0.640	0.631	0.656	3.40

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF020625.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.582	0.588	0.600	0.584	0.560	0.574	0.562	0.579	2.50
41)	P	Hexachlorocycl...		0.138	0.180	0.204	0.205	0.214	0.214	0.192	15.36
42)	S	2,4,6-Tribromo...	0.201	0.200	0.210	0.200	0.199	0.201	0.196	0.201	2.08
43)	C	2,4,6-Trichlor...	0.364	0.365	0.389	0.377	0.373	0.378	0.372	0.374	2.28
44)		2,4,5-Trichlor...	0.385	0.407	0.430	0.410	0.394	0.409	0.401	0.405	3.51
45)	S	2-Fluorobiphenyl	1.373	1.360	1.385	1.269	1.241	1.259	1.201	1.298	5.62
46)		1,1'-Biphenyl	1.582	1.564	1.632	1.545	1.517	1.537	1.478	1.551	3.16
47)		2-Chloronaphth...	1.167	1.161	1.211	1.135	1.114	1.136	1.103	1.147	3.18
48)		2-Nitroaniline	0.371	0.371	0.394	0.390	0.382	0.401	0.385	0.385	2.92
49)		Acenaphthylene	1.739	1.736	1.791	1.696	1.660	1.689	1.626	1.705	3.21
50)		Dimethylphthalate	1.382	1.359	1.408	1.345	1.324	1.341	1.345	1.358	2.09
51)		2,6-Dinitrotol...	0.289	0.290	0.314	0.301	0.295	0.299	0.290	0.297	3.06
52)	C	Acenaphthene	1.186	1.164	1.188	1.152	1.108	1.127	1.101	1.147	3.10
53)		3-Nitroaniline	0.312	0.313	0.335	0.319	0.320	0.321	0.316	0.319	2.35
54)	P	2,4-Dinitrophenol		0.133	0.167	0.177	0.185	0.198	0.198	0.176	13.83
55)		Dibenzofuran	1.768	1.722	1.774	1.673	1.633	1.634	1.576	1.683	4.44
56)	P	4-Nitrophenol	0.190	0.216	0.247	0.249	0.249	0.257	0.251	0.237	10.43
57)		2,4-Dinitrotol...	0.383	0.403	0.414	0.398	0.390	0.396	0.383	0.395	2.83
58)		Fluorene	1.359	1.361	1.377	1.290	1.239	1.263	1.221	1.301	4.90
59)		2,3,4,6-Tetrac...	0.332	0.361	0.359	0.348	0.348	0.355	0.340	0.349	2.95
60)		Diethylphthalate	1.400	1.346	1.398	1.330	1.300	1.308	1.269	1.336	3.71
61)		4-Chlorophenyl...	0.661	0.643	0.659	0.622	0.602	0.611	0.585	0.626	4.66
62)		4-Nitroaniline	0.315	0.319	0.333	0.335	0.319	0.327	0.324	0.324	2.28
63)		Azobenzene	1.348	1.329	1.385	1.326	1.295	1.320	1.294	1.328	2.38
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.116	0.140	0.142	0.142	0.146	0.148	0.139	8.48
66)	c	n-Nitrosodiphe...	0.650	0.653	0.674	0.627	0.625	0.625	0.627	0.640	2.97
67)		4-Bromophenyl-...	0.228	0.220	0.234	0.221	0.220	0.221	0.221	0.224	2.46
68)		Hexachlorobenzene	0.229	0.234	0.241	0.227	0.224	0.228	0.228	0.230	2.46
69)		Atrazine	0.200	0.203	0.214	0.185	0.185	0.182	0.176	0.192	7.12
70)	C	Pentachlorophenol	0.116	0.131	0.151	0.154	0.158	0.159	0.160	0.147	11.68
71)		Phenanthrene	1.141	1.132	1.161	1.084	1.071	1.069	1.049	1.101	3.91
72)		Anthracene	1.168	1.126	1.158	1.082	1.084	1.071	1.057	1.107	3.99
73)		Carbazole	1.022	1.026	1.076	0.986	0.966	0.961	0.933	0.996	4.87
74)		Di-n-butylphth...	1.165	1.156	1.223	1.141	1.132	1.126	1.105	1.150	3.29
75)	C	Fluoranthene	1.251	1.239	1.243	1.151	1.129	1.091	1.065	1.167	6.63
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.474	0.487	0.334	0.528	0.432	0.351	0.481	0.441	16.58
78)		Pyrene	1.528	1.557	1.717	1.745	1.774	1.807	1.789	1.703	6.67
79)	S	Terphenyl-d14	1.129	1.104	1.211	1.198	1.209	1.234	1.208	1.185	4.07
80)		Butylbenzylpht...	0.525	0.540	0.605	0.609	0.603	0.623	0.624	0.590	6.83
81)		Benzo(a)anthra...	1.381	1.332	1.350	1.345	1.309	1.309	1.279	1.329	2.51
82)		3,3'-Dichlorob...	0.397	0.411	0.407	0.377	0.363	0.353	0.358	0.381	6.31
83)		Chrysene	1.187	1.223	1.314	1.201	1.215	1.224	1.229	1.228	3.34
84)		Bis(2-ethylhex...	0.593	0.610	0.685	0.689	0.680	0.697	0.702	0.665	6.68
85)	c	Di-n-octyl pht...	0.802	0.814	0.910	0.965	1.010	1.051	1.090	0.949	11.82

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF020625.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	0.987	1.029	1.186	1.288	1.341	1.410	1.408	1.236	14.06
88)		Benzo(b)fluora...	1.286	1.407	1.398	1.336	1.350	1.356	1.268	1.343	3.88
89)		Benzo(k)fluora...	1.113	1.216	1.247	1.142	1.074	1.098	1.138	1.147	5.49
90)	C	Benzo(a)pyrene	1.085	1.074	1.115	1.080	1.069	1.094	1.089	1.087	1.41
91)		Dibenzo(a,h)an...	0.796	0.828	0.970	1.051	1.092	1.138	1.134	1.001	14.13
92)		Benzo(g,h,i)pe...	0.805	0.864	1.001	1.100	1.144	1.203	1.218	1.048	15.60

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: BNA_F Calibration Date/Time: 02/25/2025 10:34

Lab File ID: BF141755.D Init. Calib. Date(s): 02/06/2025 02/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:07 14:14

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.276	1.379		8.1	
Benzaldehyde	0.857	0.938		9.5	
Phenol-d6	1.612	1.672		3.7	
Phenol	1.678	1.745		4.0	20.0
bis(2-Chloroethyl)ether	1.261	1.311		4.0	
2-Chlorophenol	1.378	1.463		6.2	
2-Methylphenol	1.079	1.115		3.3	
2,2-oxybis(1-Chloropropane)	2.158	2.073		-3.9	
Acetophenone	0.498	0.506		1.6	
3+4-Methylphenols	1.371	1.442		5.2	
n-Nitroso-di-n-propylamine	0.964	0.992	0.050	2.9	
Nitrobenzene-d5	0.383	0.384		0.3	
Hexachloroethane	0.550	0.581		5.6	
Nitrobenzene	0.374	0.377		0.8	
Isophorone	0.611	0.618		1.1	
2-Nitrophenol	0.186	0.199		7.0	20.0
2,4-Dimethylphenol	0.217	0.228		5.1	
bis(2-Chloroethoxy)methane	0.392	0.410		4.6	
2,4-Dichlorophenol	0.294	0.307		4.4	20.0
Naphthalene	1.041	1.073		3.1	
4-Chloroaniline	0.363	0.379		4.4	
Hexachlorobutadiene	0.192	0.201		4.7	20.0
Caprolactam	0.089	0.086		-3.4	
4-Chloro-3-methylphenol	0.325	0.325		0.0	20.0
2-Methylnaphthalene	0.677	0.700		3.4	
Hexachlorocyclopentadiene	0.192	0.198	0.050	3.1	
2,4,6-Trichlorophenol	0.374	0.383		2.4	20.0
2-Fluorobiphenyl	1.298	1.344		3.5	
2,4,5-Trichlorophenol	0.405	0.404		-0.2	
1,1-Biphenyl	1.551	1.613		4.0	
2-Chloronaphthalene	1.147	1.203		4.9	
2-Nitroaniline	0.385	0.362		-6.0	
Dimethylphthalate	1.358	1.384		1.9	
Acenaphthylene	1.705	1.736		1.8	
2,6-Dinitrotoluene	0.297	0.294		-1.0	
3-Nitroaniline	0.319	0.305		-4.4	
Acenaphthene	1.147	1.127		-1.7	20.0
2,4-Dinitrophenol	0.176	0.155	0.050	-11.9	
4-Nitrophenol	0.237	0.207	0.050	-12.7	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: BNA_F Calibration Date/Time: 02/25/2025 10:34

Lab File ID: BF141755.D Init. Calib. Date(s): 02/06/2025 02/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:07 14:14

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.683	1.672		-0.7	
2,4-Dinitrotoluene	0.395	0.376		-4.8	
Diethylphthalate	1.336	1.323		-1.0	
4-Chlorophenyl-phenylether	0.626	0.644		2.9	
Fluorene	1.301	1.287		-1.1	
4-Nitroaniline	0.324	0.286		-11.7	
4,6-Dinitro-2-methylphenol	0.139	0.136		-2.2	
n-Nitrosodiphenylamine	0.640	0.696		8.8	20.0
2,4,6-Tribromophenol	0.201	0.191		-5.0	
4-Bromophenyl-phenylether	0.224	0.247		10.3	
Hexachlorobenzene	0.230	0.252		9.6	
Atrazine	0.192	0.172		-10.4	
Pentachlorophenol	0.147	0.146		-0.7	20.0
Phenanthrene	1.101	1.126		2.3	
Anthracene	1.107	1.148		3.7	
Carbazole	0.996	0.955		-4.1	
Di-n-butylphthalate	1.150	1.169		1.7	
Fluoranthene	1.167	1.071		-8.2	20.0
Pyrene	1.703	1.941		14.0	
Terphenyl-d14	1.185	1.341		13.2	
Butylbenzylphthalate	0.590	0.653		10.7	
3,3-Dichlorobenzidine	0.381	0.421		10.5	
Benzo(a)anthracene	1.329	1.394		4.9	
Chrysene	1.228	1.271		3.5	
Bis(2-ethylhexyl)phthalate	0.665	0.826		24.2	
Di-n-octyl phthalate	0.949	1.341		41.3	20.0
Benzo(b)fluoranthene	1.343	1.171		-12.8	
Benzo(k)fluoranthene	1.147	0.994		-13.3	
Benzo(a)pyrene	1.087	1.099		1.1	20.0
Indeno(1,2,3-cd)pyrene	1.236	1.495		21.0	
Dibenzo(a,h)anthracene	1.001	1.227		22.6	
Benzo(g,h,i)perylene	1.048	1.273		21.5	
1,2,4,5-Tetrachlorobenzene	0.579	0.620		7.1	
1,4-Dioxane	0.513	0.521		1.6	20.0
2,3,4,6-Tetrachlorophenol	0.349	0.331		-5.2	

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.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: BNA_F Calibration Date/Time: 02/26/2025 10:45

Lab File ID: BF141775.D Init. Calib. Date(s): 02/06/2025 02/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:07 14:14

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.276	1.366		7.1	
Benzaldehyde	0.857	0.907		5.8	
Phenol-d6	1.612	1.663		3.2	
Phenol	1.678	1.722		2.6	20.0
bis(2-Chloroethyl)ether	1.261	1.285		1.9	
2-Chlorophenol	1.378	1.467		6.5	
2-Methylphenol	1.079	1.099		1.9	
2,2-oxybis(1-Chloropropane)	2.158	2.011		-6.8	
Acetophenone	0.498	0.499		0.2	
3+4-Methylphenols	1.371	1.432		4.4	
n-Nitroso-di-n-propylamine	0.964	0.977	0.050	1.3	
Nitrobenzene-d5	0.383	0.375		-2.1	
Hexachloroethane	0.550	0.572		4.0	
Nitrobenzene	0.374	0.361		-3.5	
Isophorone	0.611	0.607		-0.7	
2-Nitrophenol	0.186	0.196		5.4	20.0
2,4-Dimethylphenol	0.217	0.221		1.8	
bis(2-Chloroethoxy)methane	0.392	0.404		3.1	
2,4-Dichlorophenol	0.294	0.303		3.1	20.0
Naphthalene	1.041	1.050		0.9	
4-Chloroaniline	0.363	0.381		5.0	
Hexachlorobutadiene	0.192	0.196		2.1	20.0
Caprolactam	0.089	0.090		1.1	
4-Chloro-3-methylphenol	0.325	0.327		0.6	20.0
2-Methylnaphthalene	0.677	0.692		2.2	
Hexachlorocyclopentadiene	0.192	0.186	0.050	-3.1	
2,4,6-Trichlorophenol	0.374	0.378		1.1	20.0
2-Fluorobiphenyl	1.298	1.311		1.0	
2,4,5-Trichlorophenol	0.405	0.404		-0.2	
1,1-Biphenyl	1.551	1.592		2.6	
2-Chloronaphthalene	1.147	1.179		2.8	
2-Nitroaniline	0.385	0.371		-3.6	
Dimethylphthalate	1.358	1.404		3.4	
Acenaphthylene	1.705	1.716		0.6	
2,6-Dinitrotoluene	0.297	0.311		4.7	
3-Nitroaniline	0.319	0.316		-0.9	
Acenaphthene	1.147	1.148		0.1	20.0
2,4-Dinitrophenol	0.176	0.165	0.050	-6.3	
4-Nitrophenol	0.237	0.220	0.050	-7.2	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: BNA_F Calibration Date/Time: 02/26/2025 10:45

Lab File ID: BF141775.D Init. Calib. Date(s): 02/06/2025 02/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:07 14:14

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.683	1.683		0.0	
2,4-Dinitrotoluene	0.395	0.392		-0.8	
Diethylphthalate	1.336	1.362		1.9	
4-Chlorophenyl-phenylether	0.626	0.660		5.4	
Fluorene	1.301	1.325		1.8	
4-Nitroaniline	0.324	0.308		-4.9	
4,6-Dinitro-2-methylphenol	0.139	0.138		-0.7	
n-Nitrosodiphenylamine	0.640	0.669		4.5	20.0
2,4,6-Tribromophenol	0.201	0.205		2.0	
4-Bromophenyl-phenylether	0.224	0.239		6.7	
Hexachlorobenzene	0.230	0.248		7.8	
Atrazine	0.192	0.176		-8.3	
Pentachlorophenol	0.147	0.154		4.8	20.0
Phenanthrene	1.101	1.138		3.4	
Anthracene	1.107	1.135		2.5	
Carbazole	0.996	0.991		-0.5	
Di-n-butylphthalate	1.150	1.240		7.8	
Fluoranthene	1.167	1.148		-1.6	20.0
Pyrene	1.703	1.867		9.6	
Terphenyl-d14	1.185	1.316		11.1	
Butylbenzylphthalate	0.590	0.688		16.6	
3,3-Dichlorobenzidine	0.381	0.427		12.1	
Benzo(a)anthracene	1.329	1.363		2.6	
Chrysene	1.228	1.285		4.6	
Bis(2-ethylhexyl)phthalate	0.665	0.883		32.8	
Di-n-octyl phthalate	0.949	1.339		41.1	20.0
Benzo(b)fluoranthene	1.343	1.304		-2.9	
Benzo(k)fluoranthene	1.147	1.152		0.4	
Benzo(a)pyrene	1.087	1.110		2.1	20.0
Indeno(1,2,3-cd)pyrene	1.236	1.406		13.8	
Dibenzo(a,h)anthracene	1.001	1.141		14.0	
Benzo(g,h,i)perylene	1.048	1.186		13.2	
1,2,4,5-Tetrachlorobenzene	0.579	0.600		3.6	
1,4-Dioxane	0.513	0.531		3.5	20.0
2,3,4,6-Tetrachlorophenol	0.349	0.345		-1.1	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Time: Feb 26 00:07:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

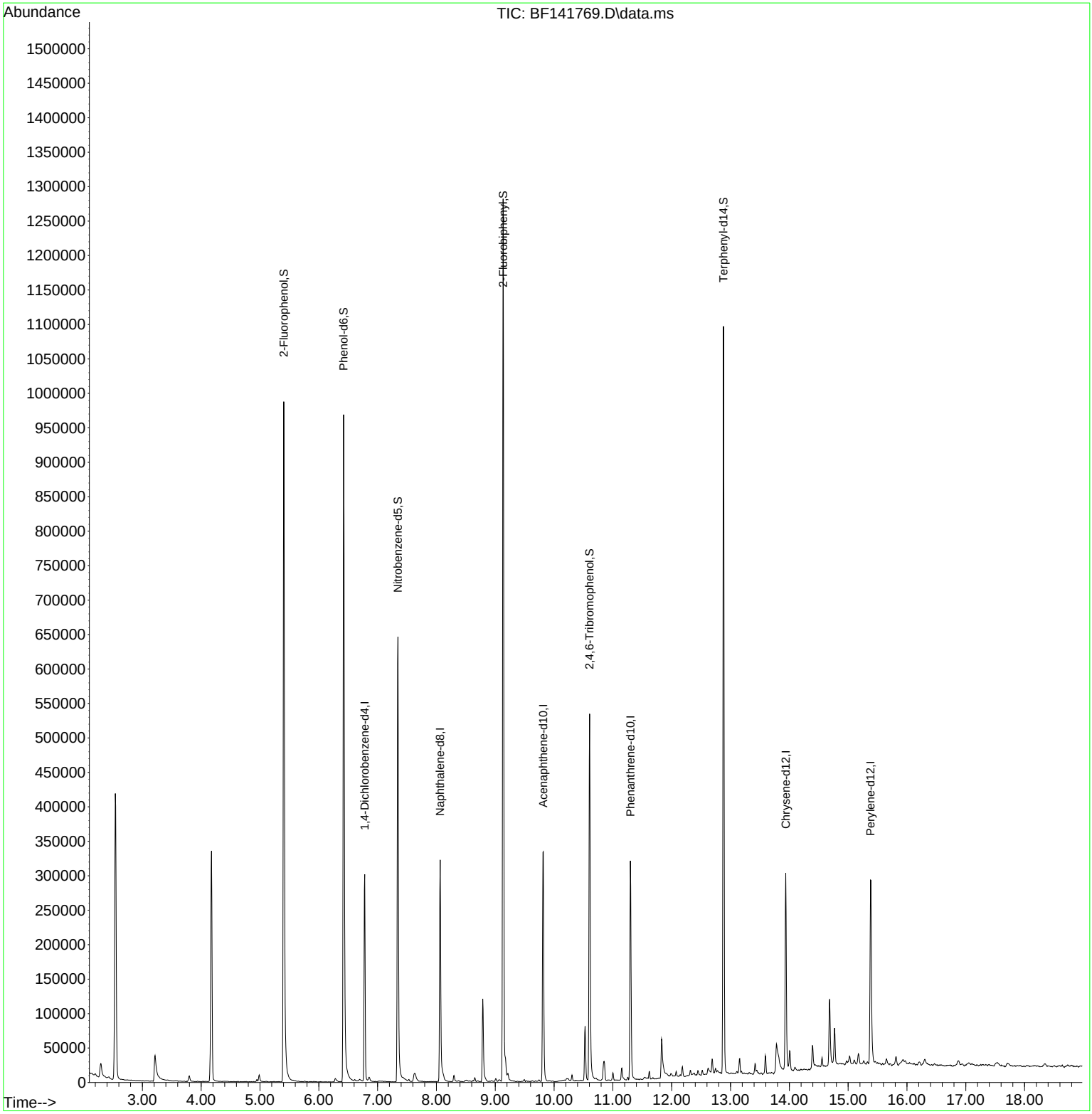
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	65687	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	241105	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	115261	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	181981	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	152705	20.000	ng	-0.02
86) Perylene-d12	15.380	264	176440	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	416394	99.380	ng	0.00
7) Phenol-d6	6.422	99	492798	93.056	ng	-0.02
23) Nitrobenzene-d5	7.345	82	318531	68.908	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	97463	84.176	ng	-0.02
45) 2-Fluorobiphenyl	9.134	172	578204	77.286	ng	-0.02
79) Terphenyl-d14	12.880	244	529478	58.534	ng	-0.02
Target Compounds						Qvalue

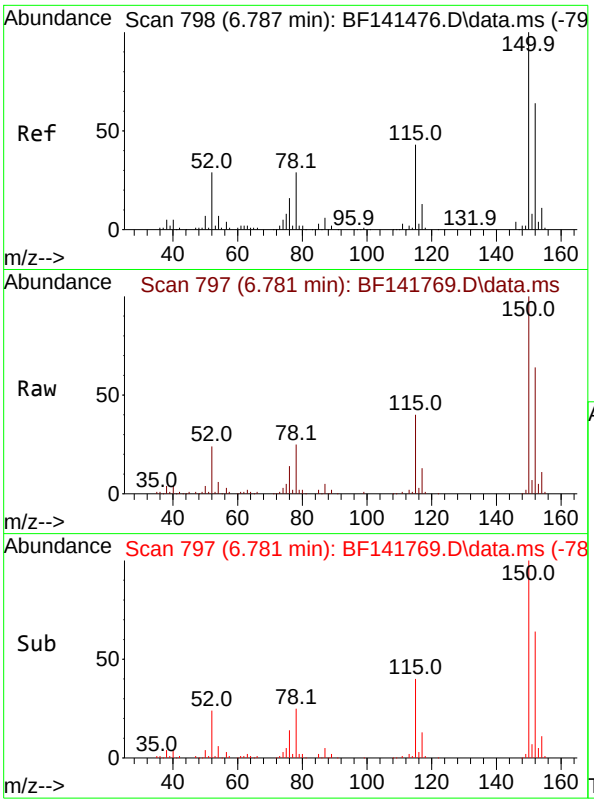
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Time: Feb 26 00:07:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



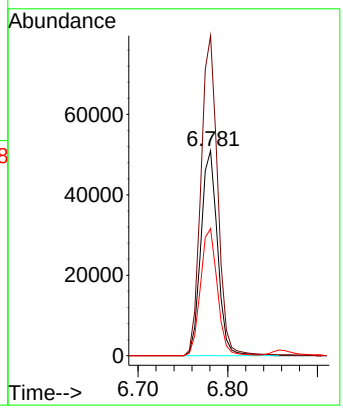


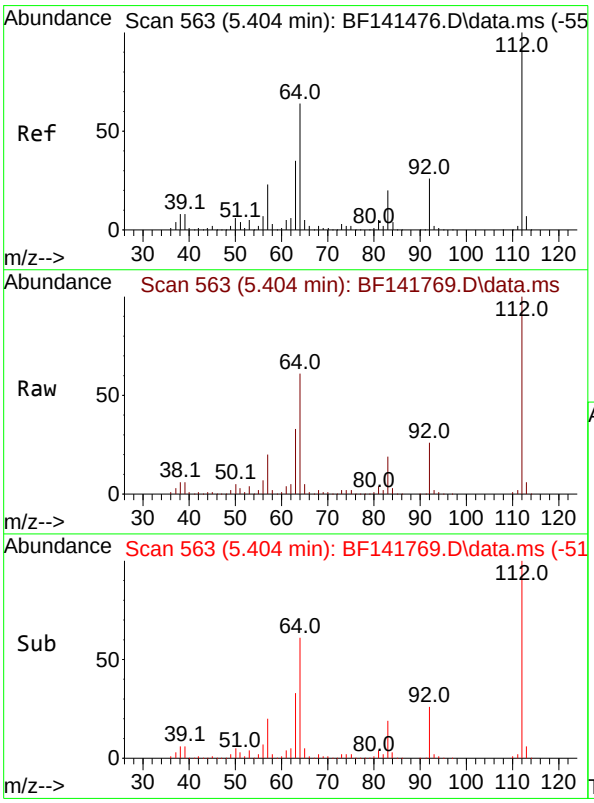
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Tgt Ion:152 Resp: 65687

Ion	Ratio	Lower	Upper
152	100		
150	156.1	125.0	187.4
115	62.0	53.6	80.4

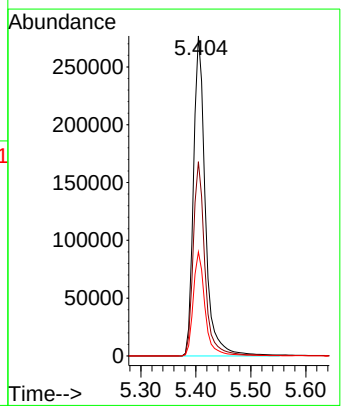


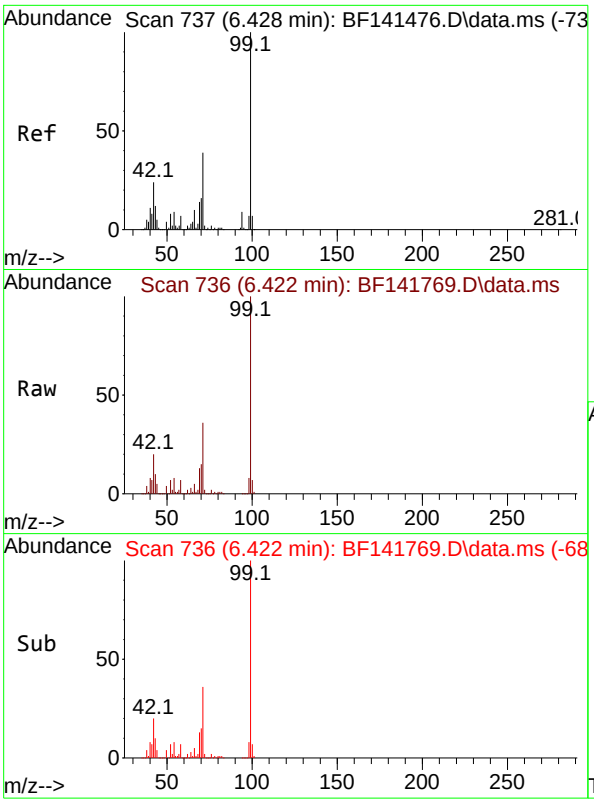


#5
2-Fluorophenol
Concen: 99.380 ng
RT: 5.404 min Scan# 563
Delta R.T. -0.006 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Tgt Ion:112 Resp: 416394

Ion	Ratio	Lower	Upper
112	100		
64	60.7	51.1	76.7
63	32.5	28.4	42.6



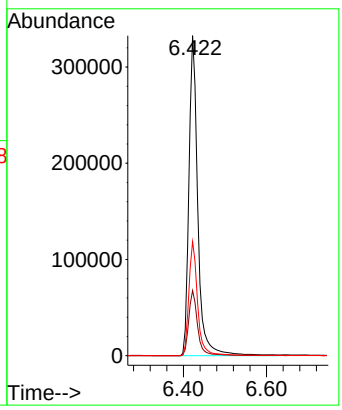


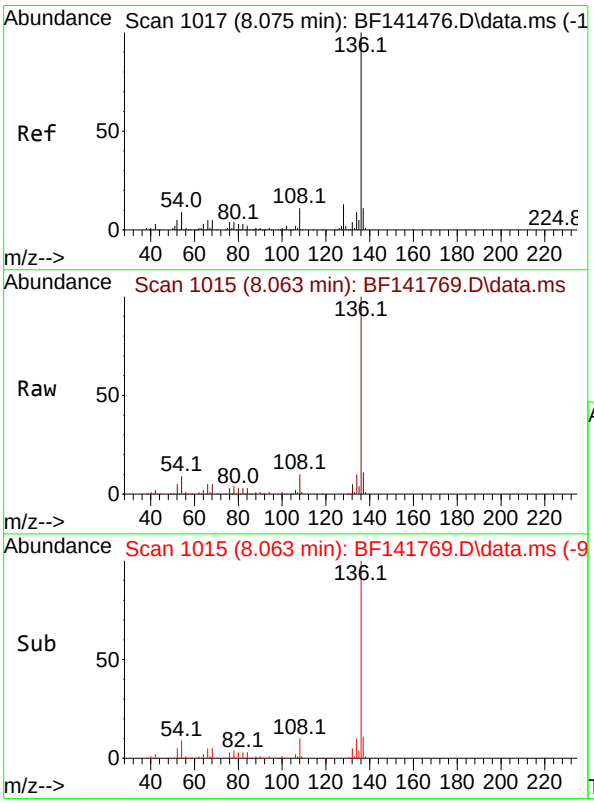
#7
Phenol-d6
Concen: 93.056 ng
RT: 6.422 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Tgt Ion: 99 Resp: 492798

Ion	Ratio	Lower	Upper
99	100		
42	20.4	19.1	28.7
71	35.6	31.1	46.7

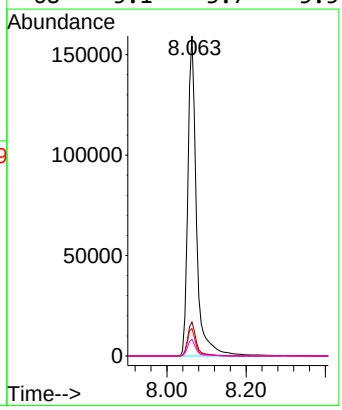


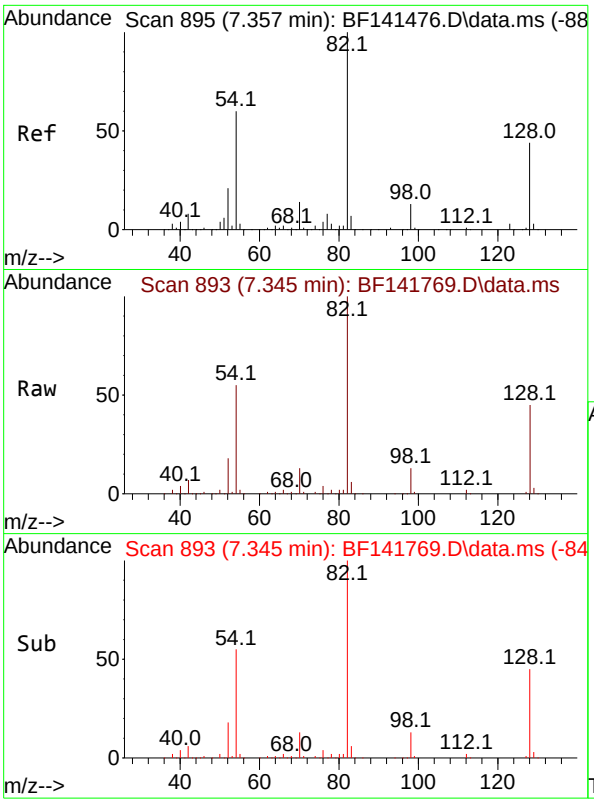


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Tgt Ion:136 Resp: 241105

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.6	13.0
54	8.6	7.2	10.8
68	5.1	3.7	5.5



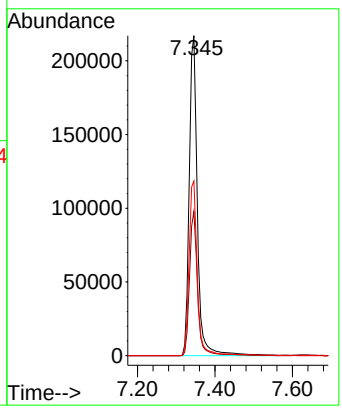


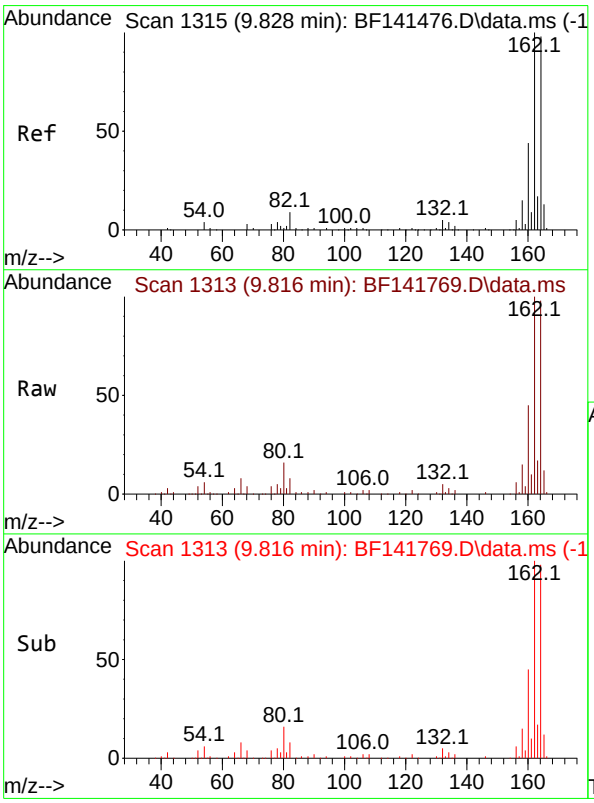
#23
Nitrobenzene-d5
Concen: 68.908 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Tgt Ion: 82 Resp: 318531

Ion	Ratio	Lower	Upper
82	100		
128	45.1	34.8	52.2
54	54.5	48.2	72.4

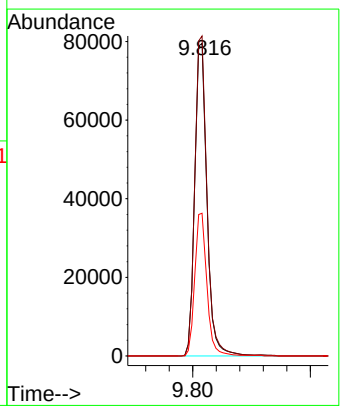


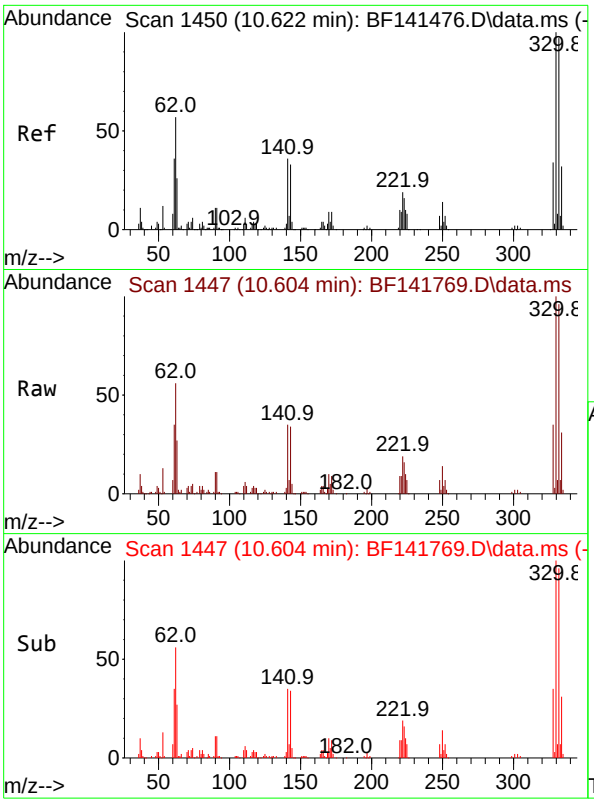


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 1313
Delta R.T. -0.017 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Tgt Ion:164 Resp: 115261

Ion	Ratio	Lower	Upper
164	100		
162	102.4	81.3	121.9
160	45.7	35.9	53.9



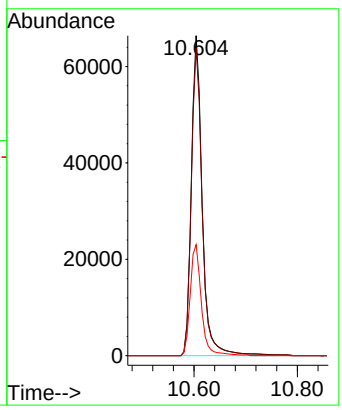


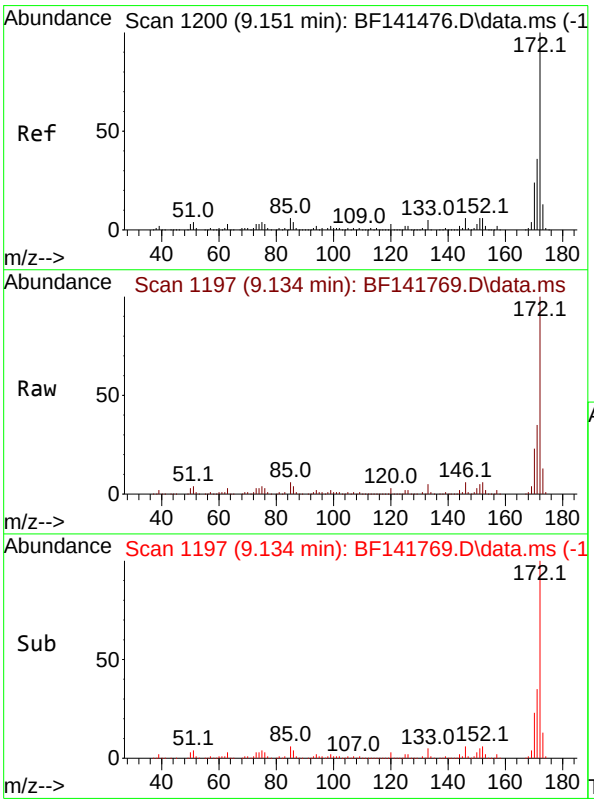
#42
2,4,6-Tribromophenol
Concen: 84.176 ng
RT: 10.604 min Scan# 14
Delta R.T. -0.023 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Tgt Ion:330 Resp: 97463

Ion	Ratio	Lower	Upper
330	100		
332	96.5	78.5	117.7
141	35.6	31.0	46.4

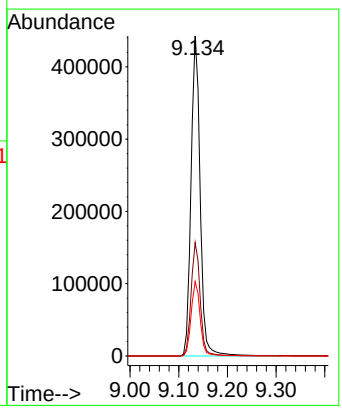


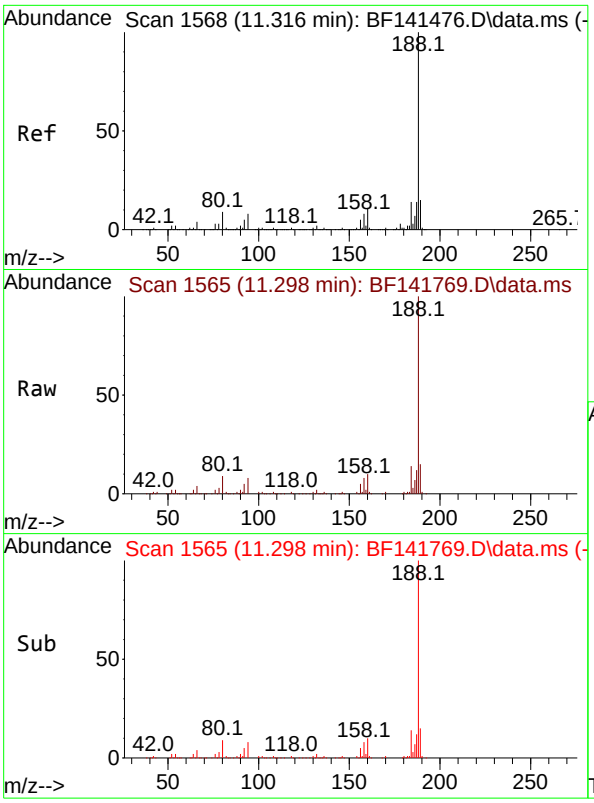


#45
2-Fluorobiphenyl
Concen: 77.286 ng
RT: 9.134 min Scan# 1197
Delta R.T. -0.017 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Tgt Ion:172 Resp: 578204

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.7	43.1
170	23.3	18.9	28.3



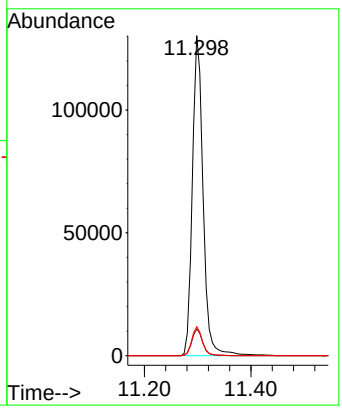


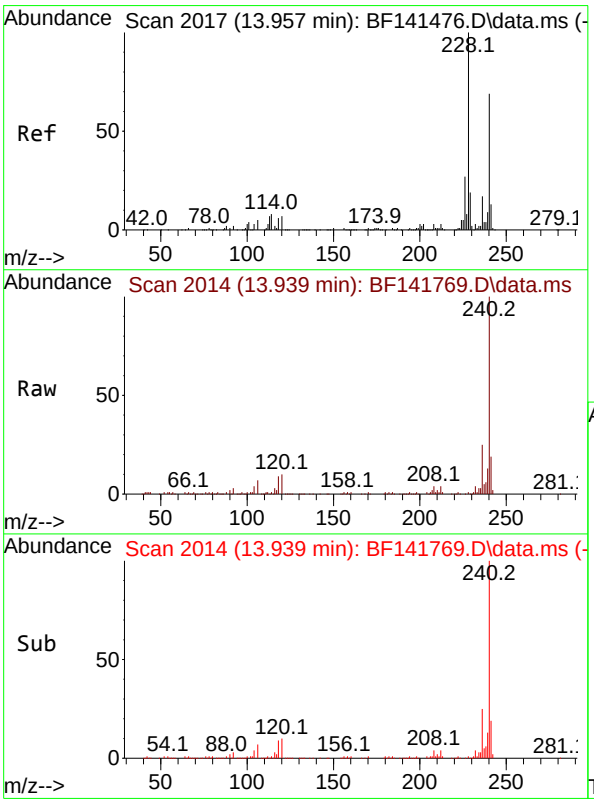
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Tgt Ion:188 Resp: 181981

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.6	10.0
80	9.1	7.3	10.9

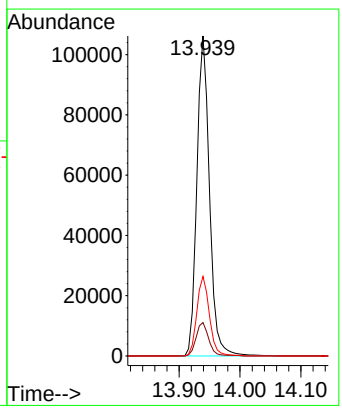


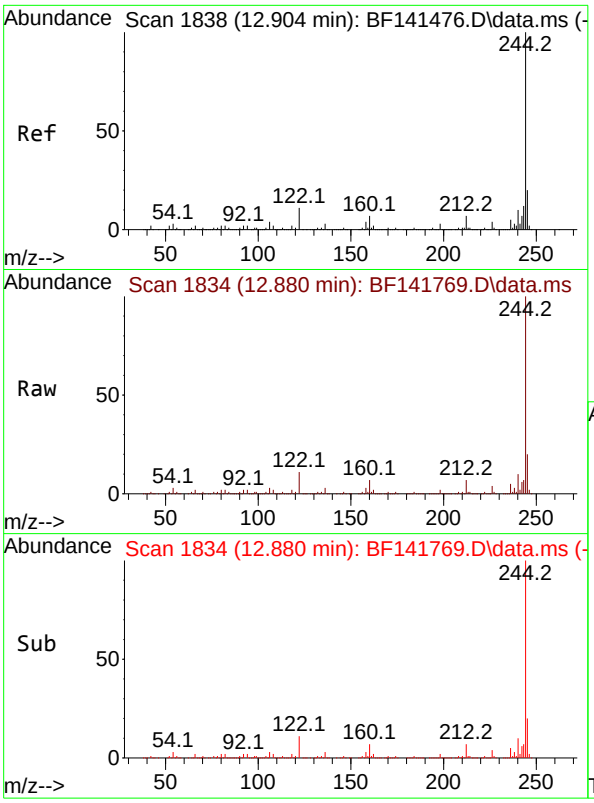


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Tgt Ion:240 Resp: 152705

Ion	Ratio	Lower	Upper
240	100		
120	10.4	8.0	12.0
236	24.9	19.8	29.8



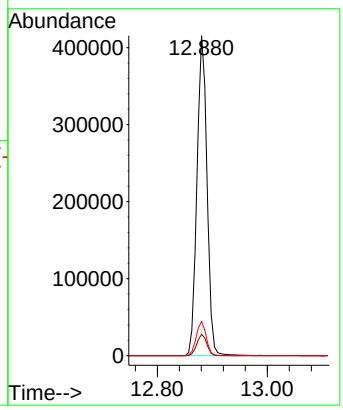


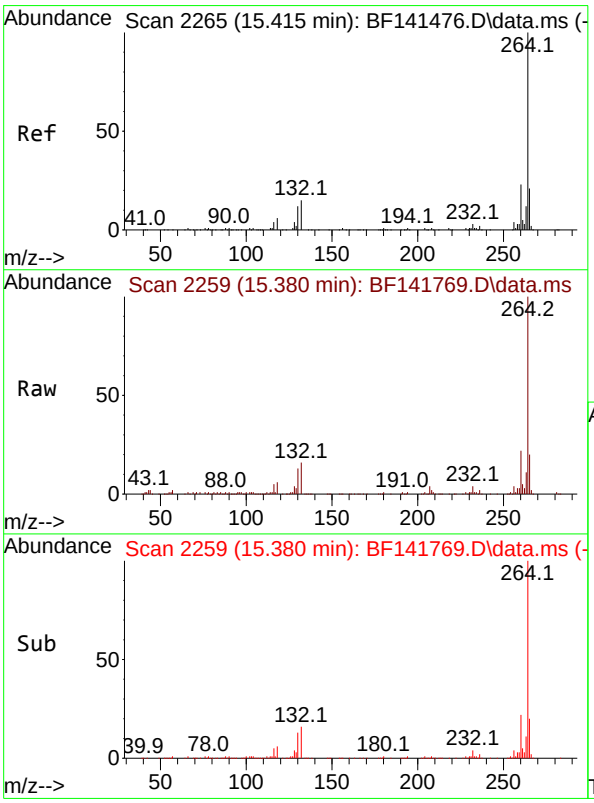
#79
Terphenyl-d14
Concen: 58.534 ng
RT: 12.880 min Scan# 1
Delta R.T. -0.023 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Tgt Ion:244 Resp: 529478

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	10.7	8.4	12.6

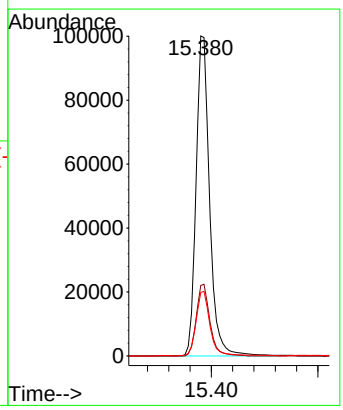




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.380 min Scan# 2259
Delta R.T. -0.035 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Tgt Ion:264 Resp: 176440

Ion	Ratio	Lower	Upper
264	100		
260	22.0	18.6	28.0
265	19.9	17.0	25.4



Sample Results: **BF141769.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141769.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.293	28	34	52	rVB	20550	53463	3.20%	0.412%
2	2.540	69	76	92	rVB	414683	724892	43.36%	5.584%
3	3.216	186	191	220	rBV	37280	118915	7.11%	0.916%
4	4.175	346	354	371	rBV	334532	527025	31.52%	4.060%
5	5.404	558	563	587	rBV	986323	1464643	87.61%	11.283%
6	6.422	731	736	766	rBV	968118	1456506	87.12%	11.220%
7	6.781	792	797	805	rBV	299682	386466	23.12%	2.977%
8	7.345	887	893	906	rBV	645709	928964	55.57%	7.156%
9	7.628	931	941	957	rBV3	11951	38369	2.30%	0.296%
10	8.063	1010	1015	1041	rVB	321653	481091	28.78%	3.706%
11	8.787	1134	1138	1155	rBV	120219	179623	10.74%	1.384%
12	9.134	1192	1197	1208	rBV	1280300	1671850	100.00%	12.879%
13	9.216	1208	1211	1222	rVB	10864	19019	1.14%	0.147%
14	9.816	1307	1313	1327	rBV	333249	477546	28.56%	3.679%
15	10.528	1429	1434	1442	rBV	78466	107009	6.40%	0.824%
16	10.604	1442	1447	1462	rBV	531130	769859	46.05%	5.931%
17	10.851	1479	1489	1495	rBV4	27710	56107	3.36%	0.432%
18	11.151	1535	1540	1551	rBV	17440	30084	1.80%	0.232%
19	11.298	1560	1565	1579	rBV	317303	438056	26.20%	3.375%
20	11.828	1650	1655	1667	rBV2	56818	125203	7.49%	0.965%
21	12.180	1711	1715	1721	rVB	14217	18627	1.11%	0.143%
22	12.622	1785	1790	1797	rBV6	9084	21746	1.30%	0.168%
23	12.686	1797	1801	1807	rVB2	20730	29617	1.77%	0.228%
24	12.880	1829	1834	1845	rBV	1084082	1377952	82.42%	10.615%
25	13.157	1876	1881	1884	rBV	20583	26782	1.60%	0.206%
26	13.416	1921	1925	1928	rBV	14634	19654	1.18%	0.151%
27	13.592	1951	1955	1960	rVB	26004	34299	2.05%	0.264%
28	13.780	1982	1987	2004	rBV4	40646	137269	8.21%	1.057%
29	13.939	2009	2014	2021	rVV	286546	415698	24.86%	3.202%
30	14.004	2021	2025	2032	rVB	28187	44363	2.65%	0.342%
31	14.392	2087	2091	2097	rBV2	33174	54244	3.24%	0.418%
32	14.686	2136	2141	2149	rBV2	95243	153482	9.18%	1.182%
33	14.769	2150	2155	2162	rVB	52048	77876	4.66%	0.600%
34	15.174	2220	2224	2232	rVB3	14604	23937	1.43%	0.184%
35	15.380	2254	2259	2271	rBV	266404	471646	28.21%	3.633%
36	15.815	2330	2333	2339	rVB2	12471	18895	1.13%	0.146%

Sample Results: **BF141769.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Sum of corrected areas: 12980777

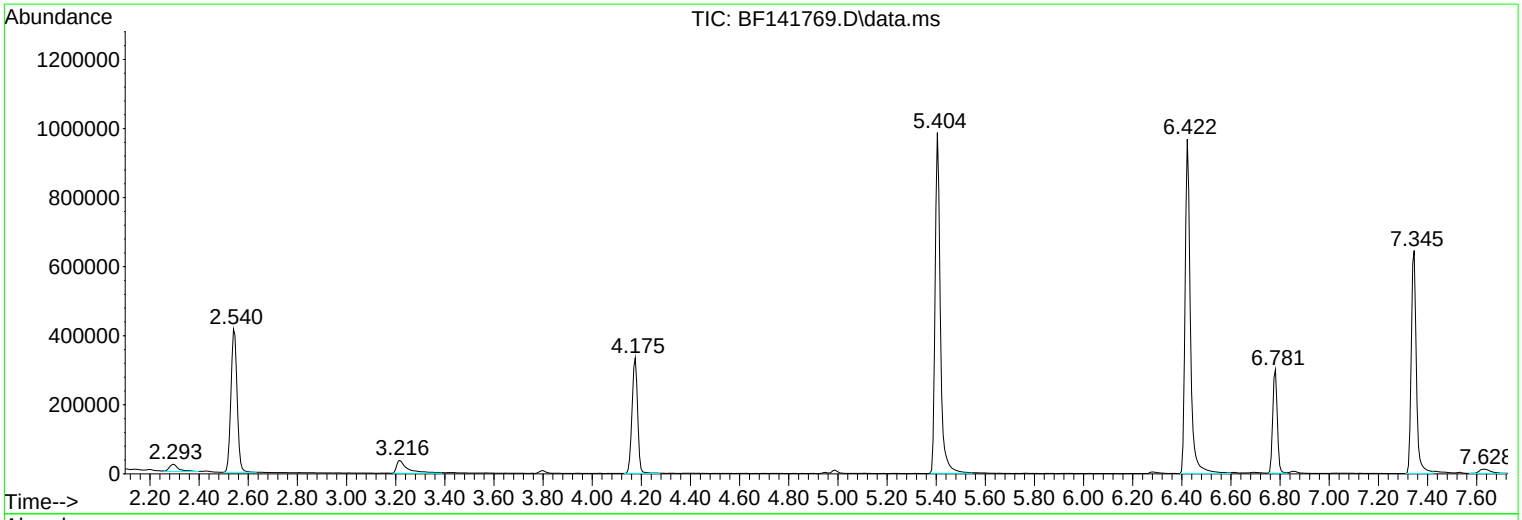
Sample Results: **BF141769.D**

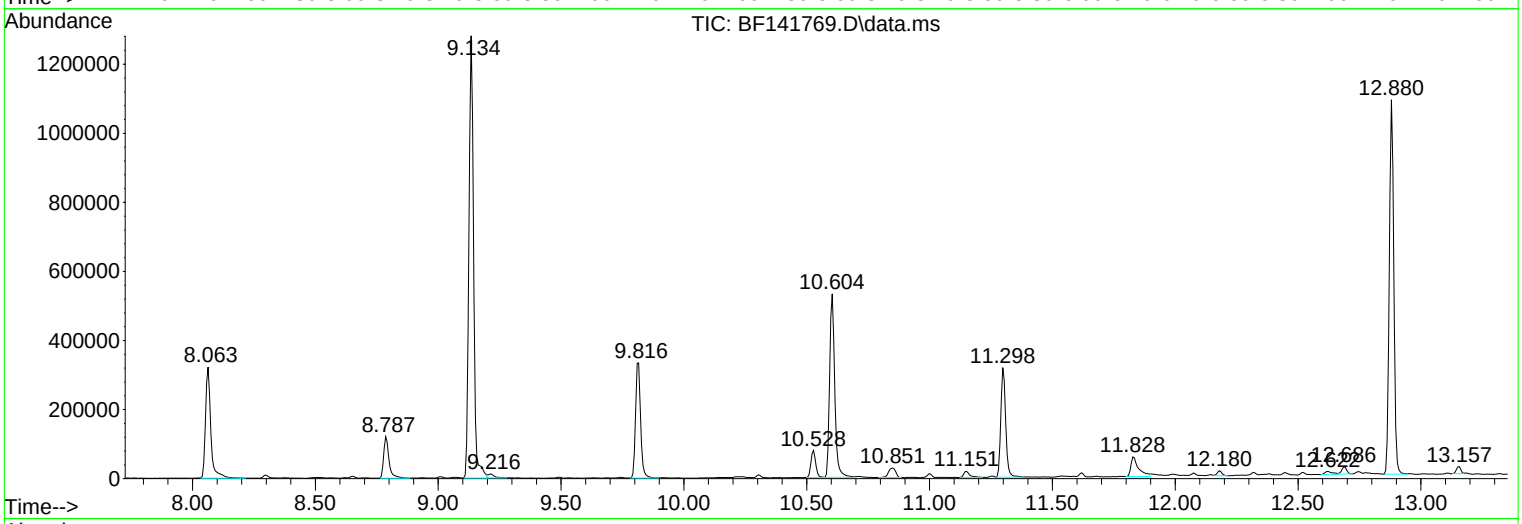
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

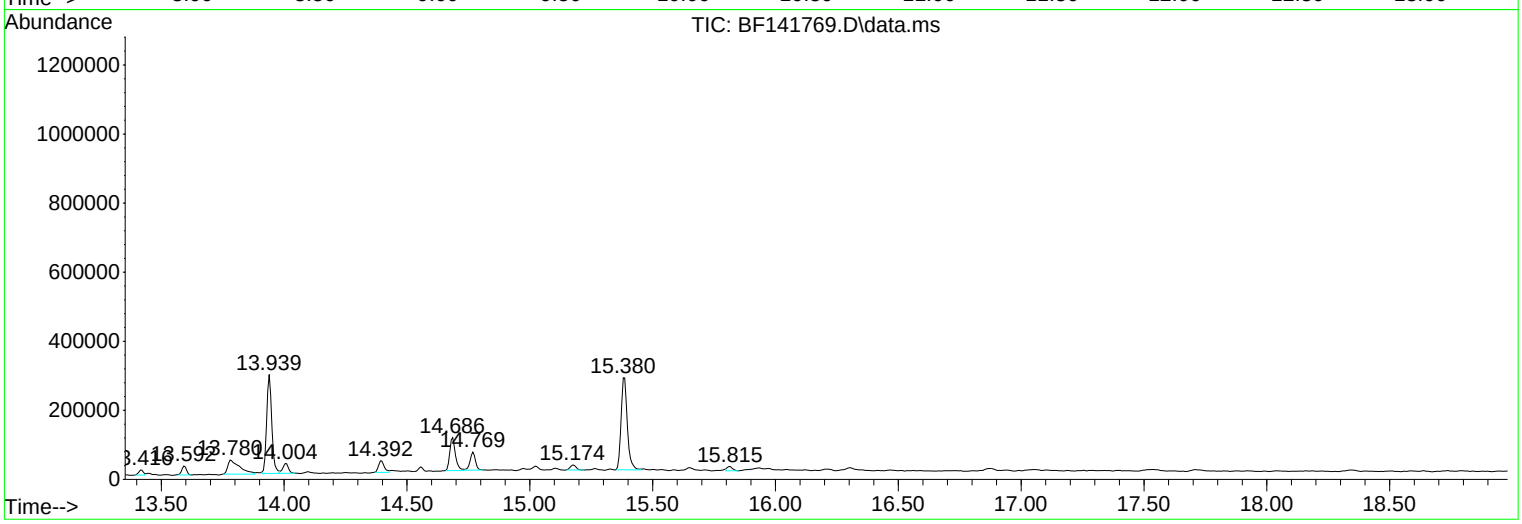
Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.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\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

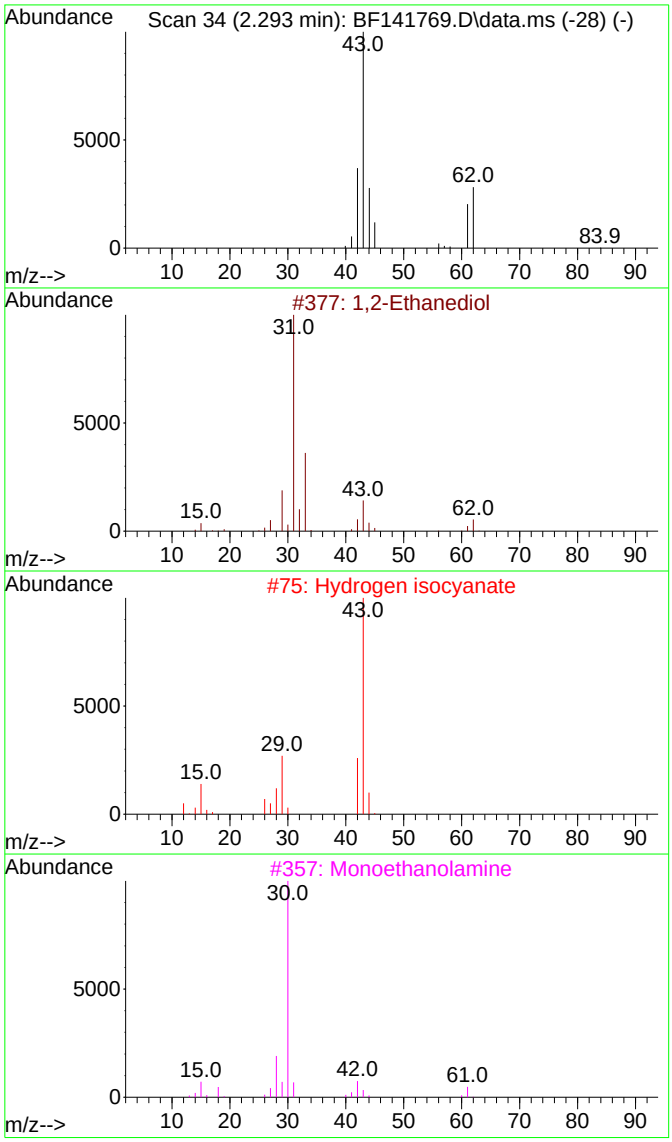
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

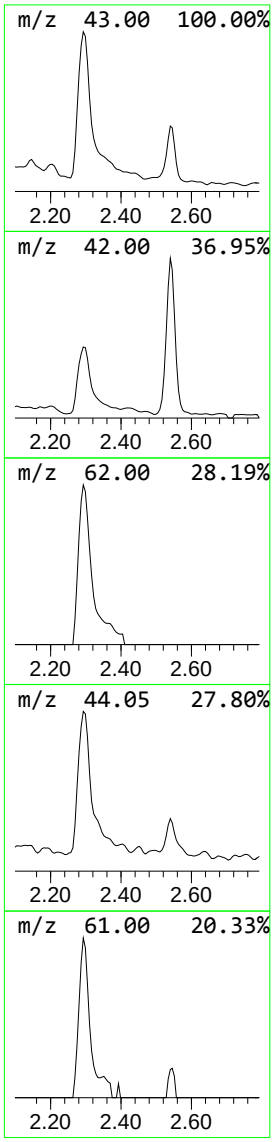
****

Peak Number 1 unknown2.293 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.293	2.77 ng	53463	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Ethanediol	62	C2H6O2	000107-21-1	7
2	Hydrogen isocyanate	43	CHNO	000075-13-8	3
3	Monoethanolamine	61	C2H7NO	000141-43-5	3
4	Peroxide, dimethyl	62	C2H6O2	000690-02-8	3
5	n-Propyl fluoride	62	C3H7F	000460-13-9	3





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

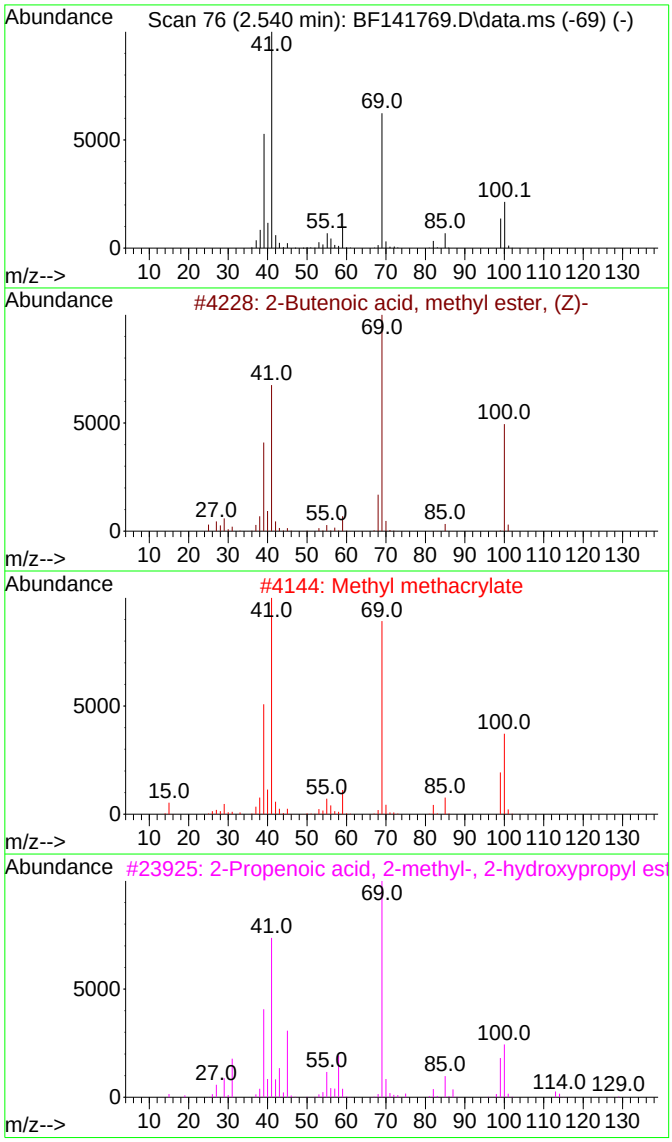
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

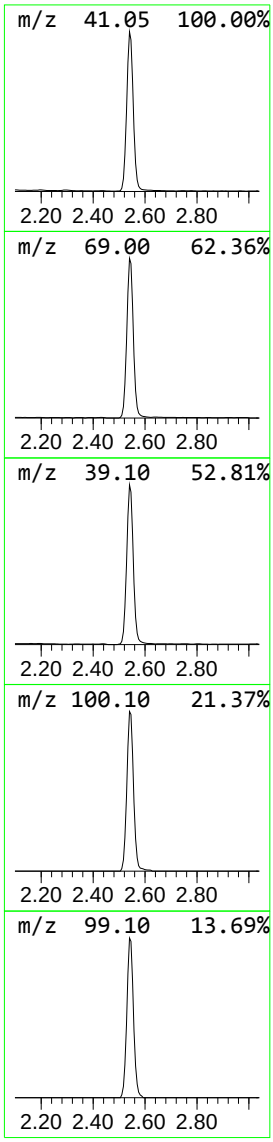
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 2-Butenoic acid, methyl est... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.540	37.51 ng	724892	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Butenoic acid, methyl ester, (Z)-	100	C5H8O2	004358-59-2	80
2	Methyl methacrylate	100	C5H8O2	000080-62-6	64
3	2-Propenoic acid, 2-methyl-, 2-h...	144	C7H12O3	000923-26-2	56
4	2-Butenoic acid, methyl ester, (E)-	100	C5H8O2	000623-43-8	47
5	2-Propenoic acid, 2-methyl-, 2-p...	124	C7H8O2	013861-22-8	32





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

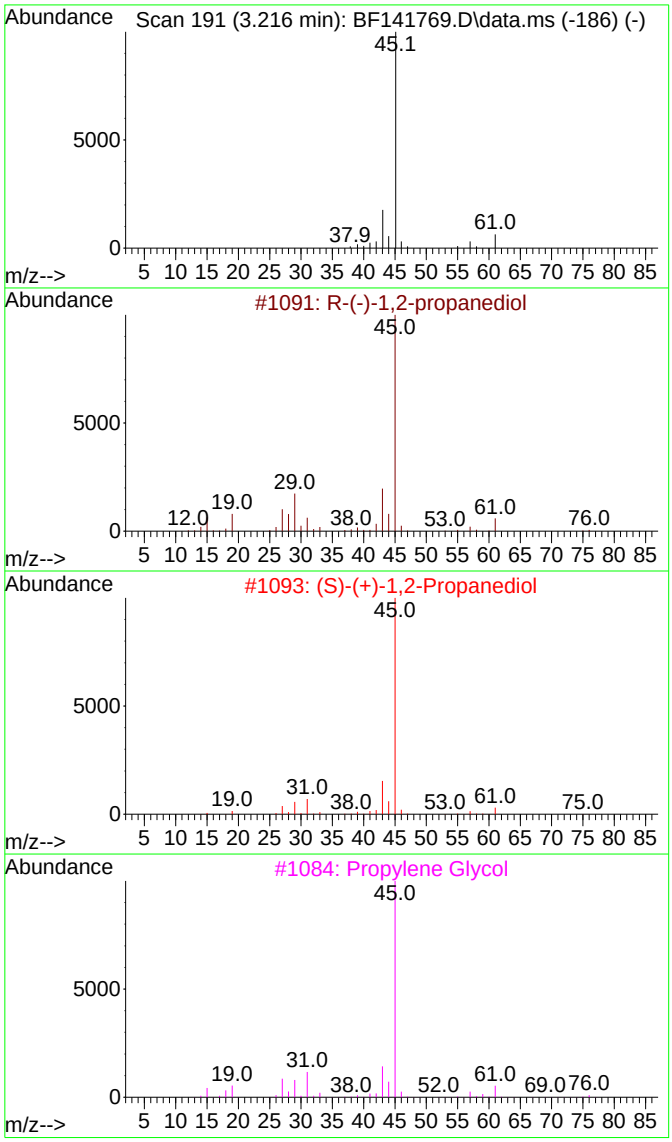
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

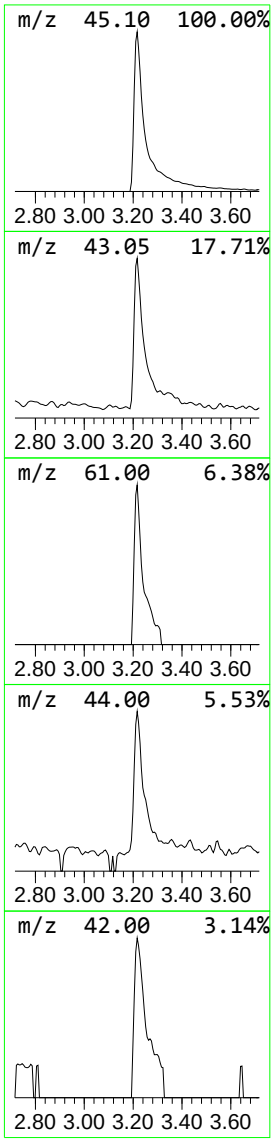
****

Peak Number 3 unknown3.216 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.216	6.15 ng	118915	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	R-(-)-1,2-propanediol	76	C3H8O2	004254-14-2	43
2	(S)-(+)-1,2-Propanediol	76	C3H8O2	004254-15-3	9
3	Propylene Glycol	76	C3H8O2	000057-55-6	9
4	Propanoic acid, 2-hydroxy-, meth...	104	C4H8O3	000547-64-8	9
5	L-Lactic acid	90	C3H6O3	000079-33-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

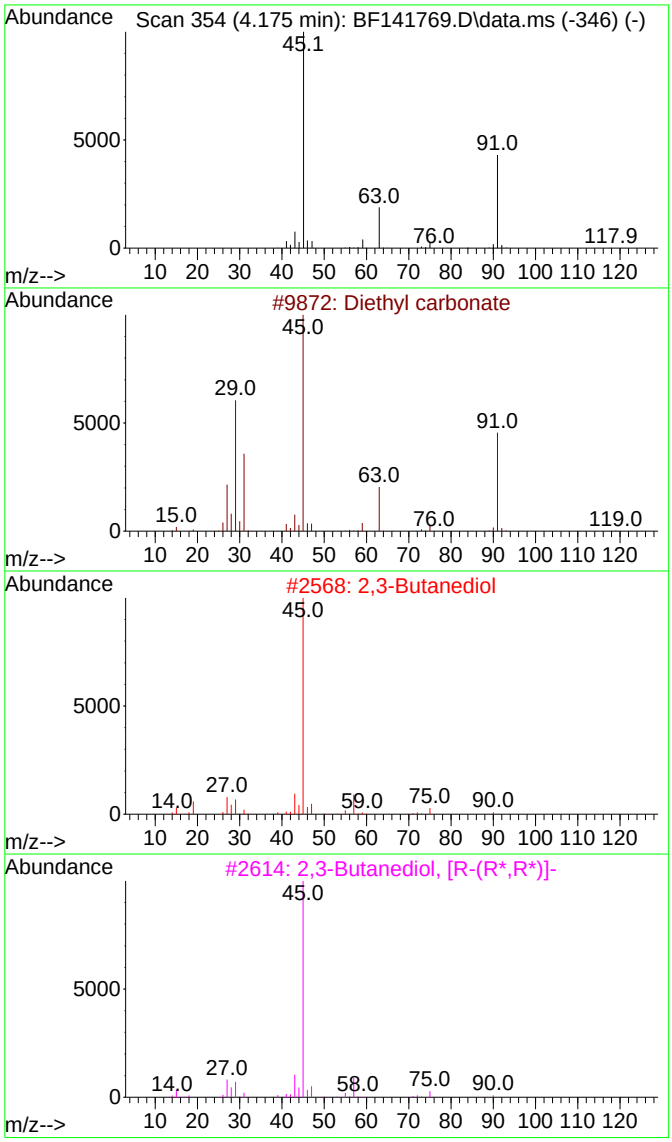
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

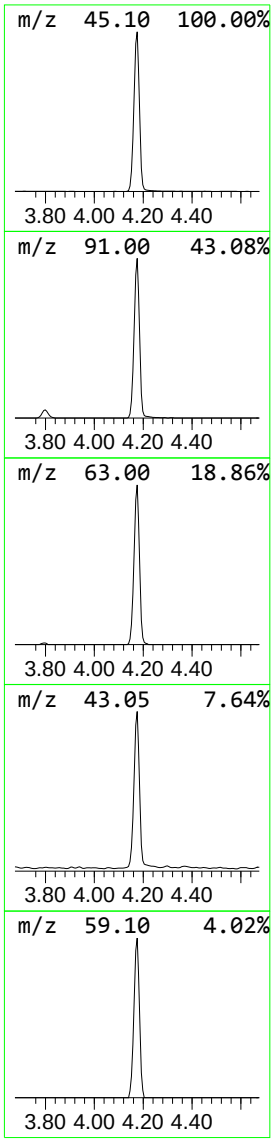
****

Peak Number 4 Diethyl carbonate Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.175	27.27 ng	527025	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diethyl carbonate	118	C5H10O3	000105-58-8	83
2	2,3-Butanediol	90	C4H10O2	000513-85-9	36
3	2,3-Butanediol, [R-(R*,R*)]-	90	C4H10O2	024347-58-8	9
4	Diethyl pyrocarbonate	162	C6H10O5	001609-47-8	9
5	Butane, 1-methoxy-	88	C5H12O	000628-28-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

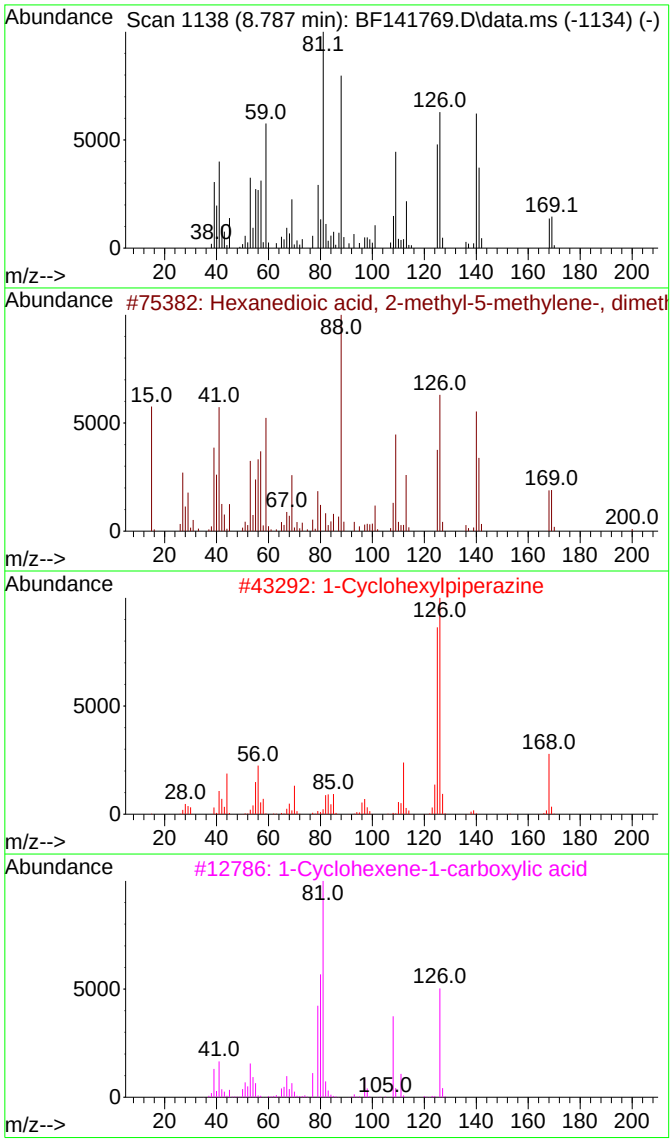
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

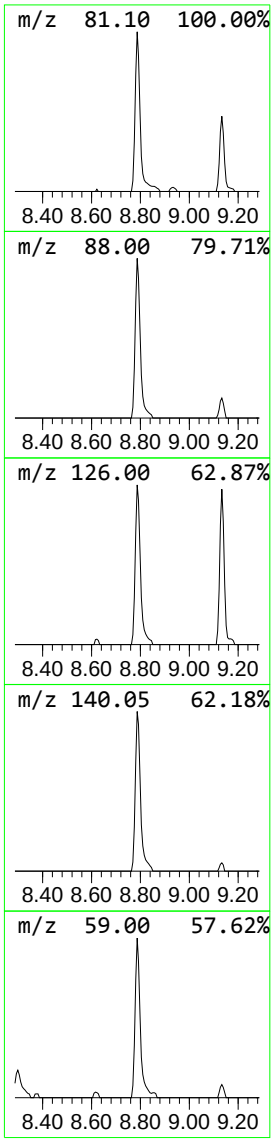
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Hexanedioic acid, 2-methyl-... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.787	7.47 ng	179623	Naphthalene-d8	8.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanedioic acid, 2-methyl-5-met...	200	C10H16O4	004513-62-6	58
2	1-Cyclohexylpiperazine	168	C10H20N2	1000484-48-8	15
3	1-Cyclohexene-1-carboxylic acid	126	C7H10O2	000636-82-8	14
4	1-Chlorosulfonyl-3-methyl-1-azas...	251	C9H14ClNO3S	016933-89-4	14
5	1-(4-Methylhexahydrocyclopenta[b...	182	C11H18O2	1000186-82-3	14





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Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

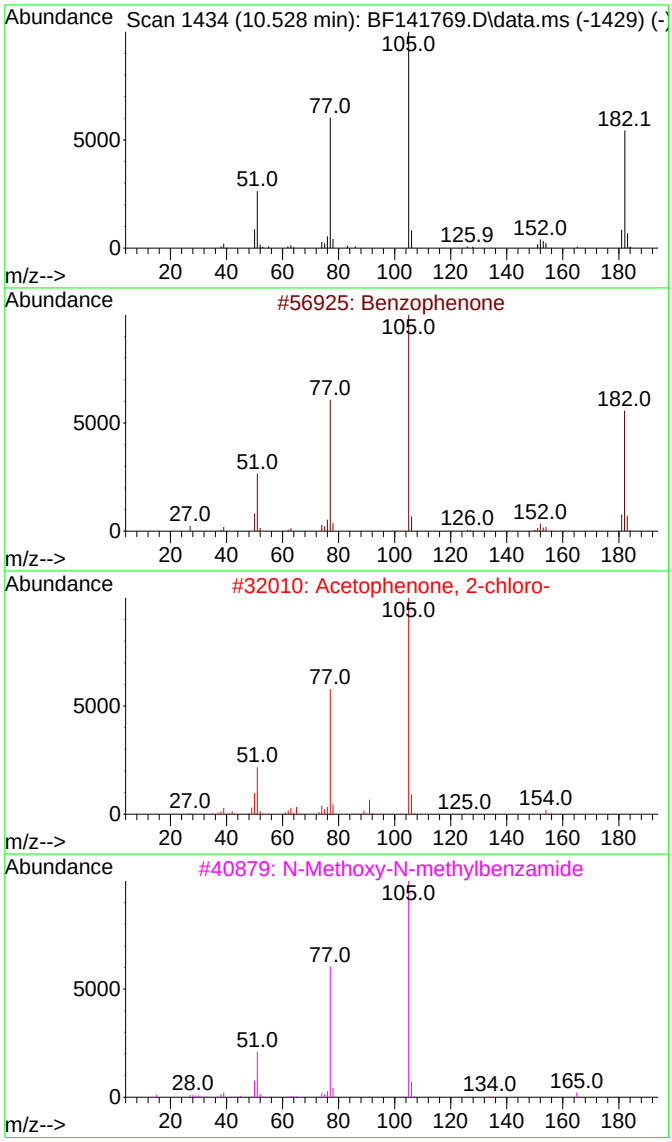
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

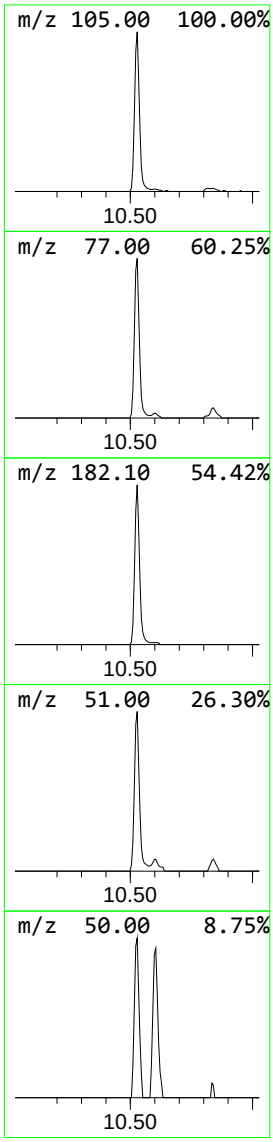
****

Peak Number 6 Benzophenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.528	4.48 ng	107009	Acenaphthene-d10	9.816

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
3	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47
4	Benzoyl isothiocyanate	163	C8H5NOS	000532-55-8	47
5	Benzeneacetic acid, .alpha.-oxo-...	178	C10H10O3	001603-79-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
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Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

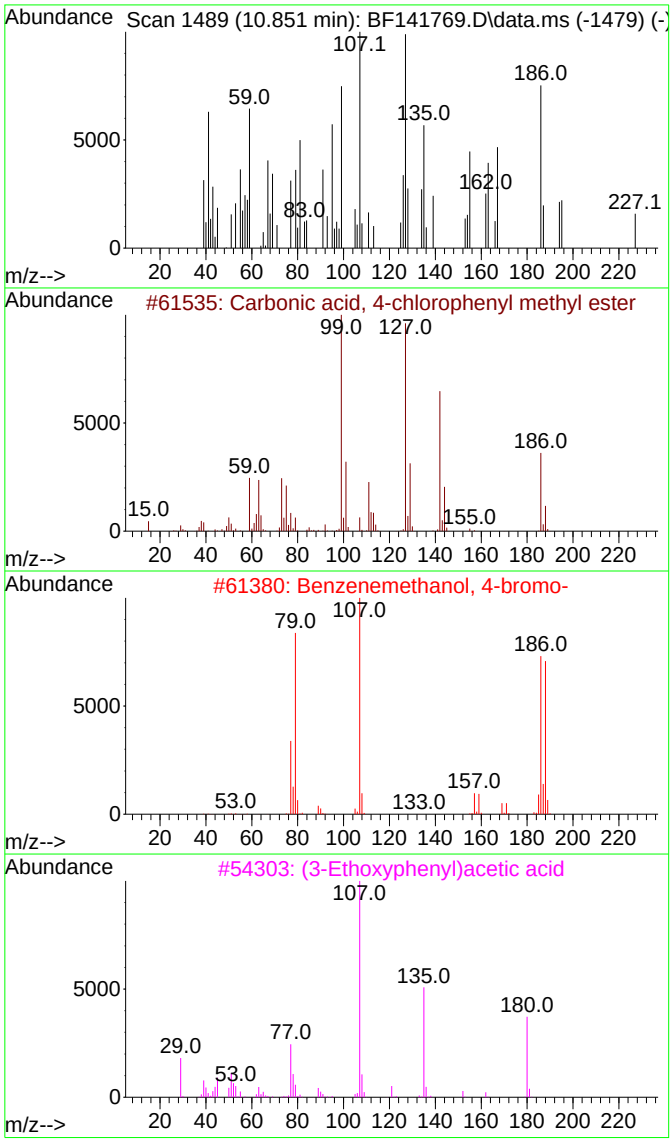
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

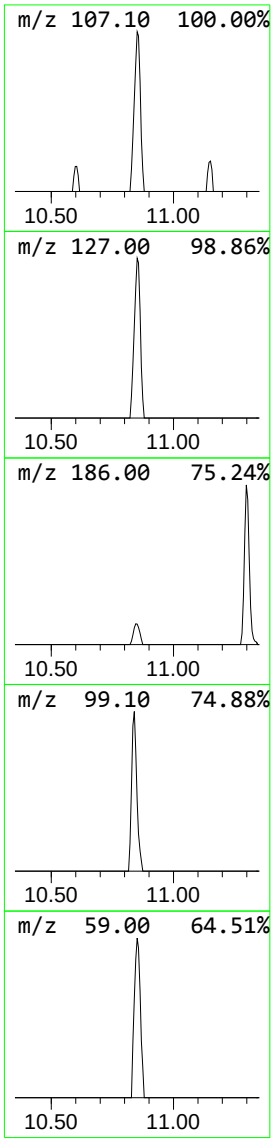
****

Peak Number 7 unknown10.851 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.851	2.56 ng	56107	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonic acid, 4-chlorophenyl me...	186	C8H7ClO3	024260-28-4	35
2	Benzenemethanol, 4-bromo-	186	C7H7BrO	000873-75-6	10
3	(3-Ethoxyphenyl)acetic acid	180	C10H12O3	072775-83-8	10
4	Ethyl propylphosphonofluoridate	154	C5H12FO2P	1000298-31-3	10
5	1,3-Cyclopentadiene, 1,3-bis(1-m...	150	C11H18	123278-27-3	10





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

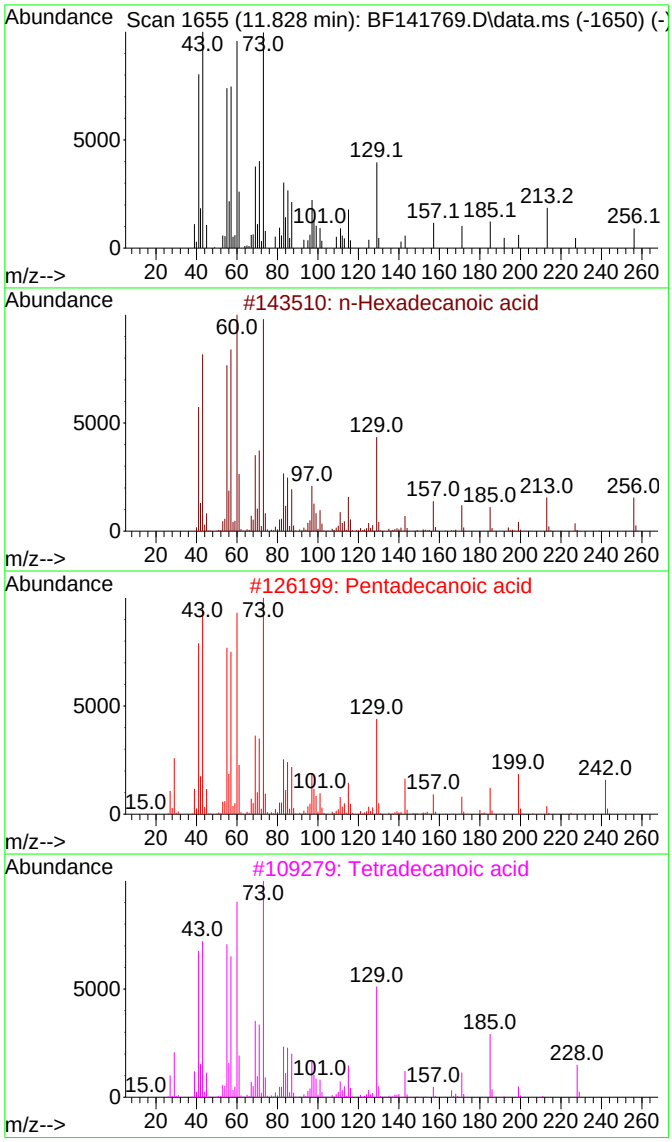
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

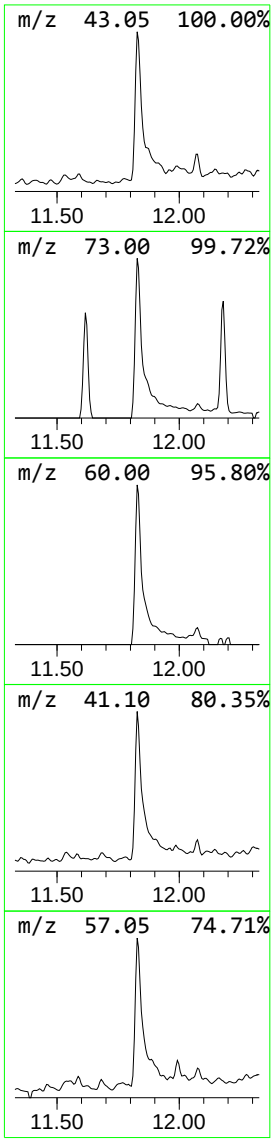
****

Peak Number 8 n-Hexadecanoic acid Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.828	5.72 ng	125203	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	87
4	Tridecanoic acid	214	C13H26O2	000638-53-9	86
5	Oxalic acid, allyl octadecyl ester	382	C23H42O4	1000309-24-5	11





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

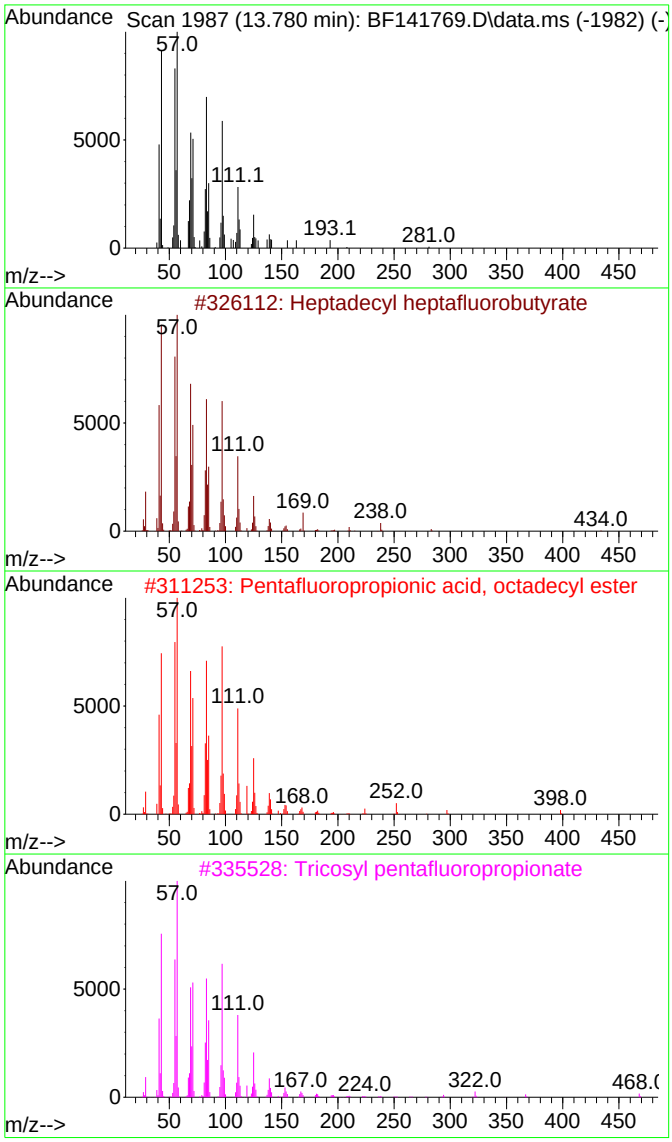
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

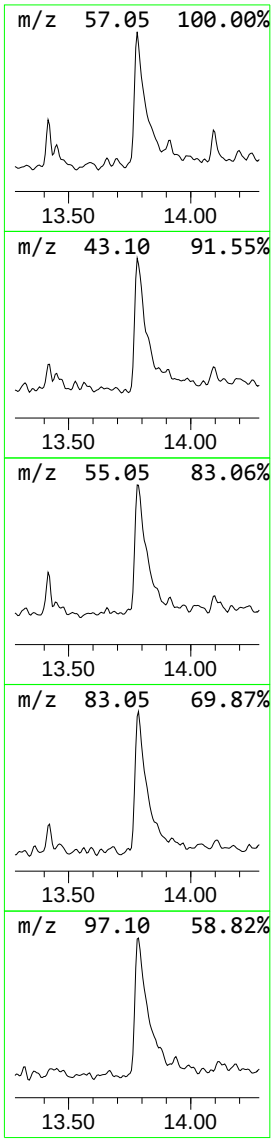
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Heptadecyl heptafluorobutyrate Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.780	6.60 ng	137269	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94
2	Pentafluoropropionic acid, octad...	416	C21H37F5O2	959261-25-7	91
3	Tricosyl pentafluoropropionate	486	C26H47F5O2	1000351-81-0	91
4	Docosyl pentafluoropropionate	472	C25H45F5O2	1000351-80-9	91
5	Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

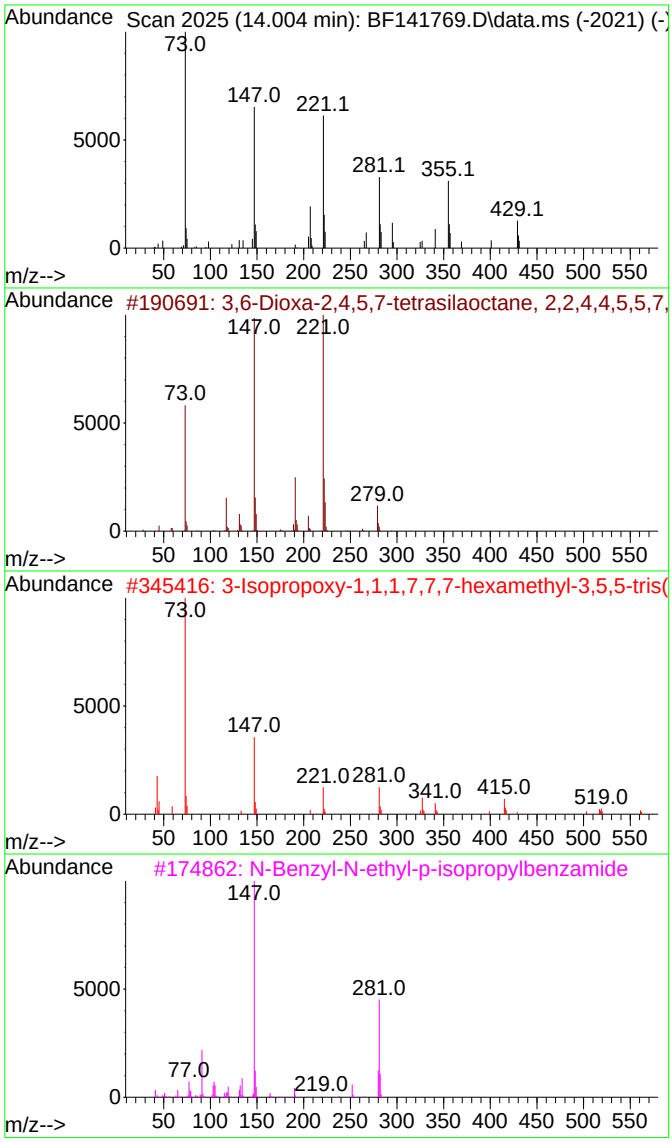
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

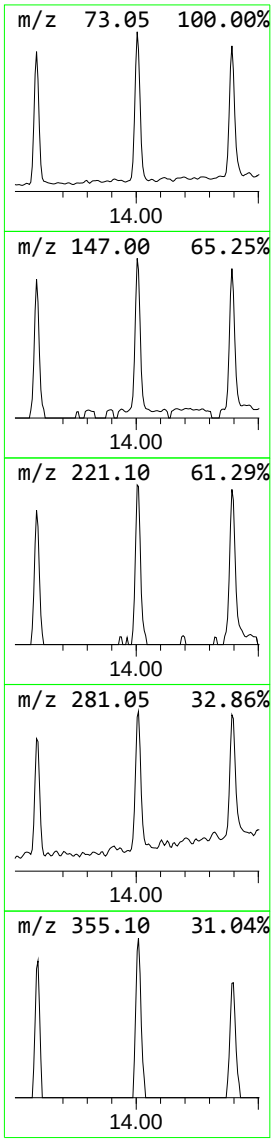
****

Peak Number 10 unknown14.004 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.004	2.13 ng	44363	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,6-Dioxa-2,4,5,7-tetrasilaoctan...	294	C10H30O2Si4	004342-25-0	35
2	3-Isopropoxy-1,1,1,7,7,7-hexamet...	576	C18H52O7Si7	071579-69-6	32
3	N-Benzyl-N-ethyl-p-isopropylbenz...	281	C19H23NO	015089-22-2	27
4	Pentasiloxane, dodecamethyl-	384	C12H36O4Si5	000141-63-9	27
5	Mercaptoacetic acid, 2TMS deriva...	236	C8H20O2SSi2	006398-62-5	25





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

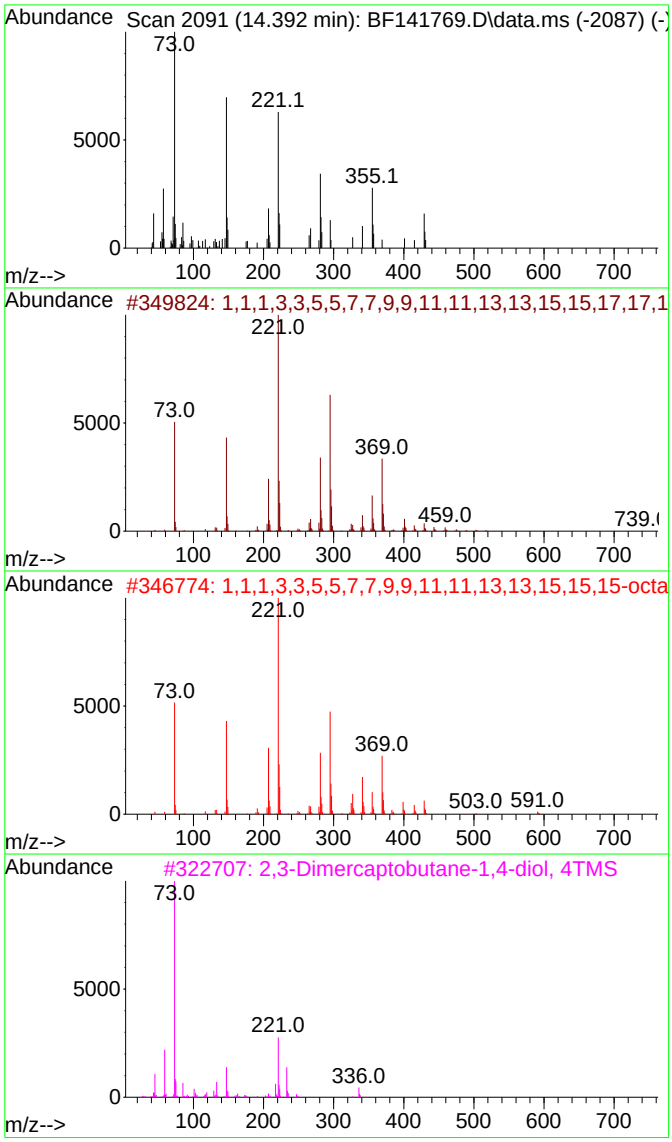
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

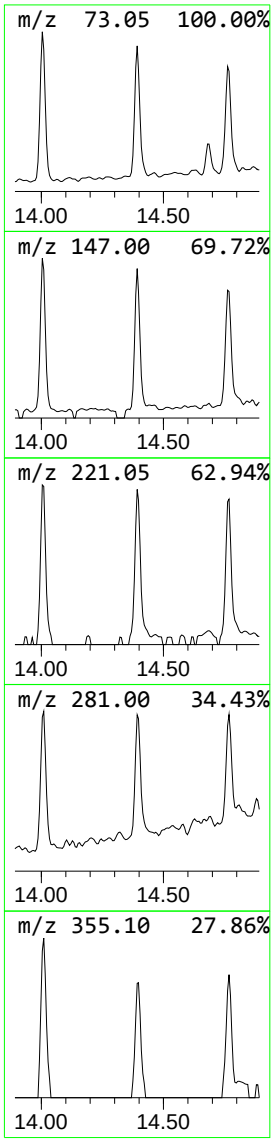
****

Peak Number 11 unknown14.392 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.392	2.61 ng	54244	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1,1,3,3,5,5,7,7,9,9,11,11,13,1...	754	C22H66O9Si10	000556-70-7	42
2	1,1,1,3,3,5,5,7,7,9,9,11,11,13,1...	606	C18H54O7Si8	000556-69-4	40
3	2,3-Dimercaptobutane-1,4-diol, 4TMS	442	C16H42O2S2Si4	959295-06-8	38
4	3,6-Dioxa-2,4,5,7-tetrasilaoctan...	294	C10H30O2Si4	004342-25-0	32
5	Mercaptoacetic acid, 2TMS deriva...	236	C8H20O2SSi2	006398-62-5	32





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

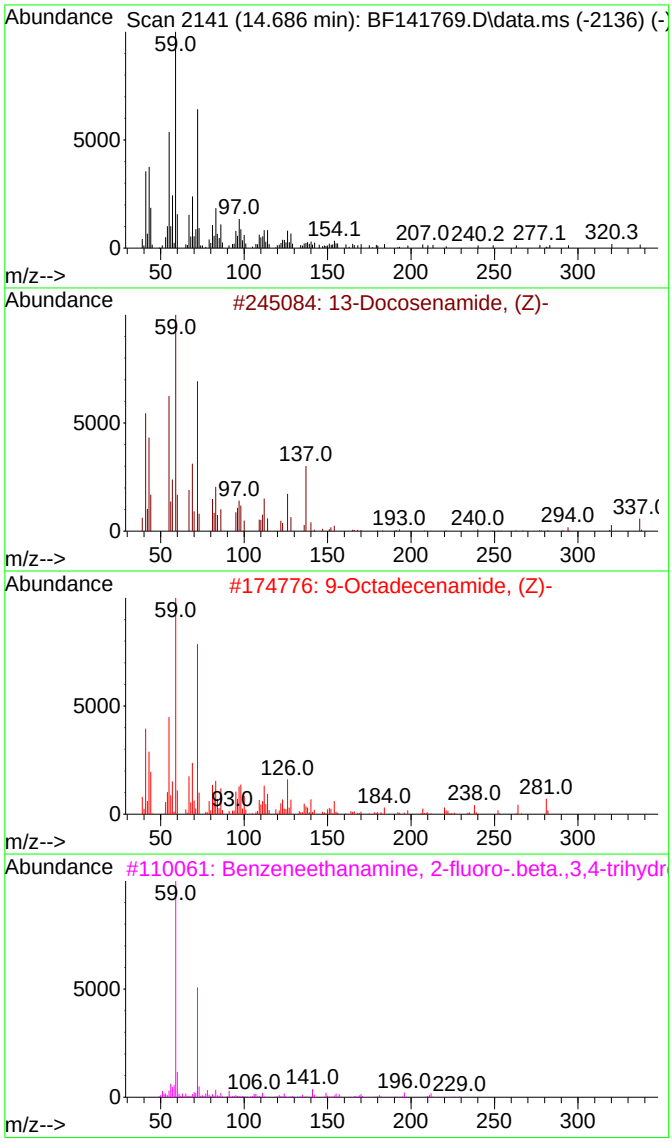
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

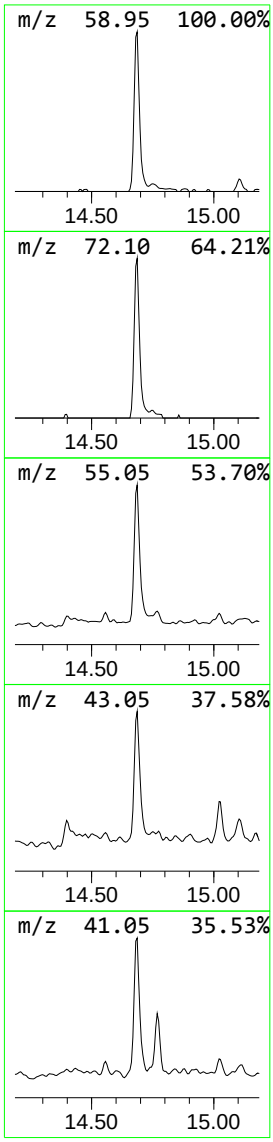
****

Peak Number 12 13-Docosenamide, (Z)- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.686	6.51 ng	153482	Perylene-d12	15.380

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	93
2	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	91
3	Benzeneethanamine, 2-fluoro-.bet...	229	C11H16FNO3	061338-98-5	64
4	Heptanamide, 4-ethyl-5-methyl-	171	C10H21NO	054789-40-1	64
5	Palmitoleamide	253	C16H31NO	106010-22-4	64





Sample Results: **BF141769.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

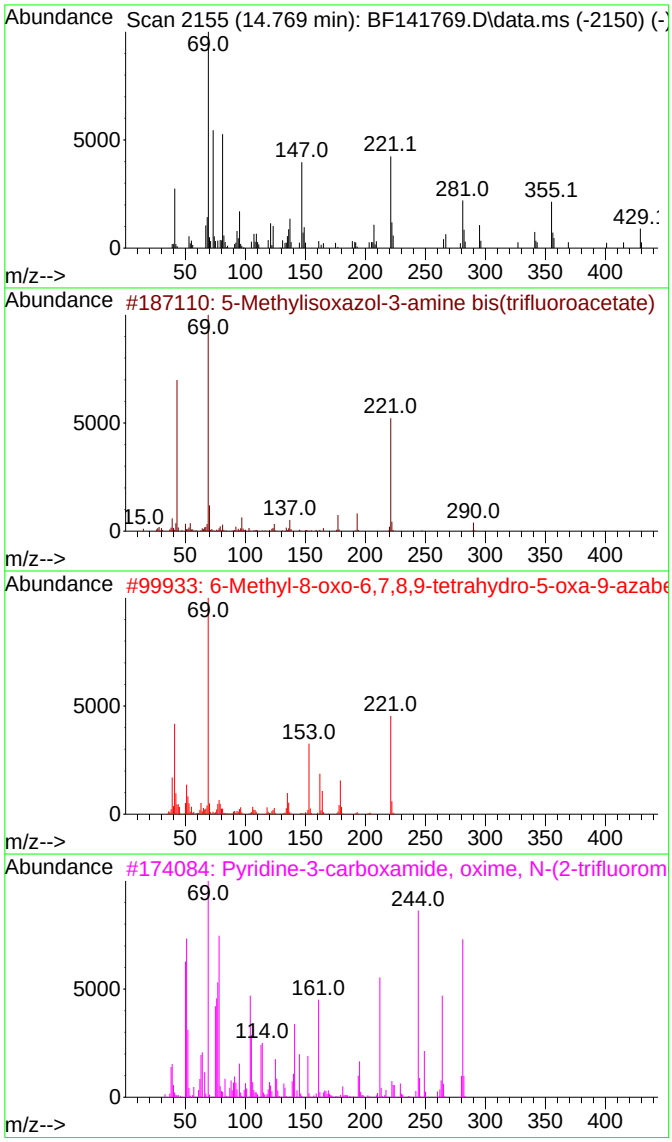
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

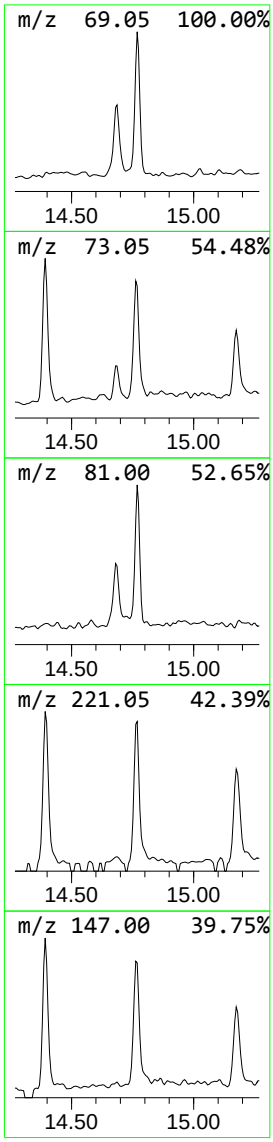
****

Peak Number 13 unknown14.769 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.769	3.30 ng	77876	Perylene-d12	15.380

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Methylisoxazol-3-amine bis(tri...	290	C8H4F6N2O3	1000373-35-6	37
2	6-Methyl-8-oxo-6,7,8,9-tetrahydr...	221	C11H11NO4	134076-69-0	37
3	Pyridine-3-carboxamide, oxime, N...	281	C13H10F3N3O	288246-53-7	27
4	1-Bromo-11-iodoundecane	360	C11H22BrI	139123-69-6	27
5	2-Amino-4,6-dihydroxypyrimidine,...	415	C10H2F9N3O5	1000375-76-1	10





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.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
unknown2.293	2.293	2.8	ng	53463	1	6.781	386466	20.0
2-Butenoic acid...	2.540	37.5	ng	724892	1	6.781	386466	20.0
unknown3.216	3.216	6.2	ng	118915	1	6.781	386466	20.0
Diethyl carbonate	4.175	27.3	ng	527025	1	6.781	386466	20.0
Hexanedioic aci...	8.787	7.5	ng	179623	2	8.063	481091	20.0
Benzophenone	10.528	4.5	ng	107009	3	9.816	477546	20.0
unknown10.851	10.851	2.6	ng	56107	4	11.298	438056	20.0
n-Hexadecanoic ...	11.828	5.7	ng	125203	4	11.298	438056	20.0
Heptadecyl hept...	13.780	6.6	ng	137269	5	13.939	415698	20.0
unknown14.004	14.004	2.1	ng	44363	5	13.939	415698	20.0
unknown14.392	14.392	2.6	ng	54244	5	13.939	415698	20.0
13-Docosenamide...	14.686	6.5	ng	153482	6	15.380	471646	20.0
unknown14.769	14.769	3.3	ng	77876	6	15.380	471646	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Quant Time: Feb 25 17:26:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

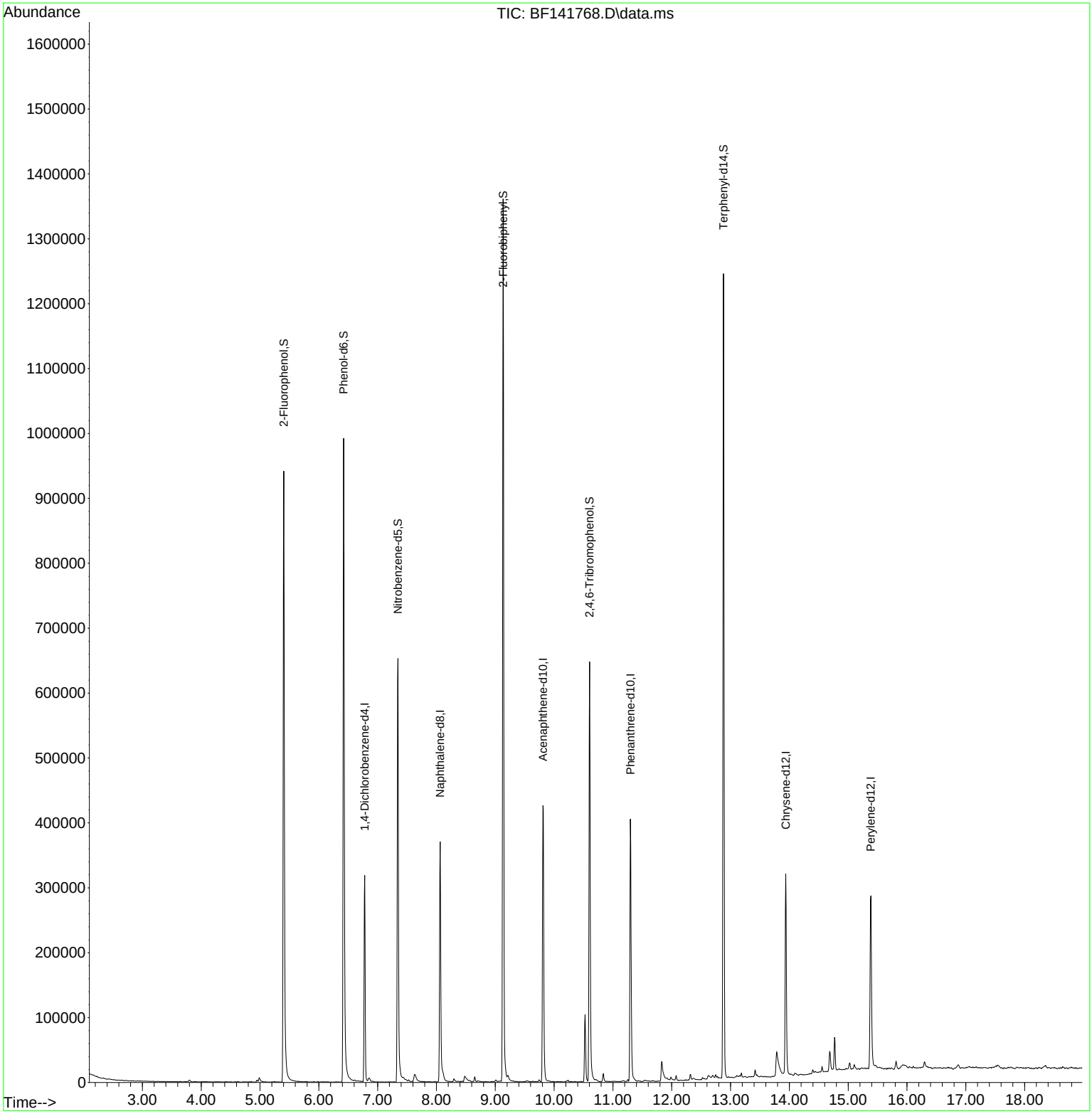
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	68668	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	275032	20.000	ng	-0.01
39) Acenaphthene-d10	9.810	164	146934	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	243302	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	170277	20.000	ng	-0.02
86) Perylene-d12	15.386	264	176972	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	401011	91.554	ng	0.00
7) Phenol-d6	6.422	99	499893	90.298	ng	-0.02
23) Nitrobenzene-d5	7.345	82	326302	61.881	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	117690	79.735	ng	-0.02
45) 2-Fluorobiphenyl	9.133	172	624642	65.495	ng	-0.02
79) Terphenyl-d14	12.880	244	613407	60.815	ng	-0.02
Target Compounds						Qvalue

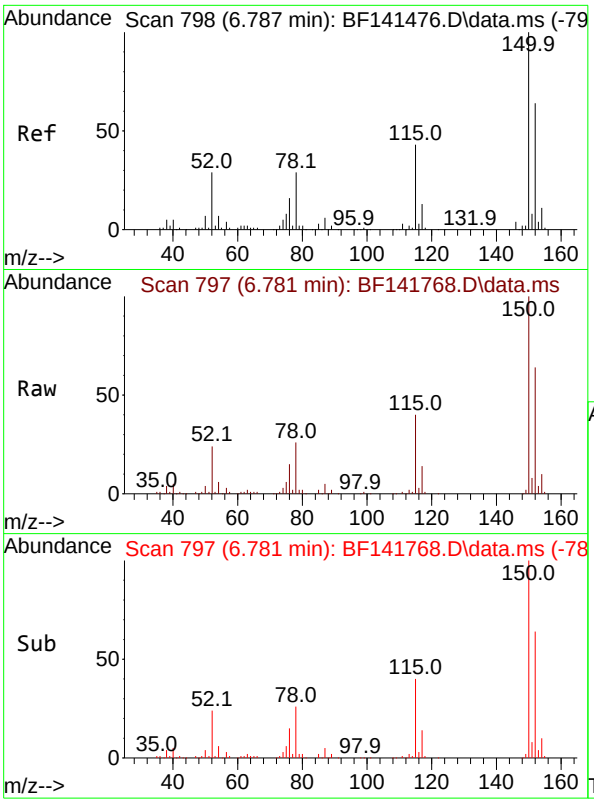
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Quant Time: Feb 25 17:26:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



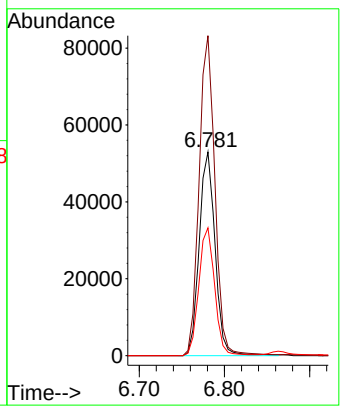


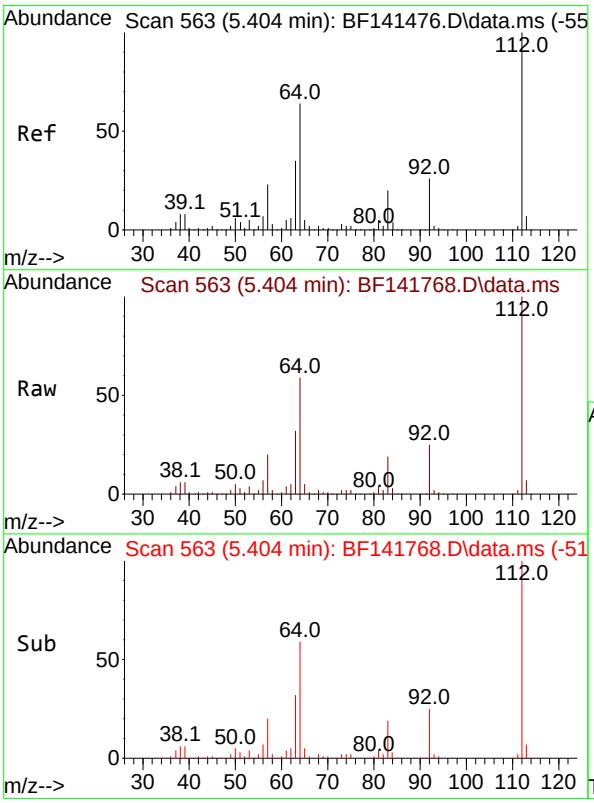
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Tgt Ion:152 Resp: 68668

Ion	Ratio	Lower	Upper
152	100		
150	157.1	125.0	187.4
115	62.8	53.6	80.4

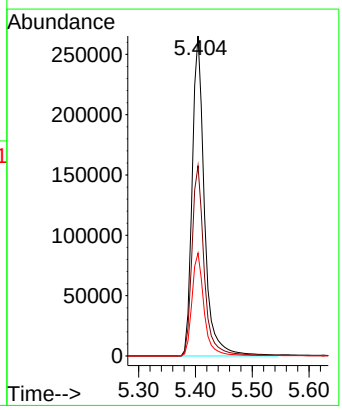


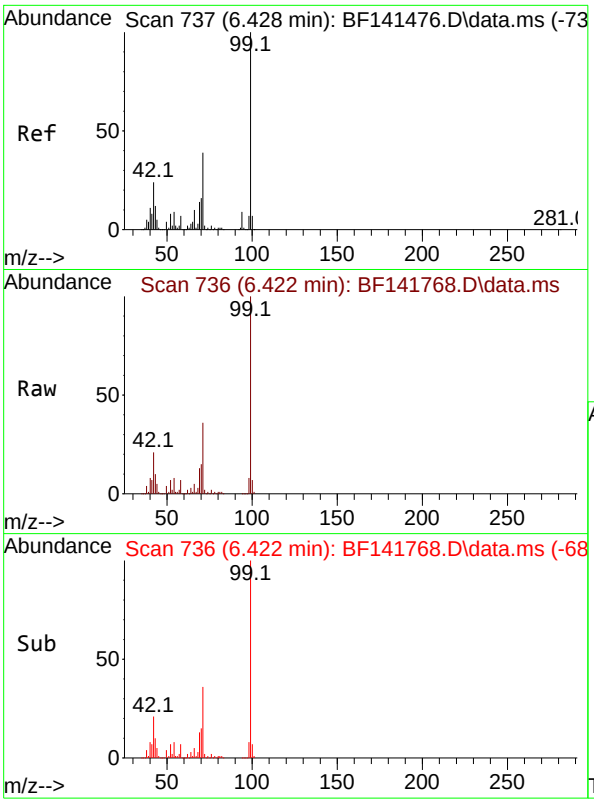


#5
2-Fluorophenol
Concen: 91.554 ng
RT: 5.404 min Scan# 563
Delta R.T. -0.006 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Tgt Ion:112 Resp: 401011

Ion	Ratio	Lower	Upper
112	100		
64	59.4	51.1	76.7
63	32.2	28.4	42.6



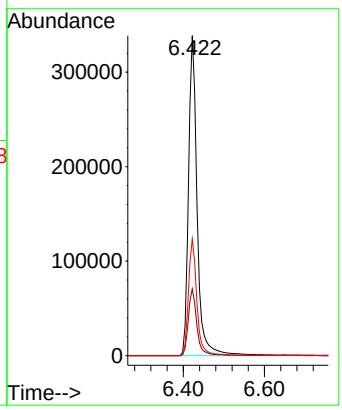


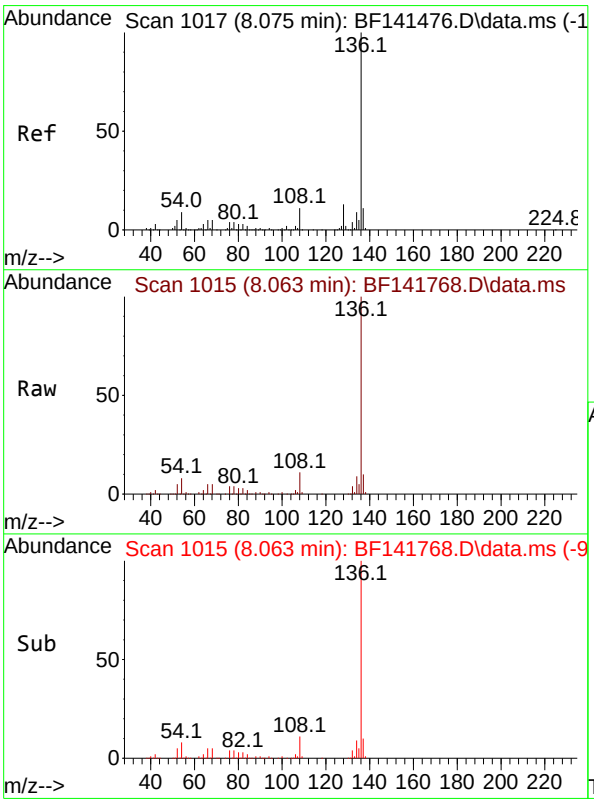
#7
Phenol-d6
Concen: 90.298 ng
RT: 6.422 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Tgt Ion: 99 Resp: 499893

Ion	Ratio	Lower	Upper
99	100		
42	20.9	19.1	28.7
71	36.5	31.1	46.7

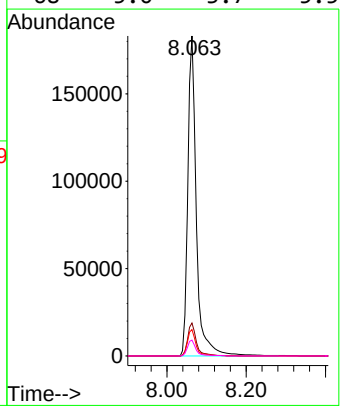


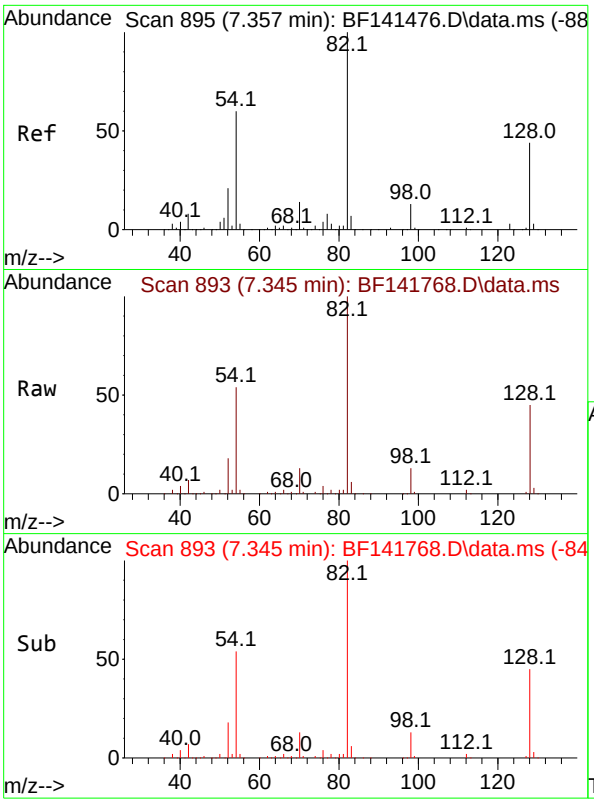


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Tgt Ion:136 Resp: 275032

Ion	Ratio	Lower	Upper
136	100		
137	10.3	8.6	13.0
54	8.2	7.2	10.8
68	5.0	3.7	5.5



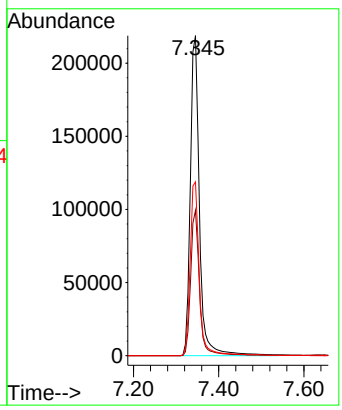


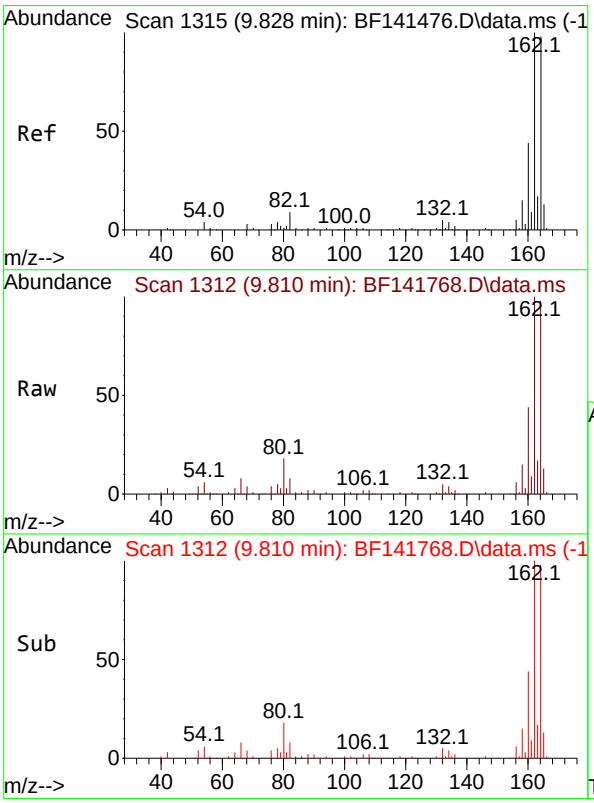
#23
Nitrobenzene-d5
Concen: 61.881 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Tgt Ion: 82 Resp: 326302

Ion	Ratio	Lower	Upper
82	100		
128	45.4	34.8	52.2
54	54.3	48.2	72.4

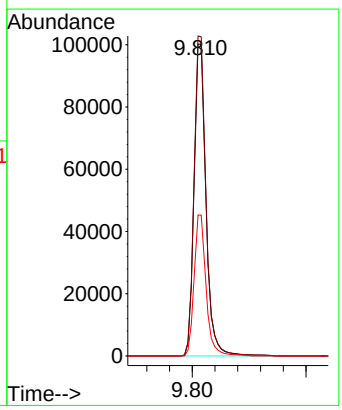


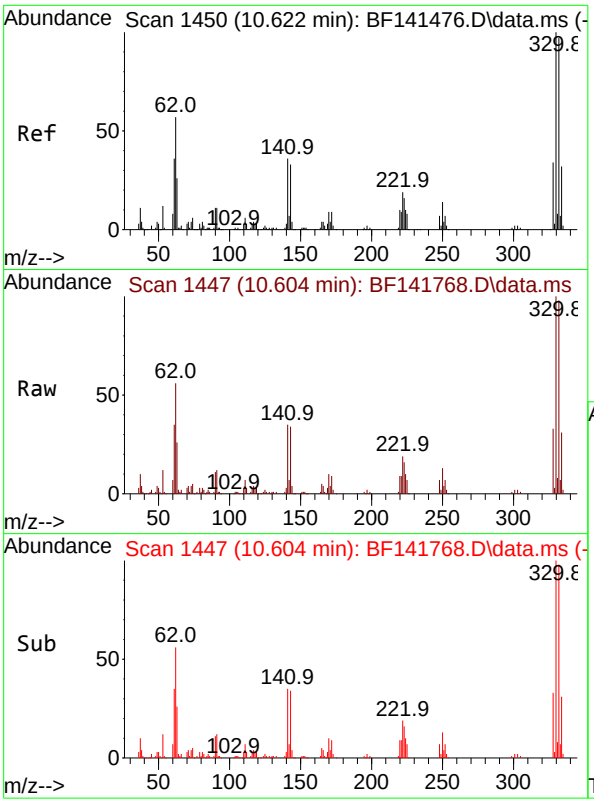


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.810 min Scan# 1312
Delta R.T. -0.023 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Tgt Ion:164 Resp: 146934

Ion	Ratio	Lower	Upper
164	100		
162	102.6	81.3	121.9
160	45.2	35.9	53.9



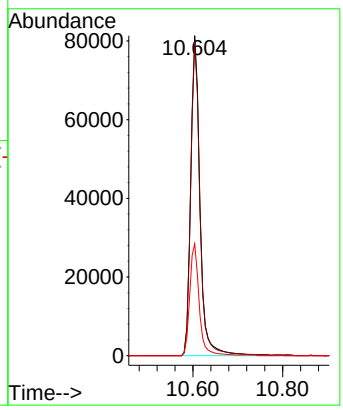


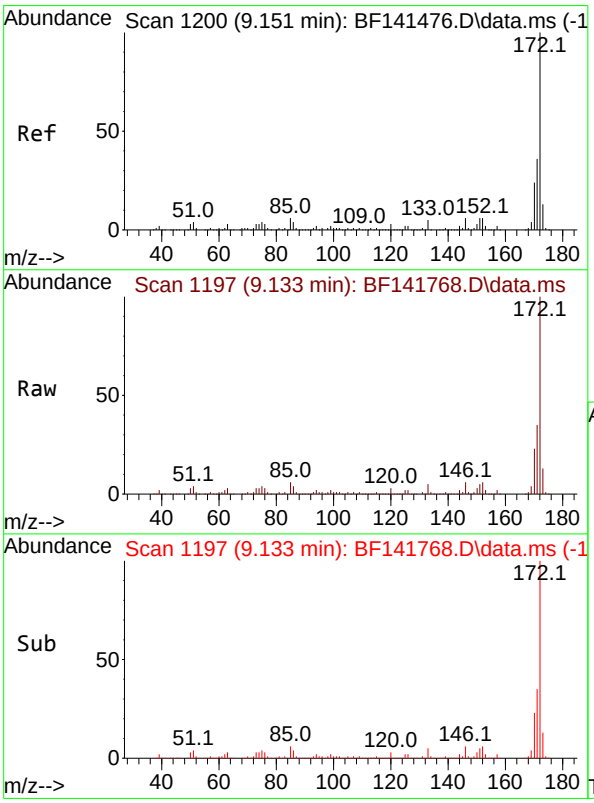
#42
2,4,6-Tribromophenol
Concen: 79.735 ng
RT: 10.604 min Scan# 14
Delta R.T. -0.023 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Tgt Ion:330 Resp: 117690

Ion	Ratio	Lower	Upper
330	100		
332	97.1	78.5	117.7
141	35.2	31.0	46.4

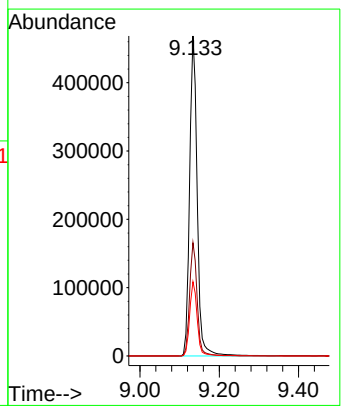


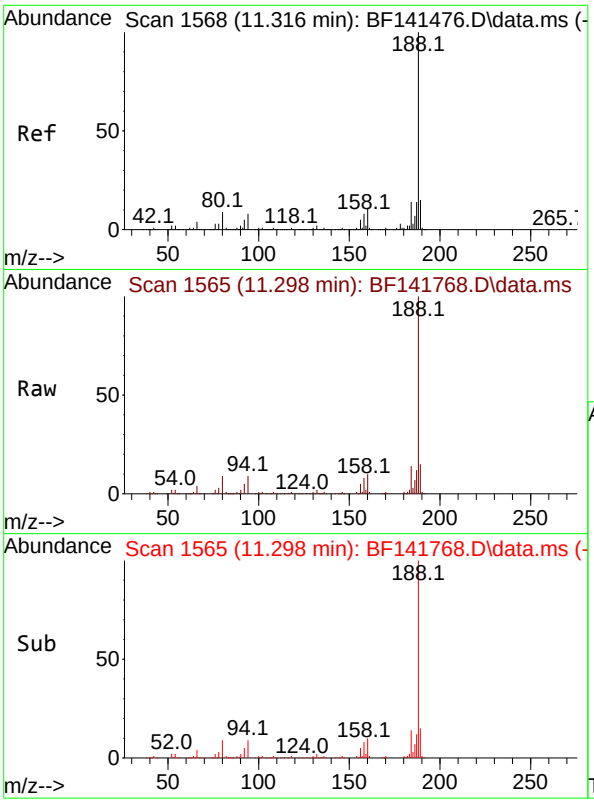


#45
2-Fluorobiphenyl
Concen: 65.495 ng
RT: 9.133 min Scan# 1197
Delta R.T. -0.018 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Tgt Ion:172 Resp: 624642

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.7	43.1
170	23.2	18.9	28.3



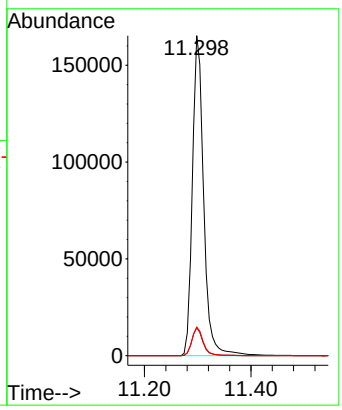


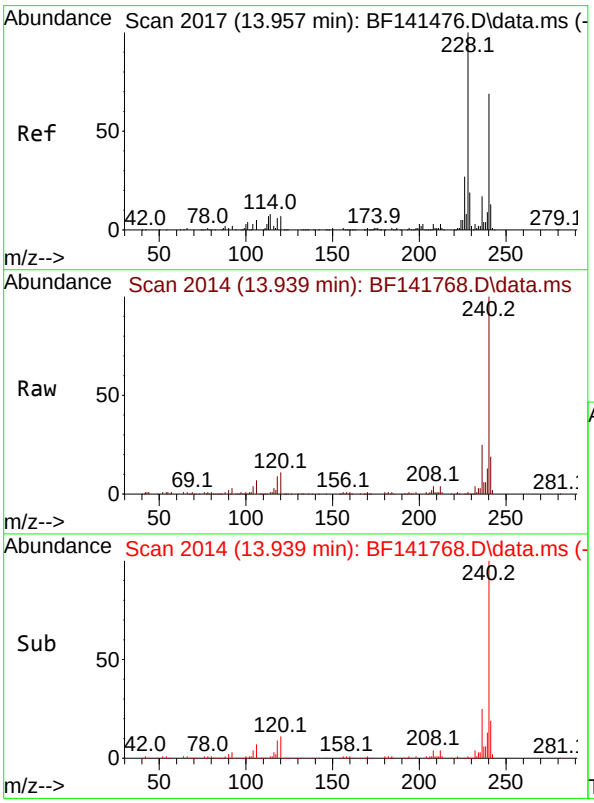
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Tgt Ion:188 Resp: 243302

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.6	10.0
80	8.9	7.3	10.9

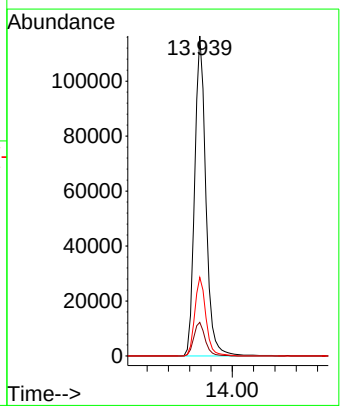


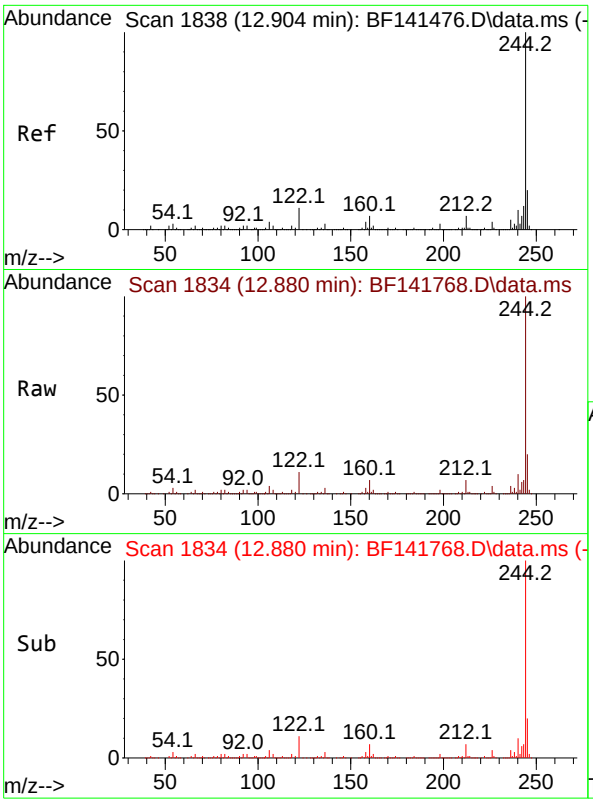


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Tgt Ion:240 Resp: 170277

Ion	Ratio	Lower	Upper
240	100		
120	10.5	8.0	12.0
236	24.6	19.8	29.8



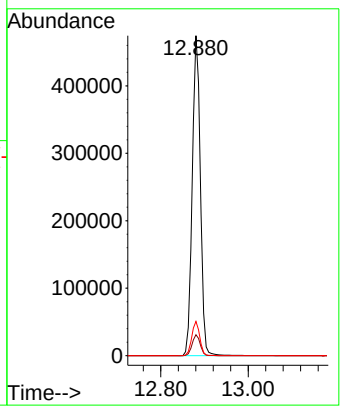


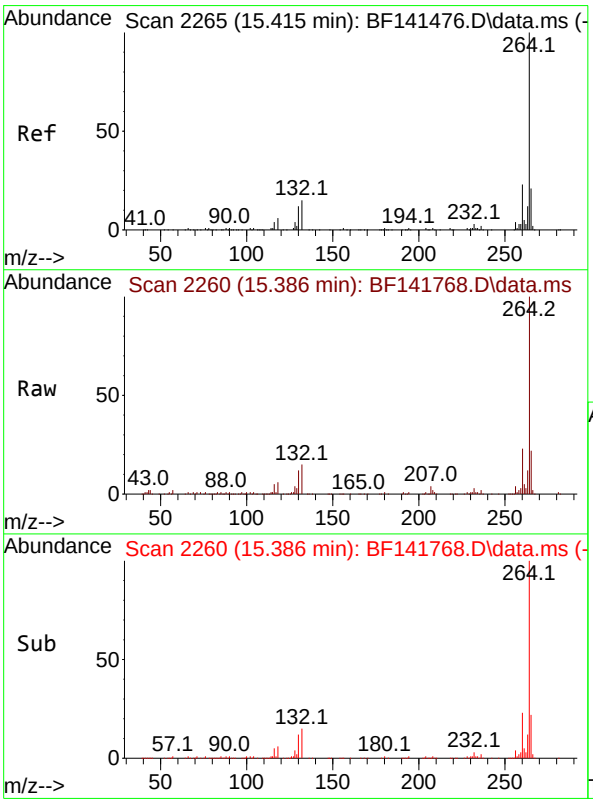
#79
Terphenyl-d14
Concen: 60.815 ng
RT: 12.880 min Scan# 1
Delta R.T. -0.023 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Tgt Ion:244 Resp: 613407

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.6	8.4
122	10.7	8.4	12.6

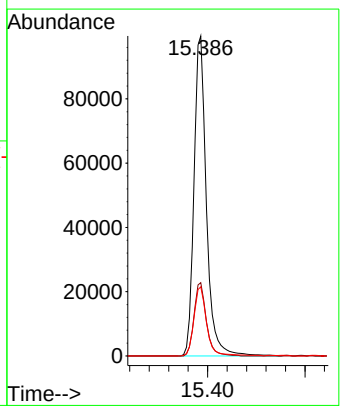




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Tgt Ion:264 Resp: 176972

Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.6	28.0
265	21.6	17.0	25.4



Sample Results: **BF141768.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141768.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.404	557	563	598	rBV	941337	1427427	80.63%	12.145%
2	6.422	731	736	764	rBV	991750	1471761	83.13%	12.523%
3	6.781	792	797	805	rBV	317735	405837	22.92%	3.453%
4	7.345	887	893	906	rBV	652805	946717	53.47%	8.055%
5	7.634	936	942	953	rBV3	11059	31933	1.80%	0.272%
6	8.063	1009	1015	1033	rBV	369801	550525	31.10%	4.684%
7	8.481	1082	1086	1098	rBV3	8399	24800	1.40%	0.211%
8	9.133	1192	1197	1208	rBV	1359640	1770410	100.00%	15.064%
9	9.810	1307	1312	1329	rBV	425601	617243	34.86%	5.252%
10	10.527	1429	1434	1442	rBV	103388	140017	7.91%	1.191%
11	10.604	1442	1447	1462	rVV	645977	917780	51.84%	7.809%
12	11.298	1560	1565	1580	rBV	403529	583845	32.98%	4.968%
13	11.827	1650	1655	1668	rBV3	30194	76759	4.34%	0.653%
14	12.880	1828	1834	1845	rBV	1239544	1593138	89.99%	13.555%
15	13.786	1982	1988	2007	rBV2	36371	125611	7.10%	1.069%
16	13.939	2009	2014	2024	rVB	309103	446567	25.22%	3.800%
17	14.686	2136	2141	2149	rBV2	30298	56704	3.20%	0.482%
18	14.768	2151	2155	2161	rVB	50506	68914	3.89%	0.586%
19	15.386	2253	2260	2272	rBV	266770	478589	27.03%	4.072%
20	15.815	2329	2333	2340	rVB3	11567	18335	1.04%	0.156%

Sum of corrected areas: 11752912

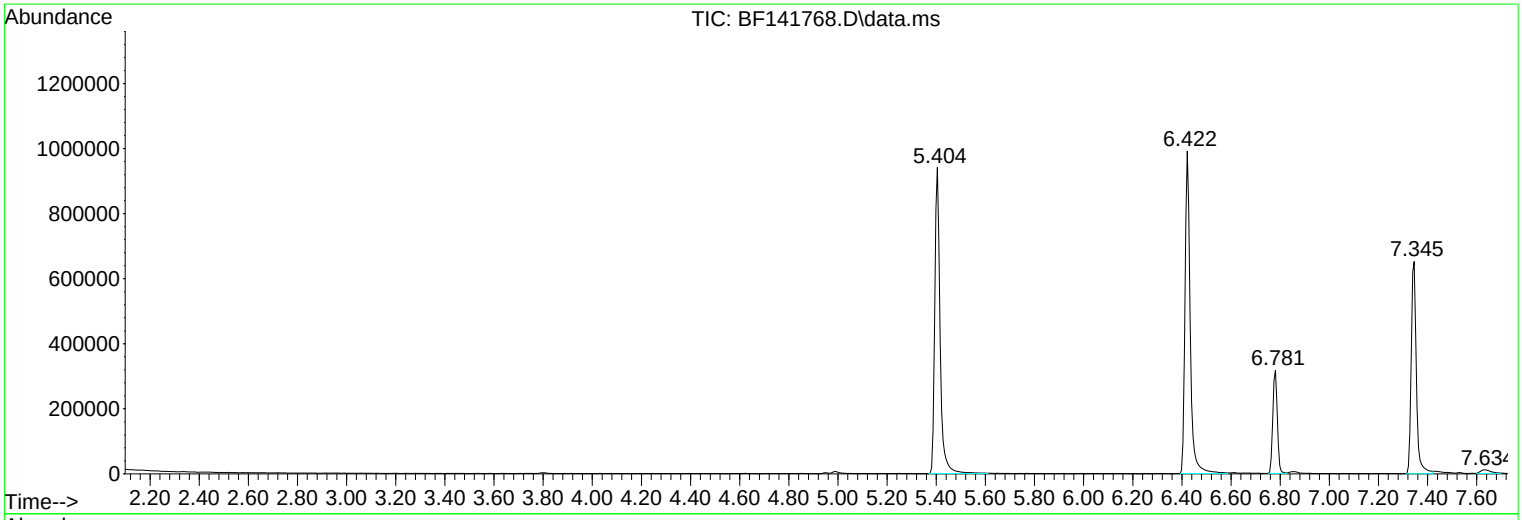
Sample Results: **BF141768.D**

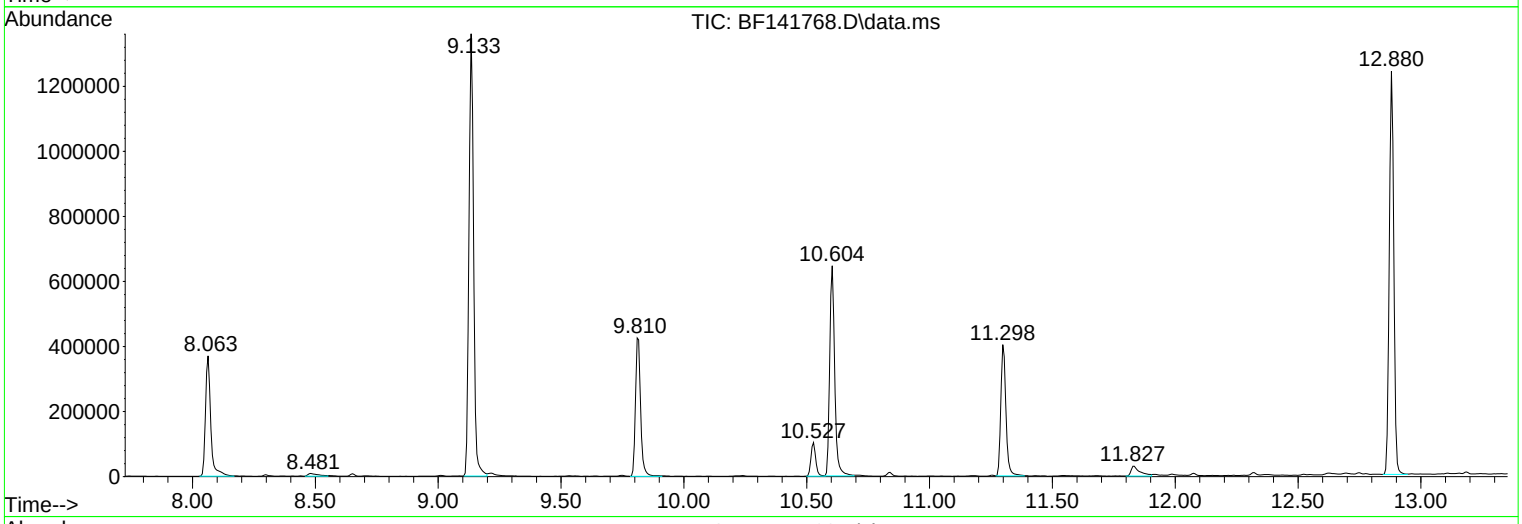
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

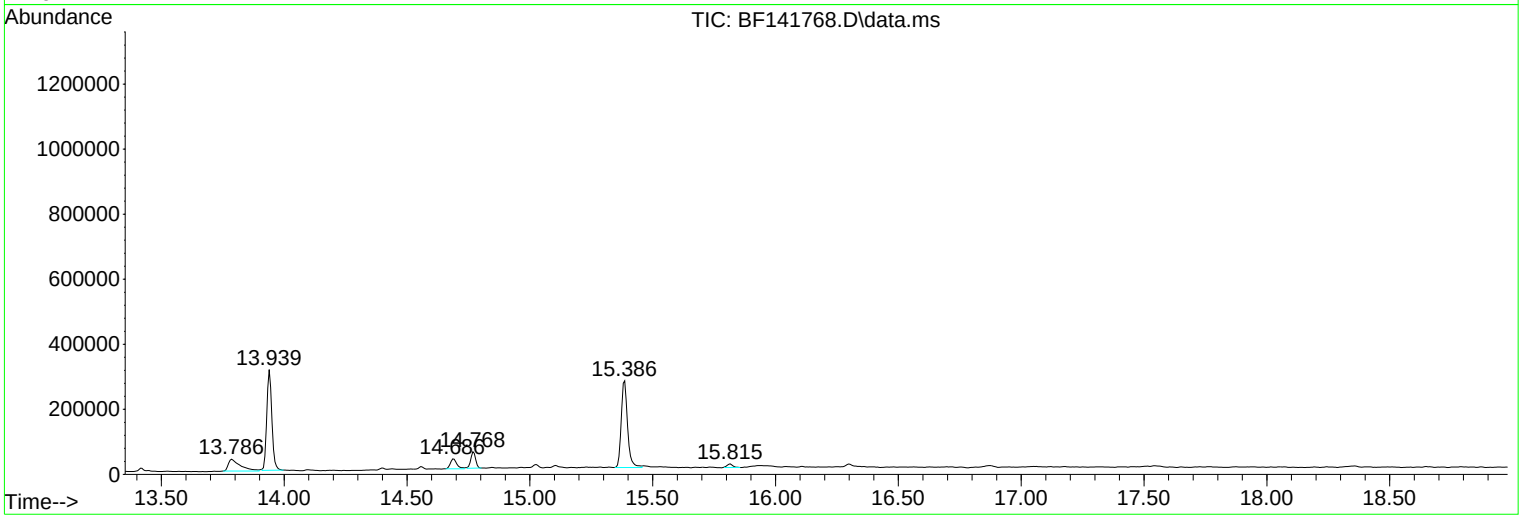
Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Sample Results: **BF141768.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

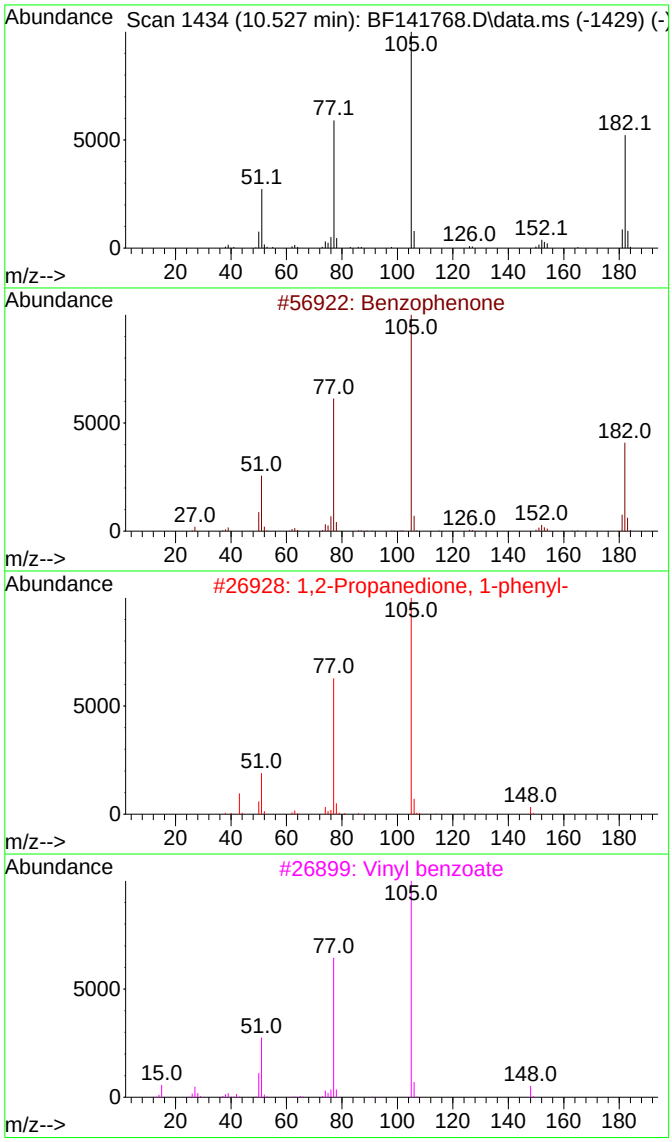
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

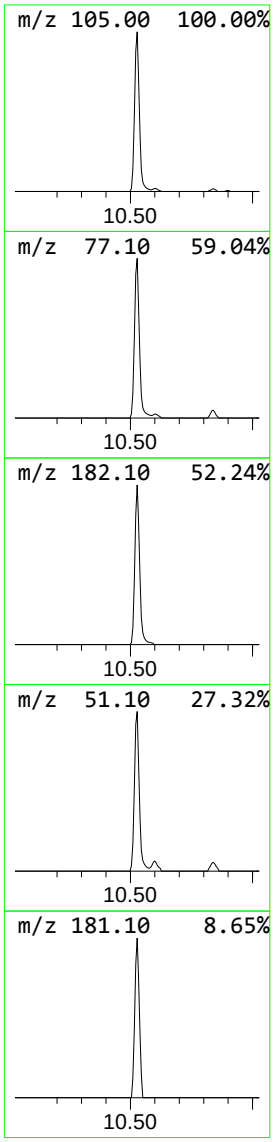
****

Peak Number 1 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.528	4.54 ng	140017	Acenaphthene-d10	9.810

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	97
2	1,2-Propanedione, 1-phenyl-	148	C9H8O2	000579-07-7	47
3	Vinyl benzoate	148	C9H8O2	000769-78-8	47
4	2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	47
5	Ethanone, 2-bromo-1-phenyl-	198	C8H7BrO	000070-11-1	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

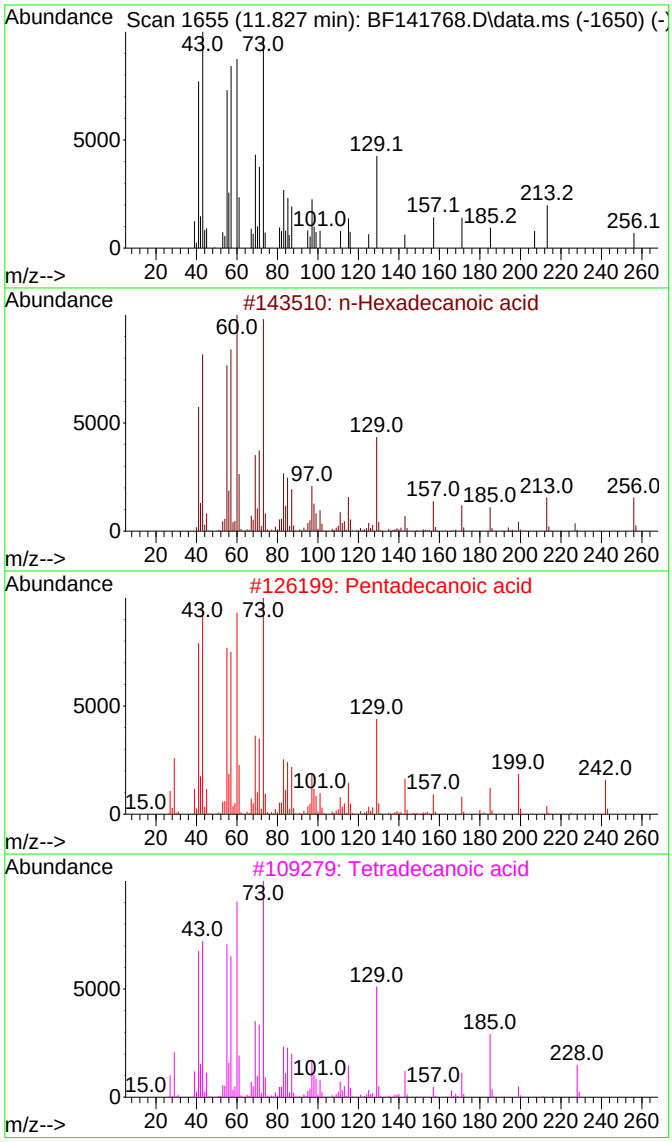
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

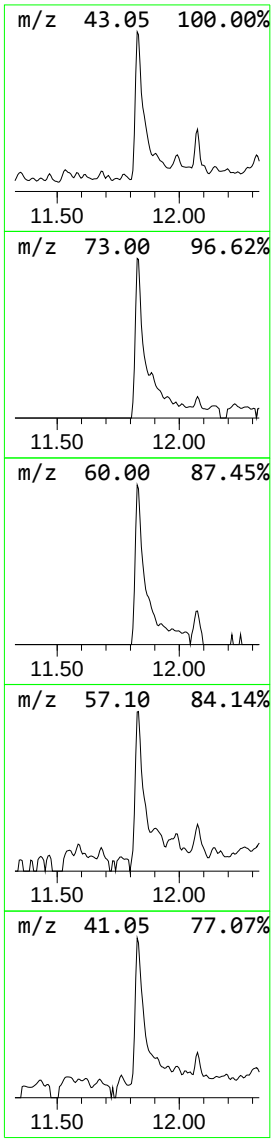
****

Peak Number 2 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.827	2.63 ng	76759	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	90
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	87
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	80
4	Tridecanoic acid	214	C13H26O2	000638-53-9	64
5	n-Decanoic acid	172	C10H20O2	000334-48-5	53





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

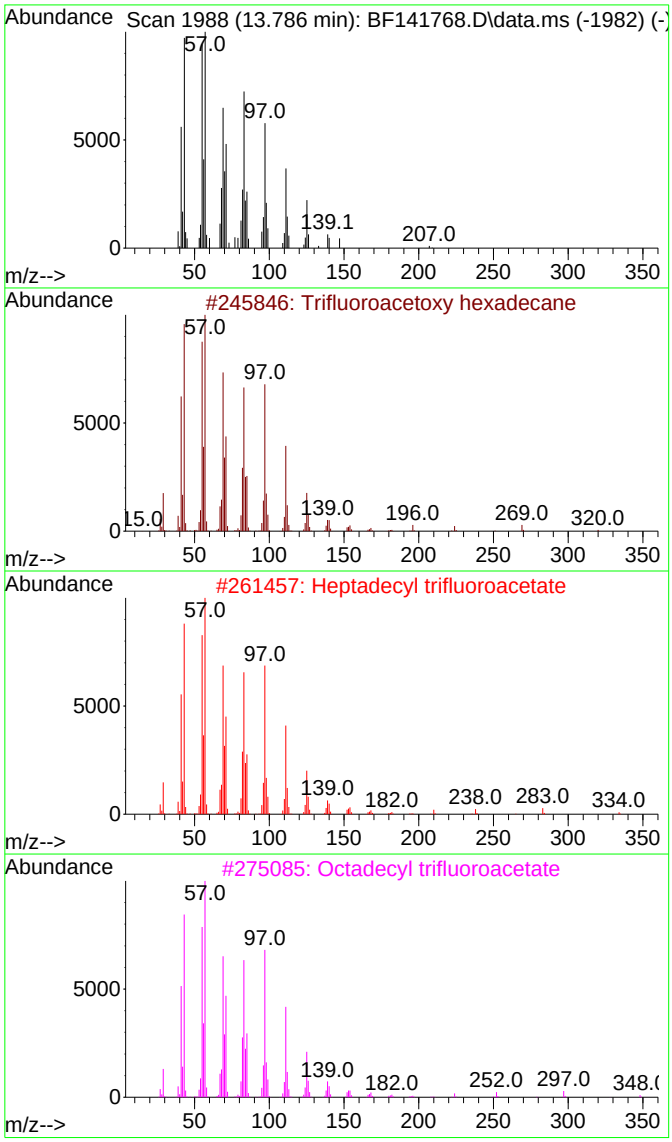
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

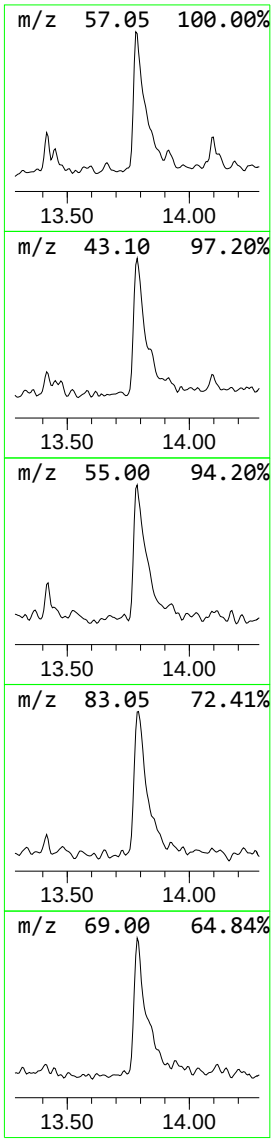
****

Peak Number 3 Trifluoroacetoxy hexadecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.786	5.63 ng	125611	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	95
2	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	94
3	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	94
4	Heptafluorobutyric acid, n-tetra...	410	C18H29F7O2	007365-36-8	91
5	Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

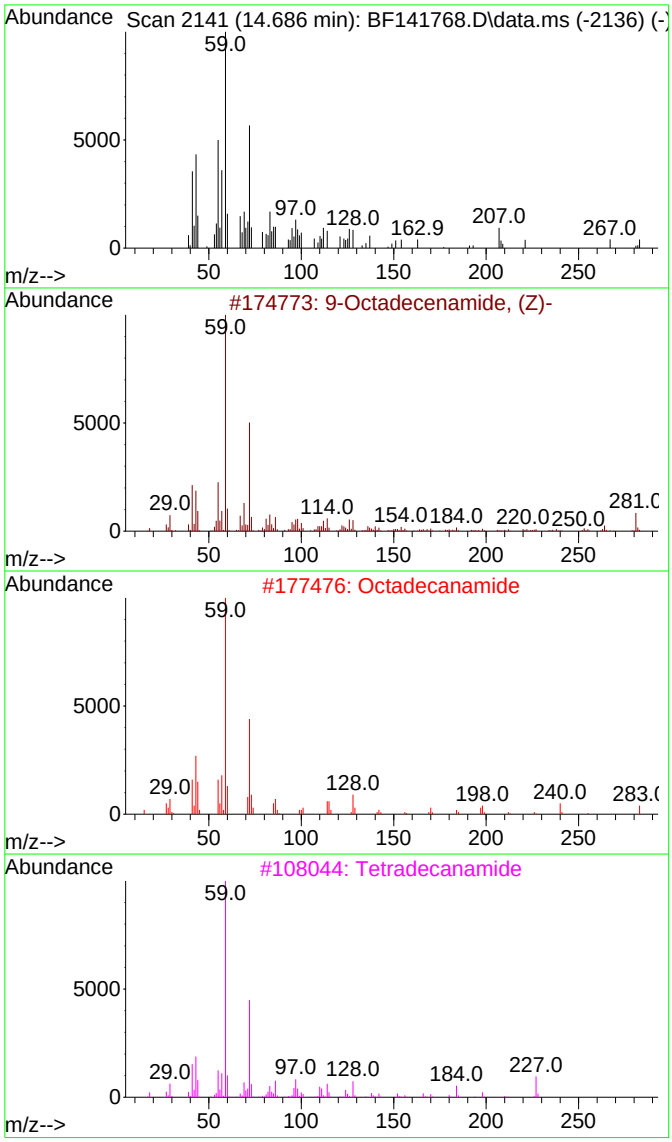
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

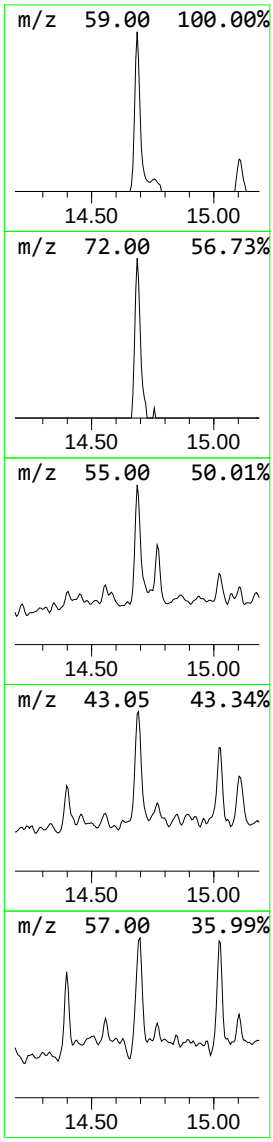
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.686	2.37 ng	56704	Perylene-d12	15.386

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	87
2	Octadecanamide	283	C18H37NO	000124-26-5	76
3	Tetradecanamide	227	C14H29NO	000638-58-4	64
4	Dodecanamide	199	C12H25NO	001120-16-7	53
5	Hexadecanamide	255	C16H33NO	000629-54-9	53





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

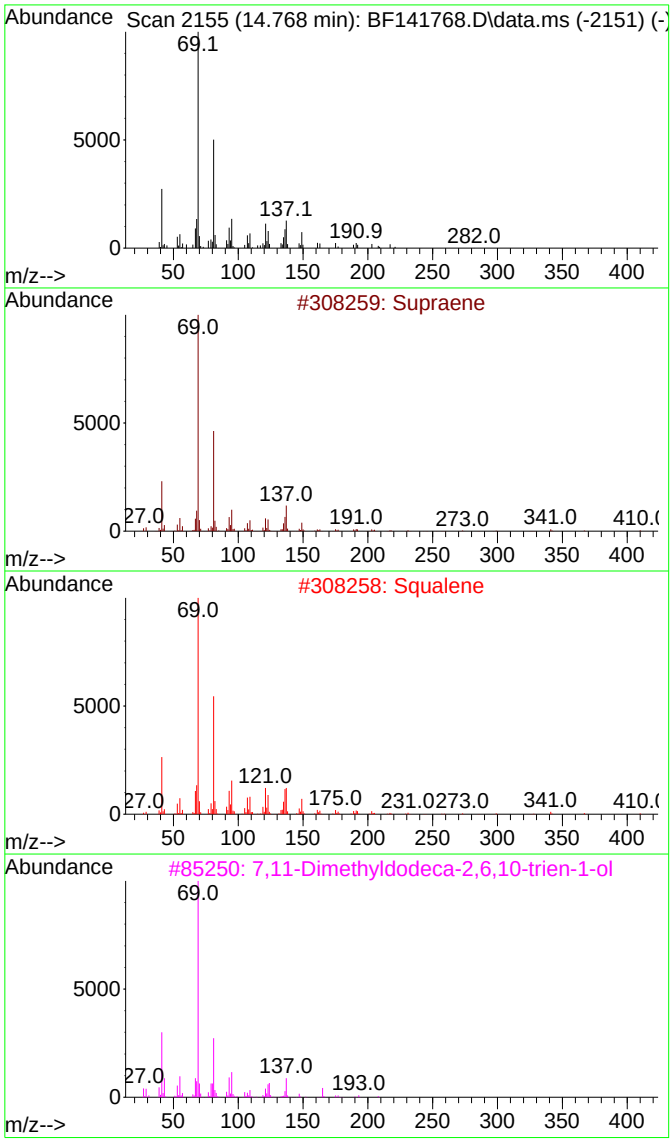
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

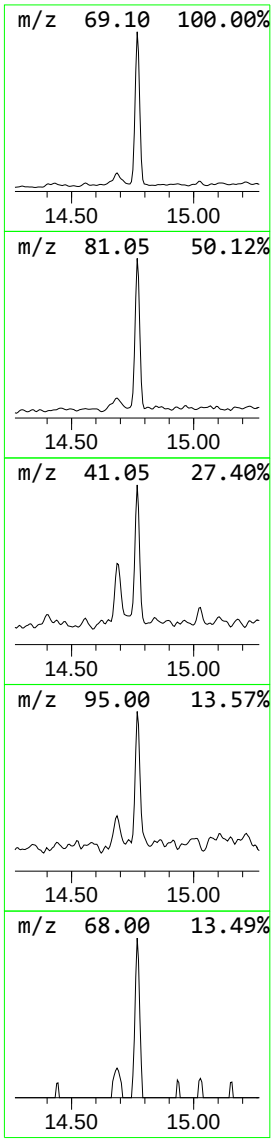
****

Peak Number 5 Supraene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.768	2.88 ng	68914	Perylene-d12	15.386

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Supraene	410	C30H50	007683-64-9	91
2	Squalene	410	C30H50	000111-02-4	91
3	7,11-Dimethyldodeca-2,6,10-trien...	208	C14H24O	125529-10-4	83
4	1,5,9-Undecatriene, 2,6,10-trime...	192	C14H24	062951-96-6	80
5	4,8,12-Tetradecatrienal, 5,9,13-...	248	C17H28O	066408-55-7	72





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.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
Benzophenone	10.528	4.5	ng	140017	3	9.810	617243	20.0
n-Hexadecanoic ...	11.827	2.6	ng	76759	4	11.298	583845	20.0
Trifluoroacetox...	13.786	5.6	ng	125611	5	13.939	446567	20.0
9-Octadecenamid...	14.686	2.4	ng	56704	6	15.386	478589	20.0
Supraene	14.768	2.9	ng	68914	6	15.386	478589	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Quant Time: Feb 25 16:56:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

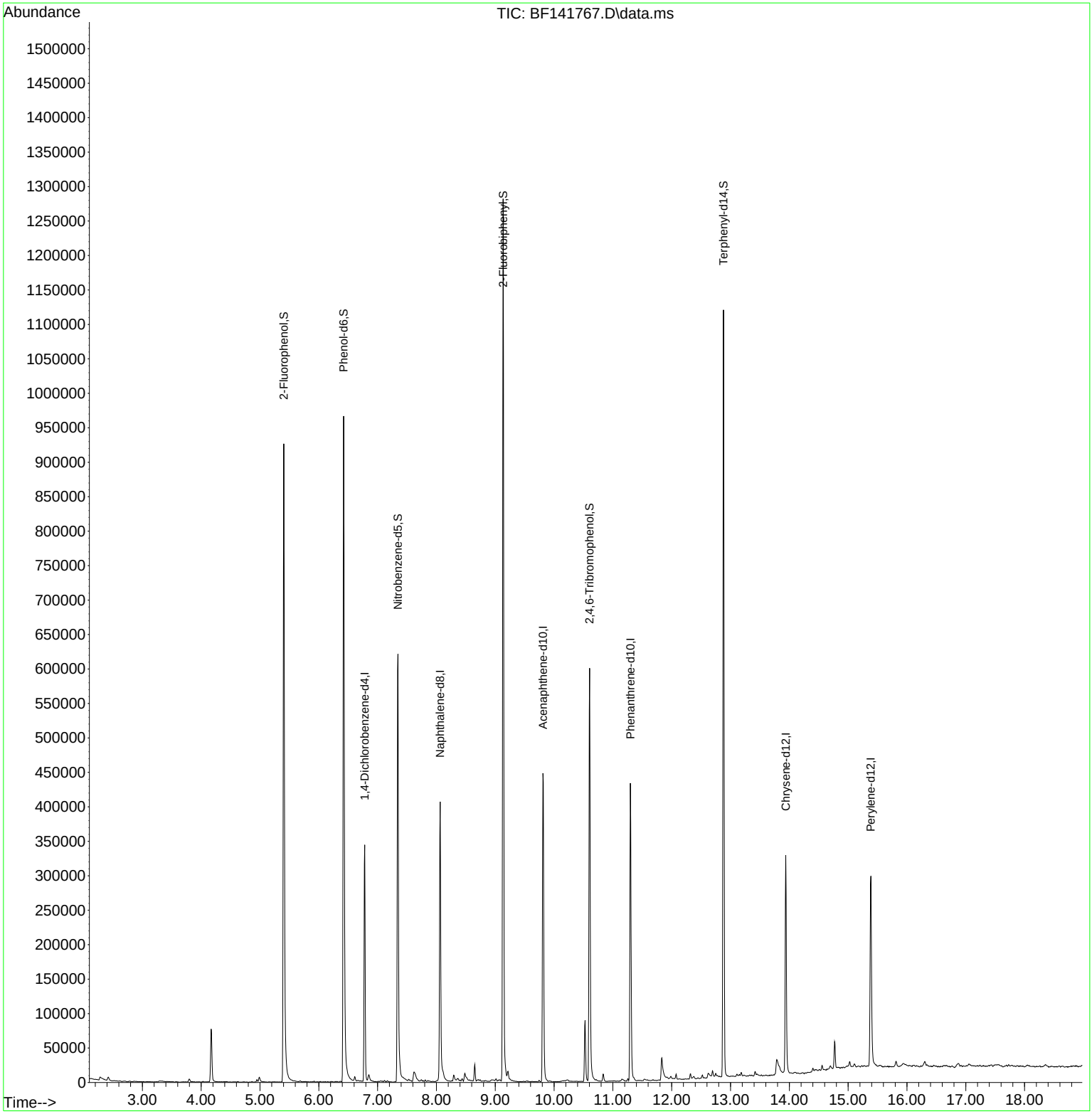
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	74409	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	292573	20.000	ng	-0.01
39) Acenaphthene-d10	9.810	164	153922	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	248859	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	169140	20.000	ng	-0.02
86) Perylene-d12	15.386	264	184984	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	396859	83.615	ng	0.00
7) Phenol-d6	6.422	99	488768	81.477	ng	-0.02
23) Nitrobenzene-d5	7.345	82	304374	54.262	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	111523	72.126	ng	-0.02
45) 2-Fluorobiphenyl	9.134	172	592893	59.344	ng	-0.02
79) Terphenyl-d14	12.880	244	548636	54.759	ng	-0.02
Target Compounds						Qvalue

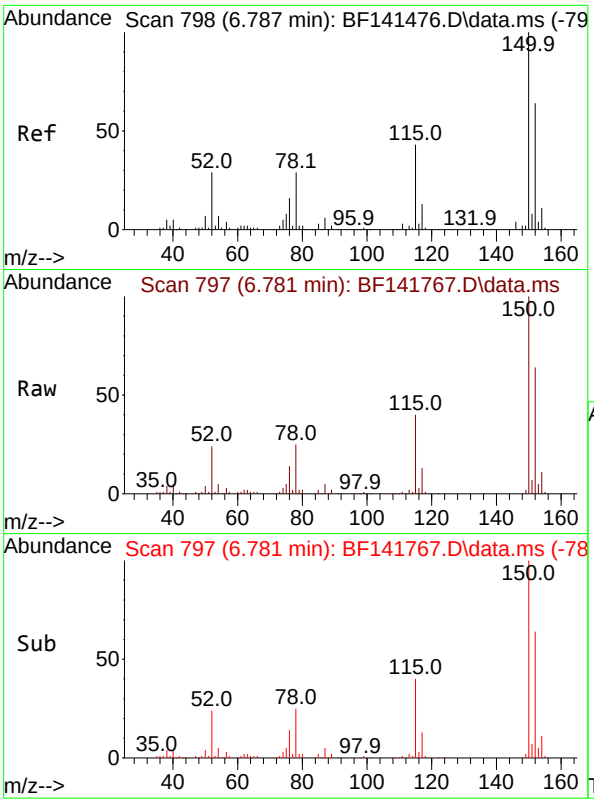
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Quant Time: Feb 25 16:56:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



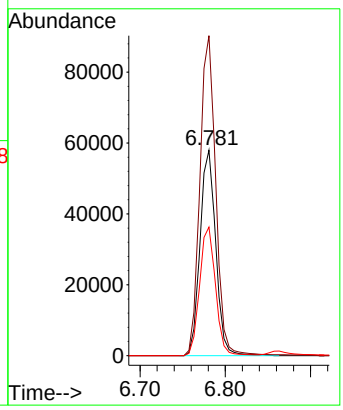


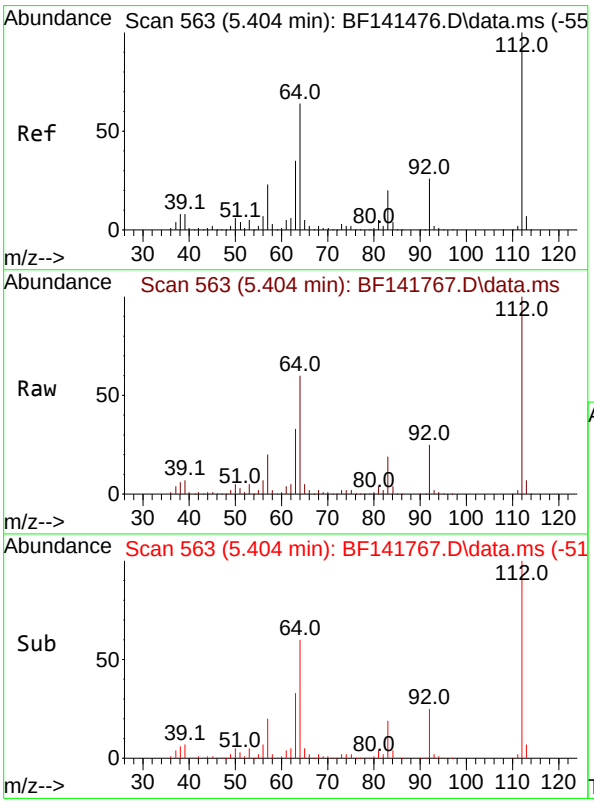
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Tgt Ion:152 Resp: 74409

Ion	Ratio	Lower	Upper
152	100		
150	155.8	125.0	187.4
115	62.7	53.6	80.4

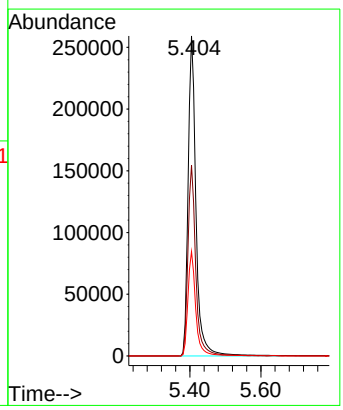


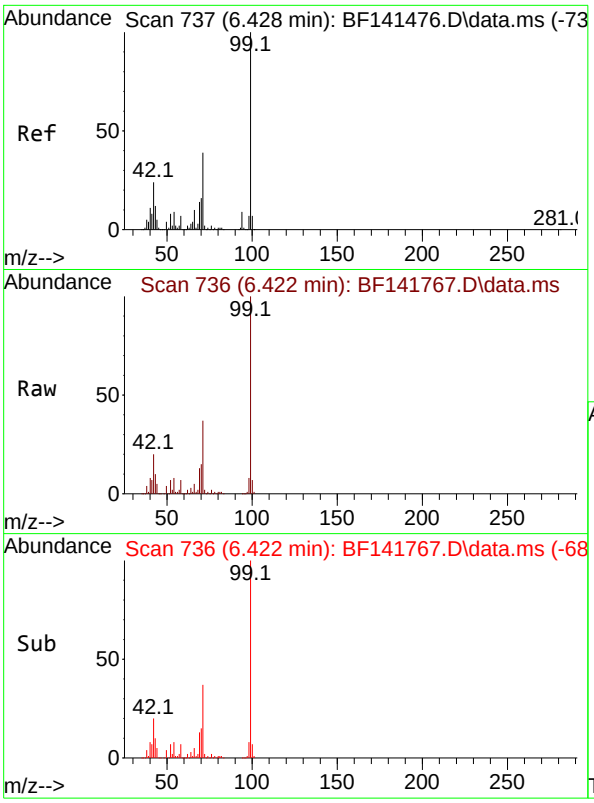


#5
2-Fluorophenol
Concen: 83.615 ng
RT: 5.404 min Scan# 563
Delta R.T. -0.006 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Tgt Ion:112 Resp: 396859

Ion	Ratio	Lower	Upper
112	100		
64	59.7	51.1	76.7
63	32.6	28.4	42.6



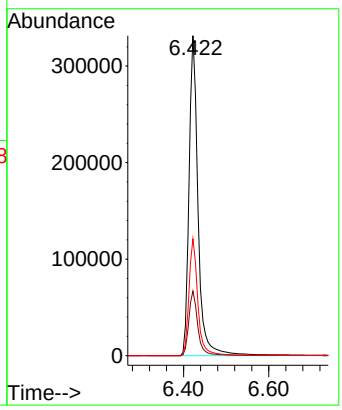


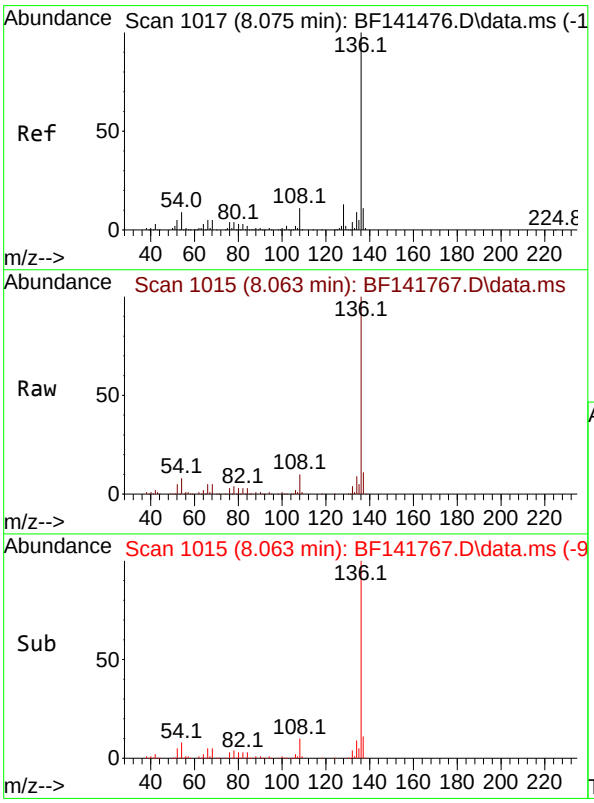
#7
Phenol-d6
Concen: 81.477 ng
RT: 6.422 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Tgt Ion: 99 Resp: 488768

Ion	Ratio	Lower	Upper
99	100		
42	20.2	19.1	28.7
71	36.5	31.1	46.7

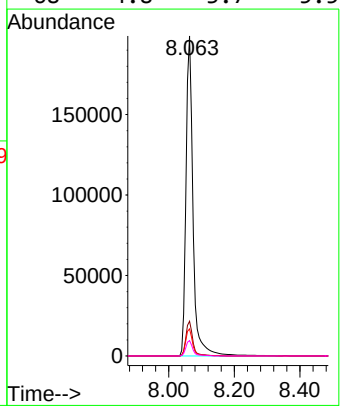


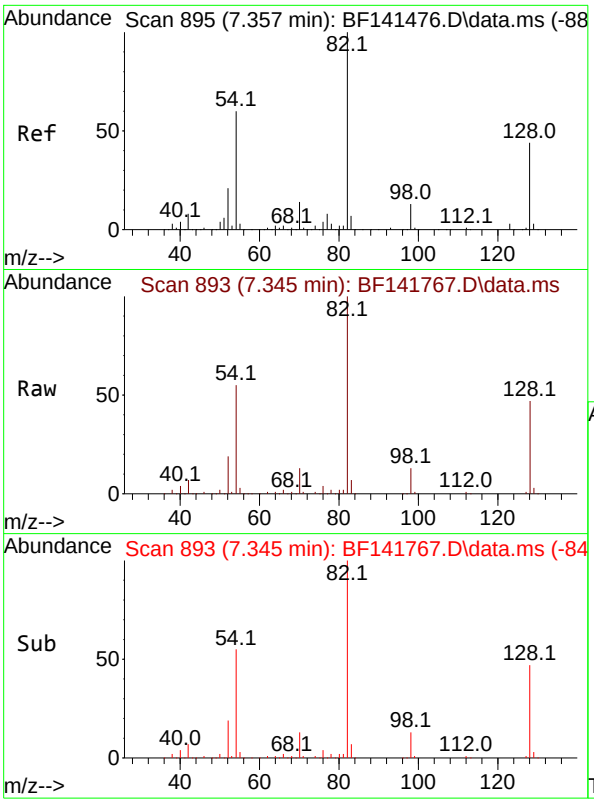


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Tgt Ion:136 Resp: 292573

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.4	7.2	10.8
68	4.8	3.7	5.5



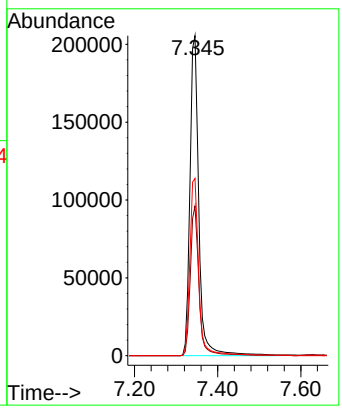


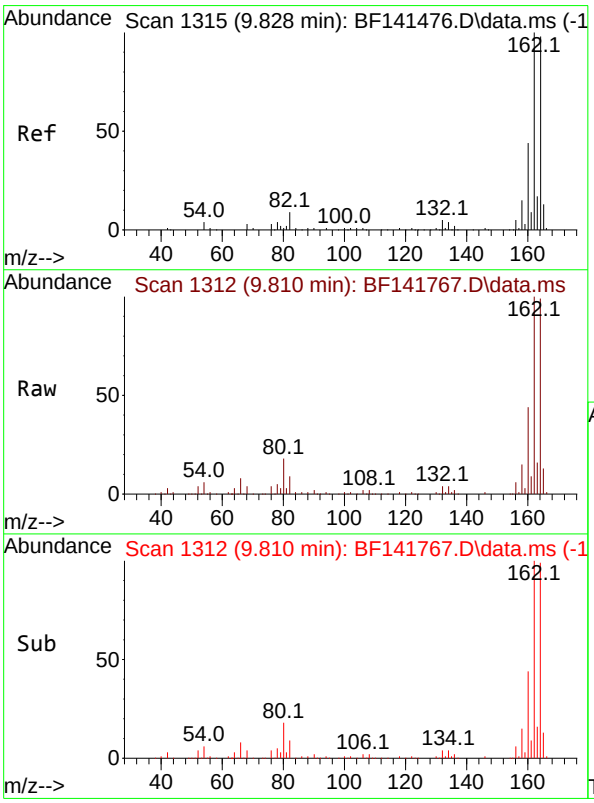
#23
Nitrobenzene-d5
Concen: 54.262 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Tgt Ion: 82 Resp: 304374

Ion	Ratio	Lower	Upper
82	100		
128	46.8	34.8	52.2
54	55.4	48.2	72.4

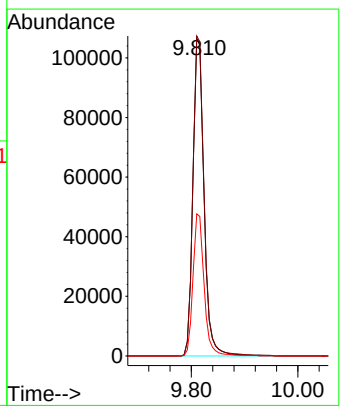


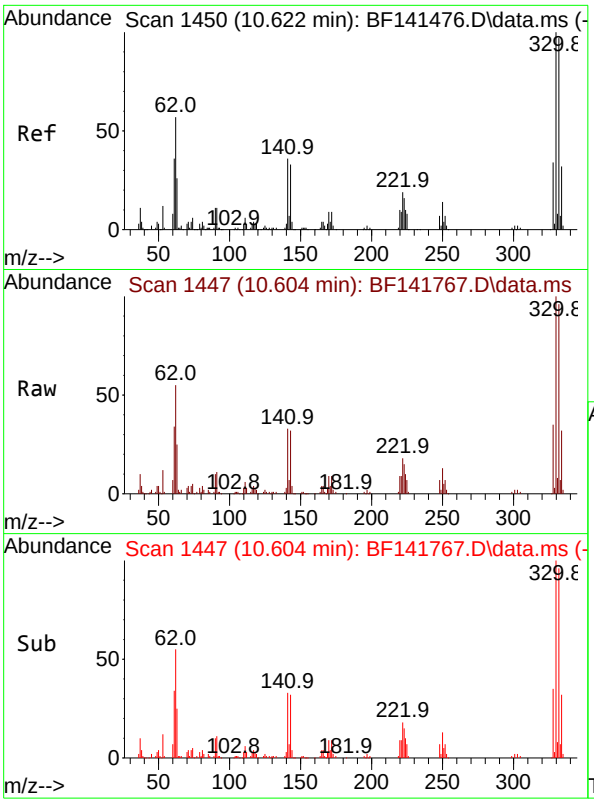


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.810 min Scan# 1312
Delta R.T. -0.023 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Tgt Ion:164 Resp: 153922

Ion	Ratio	Lower	Upper
164	100		
162	100.9	81.3	121.9
160	44.8	35.9	53.9



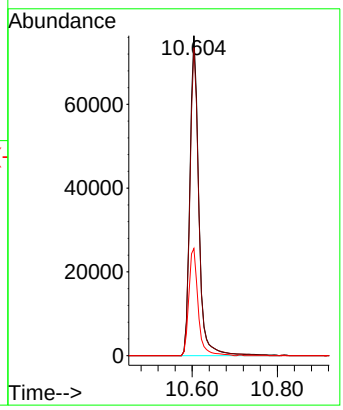


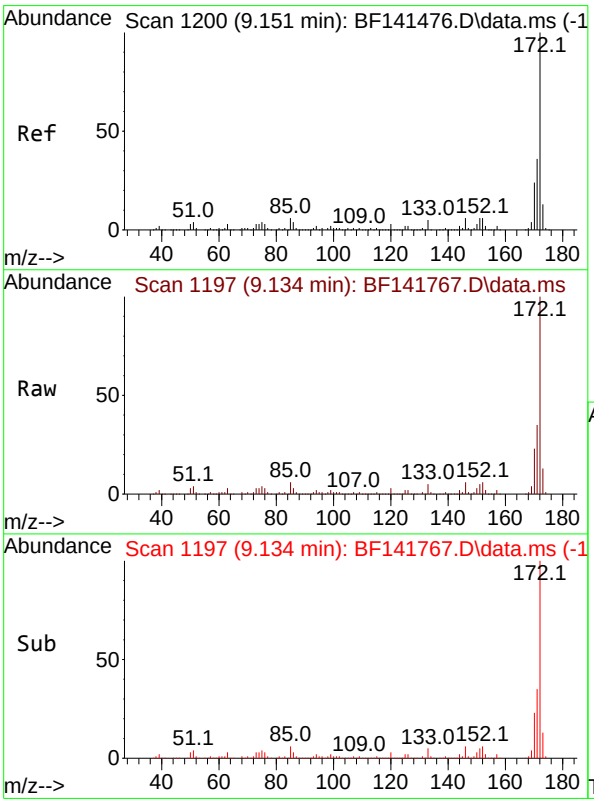
#42
2,4,6-Tribromophenol
Concen: 72.126 ng
RT: 10.604 min Scan# 14
Delta R.T. -0.023 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Tgt Ion:330 Resp: 111523

Ion	Ratio	Lower	Upper
330	100		
332	96.4	78.5	117.7
141	34.7	31.0	46.4

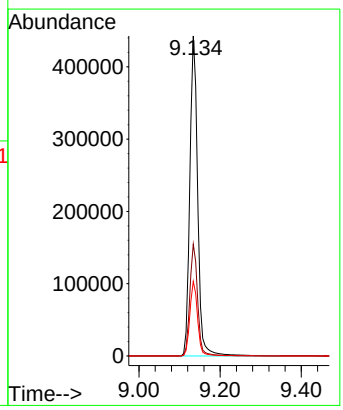


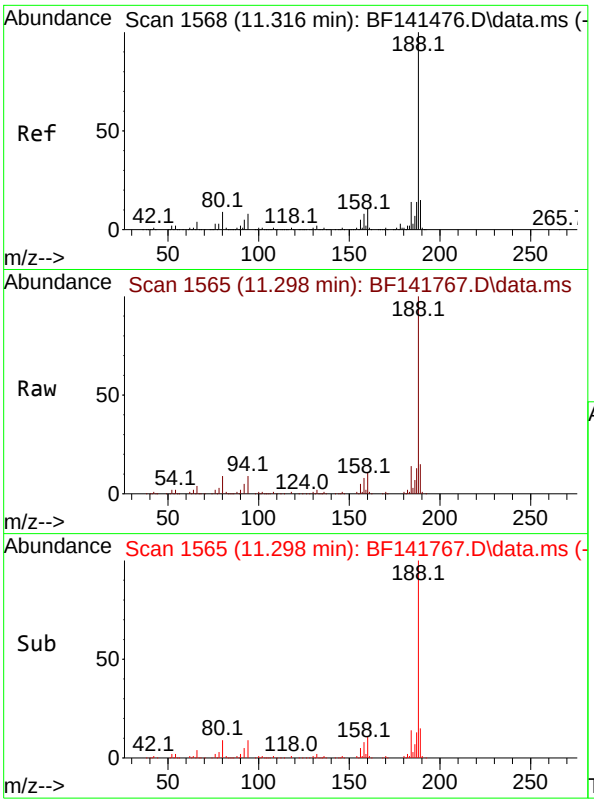


#45
2-Fluorobiphenyl
Concen: 59.344 ng
RT: 9.134 min Scan# 1197
Delta R.T. -0.017 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Tgt Ion:172 Resp: 592893

Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.7	43.1
170	23.3	18.9	28.3



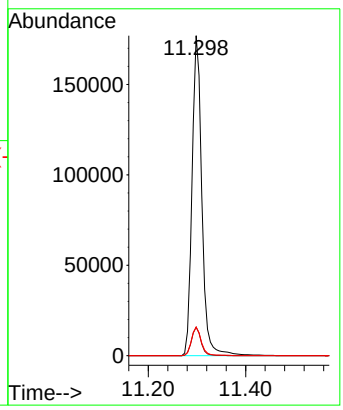


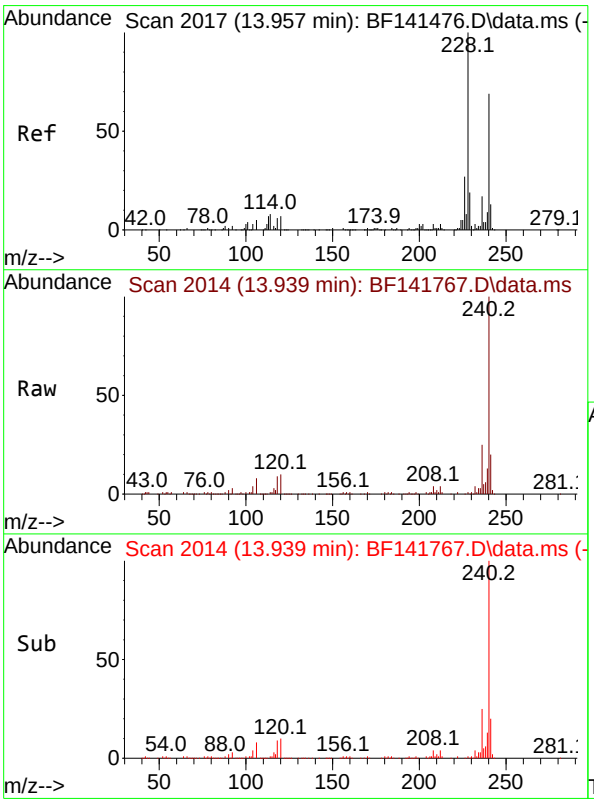
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Tgt Ion:188 Resp: 248859

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	8.9	7.3	10.9

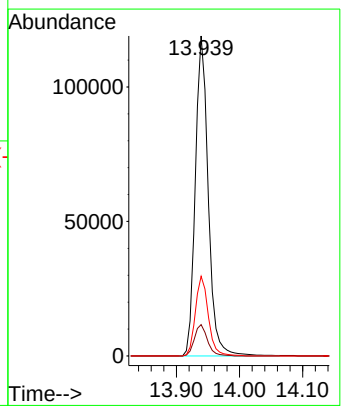


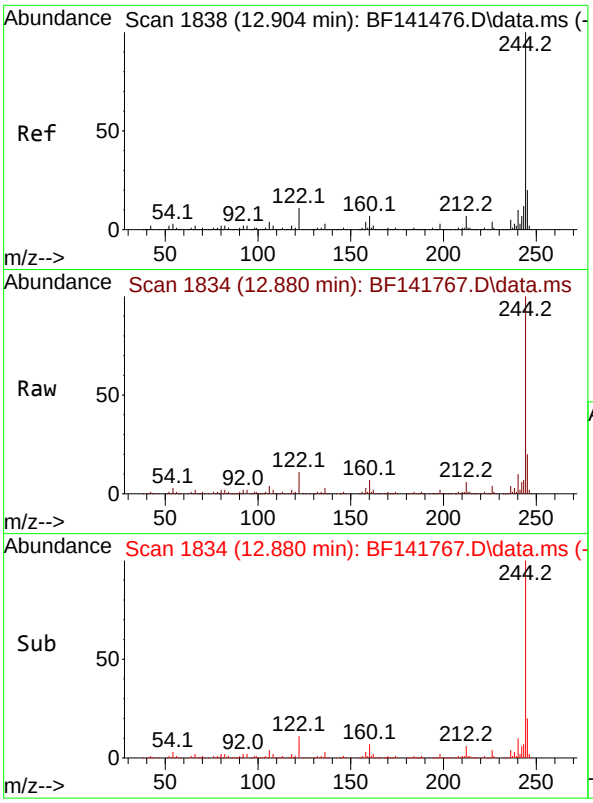


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Tgt Ion:240 Resp: 169140

Ion	Ratio	Lower	Upper
240	100		
120	9.8	8.0	12.0
236	24.9	19.8	29.8



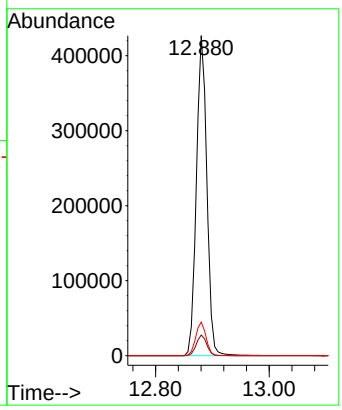


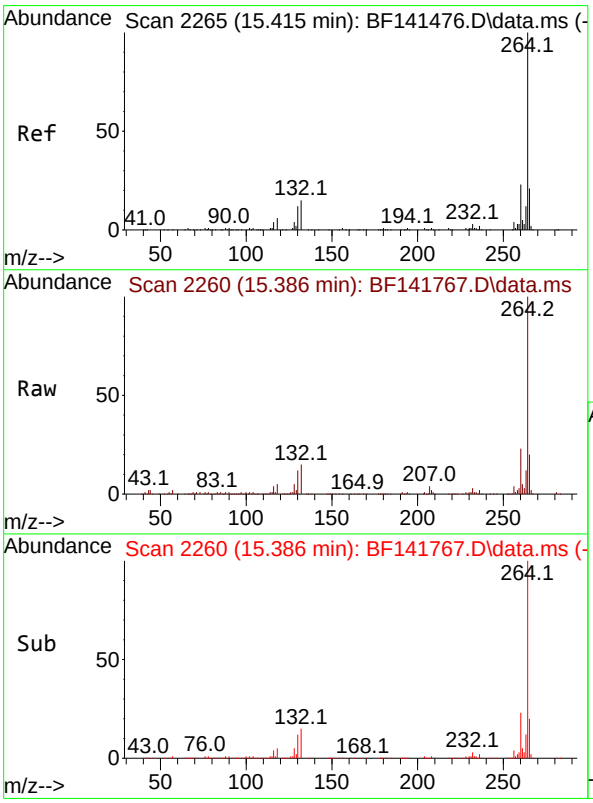
#79
Terphenyl-d14
Concen: 54.759 ng
RT: 12.880 min Scan# 1
Delta R.T. -0.023 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Tgt Ion:244 Resp: 548636

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.6	8.4
122	10.5	8.4	12.6

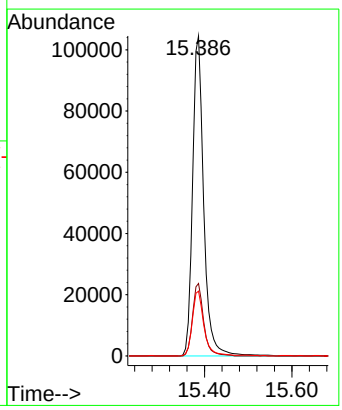




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Tgt Ion:264 Resp: 184984

Ion	Ratio	Lower	Upper
264	100		
260	22.7	18.6	28.0
265	20.3	17.0	25.4



Sample Results: **BF141767.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

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-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141767.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.169	348	353	366	rBV	76540	123026	7.34%	1.065%
2	5.404	558	563	590	rBV	925693	1397247	83.34%	12.092%
3	6.422	731	736	763	rBV	965895	1440200	85.90%	12.464%
4	6.781	792	797	804	rBV	343020	439562	26.22%	3.804%
5	7.345	887	893	921	rBV	620622	929257	55.42%	8.042%
6	7.622	934	940	956	rBV2	13528	43909	2.62%	0.380%
7	8.063	1007	1015	1046	rVB	405670	612718	36.54%	5.303%
8	8.481	1082	1086	1097	rBV2	11430	28505	1.70%	0.247%
9	8.651	1110	1115	1119	rVB	23536	29162	1.74%	0.252%
10	9.134	1192	1197	1208	rBV	1279829	1676633	100.00%	14.510%
11	9.216	1208	1211	1222	rVB	13547	24203	1.44%	0.209%
12	9.810	1307	1312	1327	rBV	447409	638265	38.07%	5.524%
13	10.528	1429	1434	1442	rBV	88600	122353	7.30%	1.059%
14	10.604	1442	1447	1463	rVV	598616	870508	51.92%	7.534%
15	11.298	1560	1565	1582	rVB	431697	600720	35.83%	5.199%
16	11.833	1651	1656	1668	rBV2	32644	80572	4.81%	0.697%
17	12.622	1786	1790	1798	rBV5	6663	18026	1.08%	0.156%
18	12.880	1829	1834	1847	rBV	1112299	1423253	84.89%	12.317%
19	13.786	1983	1988	2005	rBV6	21109	77342	4.61%	0.669%
20	13.939	2009	2014	2026	rVB	316544	449213	26.79%	3.888%
21	14.769	2151	2155	2164	rBV	37677	52177	3.11%	0.452%
22	15.386	2254	2260	2274	rBV	274726	477917	28.50%	4.136%

Sum of corrected areas: 11554768

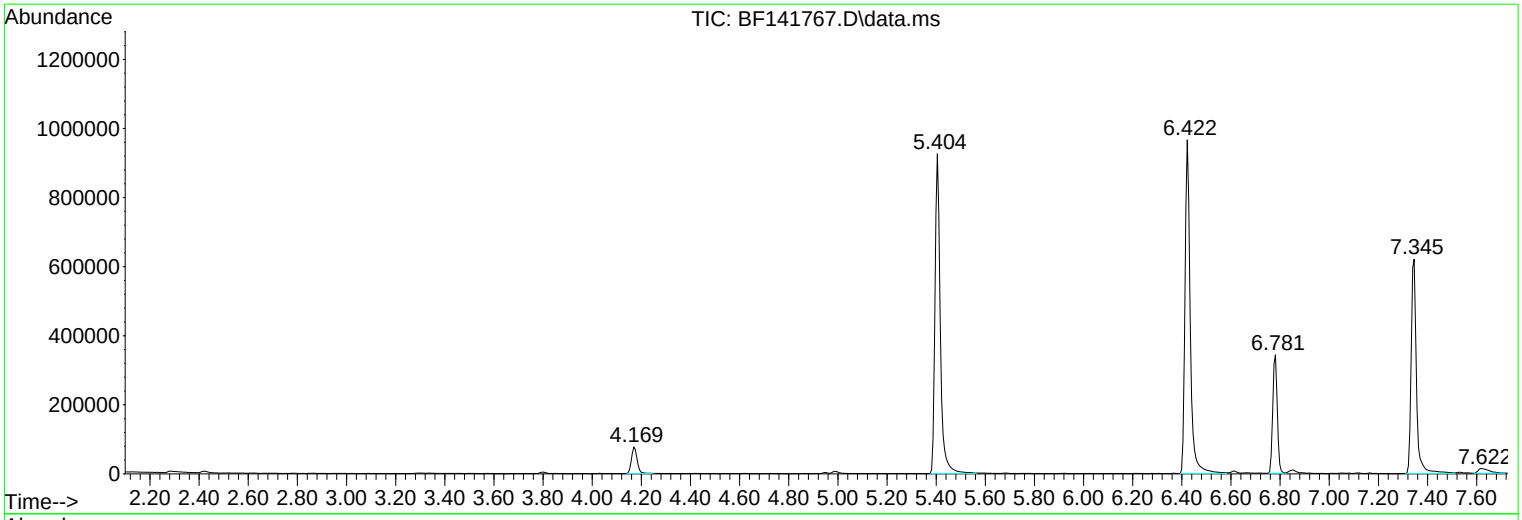
Sample Results: **BF141767.D**

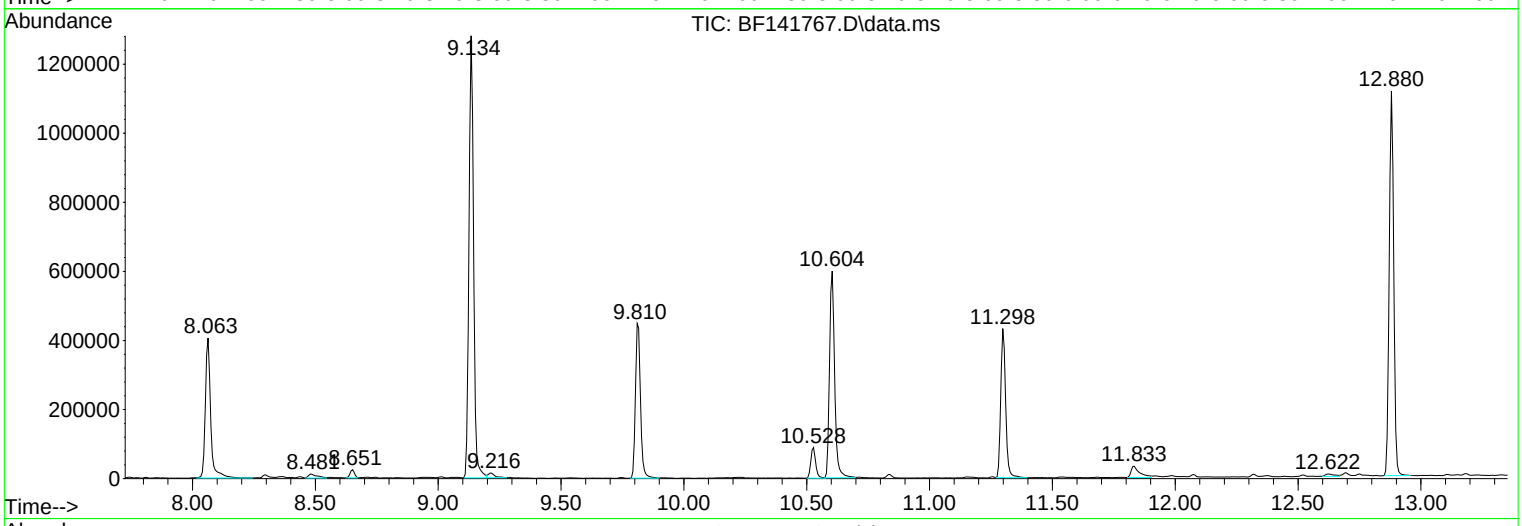
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

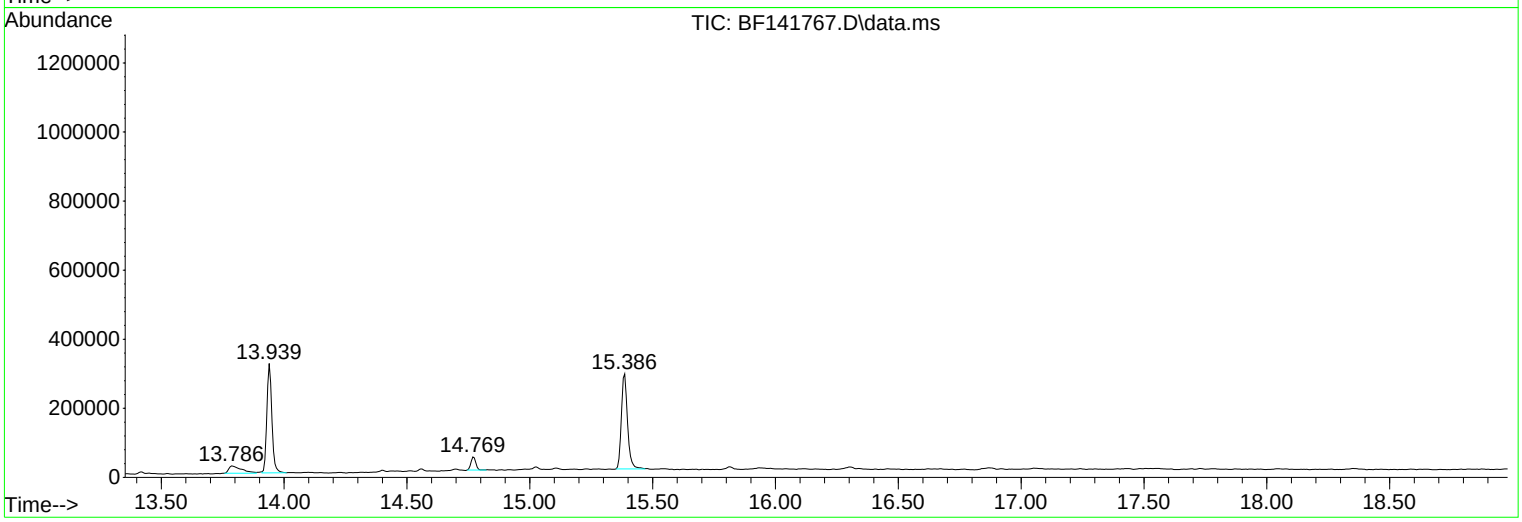
Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.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\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

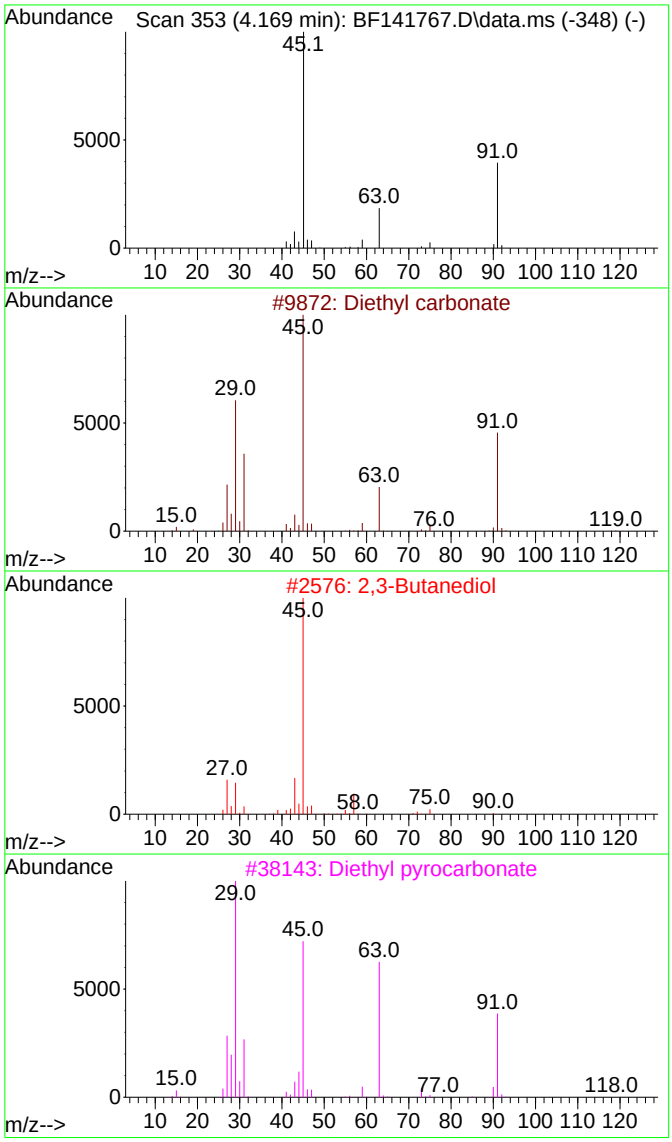
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

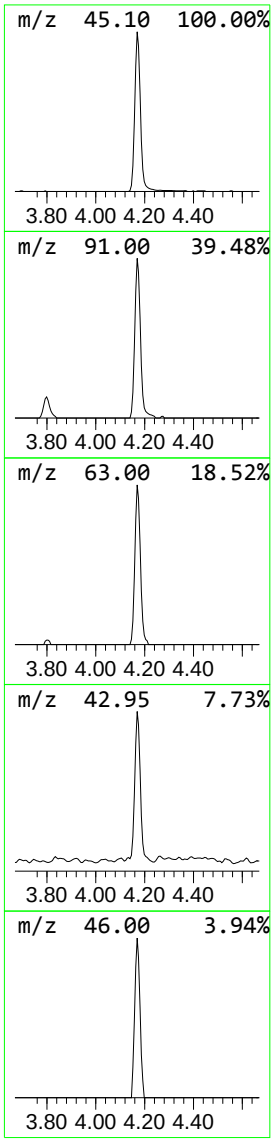
****

Peak Number 1 Diethyl carbonate Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.169	5.60 ng	123026	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diethyl carbonate	118	C5H10O3	000105-58-8	83
2	2,3-Butanediol	90	C4H10O2	000513-85-9	9
3	Diethyl pyrocarbonate	162	C6H10O5	001609-47-8	9
4	2-Propanol, 1-methoxy-	90	C4H10O2	000107-98-2	9
5	Propanoic acid, 2-hydroxy-, ethy...	118	C5H10O3	000097-64-3	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

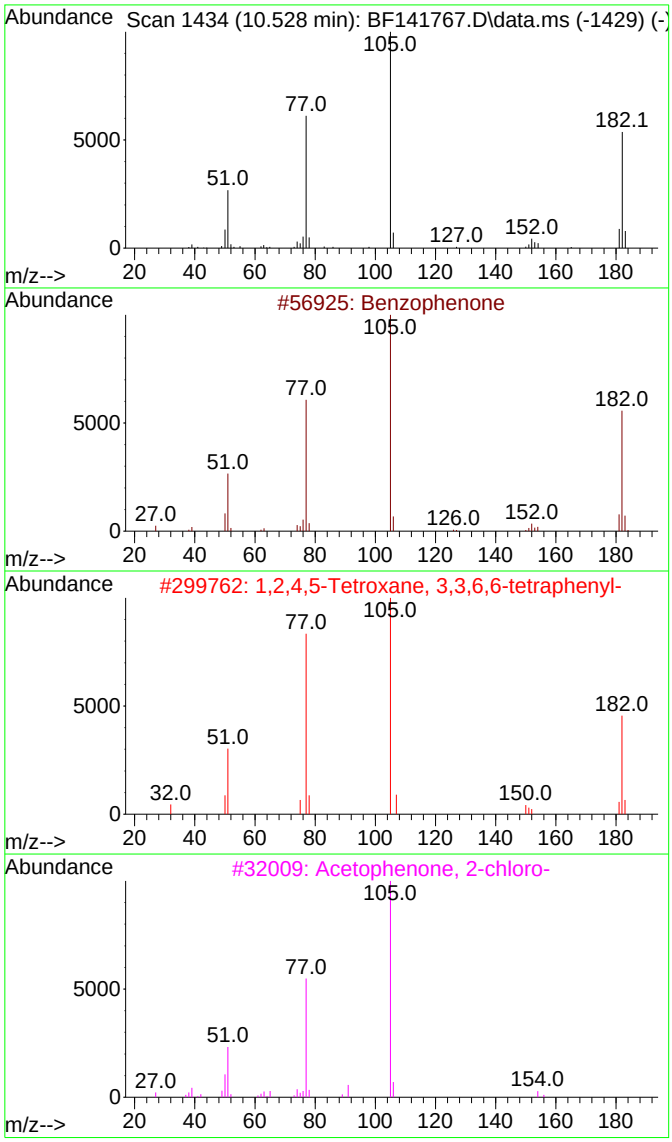
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

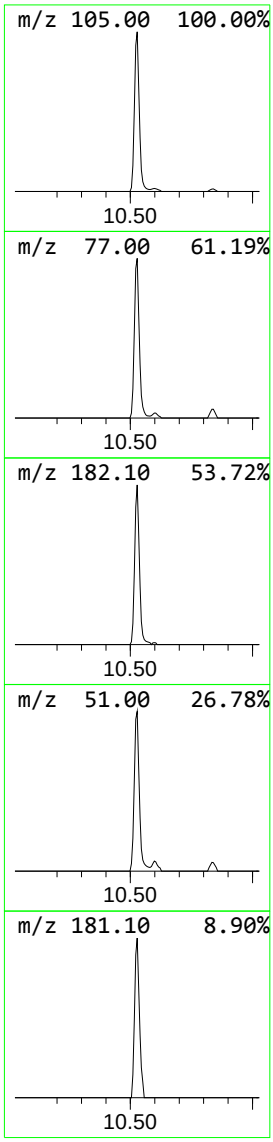
****

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.528	3.83 ng	122353	Acenaphthene-d10	9.810

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	1,2,4,5-Tetroxane, 3,3,6,6-tetra...	396	C26H20O4	016204-36-7	78
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4	Vinyl benzoate	148	C9H8O2	000769-78-8	47
5	Benzoic acid, phenyl ester	198	C13H10O2	000093-99-2	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

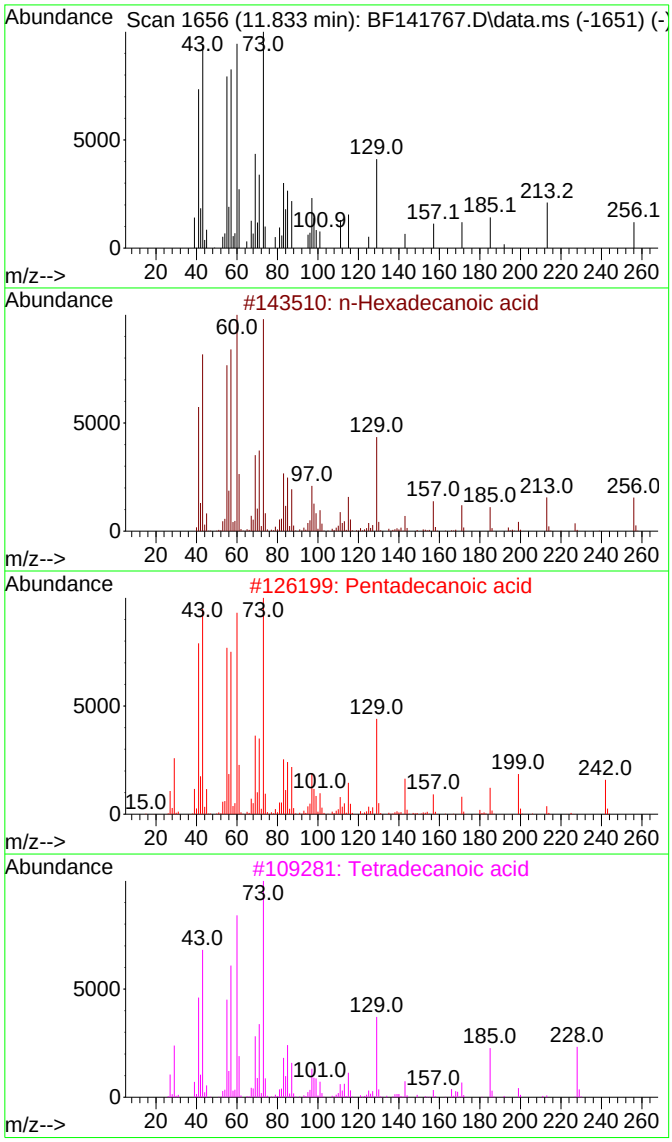
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

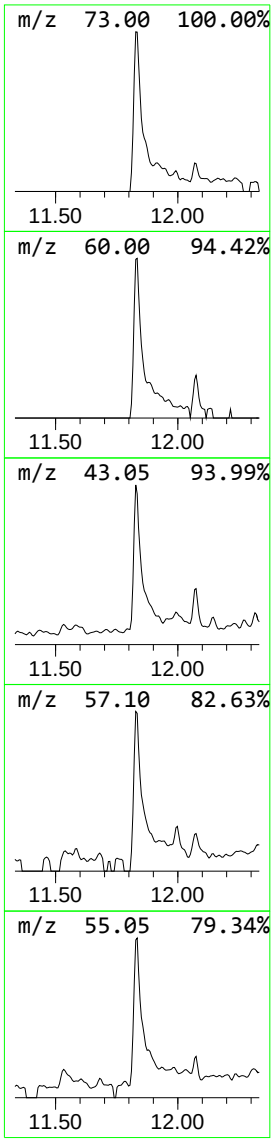
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.833	2.68 ng	80572	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	74
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
4	Tridecanoic acid	214	C13H26O2	000638-53-9	64
5	Decanoic acid, silver(1+) salt	278	C10H19AgO2	013126-67-5	50





Sample Results: **BF141767.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

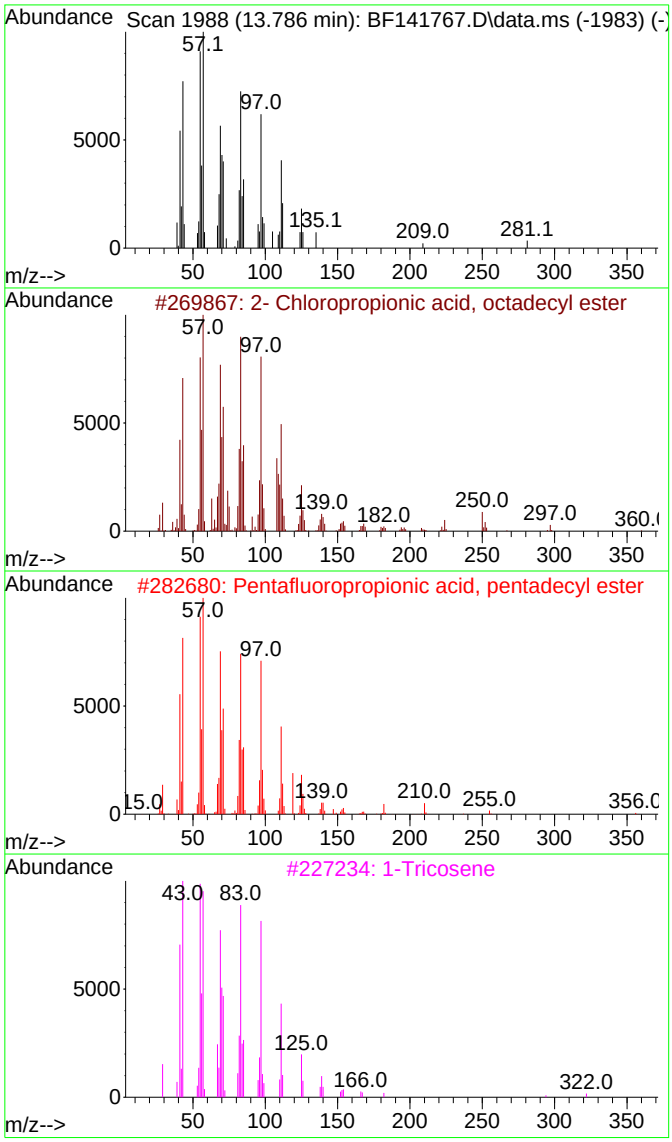
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

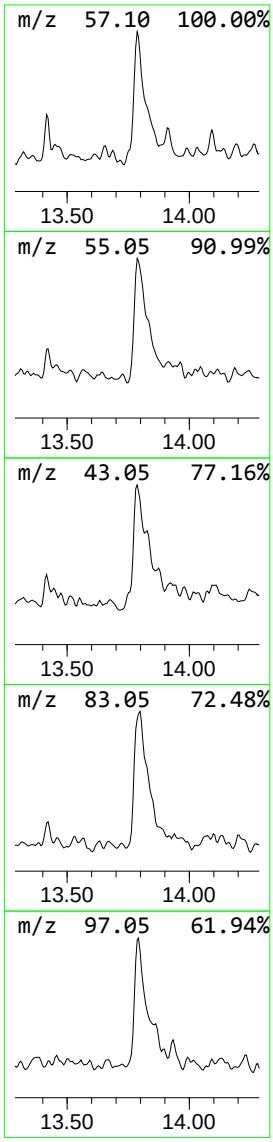
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 2- Chloropropionic acid, oc... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.786	3.44 ng	77342	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2- Chloropropionic acid, octadec...	360	C21H41ClO2	088104-31-8	91
2	Pentafluoropropionic acid, penta...	374	C18H31F5O2	959092-08-1	91
3	1-Tricosene	322	C23H46	018835-32-0	90
4	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	87
5	Trichloroacetic acid, tetradecyl...	358	C16H29Cl3O2	074339-52-9	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

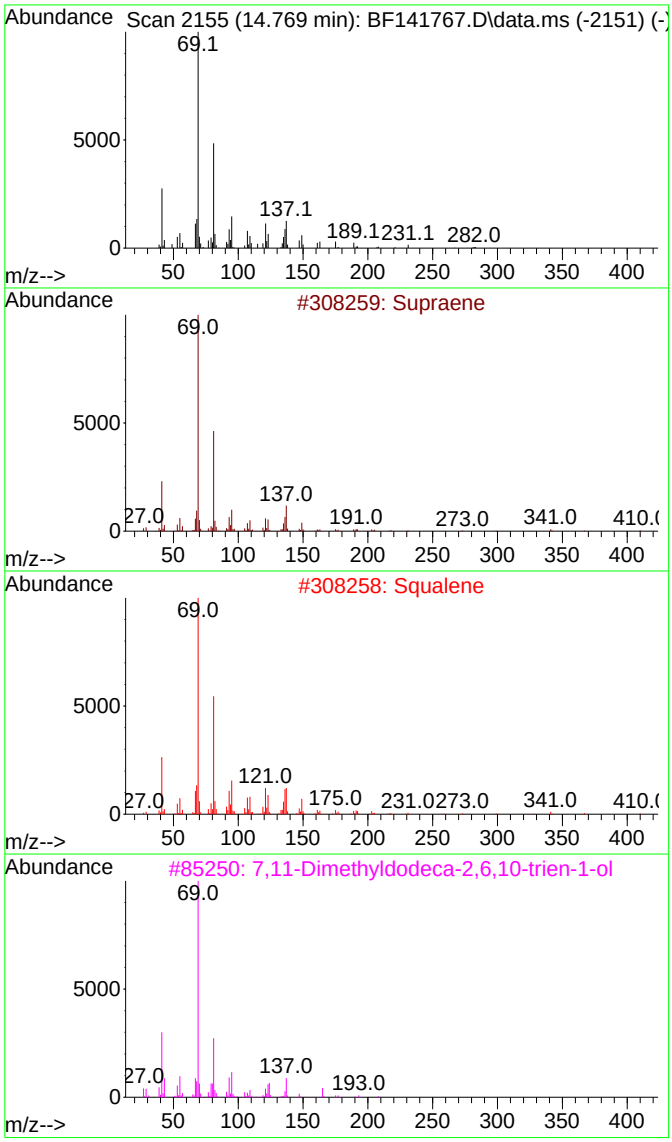
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

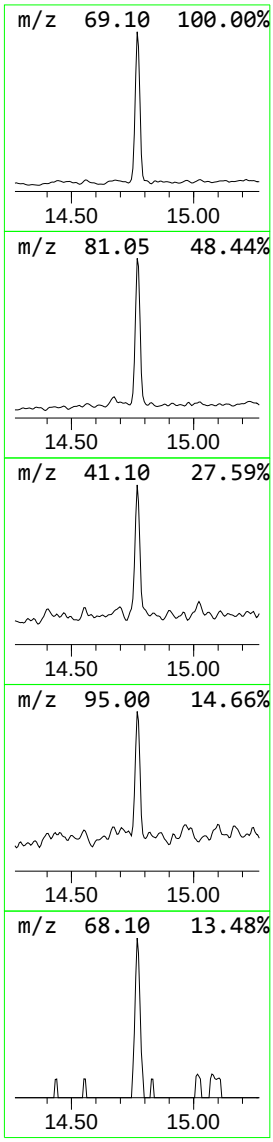
****

Peak Number 5 Supraene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.769	2.18 ng	52177	Perylene-d12	15.386

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Supraene	410	C30H50	007683-64-9	91
2	Squalene	410	C30H50	000111-02-4	91
3	7,11-Dimethyldodeca-2,6,10-trien...	208	C14H24O	125529-10-4	80
4	(3E,7E)-4,8,12-Trimethyltrideca-...	218	C16H26	062235-06-7	59
5	(2E,6E)-3,7,11-Trimethyldodeca-2...	404	C27H48O2	078368-58-8	56





Sample Results: **BF141767.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.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
Diethyl carbonate	4.169	5.6	ng	123026	1	6.781	439562	20.0
Benzophenone	10.528	3.8	ng	122353	3	9.810	638265	20.0
n-Hexadecanoic ...	11.833	2.7	ng	80572	4	11.298	600720	20.0
2- Chloropropio...	13.786	3.4	ng	77342	5	13.939	449213	20.0
Supraene	14.769	2.2	ng	52177	6	15.386	477917	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Quant Time: Feb 25 16:27:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

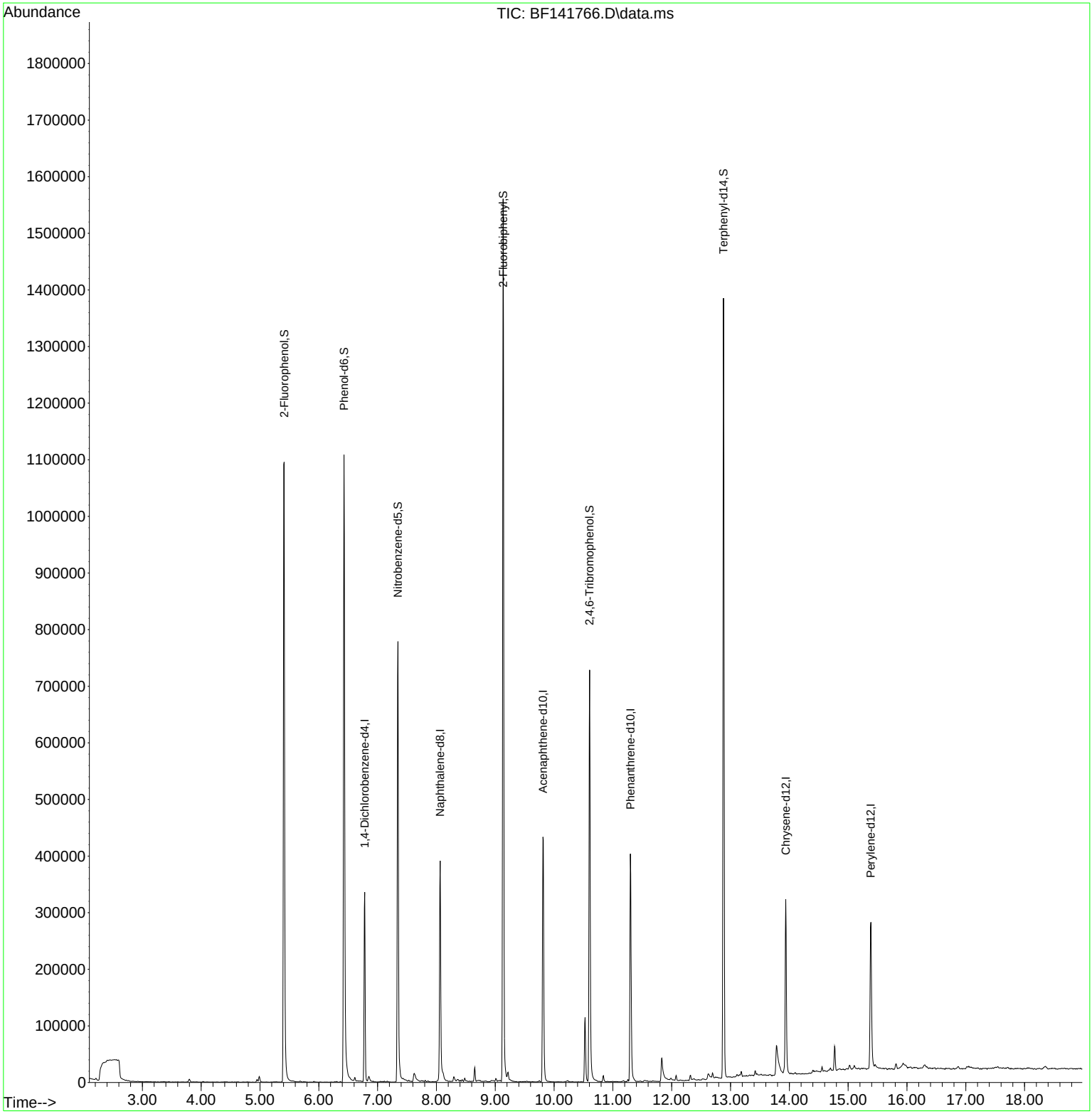
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	71117	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	279572	20.000	ng	-0.01
39) Acenaphthene-d10	9.810	164	151408	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	244202	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	165983	20.000	ng	-0.02
86) Perylene-d12	15.386	264	176431	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	462654	101.990	ng	0.00
7) Phenol-d6	6.428	99	566004	98.719	ng	-0.01
23) Nitrobenzene-d5	7.345	82	367579	68.577	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	130576	85.851	ng	-0.02
45) 2-Fluorobiphenyl	9.134	172	717455	73.004	ng	-0.02
79) Terphenyl-d14	12.880	244	686743	69.847	ng	-0.02
Target Compounds						Qvalue

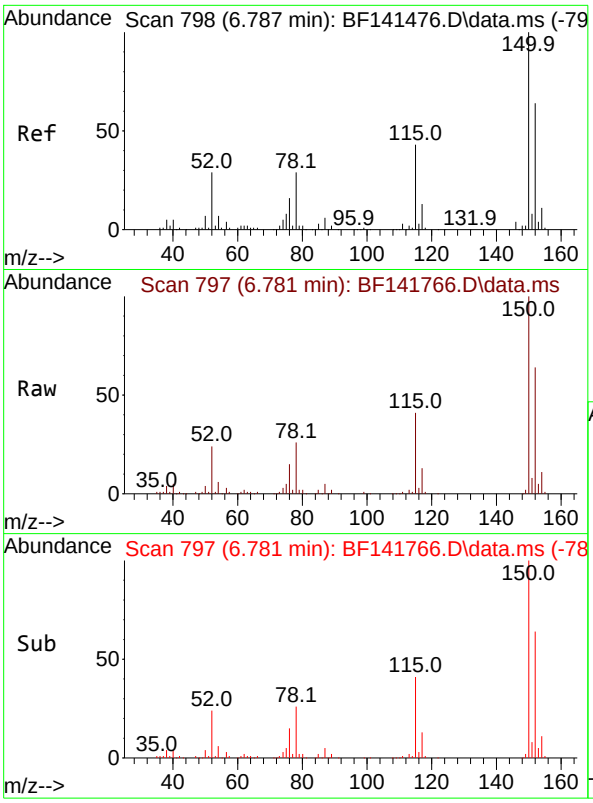
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Quant Time: Feb 25 16:27:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



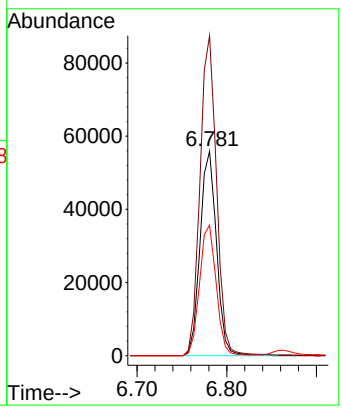


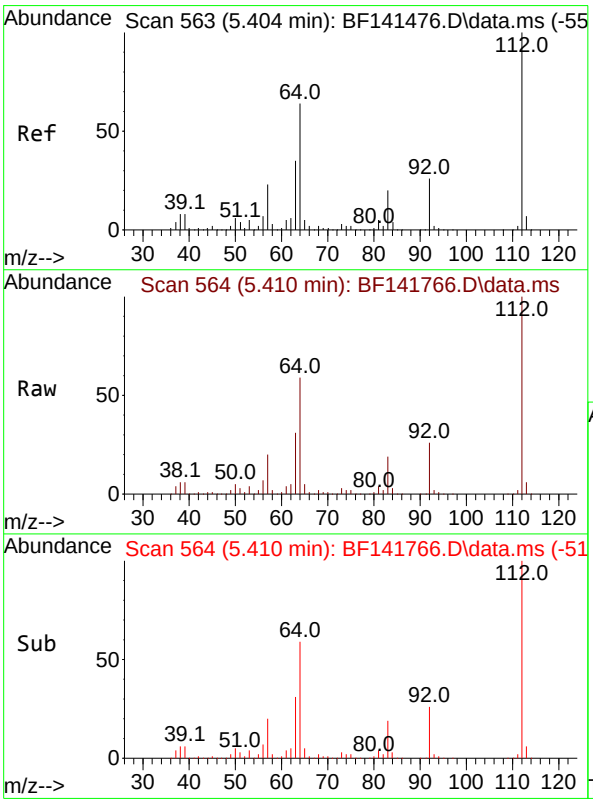
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Tgt Ion:152 Resp: 71117

Ion	Ratio	Lower	Upper
152	100		
150	156.5	125.0	187.4
115	63.9	53.6	80.4

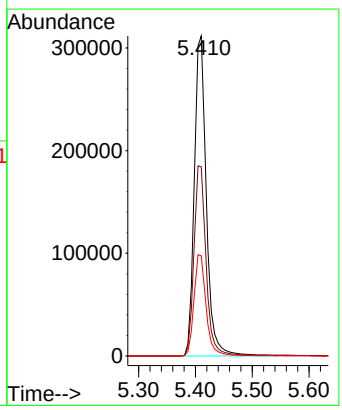


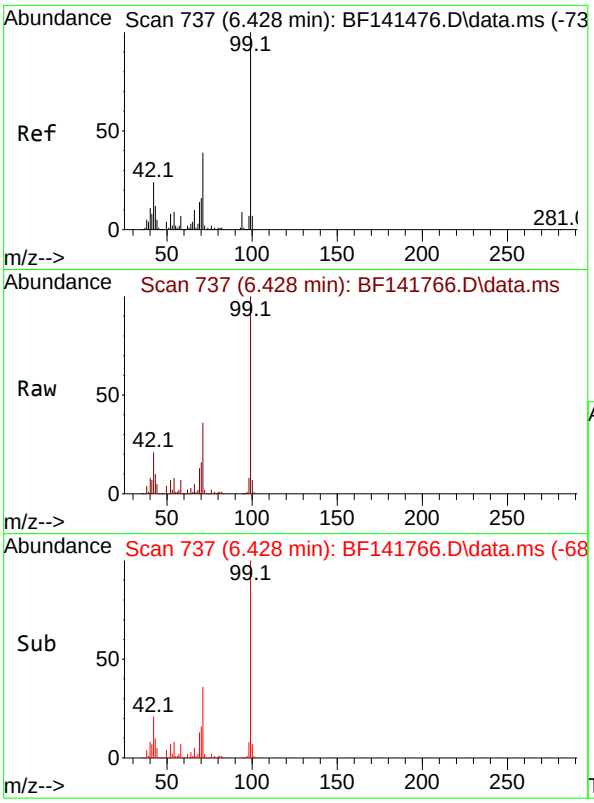


#5
2-Fluorophenol
Concen: 101.990 ng
RT: 5.410 min Scan# 564
Delta R.T. 0.000 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Tgt Ion:112 Resp: 462654

Ion	Ratio	Lower	Upper
112	100		
64	59.1	51.1	76.7
63	31.3	28.4	42.6



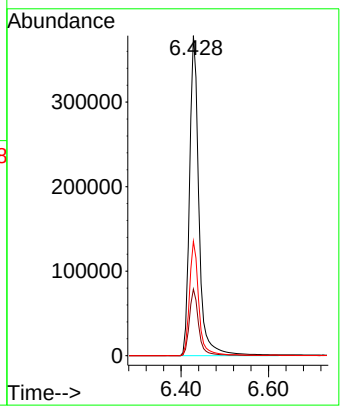


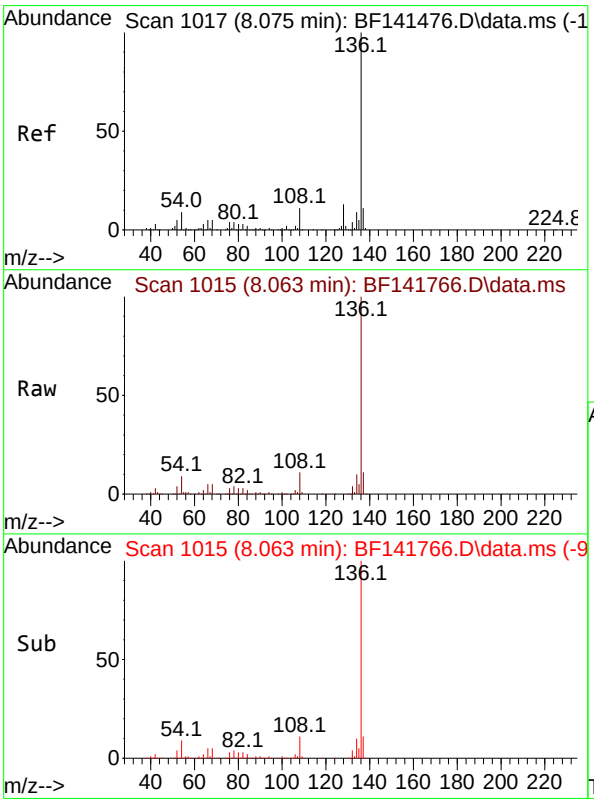
#7
Phenol-d6
Concen: 98.719 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Tgt Ion: 99 Resp: 566004

Ion	Ratio	Lower	Upper
99	100		
42	20.8	19.1	28.7
71	35.8	31.1	46.7

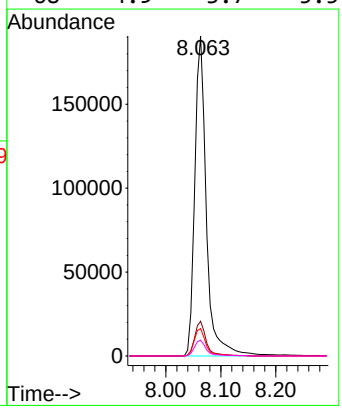


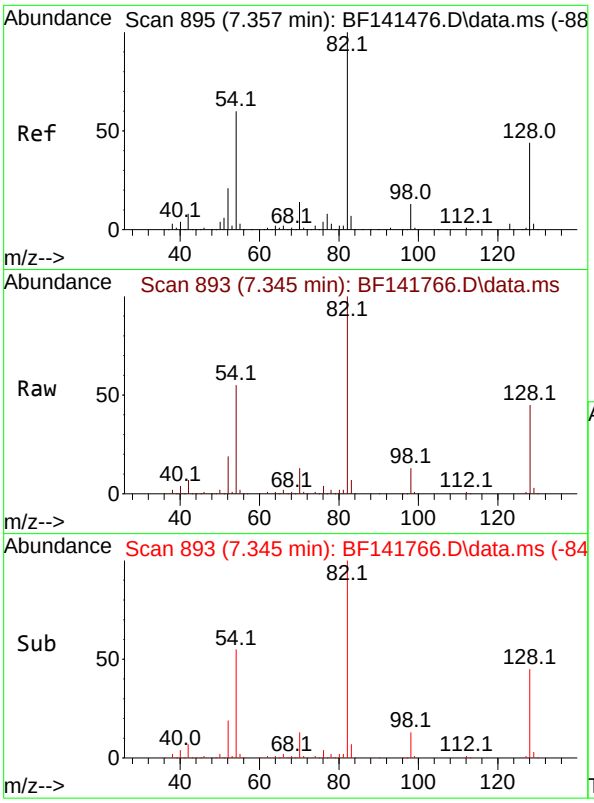


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Tgt Ion:136 Resp: 279572

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.5	7.2	10.8
68	4.9	3.7	5.5



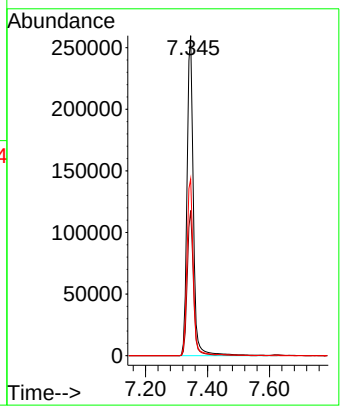


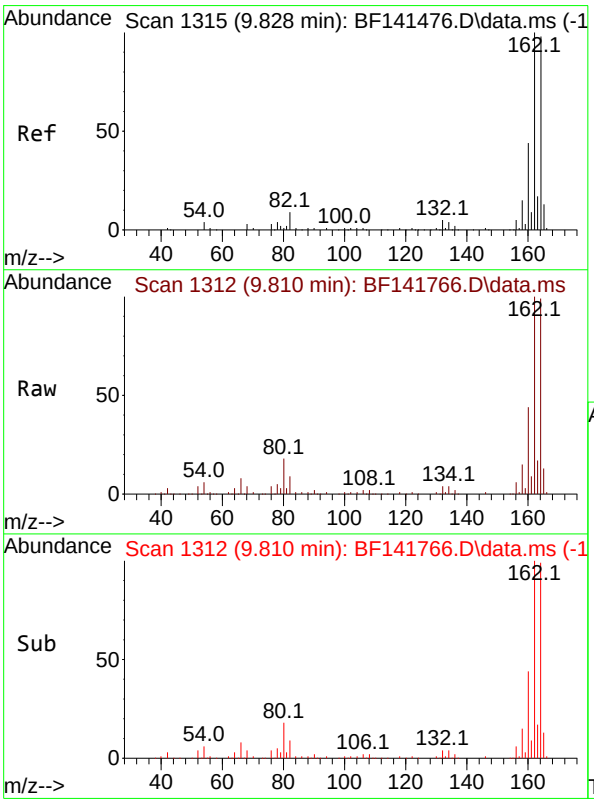
#23
Nitrobenzene-d5
Concen: 68.577 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Tgt Ion: 82 Resp: 367579

Ion	Ratio	Lower	Upper
82	100		
128	45.3	34.8	52.2
54	55.2	48.2	72.4

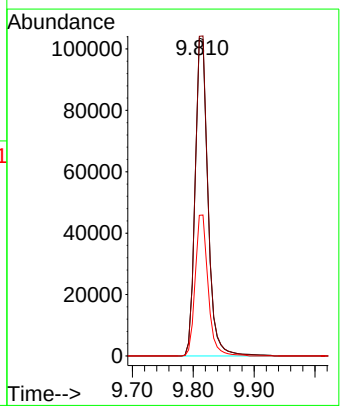


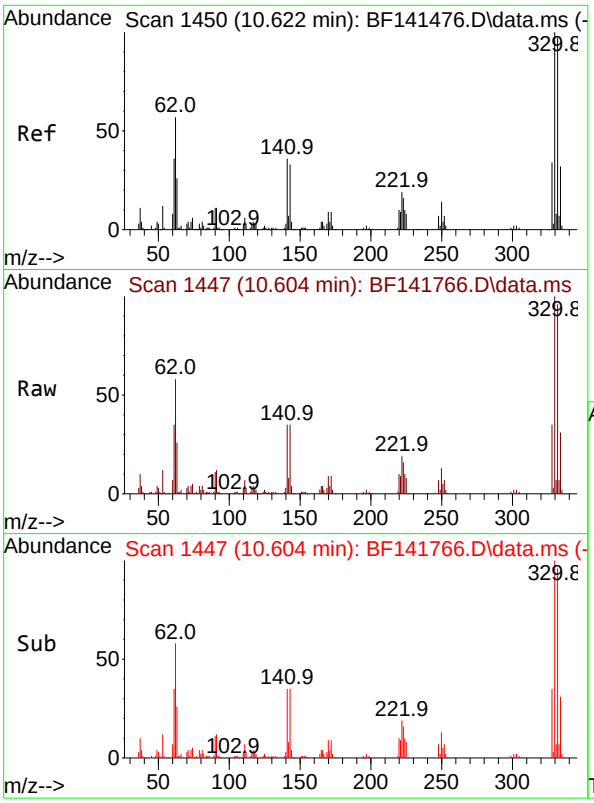


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.810 min Scan# 1312
Delta R.T. -0.023 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Tgt Ion:164 Resp: 151408

Ion	Ratio	Lower	Upper
164	100		
162	100.6	81.3	121.9
160	44.3	35.9	53.9



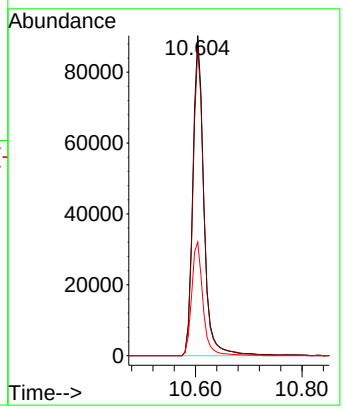


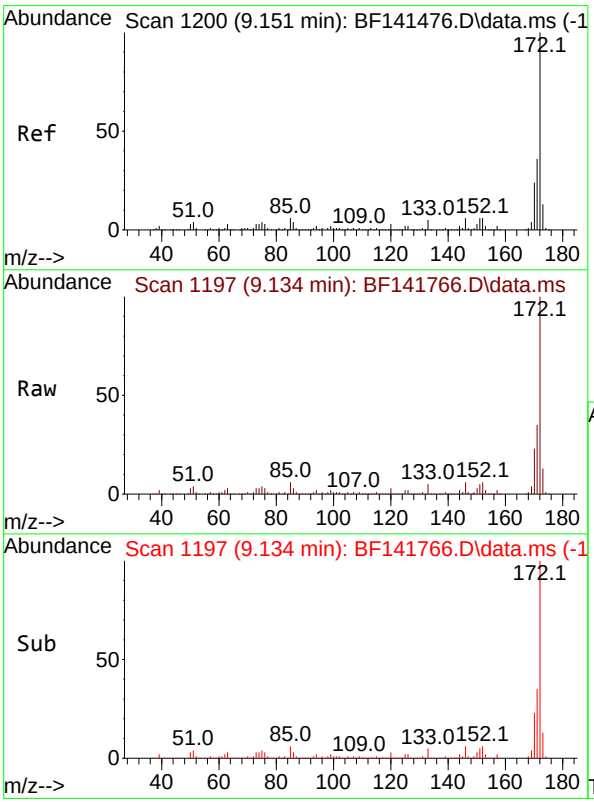
#42
2,4,6-Tribromophenol
Concen: 85.851 ng
RT: 10.604 min Scan# 14
Delta R.T. -0.023 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Tgt Ion:330 Resp: 130576

Ion	Ratio	Lower	Upper
330	100		
332	96.7	78.5	117.7
141	36.4	31.0	46.4

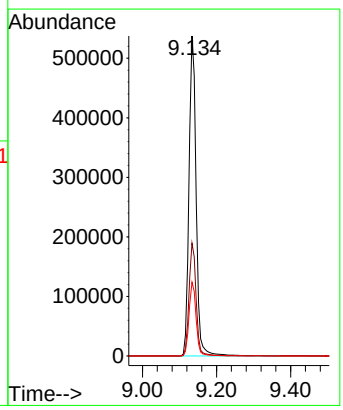


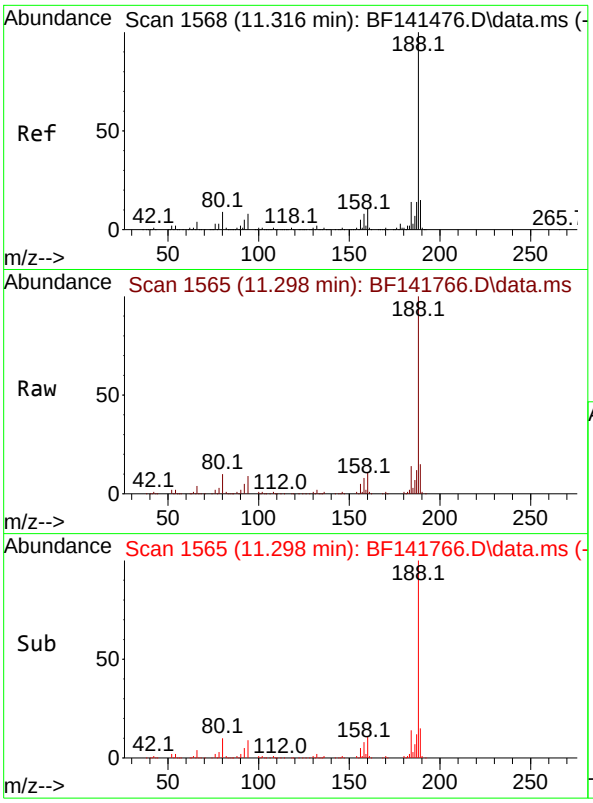


#45
2-Fluorobiphenyl
Concen: 73.004 ng
RT: 9.134 min Scan# 1197
Delta R.T. -0.017 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Tgt Ion:172 Resp: 717455

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.7	43.1
170	23.1	18.9	28.3



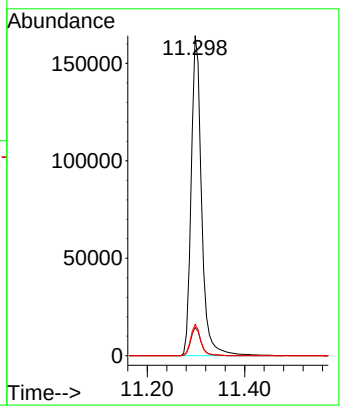


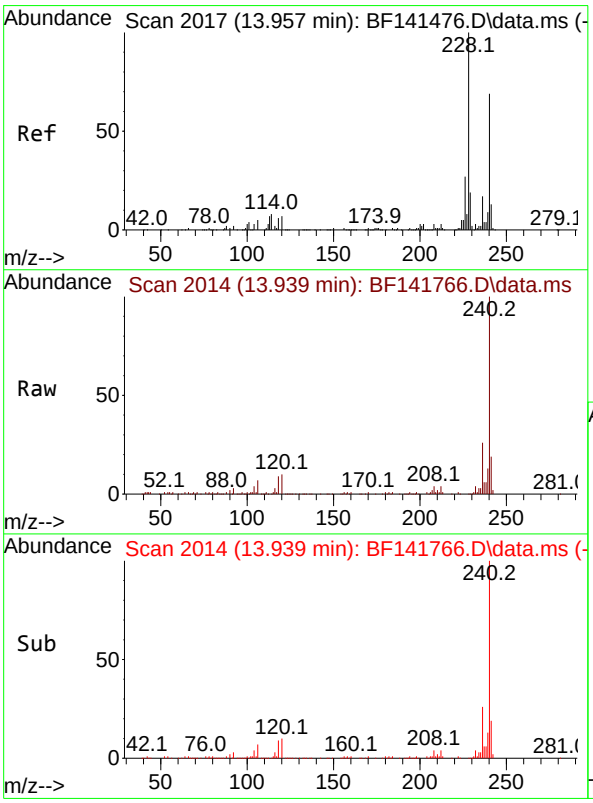
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Tgt Ion:188 Resp: 244202

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	9.8	7.3	10.9

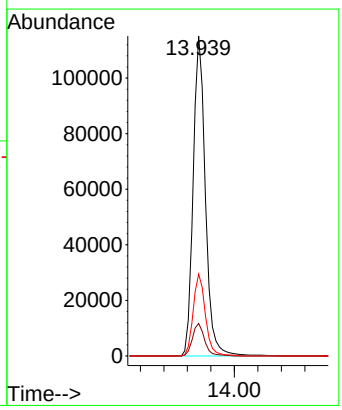


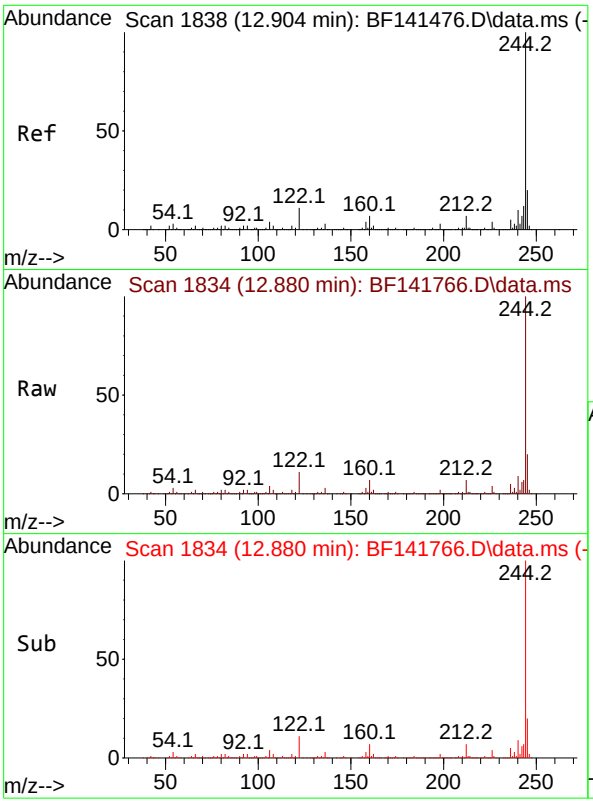


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Tgt Ion:240 Resp: 165983

Ion	Ratio	Lower	Upper
240	100		
120	10.1	8.0	12.0
236	25.6	19.8	29.8



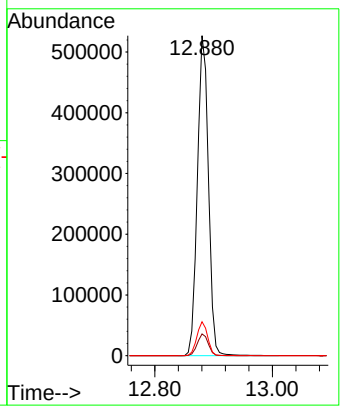


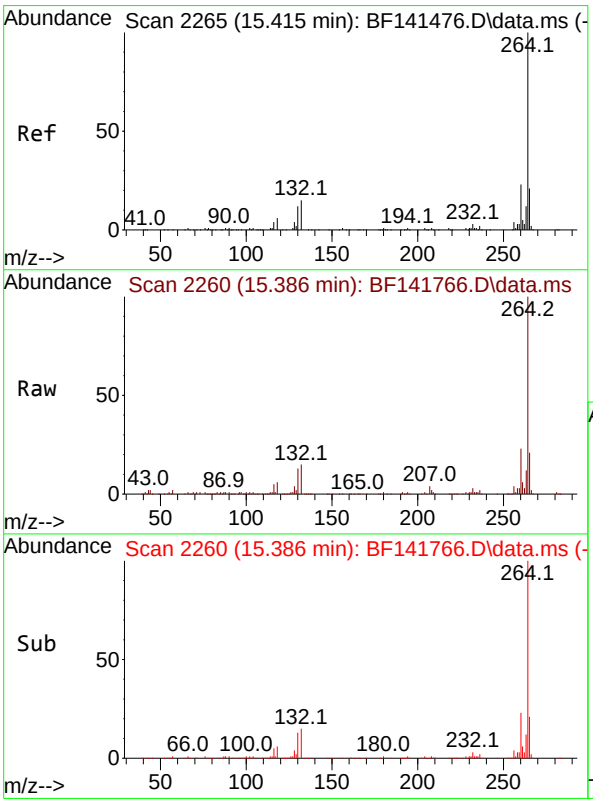
#79
Terphenyl-d14
Concen: 69.847 ng
RT: 12.880 min Scan# 1
Delta R.T. -0.023 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Tgt Ion:244 Resp: 686743

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.6	8.4
122	10.6	8.4	12.6

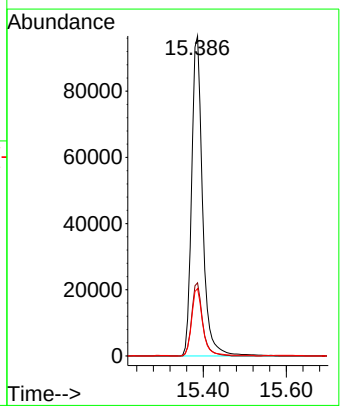




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Tgt Ion:264 Resp: 176431

Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.6	28.0
265	21.0	17.0	25.4



Sample Results: **BF141766.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

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-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141766.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.340	28	42	44	rBV	31236	128873	6.32%	0.982%
2	5.410	558	564	586	rBV	1094751	1635295	80.21%	12.455%
3	6.428	732	737	764	rBV	1108126	1671376	81.98%	12.730%
4	6.781	792	797	804	rBV	334262	424685	20.83%	3.235%
5	7.345	887	893	906	rBV	777721	1087593	53.35%	8.284%
6	7.622	934	940	956	rBV	14620	45170	2.22%	0.344%
7	8.063	1002	1015	1034	rBV	390196	593890	29.13%	4.523%
8	8.651	1110	1115	1119	rBV	24145	29350	1.44%	0.224%
9	9.134	1192	1197	1208	rBV	1558902	2038701	100.00%	15.528%
10	9.810	1307	1312	1327	rBV	432528	622861	30.55%	4.744%
11	10.528	1429	1434	1442	rBV	114302	157215	7.71%	1.197%
12	10.604	1442	1447	1471	rVB	727269	1049440	51.48%	7.993%
13	11.298	1560	1565	1581	rVB	401888	585630	28.73%	4.461%
14	11.833	1650	1656	1674	rBV2	41156	108205	5.31%	0.824%
15	12.622	1785	1790	1799	rBV7	9460	26555	1.30%	0.202%
16	12.880	1829	1834	1845	rBV	1377181	1787256	87.67%	13.613%
17	13.780	1982	1987	2006	rBV2	51639	166360	8.16%	1.267%
18	13.939	2006	2014	2026	rVB	308480	453621	22.25%	3.455%
19	14.769	2151	2155	2161	rVB	42564	58922	2.89%	0.449%
20	15.386	2254	2260	2270	rBV	257415	458242	22.48%	3.490%

Sum of corrected areas: 13129240

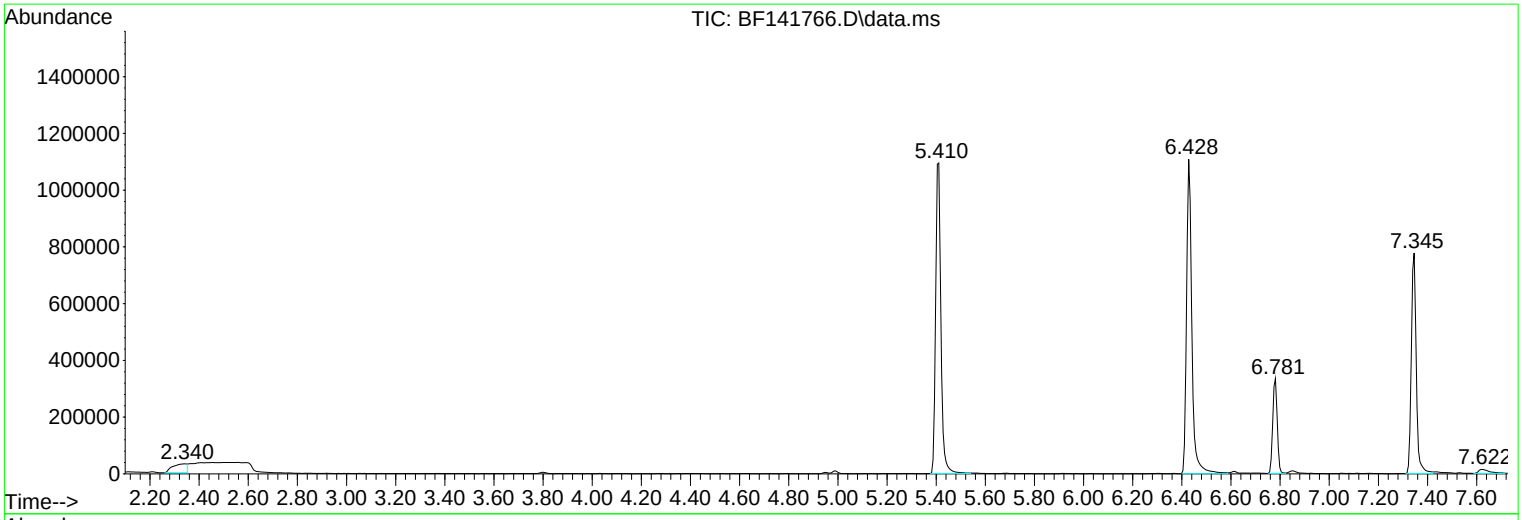
Sample Results: **BF141766.D**

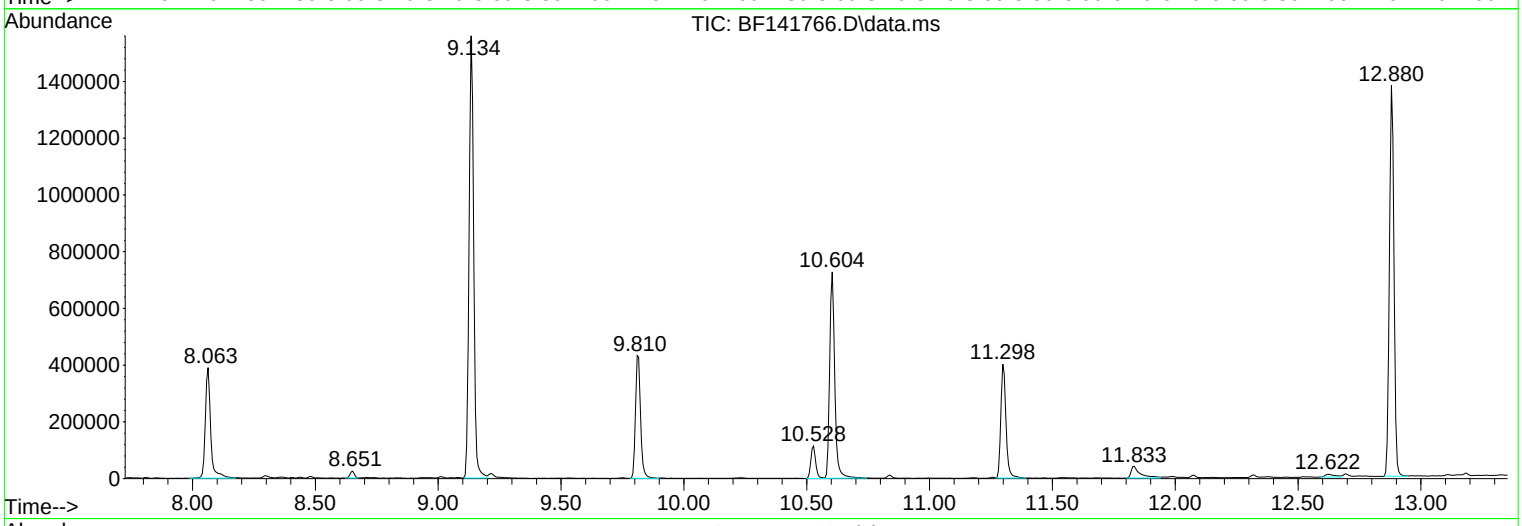
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

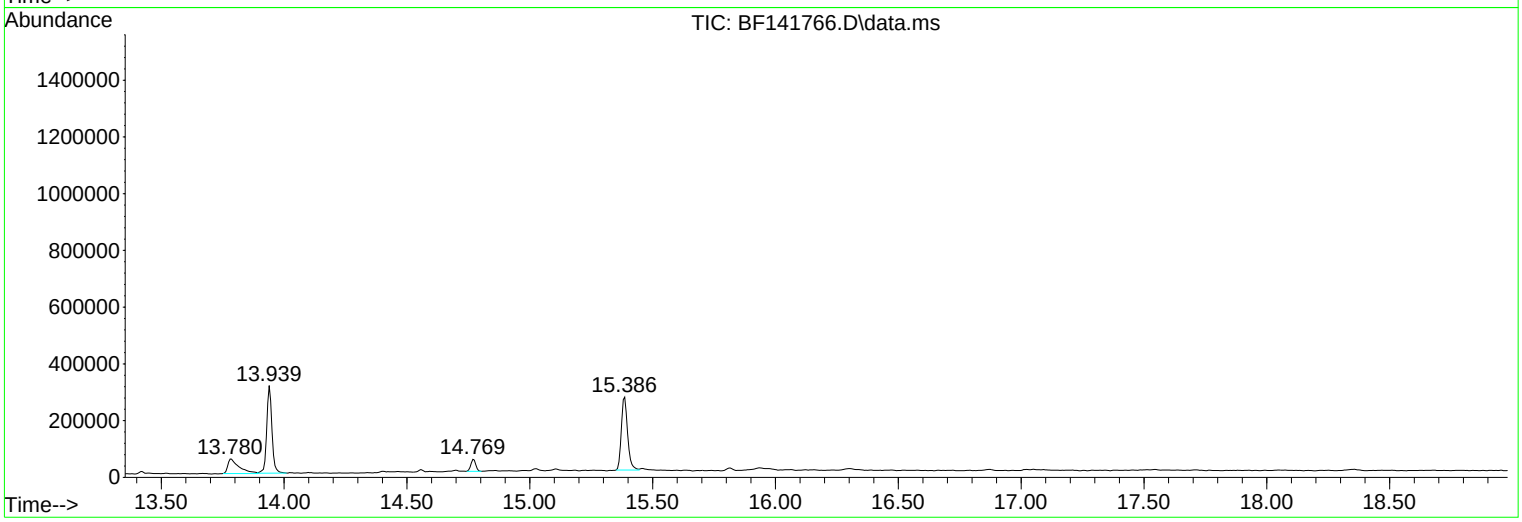
Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.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\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

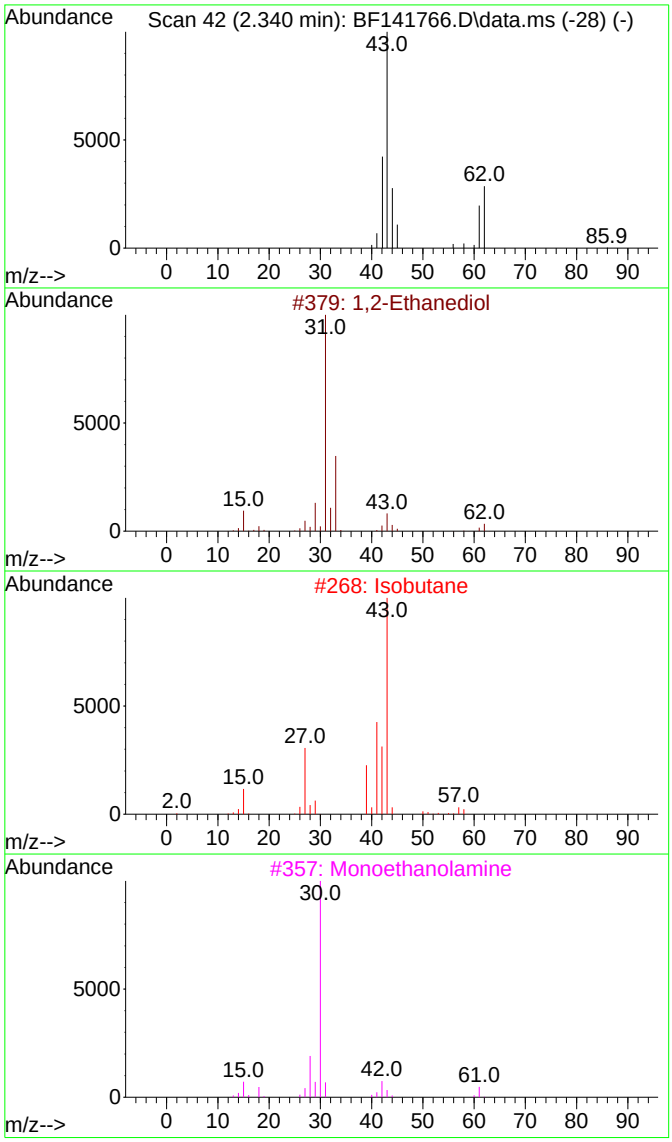
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

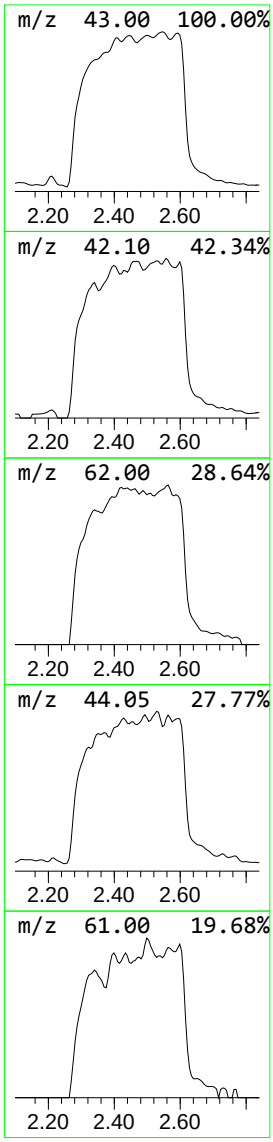
****

Peak Number 1 unknown2.340 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.340	6.07 ng	128873	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Ethanediol	62	C2H6O2	000107-21-1	9
2	Isobutane	58	C4H10	000075-28-5	4
3	Monoethanolamine	61	C2H7NO	000141-43-5	3
4	Peroxide, dimethyl	62	C2H6O2	000690-02-8	3
5	Diglycolamine	105	C4H11NO2	000929-06-6	2





Sample Results: **BF141766.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

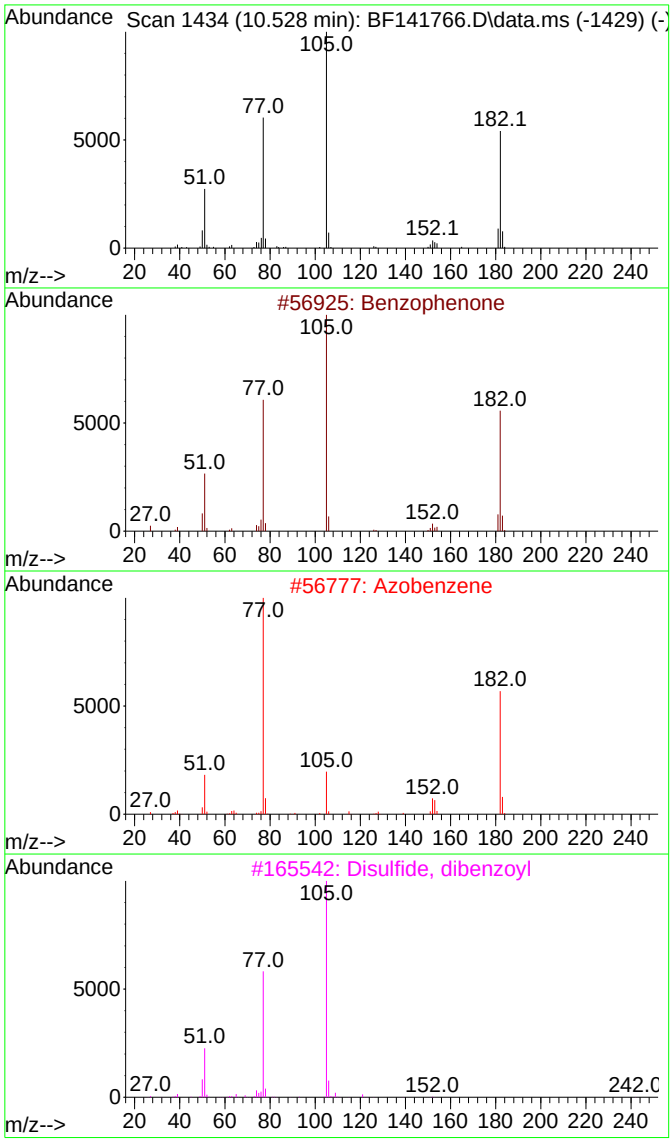
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

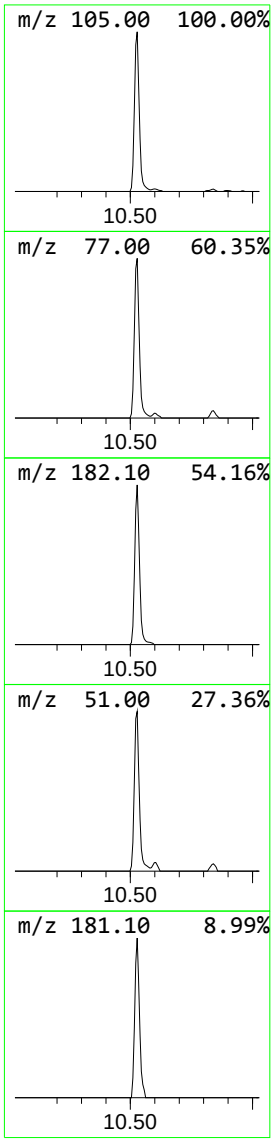
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.528	5.05 ng	157215	Acenaphthene-d10	9.810

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	Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	49
4	Benzenepropanenitrile, .beta.-oxo-	145	C9H7NO	000614-16-4	47
5	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

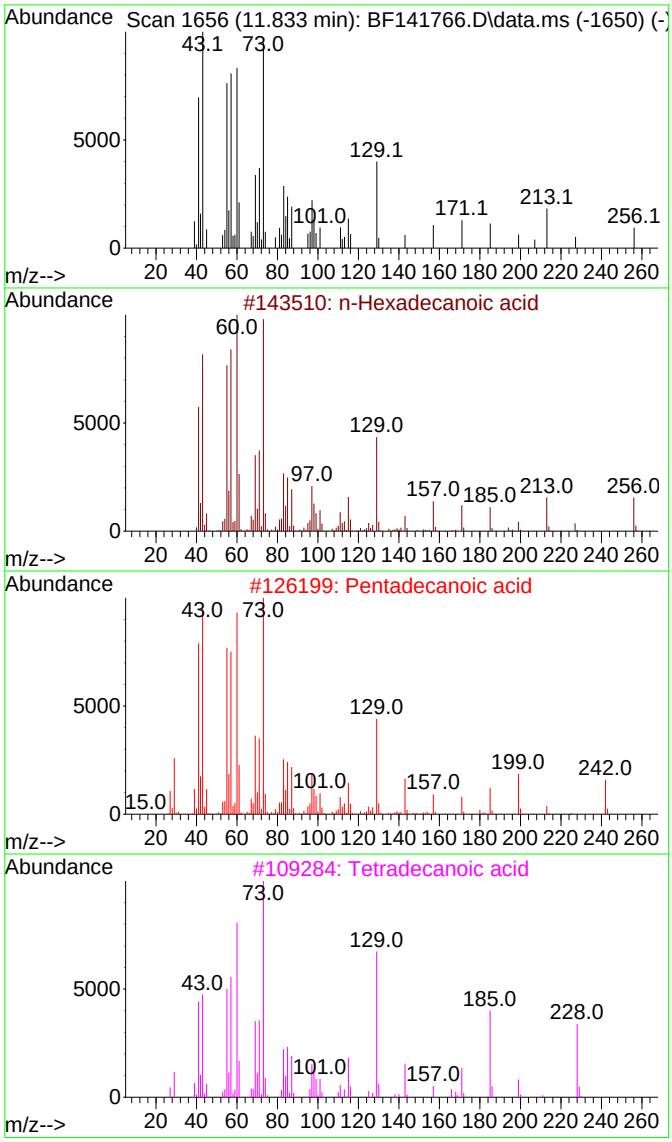
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

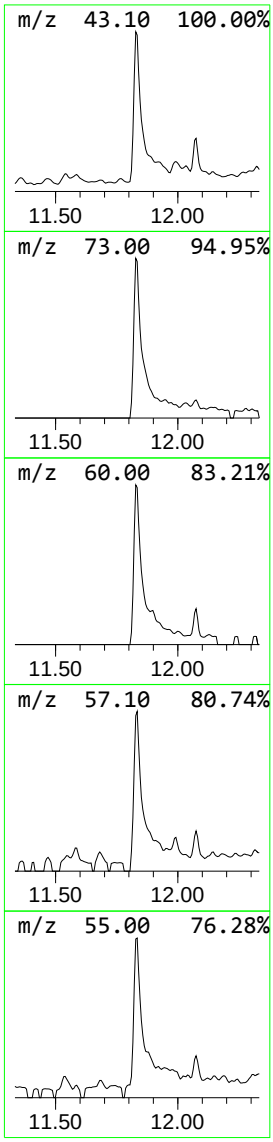
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.833	3.70 ng	108205	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
4	n-Decanoic acid	172	C10H20O2	000334-48-5	53
5	Tridecanoic acid	214	C13H26O2	000638-53-9	53





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

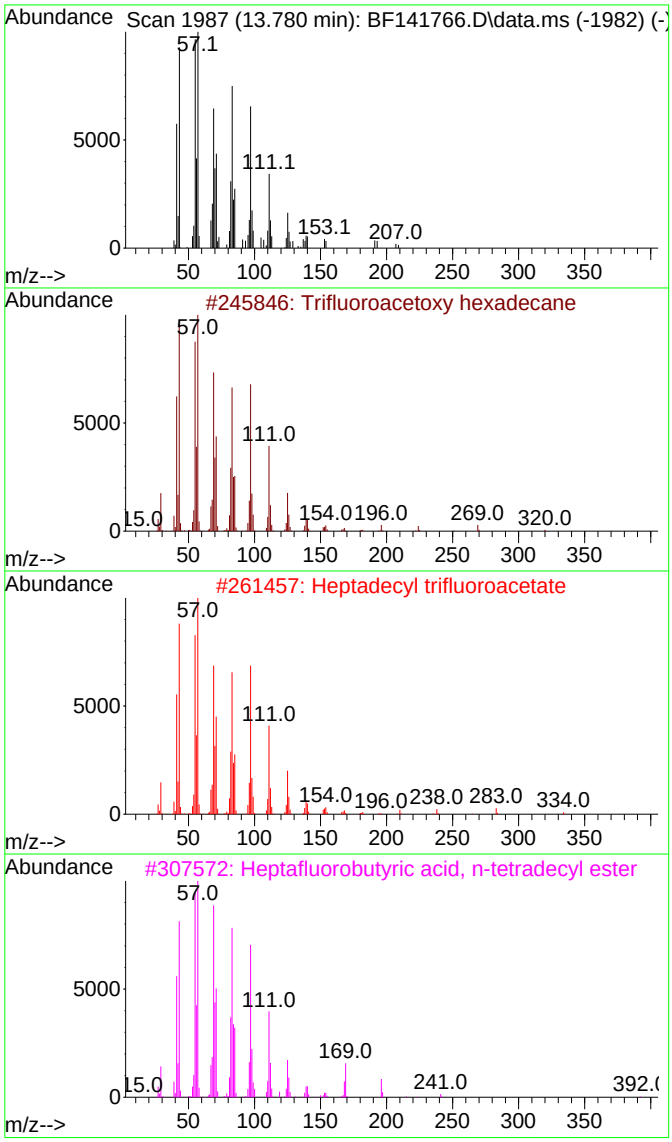
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

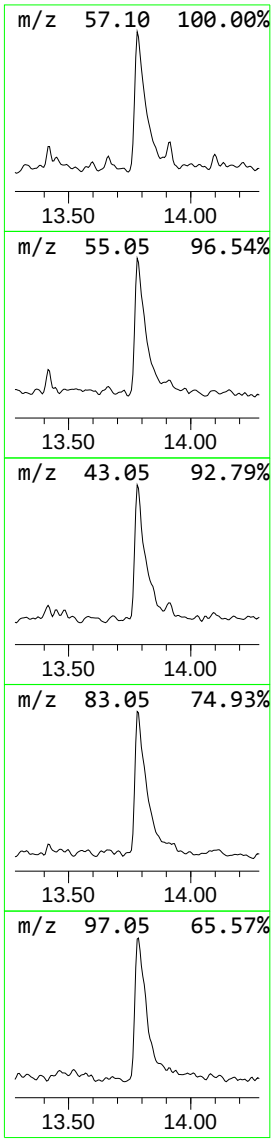
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Trifluoroacetoxy hexadecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.780	7.33 ng	166360	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	95
2	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	95
3	Heptafluorobutyric acid, n-tetra...	410	C18H29F7O2	007365-36-8	94
4	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94
5	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

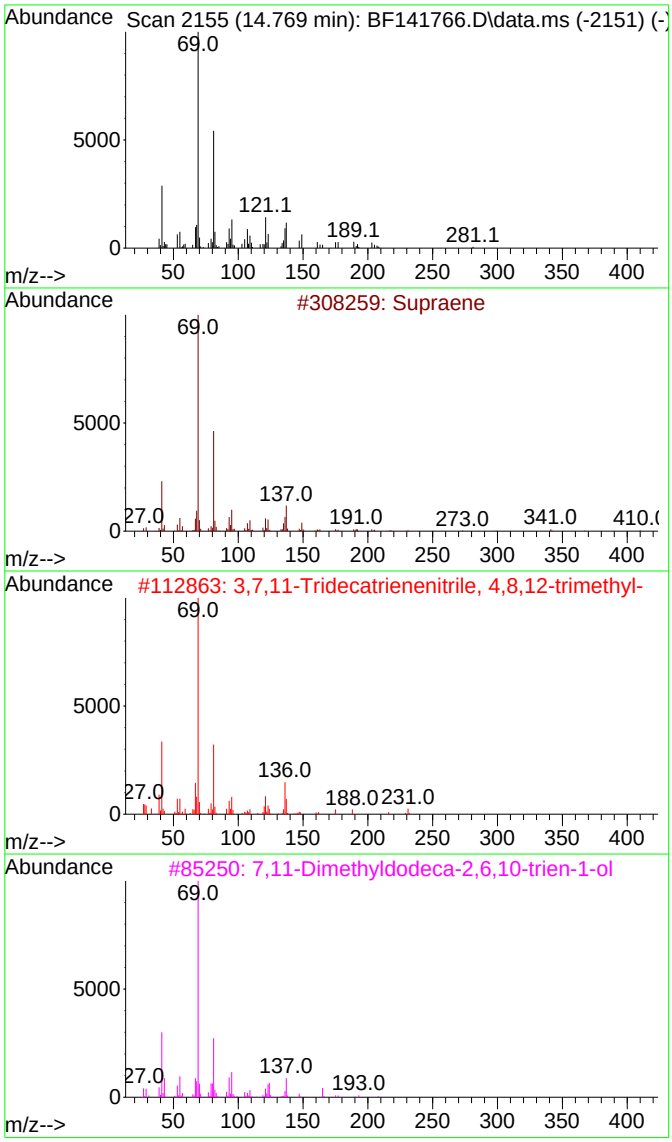
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

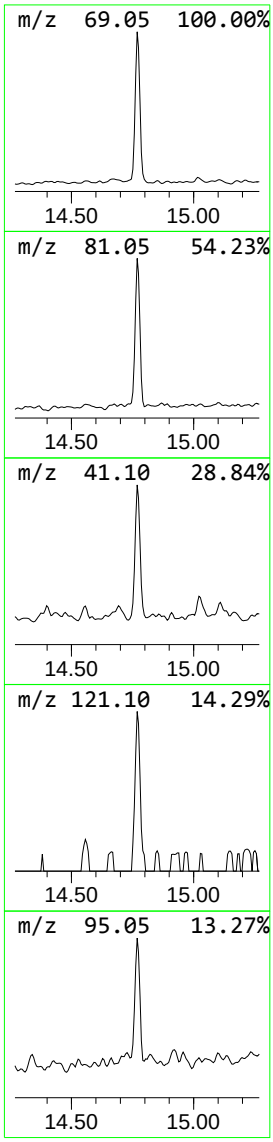
****

Peak Number 5 Supraene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.769	2.57 ng	58922	Perylene-d12	15.386

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Supraene	410	C30H50	007683-64-9	87
2	3,7,11-Tridecatrienenitrile, 4,8...	231	C16H25N	006006-01-5	72
3	7,11-Dimethyldodeca-2,6,10-trien...	208	C14H24O	125529-10-4	72
4	Umbelliprenin	366	C24H30O3	023838-17-7	72
5	4,8,12-Tetradecatrienal, 5,9,13-...	248	C17H28O	066408-55-7	64





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Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.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
unknown2.340	2.340	6.1	ng	128873	1	6.781	424685	20.0
Benzophenone	10.528	5.0	ng	157215	3	9.810	622861	20.0
n-Hexadecanoic ...	11.833	3.7	ng	108205	4	11.298	585630	20.0
Trifluoroacetox...	13.780	7.3	ng	166360	5	13.939	453621	20.0
Supraene	14.769	2.6	ng	58922	6	15.386	458242	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB02222025

Quant Time: Feb 27 00:05:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

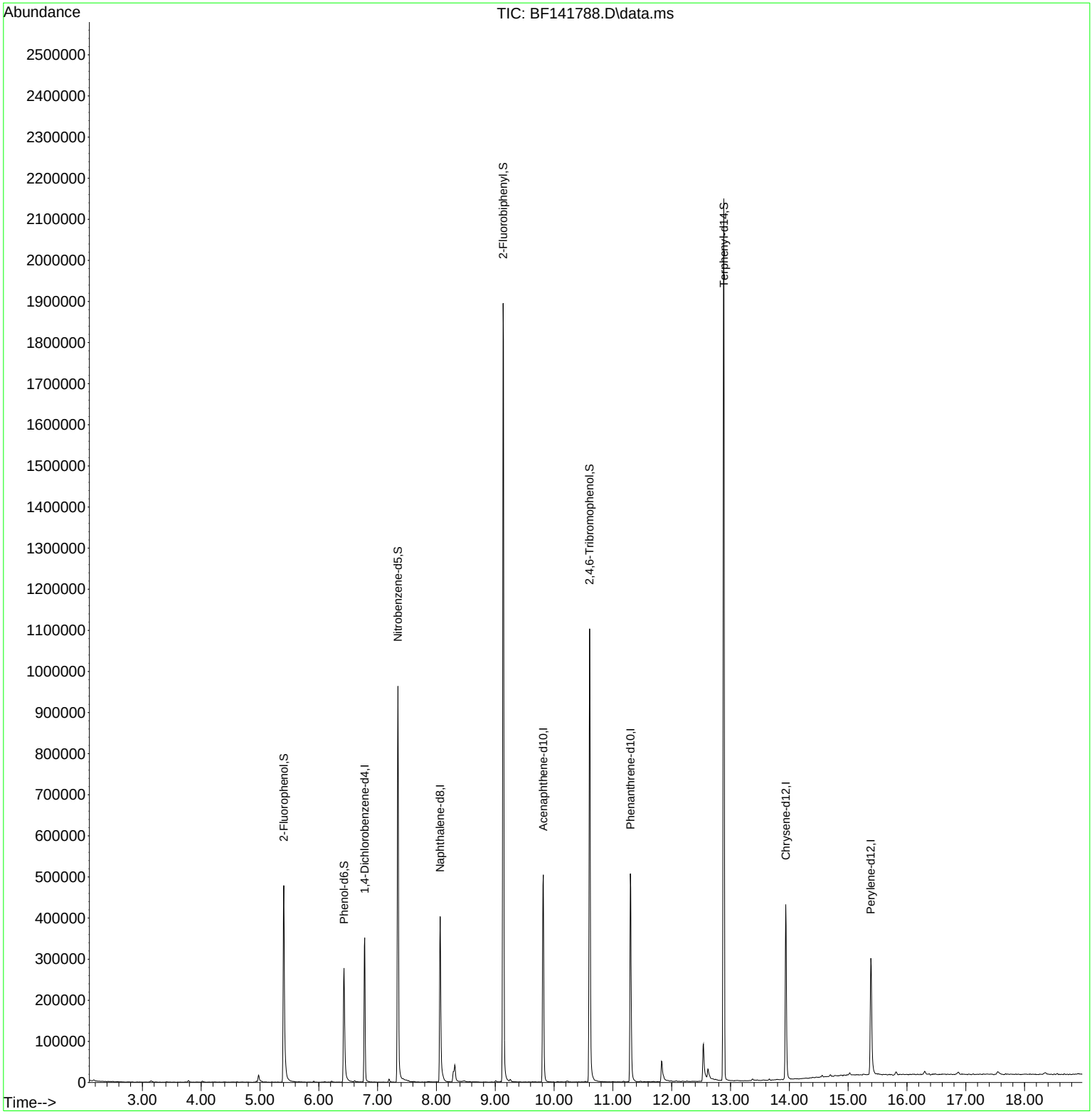
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	78152	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	311819	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	173235	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	306559	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	234571	20.000	ng	-0.02
86) Perylene-d12	15.386	264	196458	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	232019	46.543	ng	0.00
7) Phenol-d6	6.428	99	165420	26.255	ng	-0.01
23) Nitrobenzene-d5	7.345	82	461089	77.127	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	200755	115.362	ng	-0.02
45) 2-Fluorobiphenyl	9.134	172	892377	79.362	ng	-0.02
79) Terphenyl-d14	12.886	244	1101084	79.243	ng	-0.02
Target Compounds						Qvalue

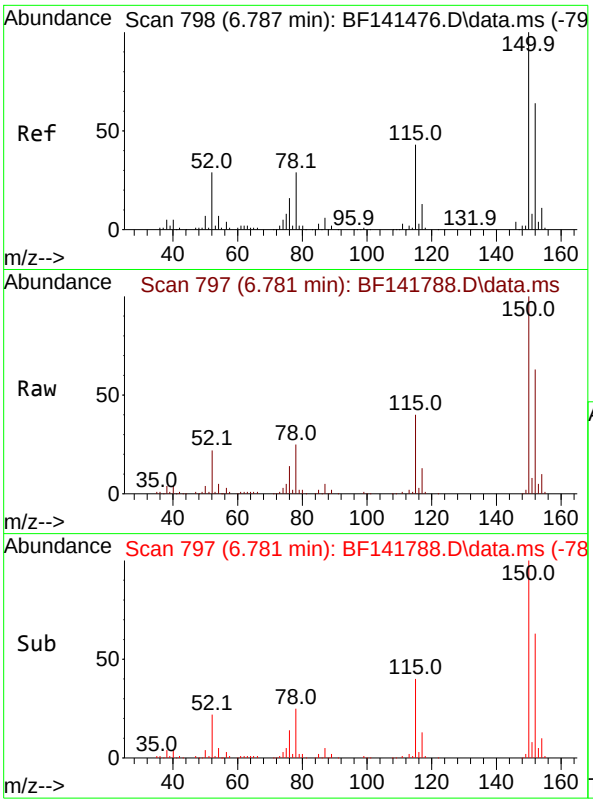
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB02222025

Quant Time: Feb 27 00:05:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



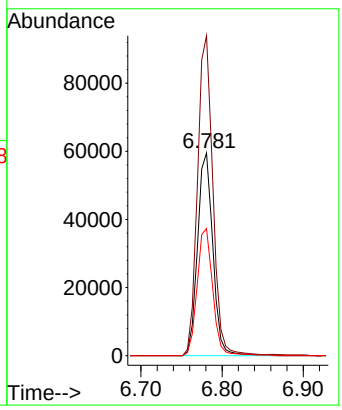


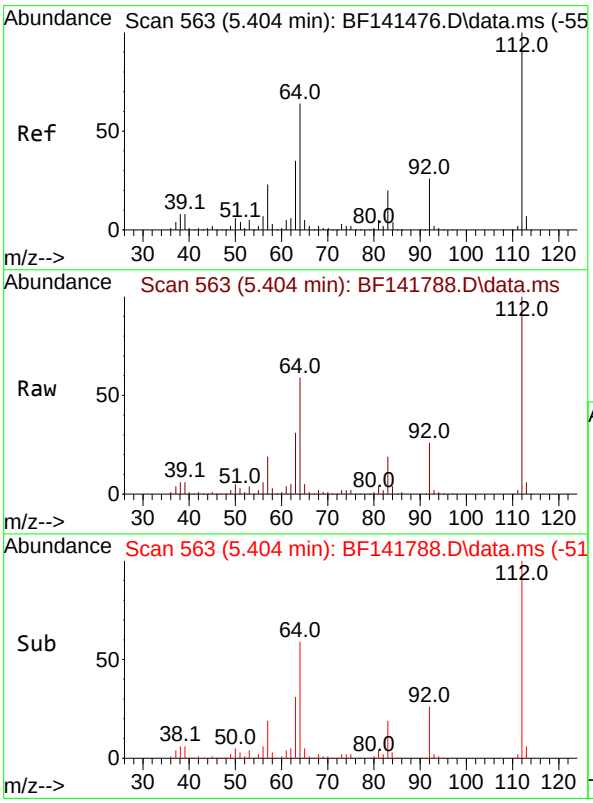
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Instrument :
BNA_F
ClientSampleId :
FB02222025

Tgt Ion:152 Resp: 78152

Ion	Ratio	Lower	Upper
152	100		
150	157.8	125.0	187.4
115	62.7	53.6	80.4

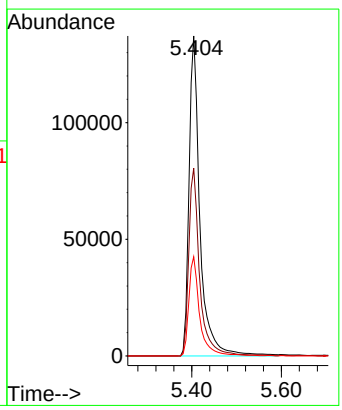


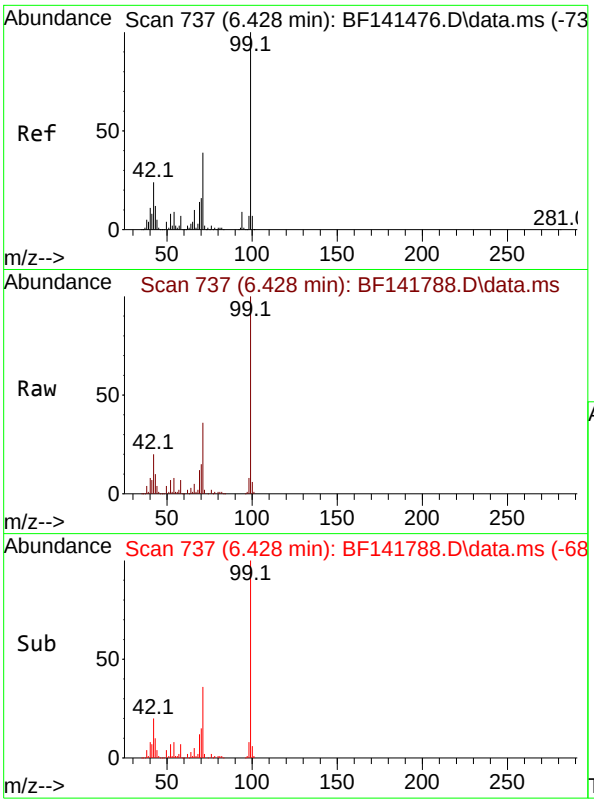


#5
2-Fluorophenol
Concen: 46.543 ng
RT: 5.404 min Scan# 563
Delta R.T. -0.006 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Tgt Ion:112 Resp: 232019

Ion	Ratio	Lower	Upper
112	100		
64	58.7	51.1	76.7
63	31.0	28.4	42.6



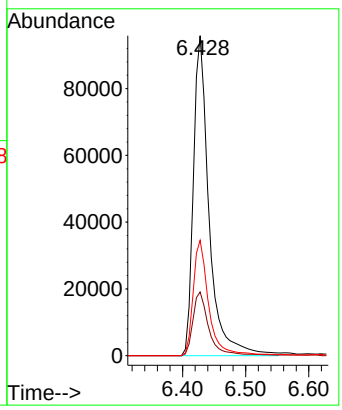


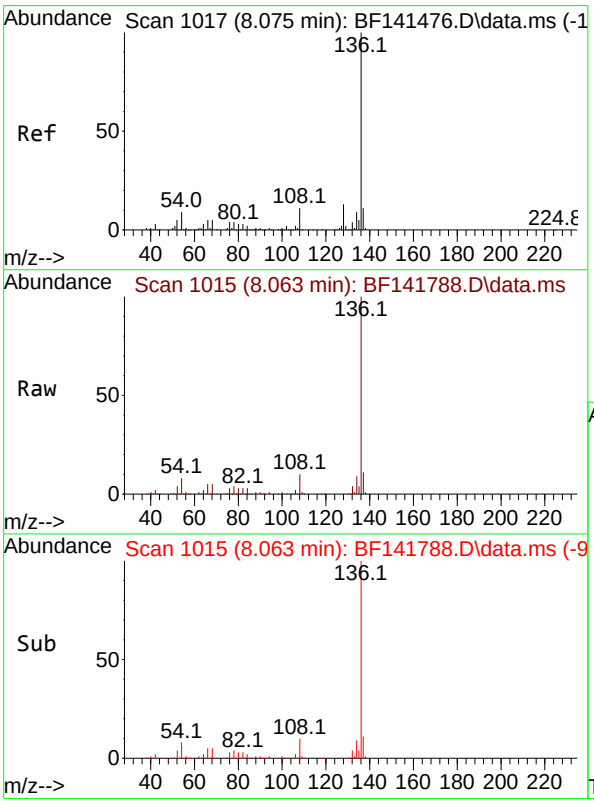
#7
Phenol-d6
Concen: 26.255 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Instrument :
BNA_F
ClientSampleId :
FB02222025

Tgt Ion: 99 Resp: 165420

Ion	Ratio	Lower	Upper
99	100		
42	19.9	19.1	28.7
71	36.1	31.1	46.7

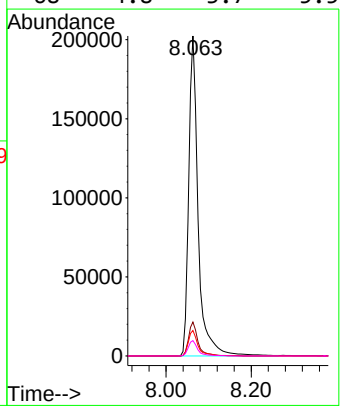


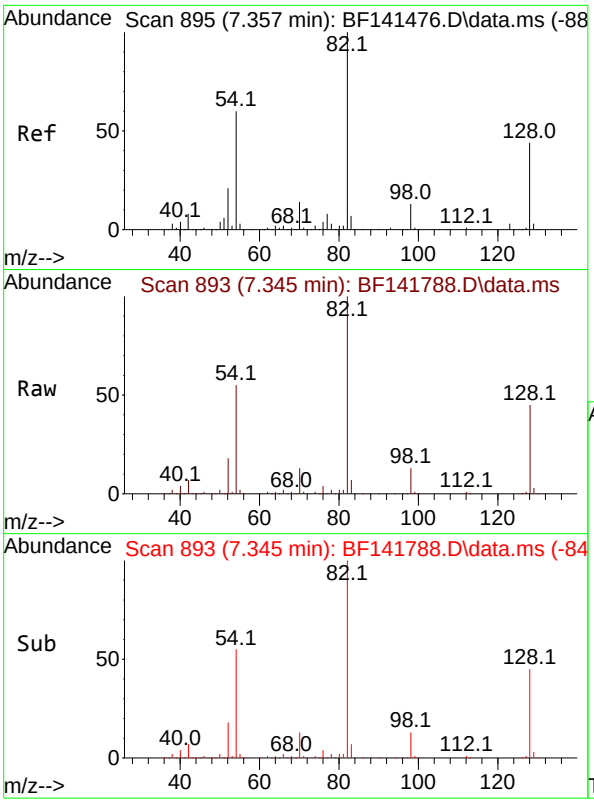


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Tgt Ion:136 Resp: 311819

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.6	13.0
54	7.9	7.2	10.8
68	4.8	3.7	5.5



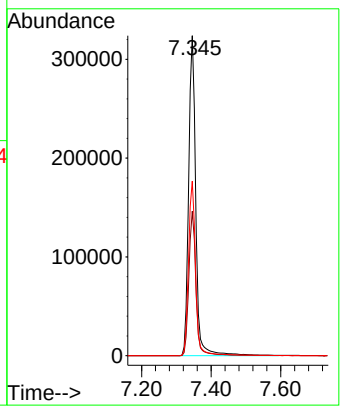


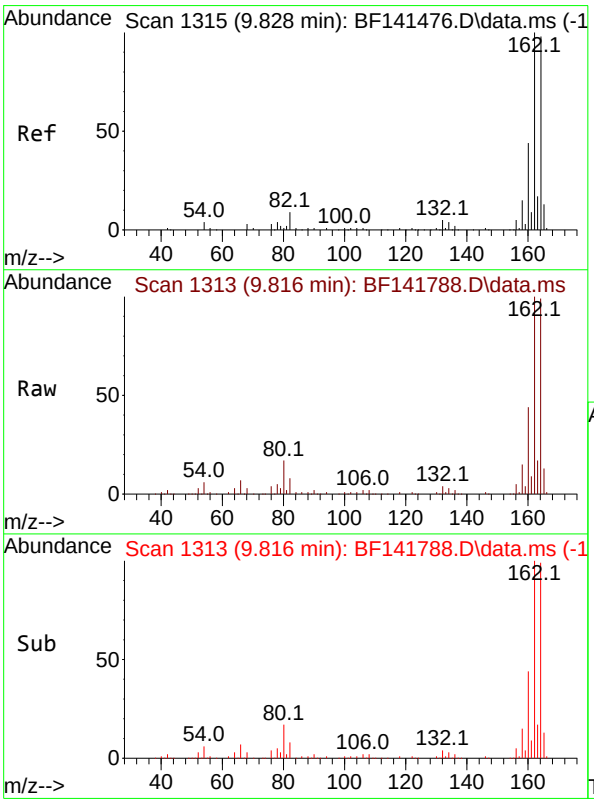
#23
Nitrobenzene-d5
Concen: 77.127 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Instrument :
BNA_F
ClientSampleId :
FB02222025

Tgt Ion: 82 Resp: 461089

Ion	Ratio	Lower	Upper
82	100		
128	45.1	34.8	52.2
54	54.6	48.2	72.4

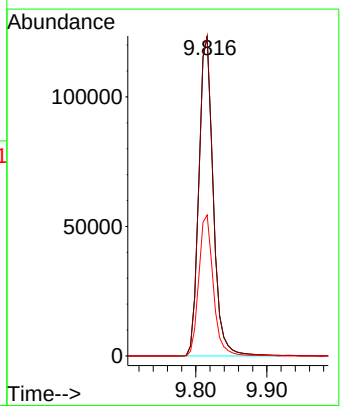


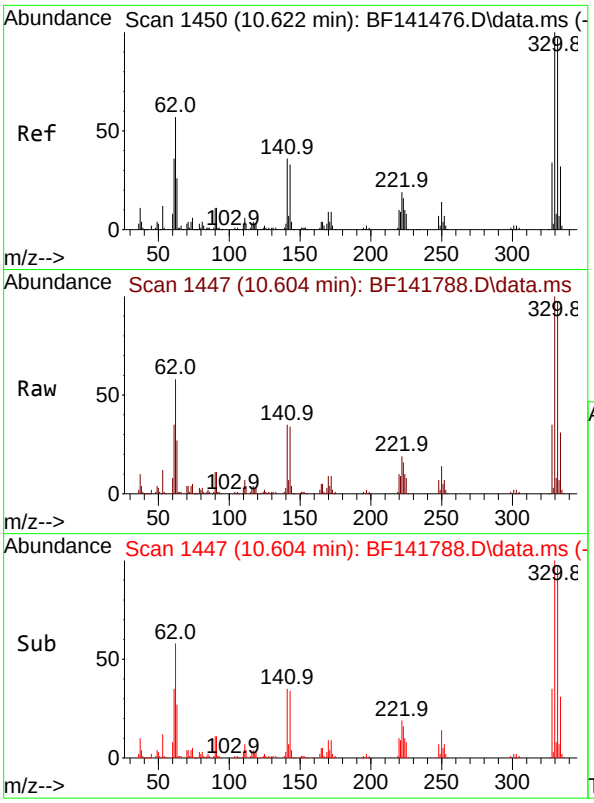


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 1313
Delta R.T. -0.017 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Tgt Ion:164 Resp: 173235

Ion	Ratio	Lower	Upper
164	100		
162	100.6	81.3	121.9
160	44.3	35.9	53.9



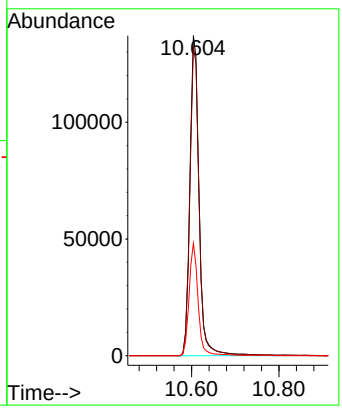


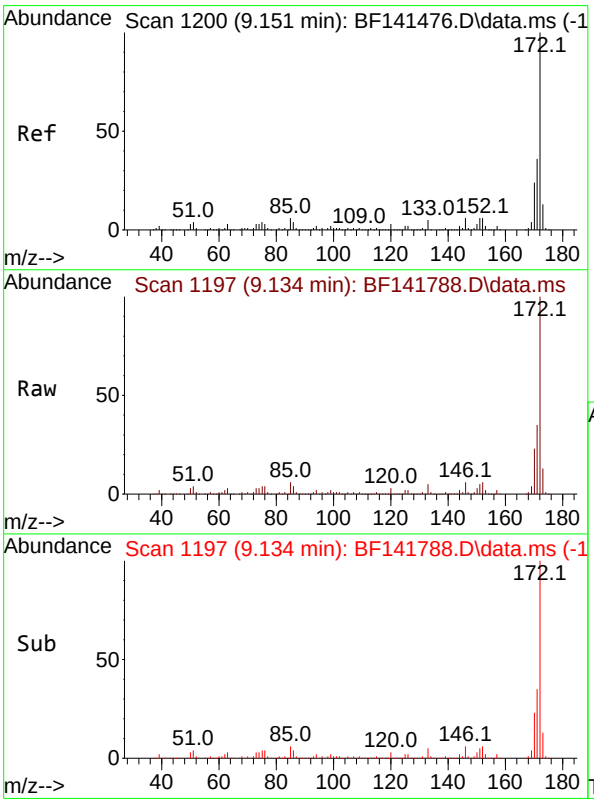
#42
2,4,6-Tribromophenol
Concen: 115.362 ng
RT: 10.604 min Scan# 14
Delta R.T. -0.023 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Instrument :
BNA_F
ClientSampleId :
FB02222025

Tgt Ion:330 Resp: 200755

Ion	Ratio	Lower	Upper
330	100		
332	96.7	78.5	117.7
141	34.2	31.0	46.4

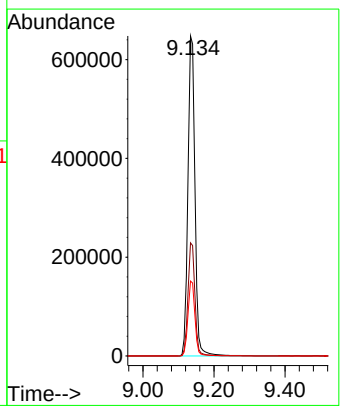


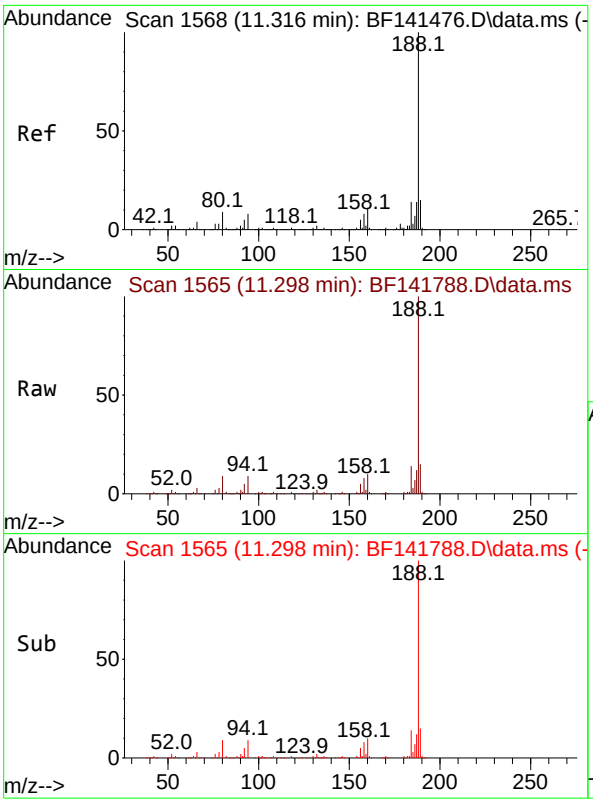


#45
2-Fluorobiphenyl
Concen: 79.362 ng
RT: 9.134 min Scan# 1197
Delta R.T. -0.017 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Tgt Ion:172 Resp: 892377

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.7	43.1
170	23.4	18.9	28.3



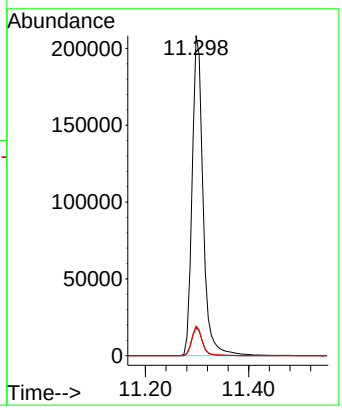


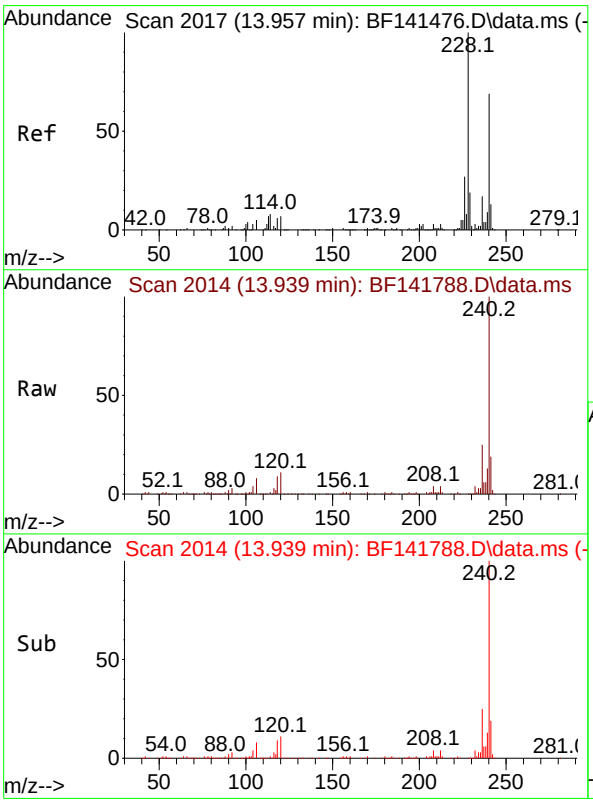
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Instrument :
BNA_F
ClientSampleId :
FB02222025

Tgt Ion:188 Resp: 306559

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.6	10.0
80	9.3	7.3	10.9

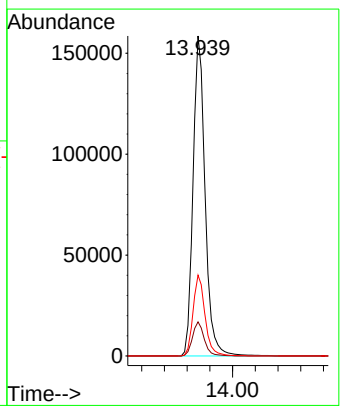


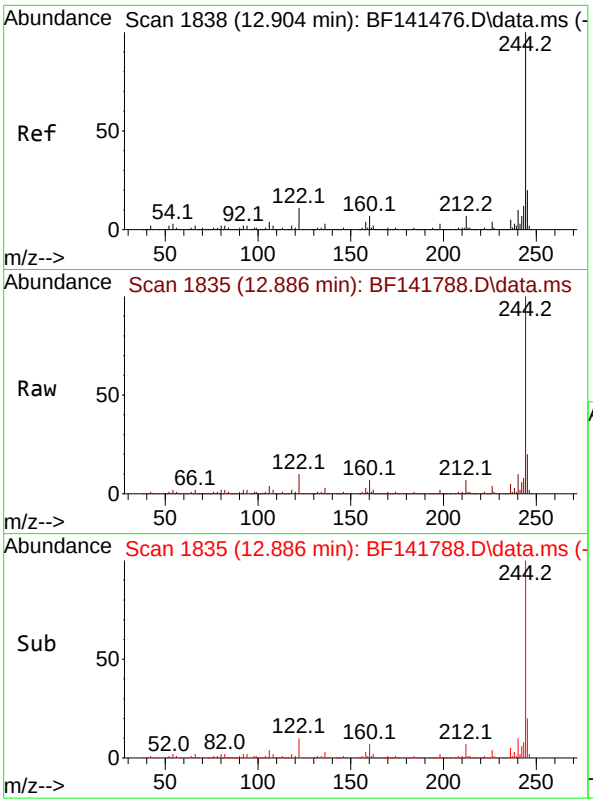


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Tgt Ion:240 Resp: 234571

Ion	Ratio	Lower	Upper
240	100		
120	10.7	8.0	12.0
236	25.3	19.8	29.8



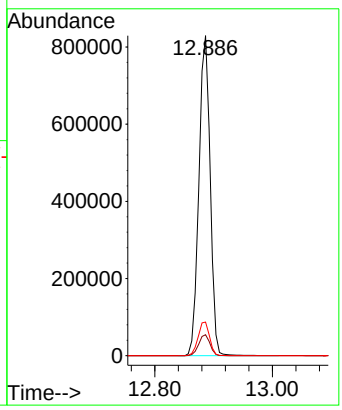


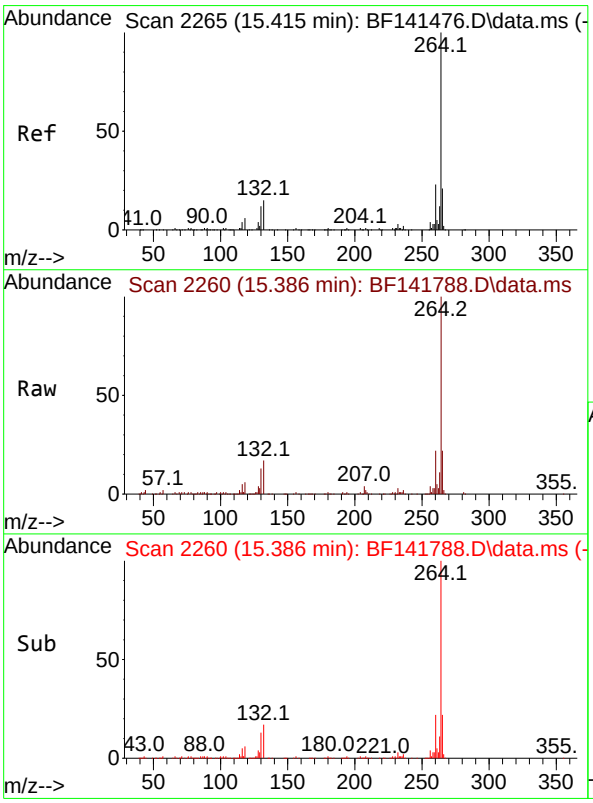
#79
Terphenyl-d14
Concen: 79.243 ng
RT: 12.886 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Instrument :
BNA_F
ClientSampleId :
FB02222025

Tgt Ion:244 Resp: 1101084

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.6	8.4
122	10.5	8.4	12.6

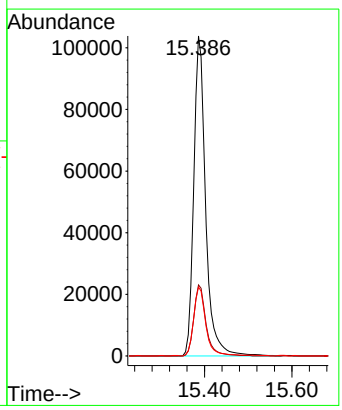




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Tgt Ion:264 Resp: 196458

Ion	Ratio	Lower	Upper
264	100		
260	22.2	18.6	28.0
265	21.5	17.0	25.4



Sample Results: **BF141788.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB02222025

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-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141788.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.975	486	490	505	rVB	16929	33106	1.16%	0.241%
2	5.404	558	563	589	rBV	478236	799345	28.07%	5.831%
3	6.428	732	737	763	rBV	276821	474851	16.67%	3.464%
4	6.781	792	797	814	rBV	350934	462079	16.22%	3.371%
5	7.345	887	893	906	rBV	963157	1338827	47.01%	9.766%
6	8.063	1010	1015	1040	rBV	402458	615736	21.62%	4.491%
7	8.310	1054	1057	1070	rVB	39914	67560	2.37%	0.493%
8	9.134	1192	1197	1214	rBV	1893343	2552022	89.61%	18.615%
9	9.816	1307	1313	1327	rBV	503972	712203	25.01%	5.195%
10	10.604	1441	1447	1463	rBV	1102615	1565766	54.98%	11.421%
11	11.298	1560	1565	1585	rVB	506269	731240	25.68%	5.334%
12	11.828	1650	1655	1678	rBV2	50153	120146	4.22%	0.876%
13	12.539	1770	1776	1785	rBV	90552	177689	6.24%	1.296%
14	12.616	1785	1789	1801	rVB2	25254	56572	1.99%	0.413%
15	12.886	1829	1835	1840	rBV	2144470	2848049	100.00%	20.774%
16	13.939	2006	2014	2029	rBV	426092	630298	22.13%	4.598%
17	15.386	2254	2260	2274	rBV	282525	524004	18.40%	3.822%

Sum of corrected areas: 13709493

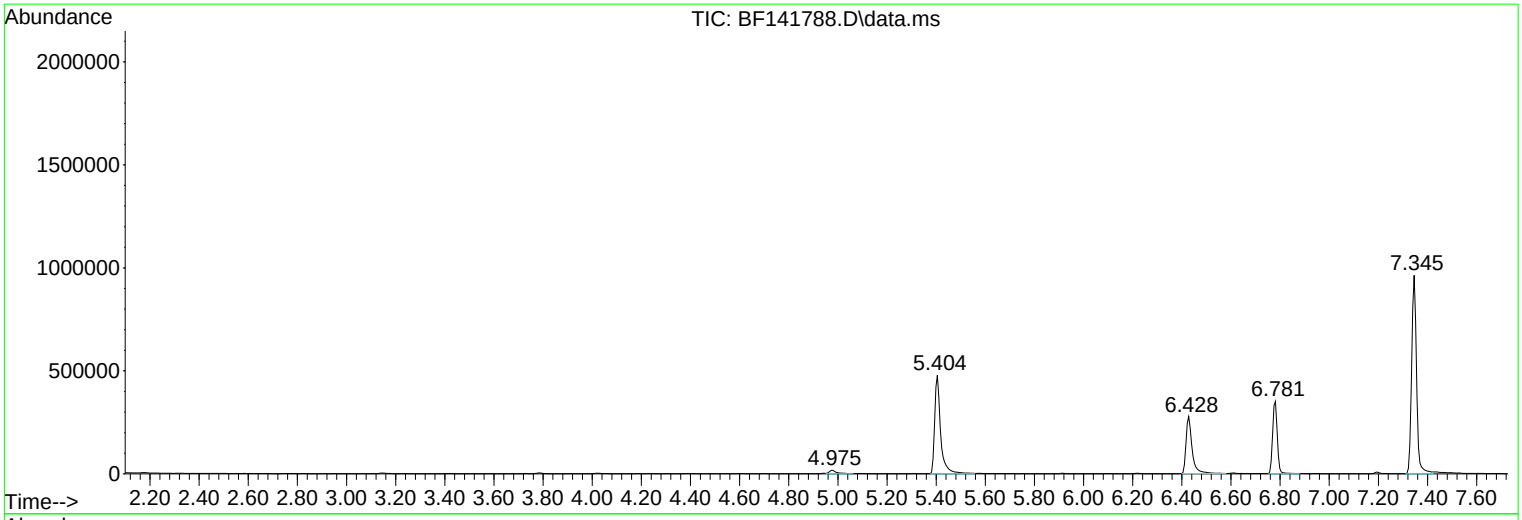
Sample Results: **BF141788.D**

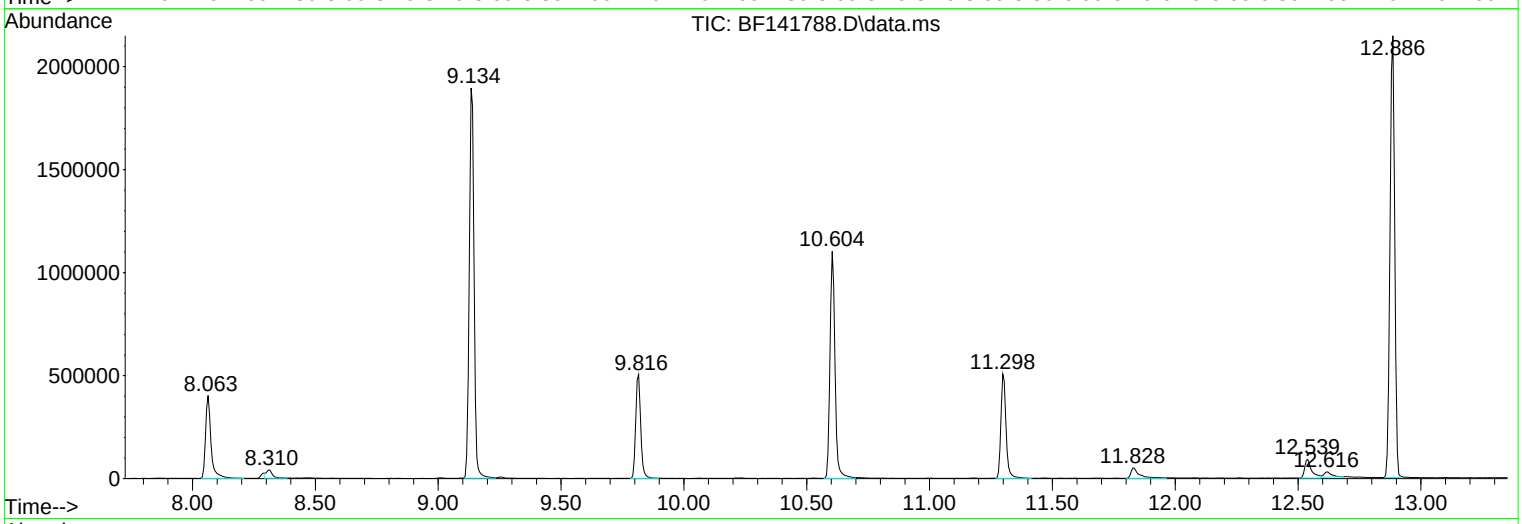
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

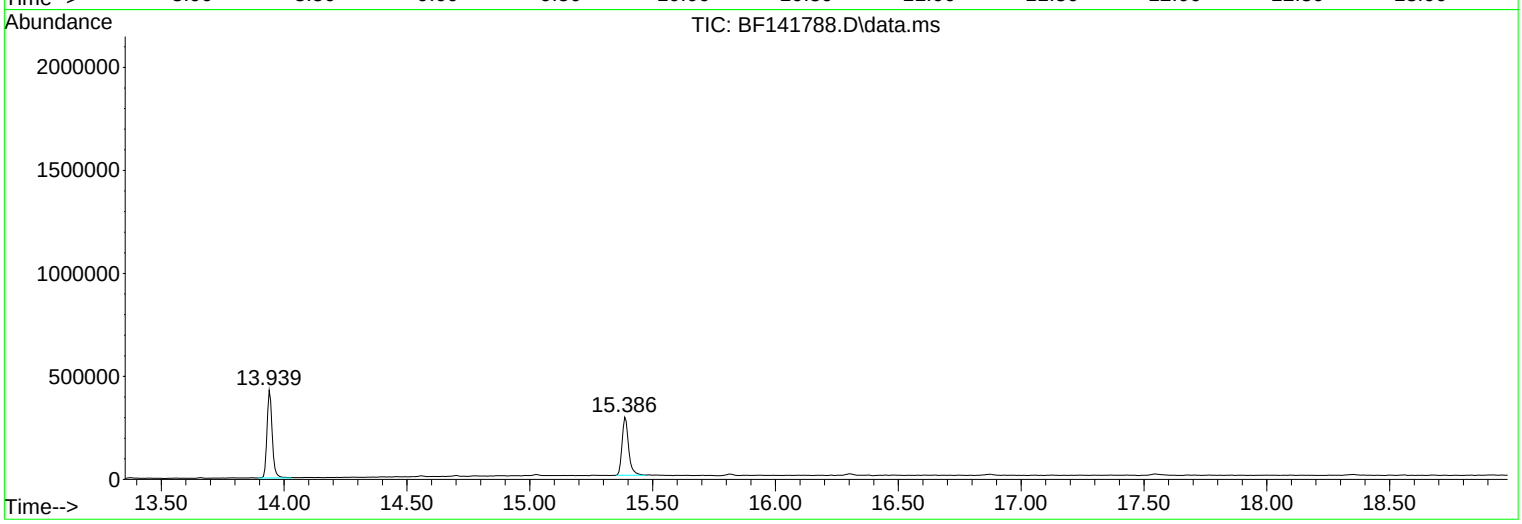
Instrument :
BNA_F
ClientSampleId :
FB02222025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Sample Results: **BF141788.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB02222025

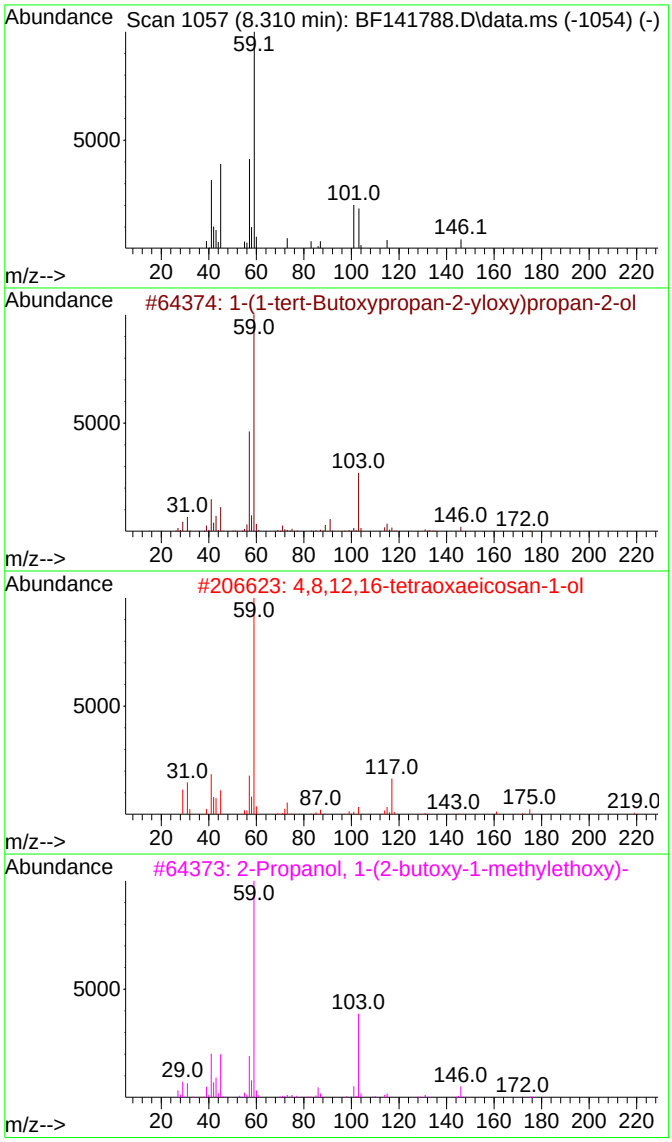
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

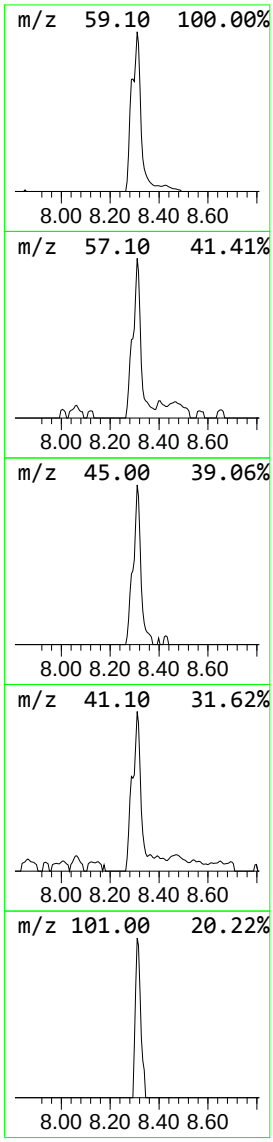
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 1-(1-tert-Butoxypropan-2-yl... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.310	2.19 ng	67560	Naphthalene-d8	8.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-(1-tert-Butoxypropan-2-yloxy)p...	190	C10H22O3	132739-31-2	50
2	4,8,12,16-tetraoxaeicosan-1-ol	306	C16H34O5	1010397-63-6	50
3	2-Propanol, 1-(2-butoxy-1-methyl...	190	C10H22O3	029911-28-2	45
4	Butanamide, 3,3-dimethyl-	115	C6H13NO	000926-04-5	43
5	1-Propanol, 2,2'-oxybis-	134	C6H14O3	000108-61-2	42





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB02222025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

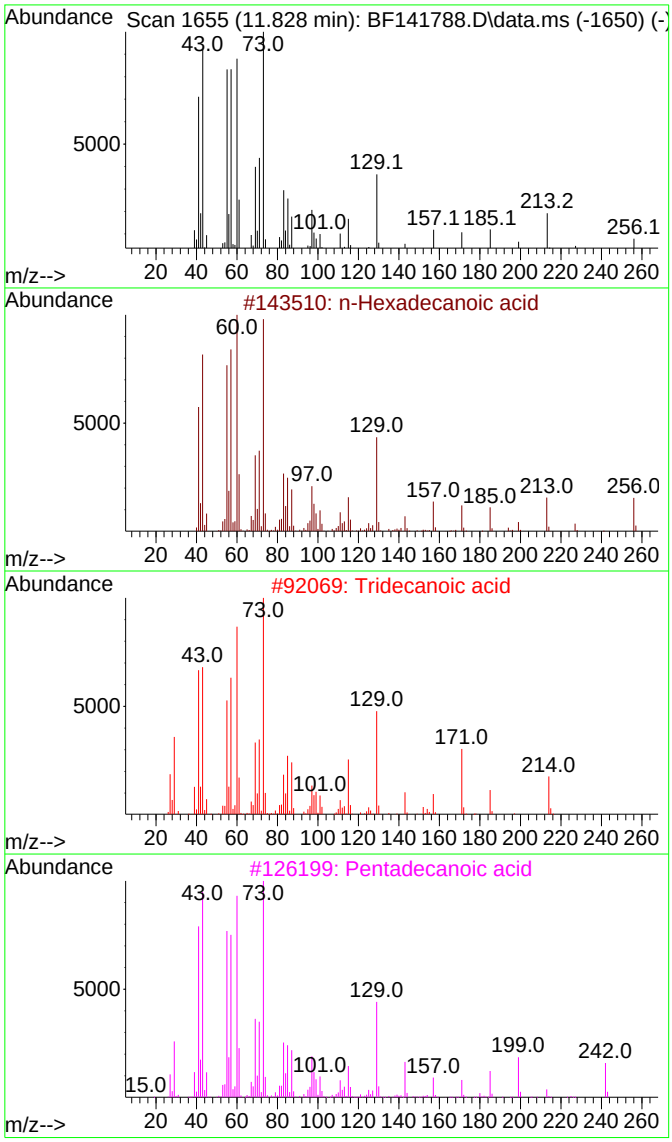
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

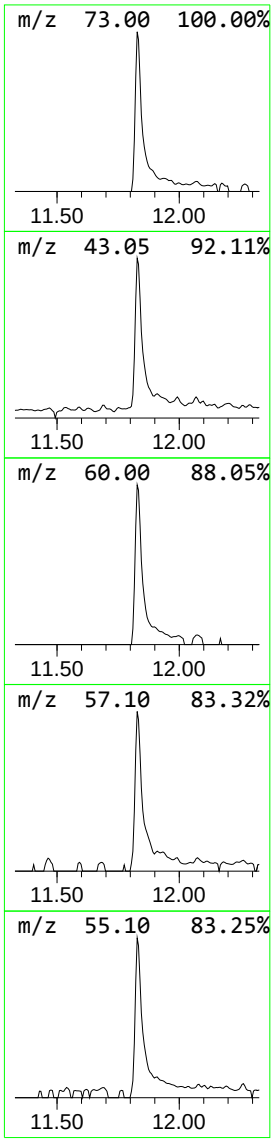
****

Peak Number 2 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.828	3.29 ng	120146	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2	Tridecanoic acid	214	C13H26O2	000638-53-9	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	81
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5	n-Decanoic acid	172	C10H20O2	000334-48-5	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB02222025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

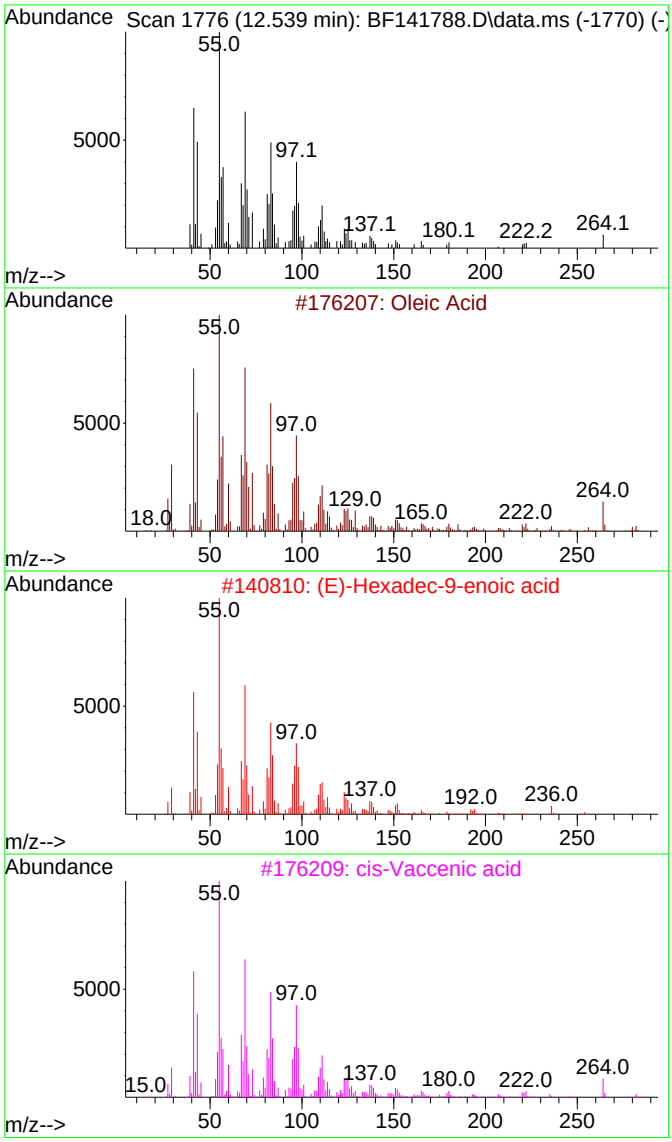
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

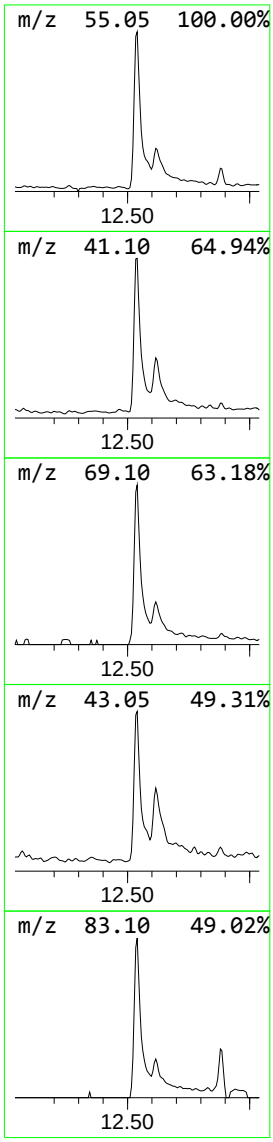
****

Peak Number 3 Oleic Acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.539	4.86 ng	177689	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oleic Acid	282	C18H34O2	000112-80-1	91
2	(E)-Hexadec-9-enoic acid	254	C16H30O2	010030-73-6	90
3	cis-Vaccenic acid	282	C18H34O2	000506-17-2	90
4	trans-13-Octadecenoic acid	282	C18H34O2	000693-71-0	87
5	14-Pentadecenoic acid	240	C15H28O2	017351-34-7	86





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB02222025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.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
1-(1-tert-Butox...	8.310	2.2	ng	67560	2	8.063	615736	20.0
n-Hexadecanoic ...	11.828	3.3	ng	120146	4	11.298	731240	20.0
Oleic Acid	12.539	4.9	ng	177689	4	11.298	731240	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Quant Time: Feb 26 17:55:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

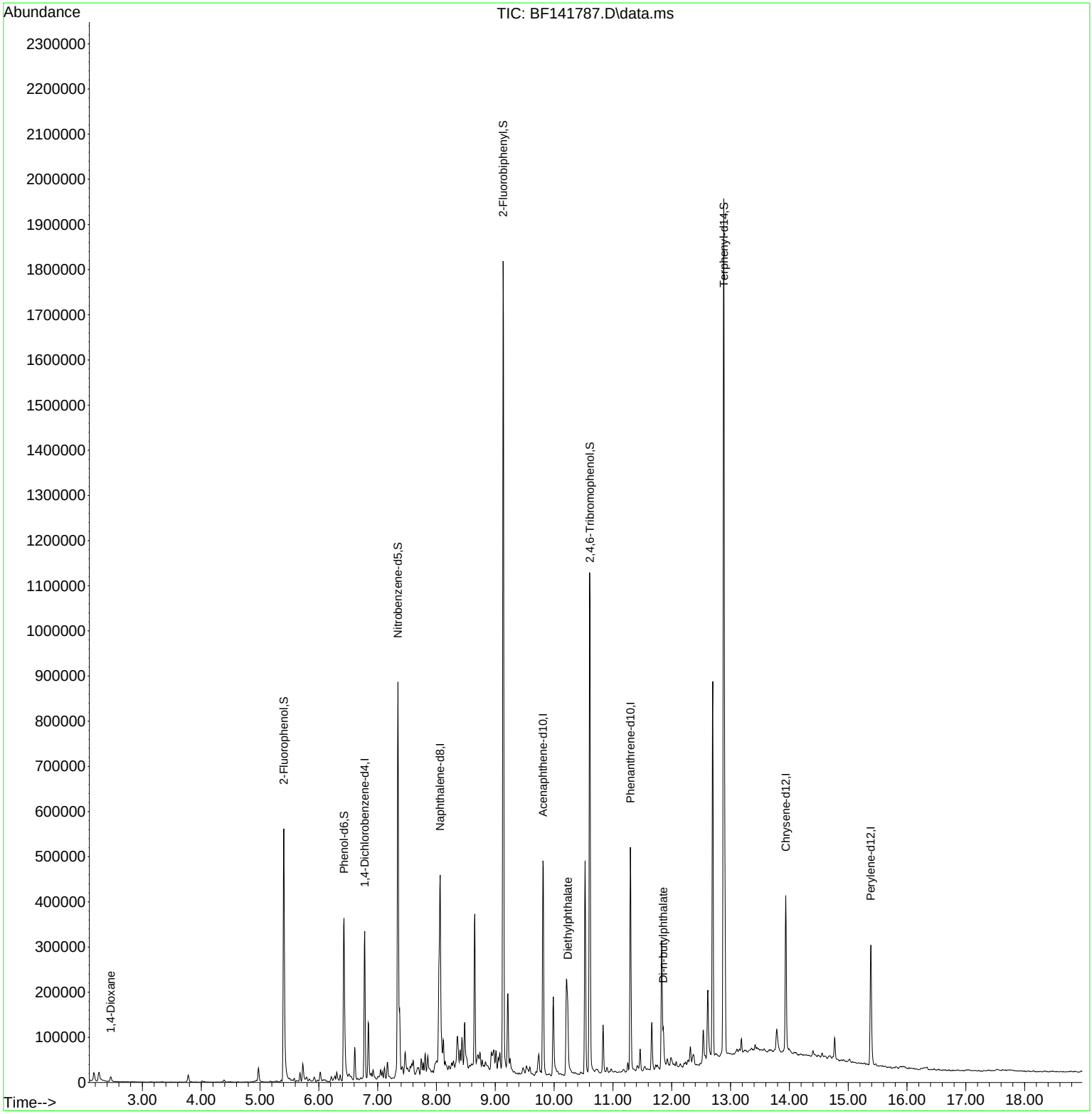
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	70131	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	281804	20.000	ng	-0.01
39) Acenaphthene-d10	9.810	164	154242	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	262674	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	181385	20.000	ng	-0.02
86) Perylene-d12	15.386	264	166658	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	256729	57.390	ng	0.00
7) Phenol-d6	6.428	99	210736	37.272	ng	-0.01
23) Nitrobenzene-d5	7.345	82	400696	74.164	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	188302	121.530	ng	-0.02
45) 2-Fluorobiphenyl	9.134	172	807667	80.674	ng	-0.02
79) Terphenyl-d14	12.886	244	947562	88.191	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	2.463	88	6291	3.494	ng	99
60) Diethylphthalate	10.233	149	50289	4.881	ng	100
74) Di-n-butylphthalate	11.857	149	42344	2.804	ng	100

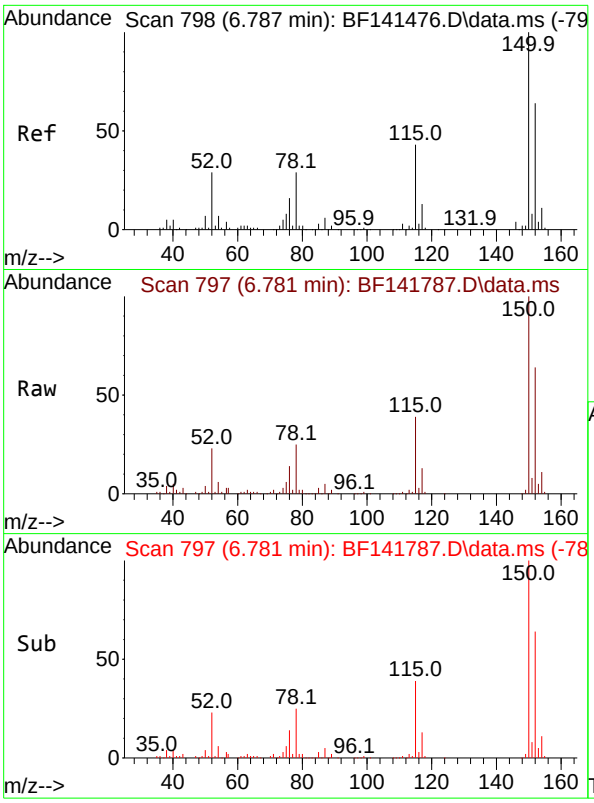
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Quant Time: Feb 26 17:55:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



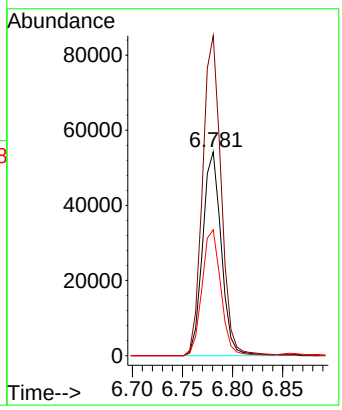


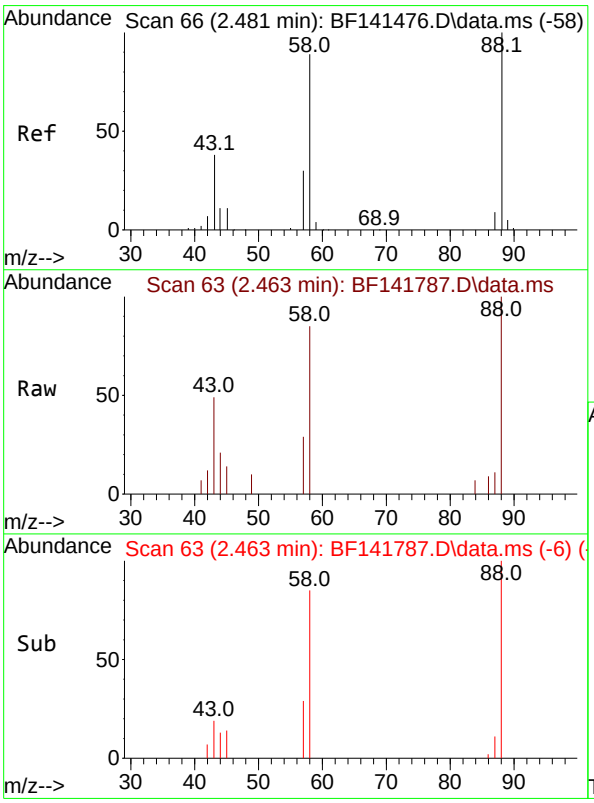
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Tgt Ion:152 Resp: 70131

Ion	Ratio	Lower	Upper
152	100		
150	157.0	125.0	187.4
115	61.8	53.6	80.4

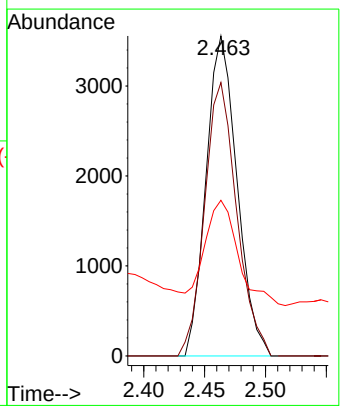


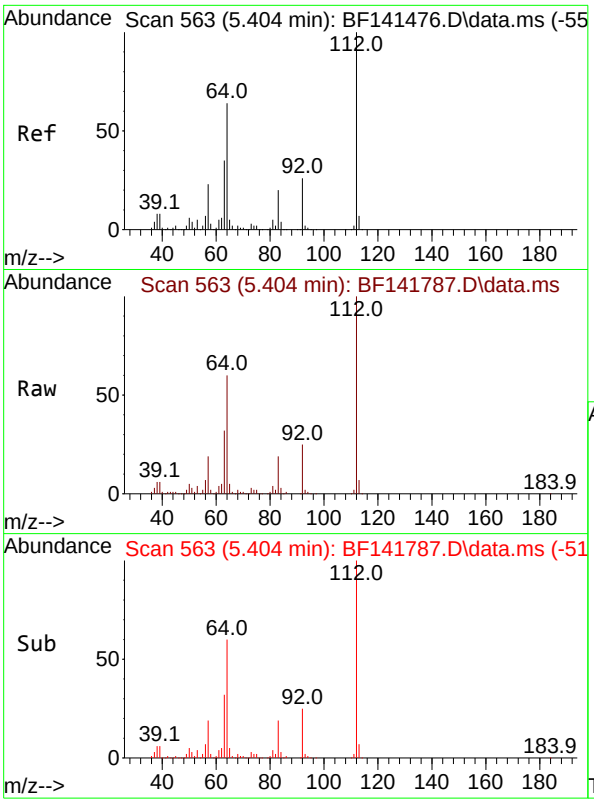


#2
1,4-Dioxane
Concen: 3.494 ng
RT: 2.463 min Scan# 63
Delta R.T. -0.018 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Tgt Ion: 88 Resp: 6291

Ion	Ratio	Lower	Upper
88	100		
58	88.7	71.1	106.7
43	35.7	30.6	46.0



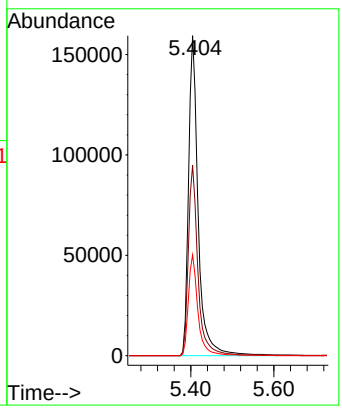


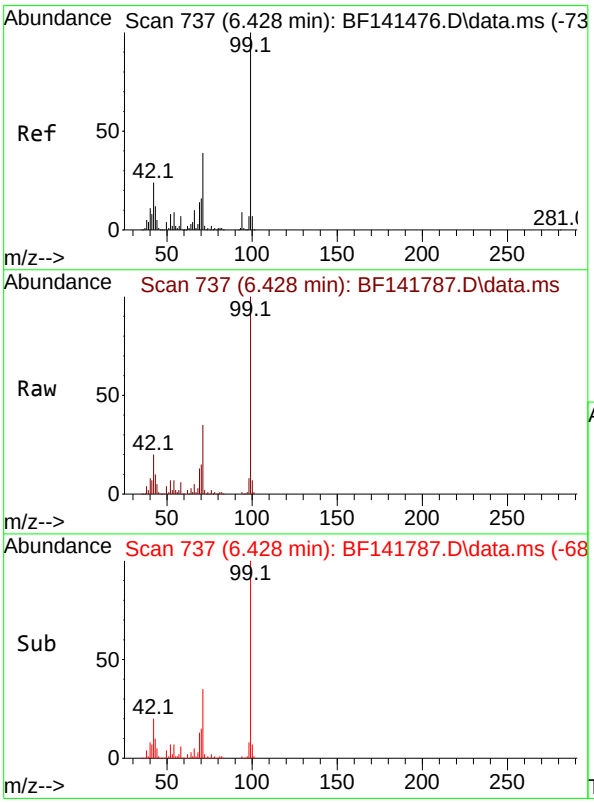
#5
2-Fluorophenol
Concen: 57.390 ng
RT: 5.404 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Tgt Ion:112 Resp: 256729

Ion	Ratio	Lower	Upper
112	100		
64	59.6	51.1	76.7
63	31.5	28.4	42.6

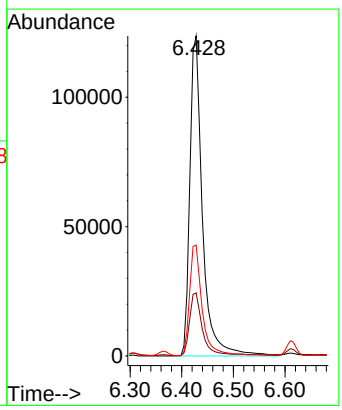


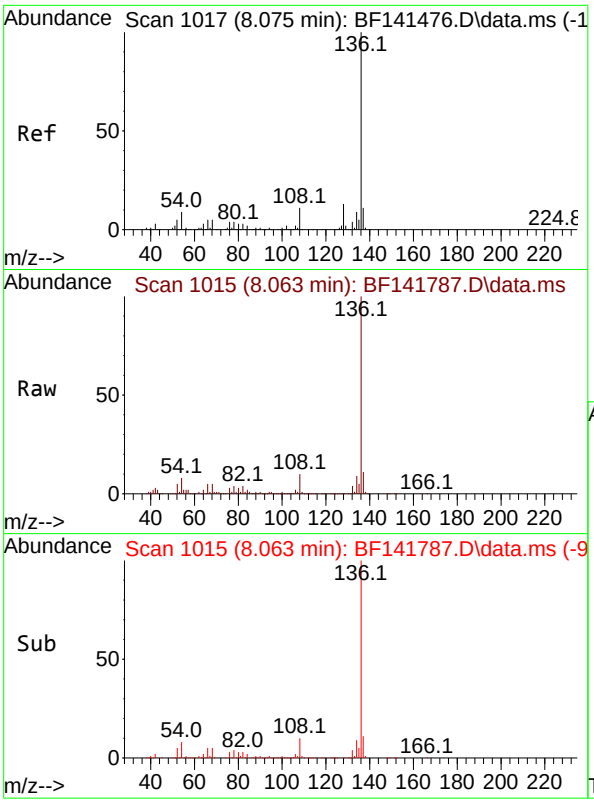


#7
Phenol-d6
Concen: 37.272 ng
RT: 6.428 min Scan# 737
Delta R.T. -0.012 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Tgt Ion: 99 Resp: 210736

Ion	Ratio	Lower	Upper
99	100		
42	19.7	19.1	28.7
71	34.7	31.1	46.7



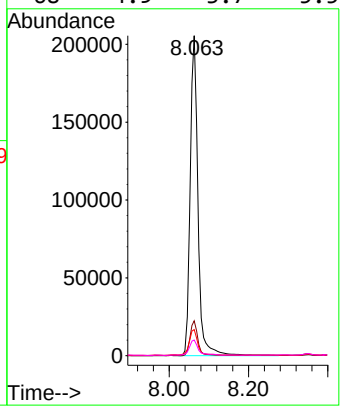


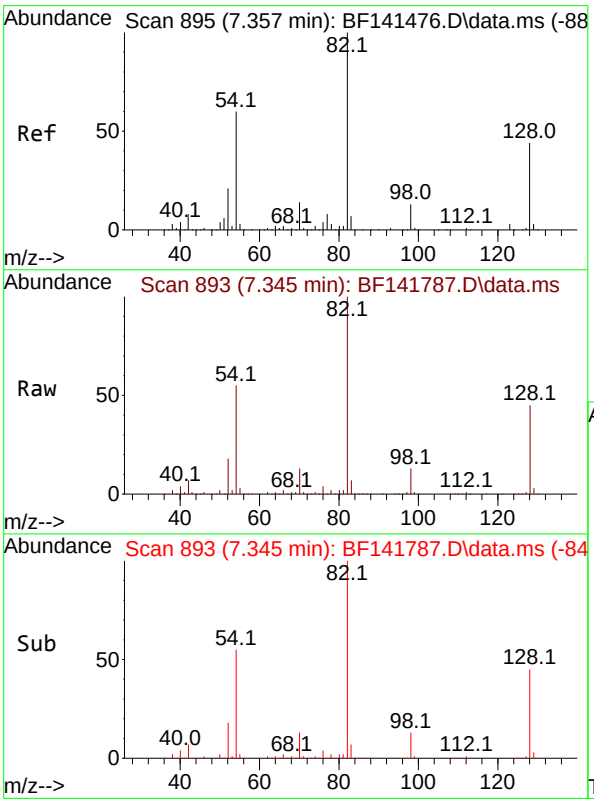
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Tgt Ion:136 Resp: 281804

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.2	7.2	10.8
68	4.9	3.7	5.5

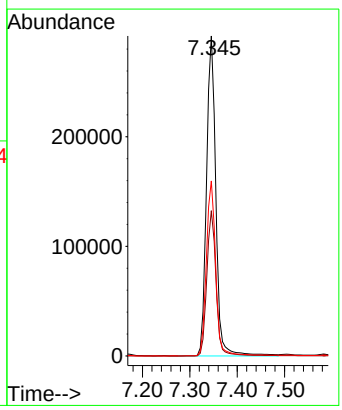


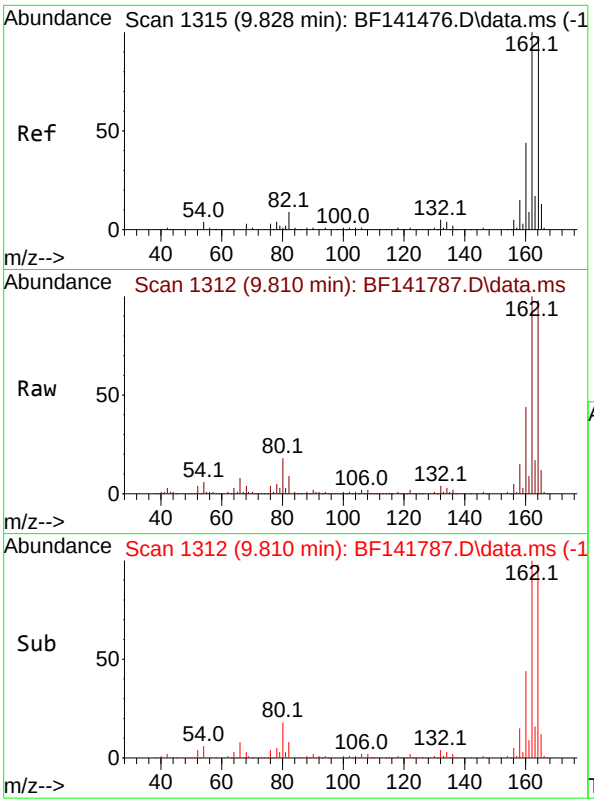


#23
Nitrobenzene-d5
Concen: 74.164 ng
RT: 7.345 min Scan# 893
Delta R.T. -0.018 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Tgt Ion: 82 Resp: 400696

Ion	Ratio	Lower	Upper
82	100		
128	45.4	34.8	52.2
54	54.7	48.2	72.4



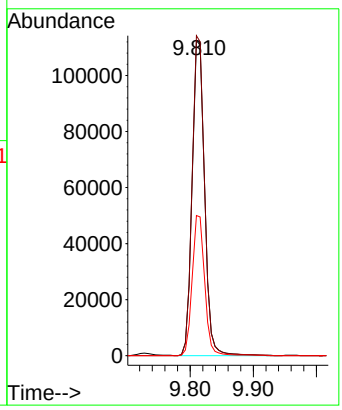


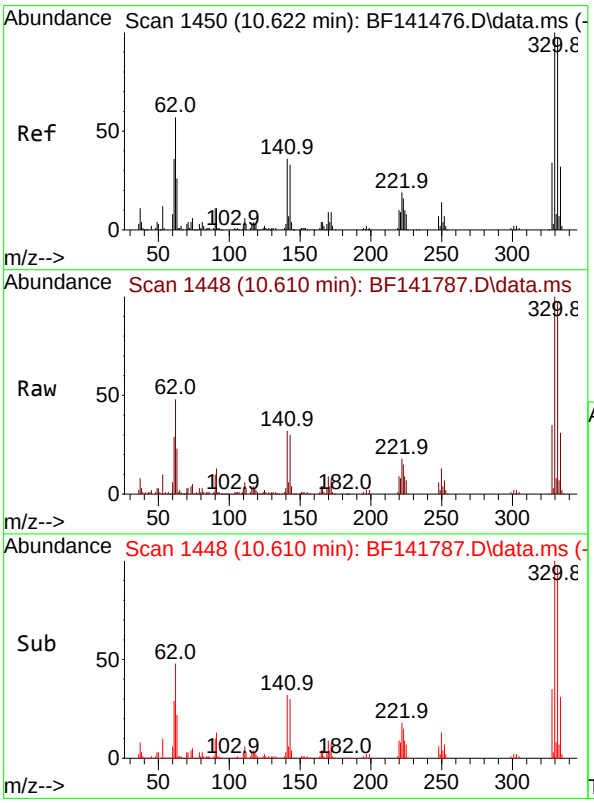
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.810 min Scan# 1
Delta R.T. -0.023 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Tgt Ion:164 Resp: 154242

Ion	Ratio	Lower	Upper
164	100		
162	101.6	81.3	121.9
160	44.5	35.9	53.9

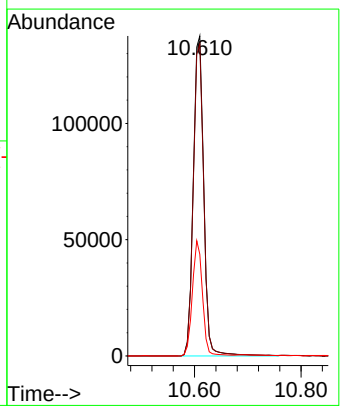


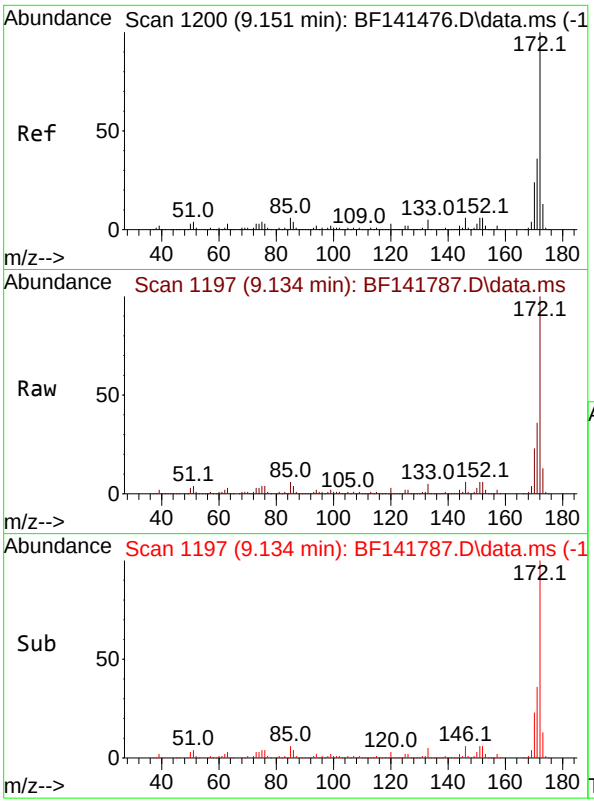


#42
2,4,6-Tribromophenol
Concen: 121.530 ng
RT: 10.610 min Scan# 1448
Delta R.T. -0.017 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Tgt Ion:330 Resp: 188302

Ion	Ratio	Lower	Upper
330	100		
332	97.7	78.5	117.7
141	34.8	31.0	46.4



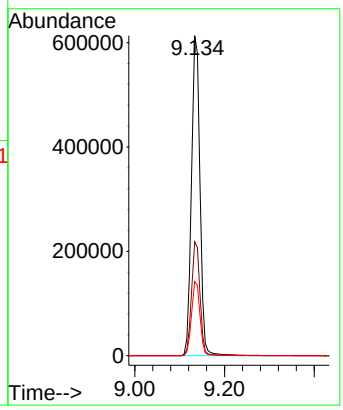


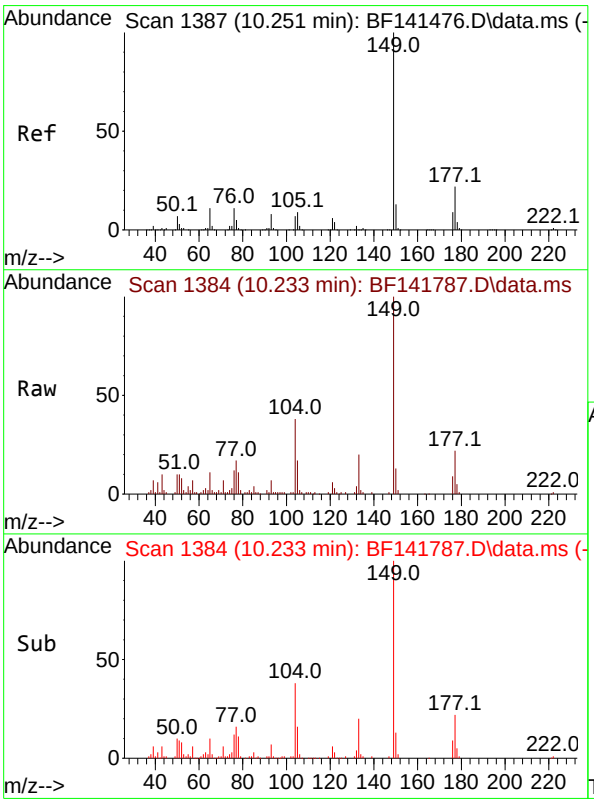
#45
2-Fluorobiphenyl
Concen: 80.674 ng
RT: 9.134 min Scan# 11
Delta R.T. -0.017 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Tgt Ion:172 Resp: 807667

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.7	43.1
170	23.2	18.9	28.3

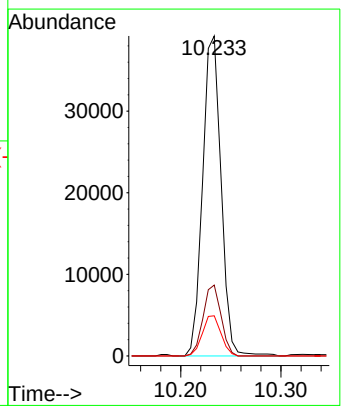


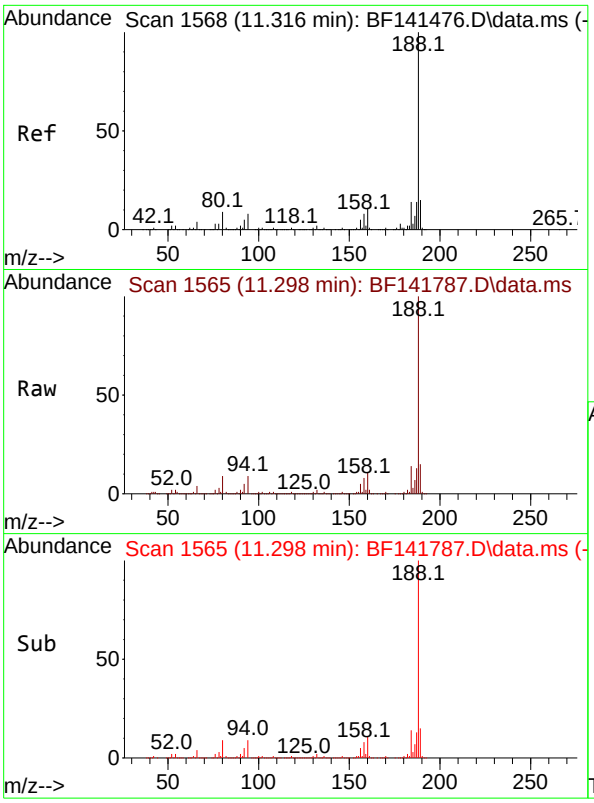


#60
Diethylphthalate
Concen: 4.881 ng
RT: 10.233 min Scan# 1384
Delta R.T. -0.023 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Tgt Ion:149 Resp: 50289

Ion	Ratio	Lower	Upper
149	100		
177	22.2	17.8	26.6
150	12.6	10.1	15.1



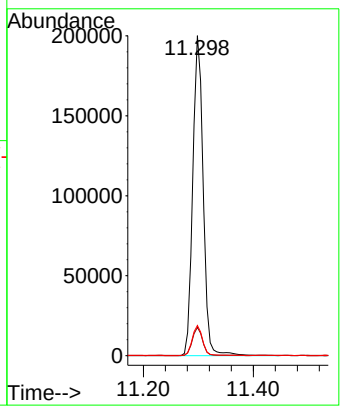


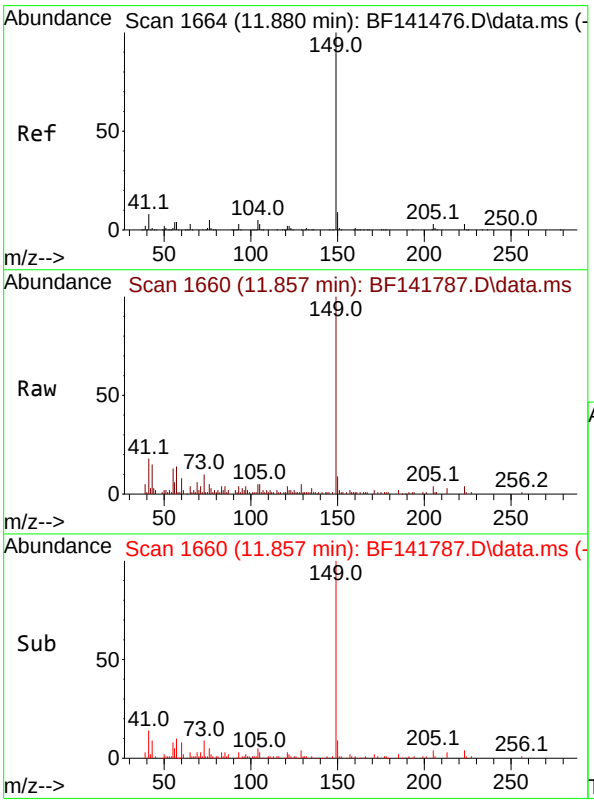
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Tgt Ion:188 Resp: 262674

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	9.4	7.3	10.9

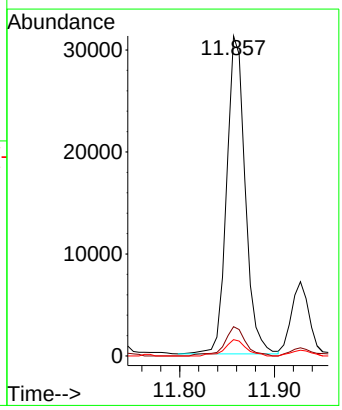


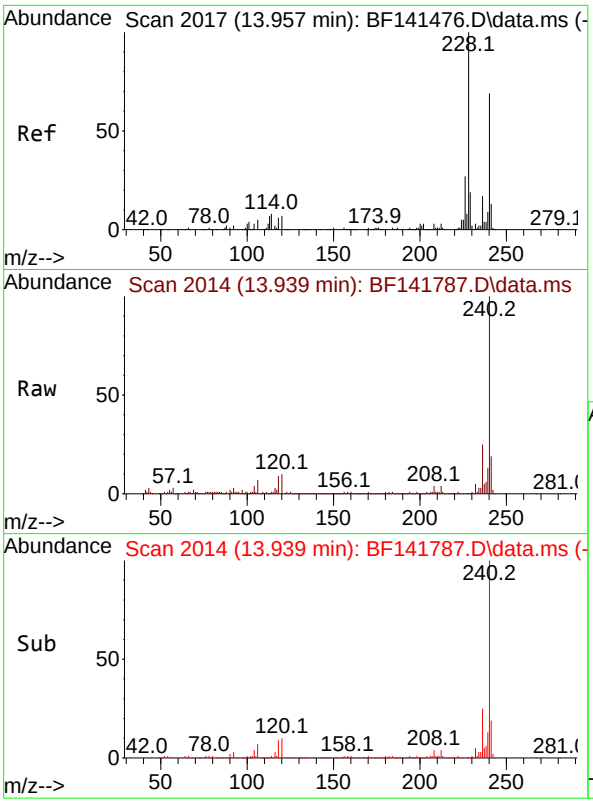


#74
Di-n-butylphthalate
Concen: 2.804 ng
RT: 11.857 min Scan# 1660
Delta R.T. -0.023 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Tgt Ion:149 Resp: 42344

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	5.1	4.2	6.2



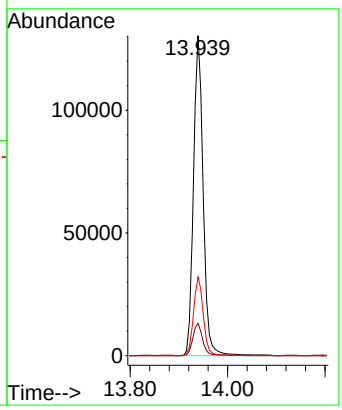


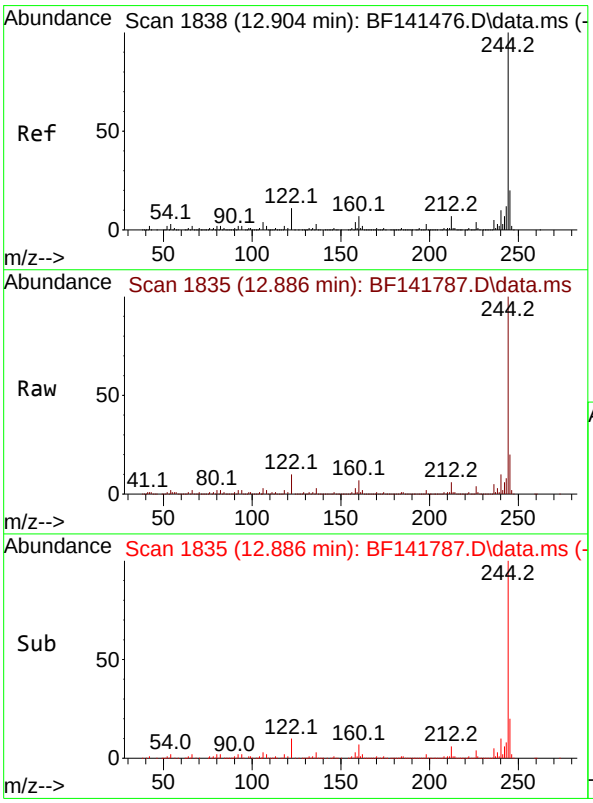
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Tgt Ion:240 Resp: 181385

Ion	Ratio	Lower	Upper
240	100		
120	10.1	8.0	12.0
236	24.5	19.8	29.8

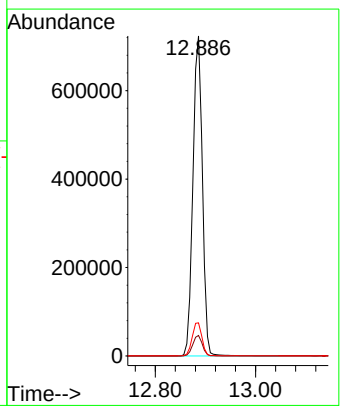


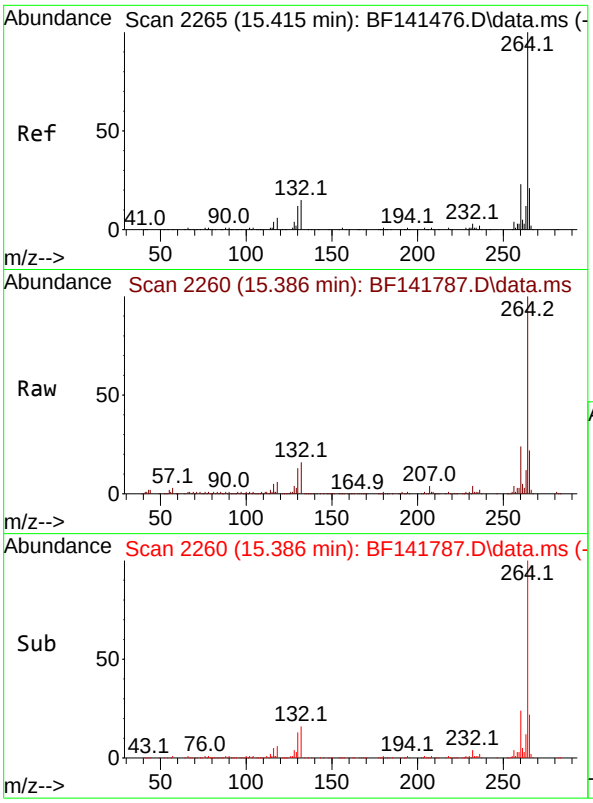


#79
Terphenyl-d14
Concen: 88.191 ng
RT: 12.886 min Scan# 1835
Delta R.T. -0.018 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Tgt Ion:244 Resp: 947562

Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.6	8.4
122	10.4	8.4	12.6



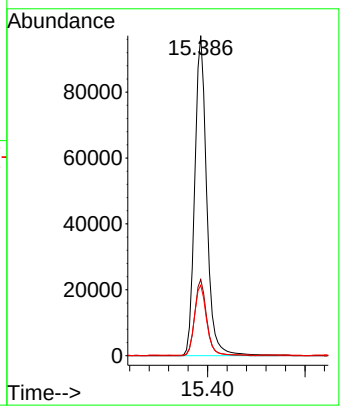


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2
Delta R.T. -0.029 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Tgt Ion:264 Resp: 166658

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.6	28.0
265	22.0	17.0	25.4



Sample Results: **BF141787.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

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-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141787.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.175	9	14	23	rVB	18075	30894	1.06%	0.158%
2	2.263	23	29	46	rBV	18835	44840	1.54%	0.229%
3	4.975	486	490	501	rVB	30704	47552	1.63%	0.243%
4	5.404	558	563	578	rBV	558883	879045	30.19%	4.486%
5	5.728	614	618	625	rBV	38331	63864	2.19%	0.326%
6	6.022	664	668	674	rBV	19817	30006	1.03%	0.153%
7	6.428	732	737	748	rBV	359483	615873	21.15%	3.143%
8	6.610	764	768	774	rBV	71973	94784	3.25%	0.484%
9	6.781	789	797	802	rBV	326548	426482	14.64%	2.176%
10	6.840	802	807	813	rBV	122331	169520	5.82%	0.865%
11	7.169	858	863	874	rVB2	36150	61645	2.12%	0.315%
12	7.345	882	893	897	rBV	876611	1243225	42.69%	6.344%
13	7.469	909	914	919	rBV2	47157	84189	2.89%	0.430%
14	7.604	934	937	943	rVB2	30780	45347	1.56%	0.231%
15	7.739	956	960	963	rBV	33600	47099	1.62%	0.240%
16	7.810	968	972	975	rVB3	38487	45202	1.55%	0.231%
17	7.851	975	979	983	rBV2	33564	44423	1.53%	0.227%
18	8.004	995	1005	1007	rBV5	25776	75240	2.58%	0.384%
19	8.063	1007	1015	1022	rVV2	425748	895547	30.75%	4.570%
20	8.116	1022	1024	1028	rVB	54787	64289	2.21%	0.328%
21	8.357	1057	1065	1070	rBV4	68071	144734	4.97%	0.739%
22	8.404	1070	1073	1075	rVV2	38372	49101	1.69%	0.251%
23	8.434	1075	1078	1082	rVV	67168	90171	3.10%	0.460%
24	8.481	1082	1086	1096	rVB	101231	183078	6.29%	0.934%
25	8.651	1110	1115	1119	rBV	333454	412546	14.17%	2.105%
26	8.704	1119	1124	1127	rVV4	23393	47990	1.65%	0.245%
27	8.739	1128	1130	1134	rVB	29833	34945	1.20%	0.178%
28	8.934	1159	1163	1166	rBV2	36963	64932	2.23%	0.331%
29	9.010	1173	1176	1180	rVB2	38106	50524	1.73%	0.258%
30	9.051	1180	1183	1185	rVV	24325	29939	1.03%	0.153%
31	9.075	1185	1187	1191	rVV	35790	44810	1.54%	0.229%
32	9.134	1192	1197	1206	rVV	1790856	2332749	80.10%	11.904%
33	9.216	1206	1211	1215	rVV	170701	238575	8.19%	1.217%
34	9.251	1215	1217	1227	rVB3	29453	48297	1.66%	0.246%
35	9.533	1260	1265	1271	rVV3	16727	38515	1.32%	0.197%
36	9.739	1294	1300	1304	rBV2	40863	73229	2.51%	0.374%

Sample Results: **BF141787.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

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-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	9.810	1308	1312	1323	rVB	474408	646496	22.20%	3.299%
38	9.986	1336	1342	1352	rBV	174727	293293	10.07%	1.497%
39	10.210	1375	1380	1397	rBV3	211765	545156	18.72%	2.782%
40	10.528	1429	1434	1442	rBV	471623	610172	20.95%	3.114%
41	10.604	1442	1447	1462	rVV	1106924	1506849	51.74%	7.689%
42	10.833	1481	1486	1494	rBV	104871	135954	4.67%	0.694%
43	11.298	1560	1565	1573	rVV	493344	640740	22.00%	3.270%
44	11.463	1589	1593	1600	rVB	48465	64104	2.20%	0.327%
45	11.663	1622	1627	1634	rBV2	105195	153238	5.26%	0.782%
46	11.827	1650	1655	1668	rBV2	284696	551003	18.92%	2.812%
47	11.986	1679	1682	1689	rVB4	15729	32464	1.11%	0.166%
48	12.316	1735	1738	1742	rVV	32688	42286	1.45%	0.216%
49	12.369	1742	1747	1753	rVB5	22933	50381	1.73%	0.257%
50	12.533	1771	1775	1779	rBV	69657	103121	3.54%	0.526%
51	12.616	1784	1789	1797	rVV	152233	252253	8.66%	1.287%
52	12.698	1798	1803	1808	rVB	827963	1038932	35.68%	5.302%
53	12.886	1829	1835	1846	rVB	1892552	2912141	100.00%	14.860%
54	13.186	1883	1886	1890	rVB2	29439	34228	1.18%	0.175%
55	13.786	1984	1988	2001	rVB	50049	112401	3.86%	0.574%
56	13.939	2009	2014	2022	rVB	340973	464694	15.96%	2.371%
57	14.768	2152	2155	2162	rVB	47082	64364	2.21%	0.328%
58	15.386	2254	2260	2271	rBV	265227	449071	15.42%	2.292%

Sum of corrected areas: 19596542

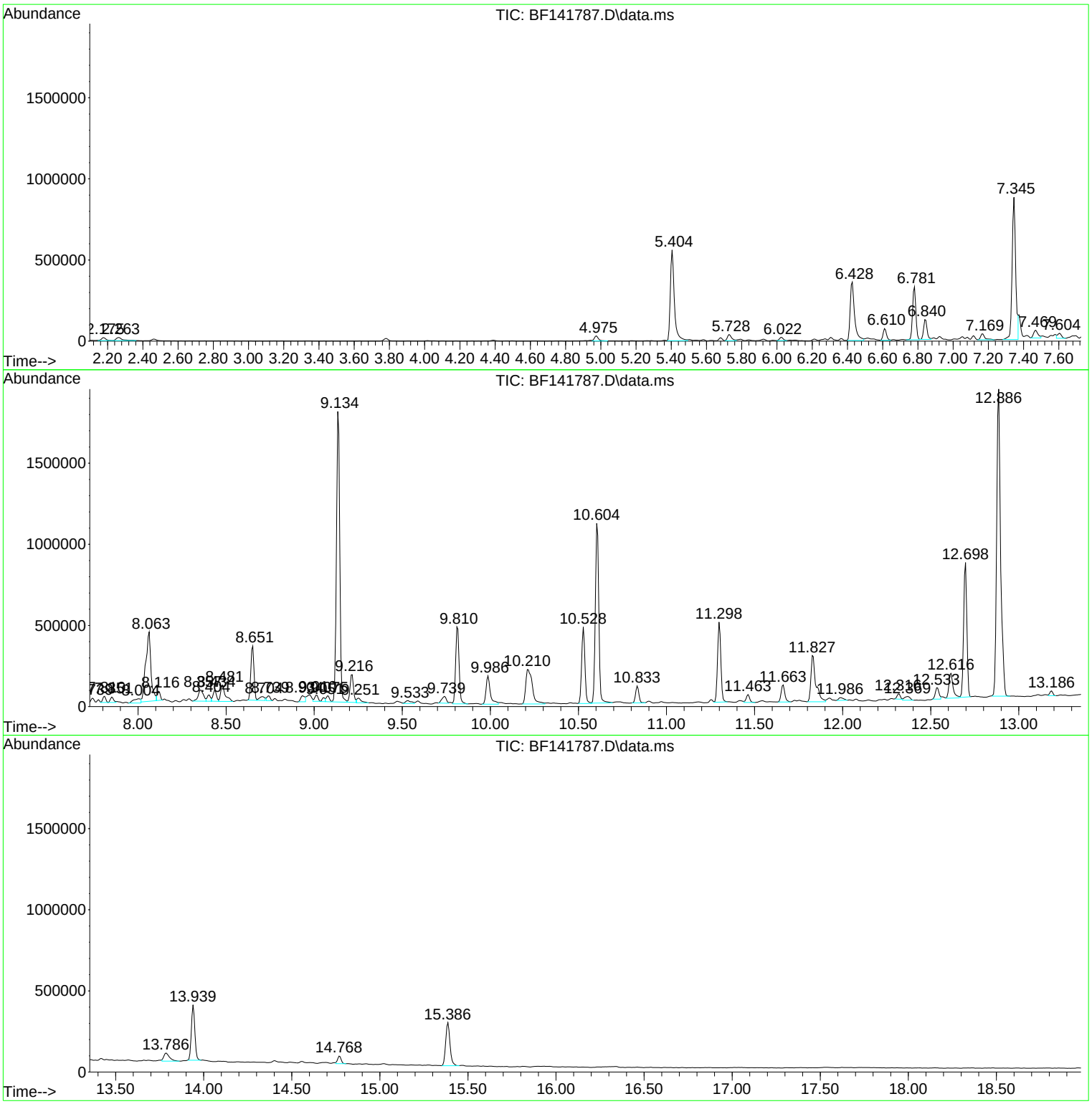
Sample Results: **BF141787.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.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\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

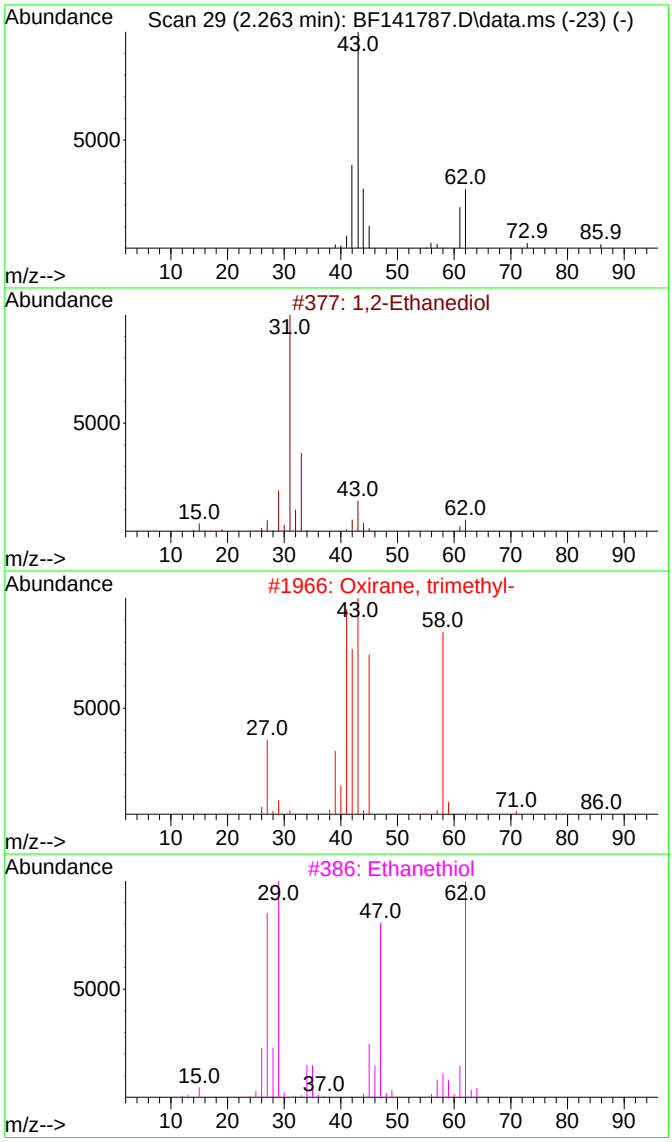
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

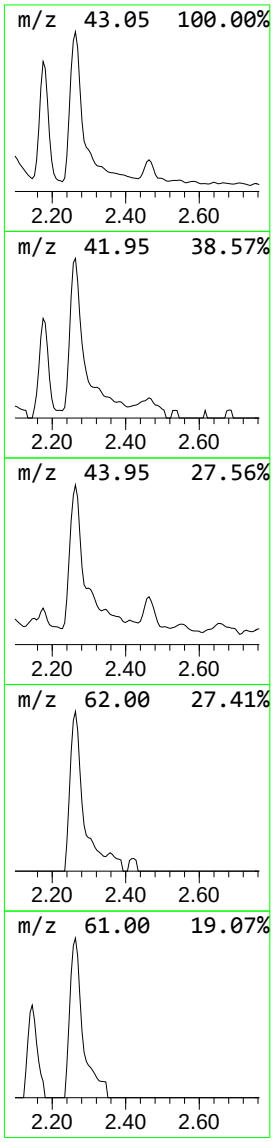
****

Peak Number 1 unknown2.263 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.263	2.10 ng	44840	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Ethanediol	62	C2H6O2	000107-21-1	7
2	Oxirane, trimethyl-	86	C5H10O	005076-19-7	5
3	Ethanethiol	62	C2H6S	000075-08-1	4
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	4
5	5-Methyloxazolidine	87	C4H9NO	058328-22-6	4





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

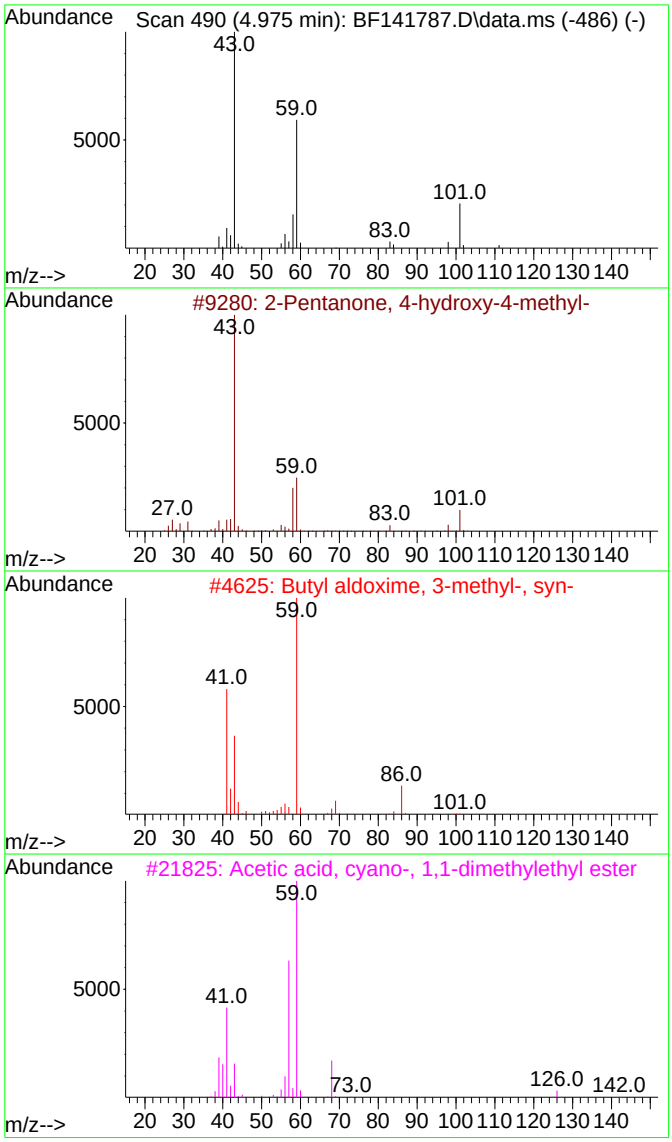
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

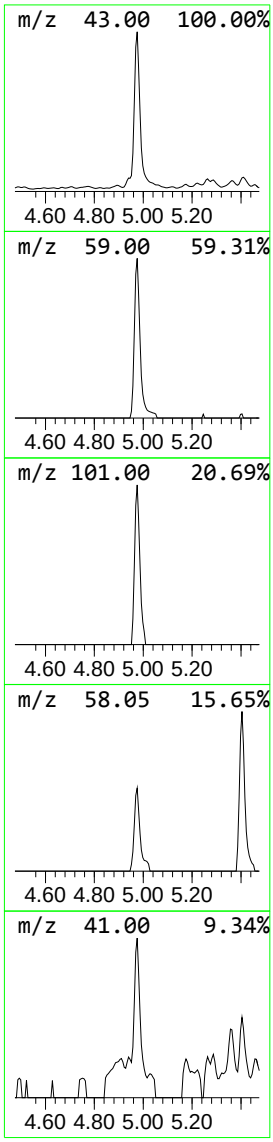
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.975	2.23 ng	47552	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	Butyl aldoxime, 3-methyl-, syn-	101	C5H11NO	005780-40-5	17
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

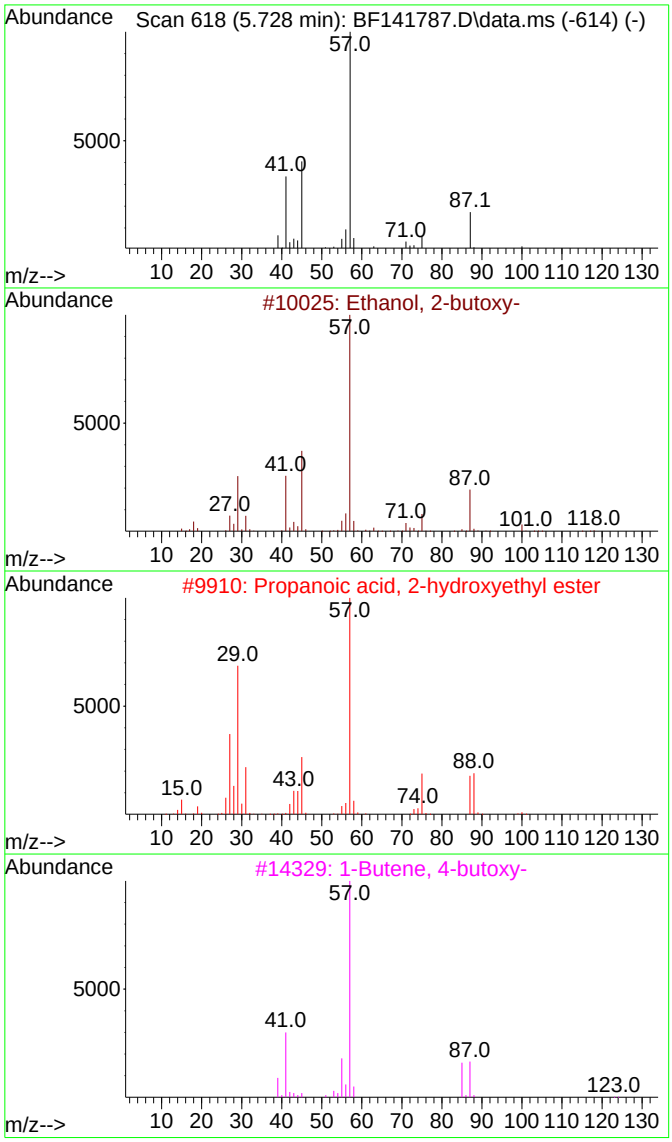
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

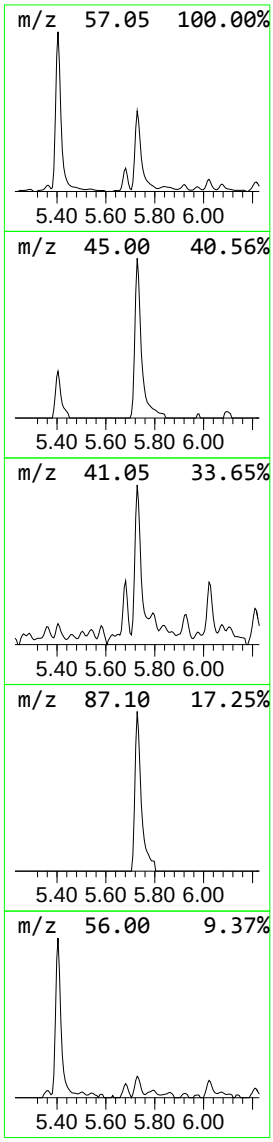
****

Peak Number 3 Ethanol, 2-butoxy- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.728	2.99 ng	63864	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-butoxy-	118	C6H14O2	000111-76-2	83
2	Propanoic acid, 2-hydroxyethyl e...	118	C5H10O3	024567-27-9	17
3	1-Butene, 4-butoxy-	128	C8H16O	034061-76-2	17
4	Isobutyl ether	130	C8H18O	000628-55-7	16
5	Propanoic acid, 2,2-dimethyl-, s...	208	C5H9AgO2	007324-58-5	16





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

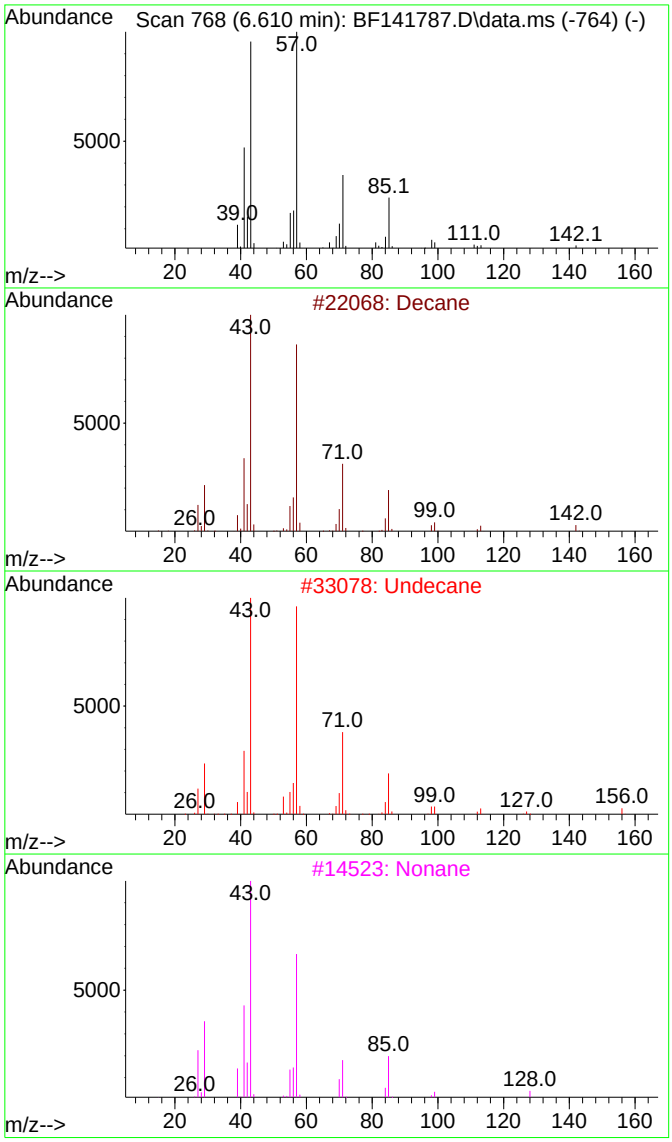
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

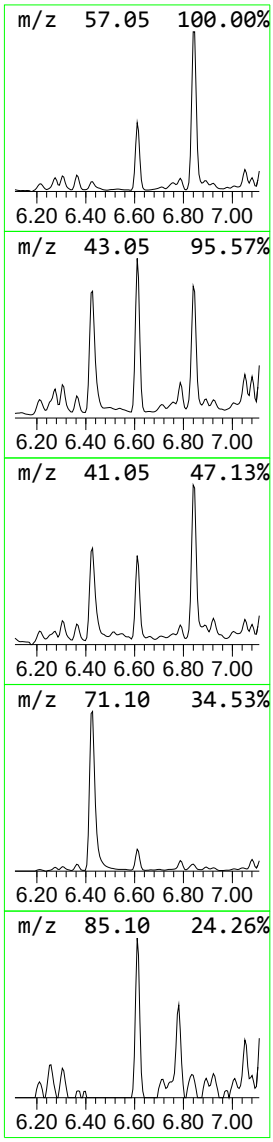
****

Peak Number 4 Decane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.610	4.44 ng	94784	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane	142	C10H22	000124-18-5	90
2	Undecane	156	C11H24	001120-21-4	83
3	Nonane	128	C9H20	000111-84-2	64
4	Decane, 2,3,6-trimethyl-	184	C13H28	062238-12-4	64
5	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	59





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

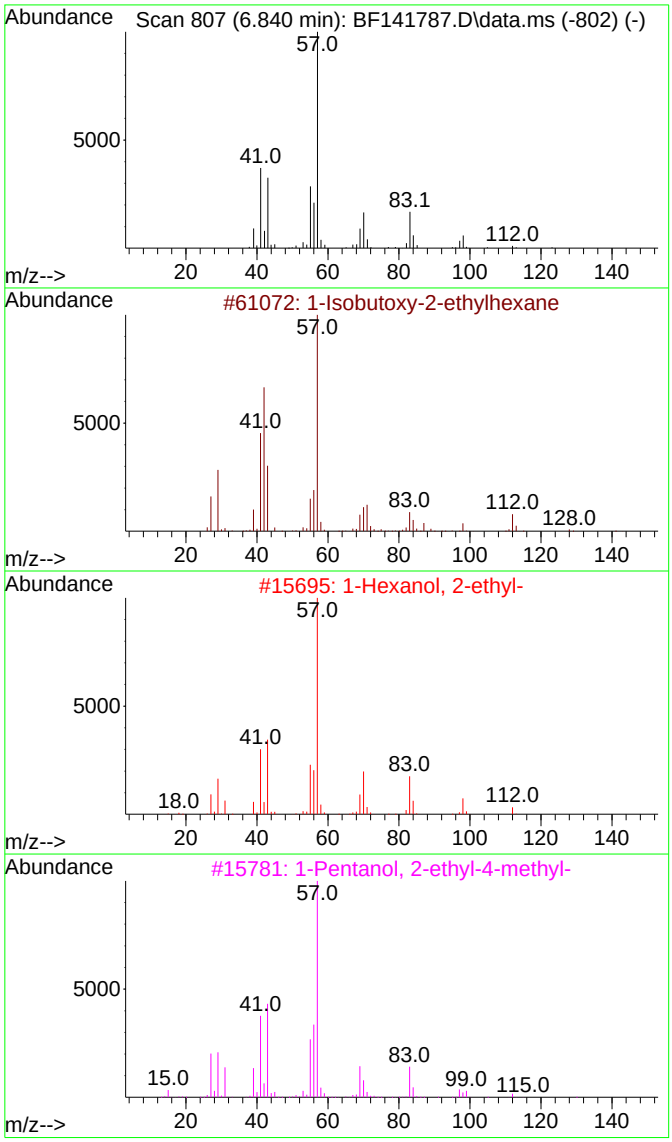
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

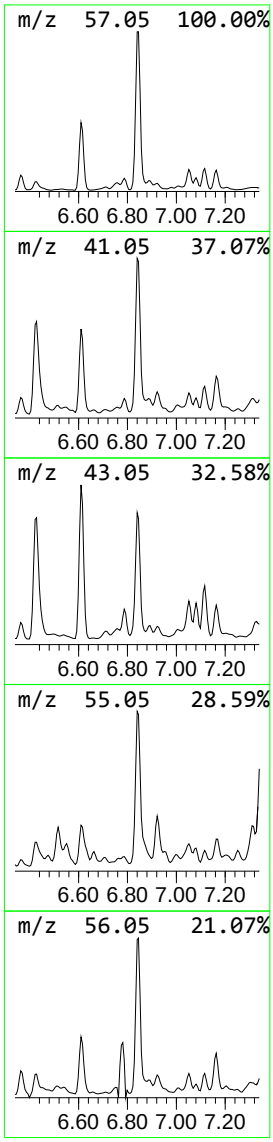
****

Peak Number 5 1-Isobutoxy-2-ethylhexane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.840	7.95 ng	169520	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isobutoxy-2-ethylhexane	186	C12H26O	1000139-90-3	78
2	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	72
3	1-Pentanol, 2-ethyl-4-methyl-	130	C8H18O	000106-67-2	59
4	Oxalic acid, isobutyl octyl ester	258	C14H26O4	1000309-37-3	59
5	Heptane, 1,1'-oxybis-	214	C14H30O	000629-64-1	59





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Sample : Q1415-06
Misc :
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Instrument :
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ClientSampleId :
B-173-GW01

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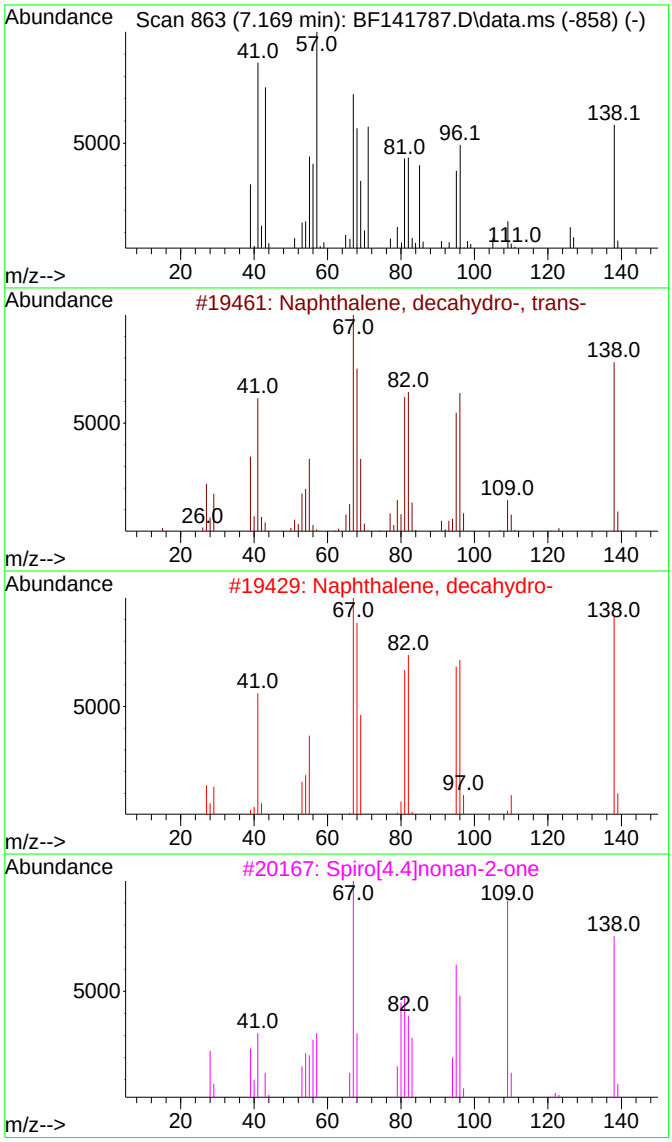
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

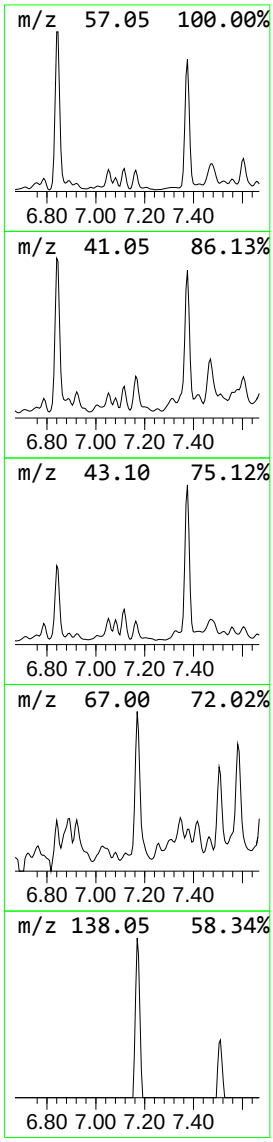
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Naphthalene, decahydro-, tr... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.169	2.89 ng	61645	1,4-Dichlorobenzene-d4	6.781

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-, trans-	138	C10H18	000493-02-7	90
2	Naphthalene, decahydro-	138	C10H18	000091-17-8	90
3	Spiro[4.4]nonan-2-one	138	C9H14O	034177-18-9	38
4	1,1'-Bicyclopentyl	138	C10H18	001636-39-1	38
5	Cyclopentene, 1-(3-methylbutyl)-	138	C10H18	037689-15-9	30





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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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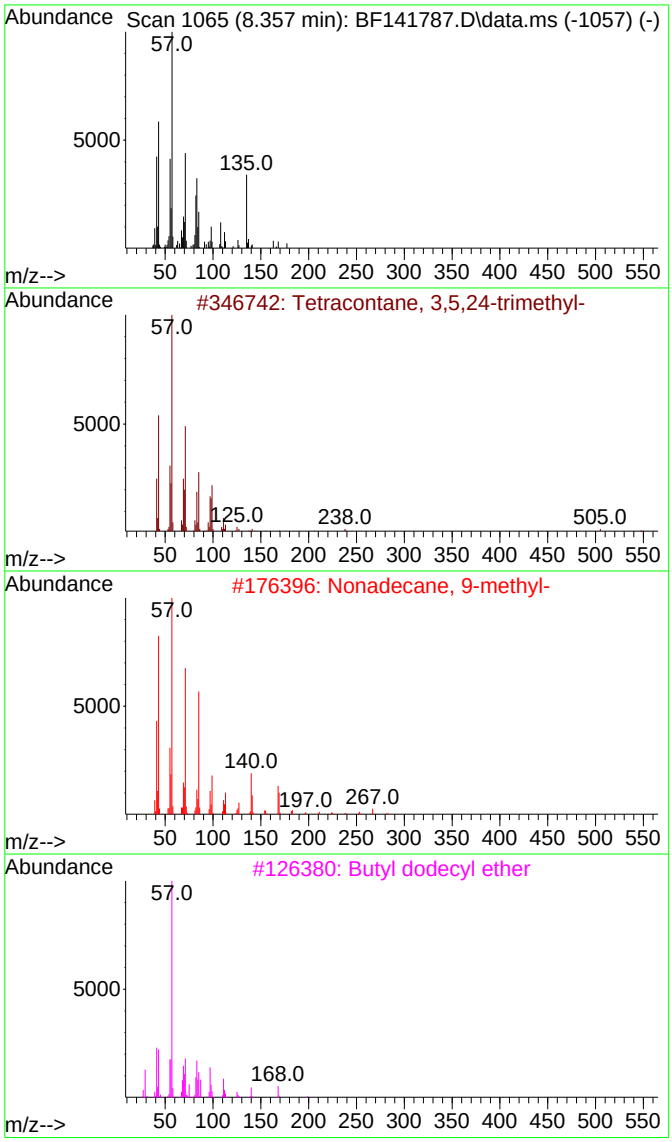
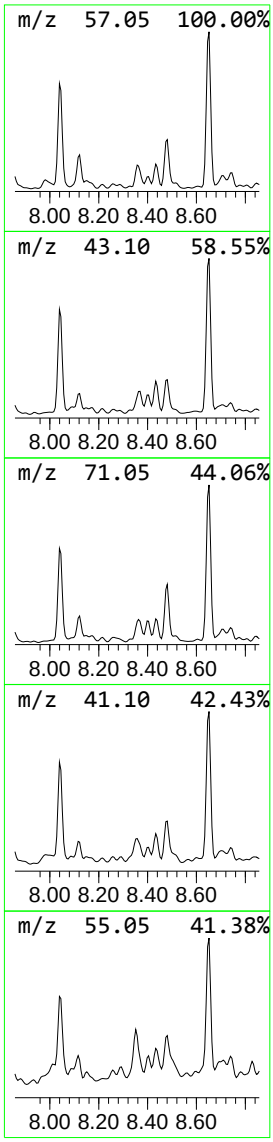
Peak Number 7 unknown8.357 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.357	3.23 ng	144734	Naphthalene-d8	8.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracontane, 3,5,24-trimethyl-	605	C43H88	055162-61-3	38
2	Nonadecane, 9-methyl-	282	C20H42	013287-24-6	35
3	Butyl dodecyl ether	242	C16H34O	1000406-40-3	35
4	10-Methylnonadecane	282	C20H42	056862-62-5	35
5	Dodecyl isobutyl carbonate	286	C17H34O3	959067-22-2	27





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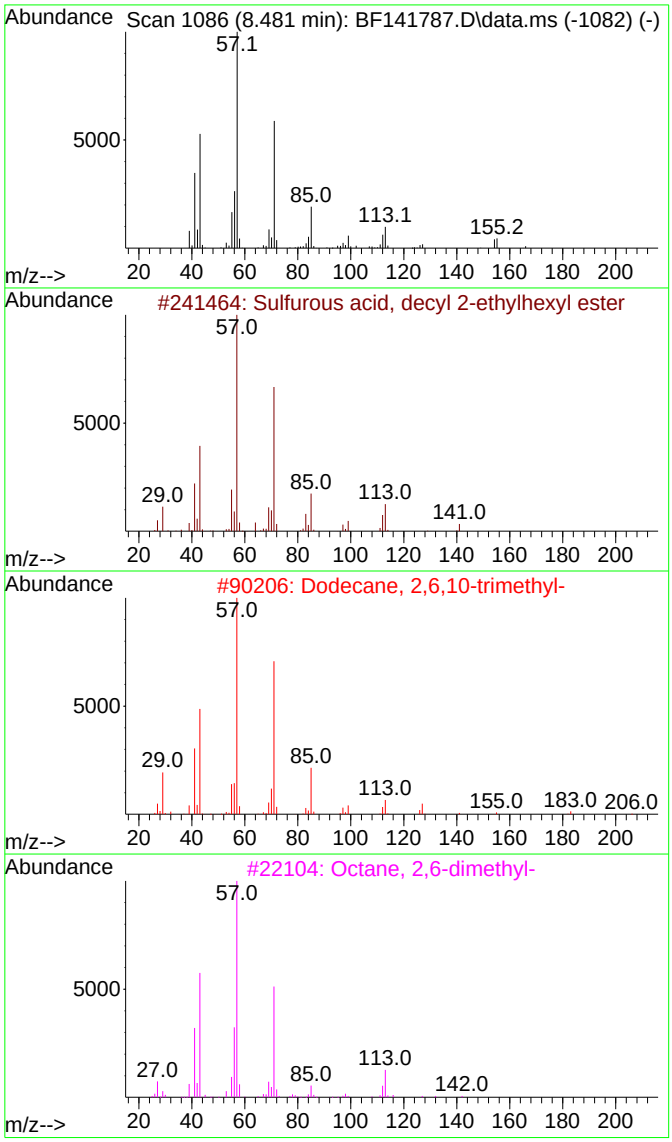
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

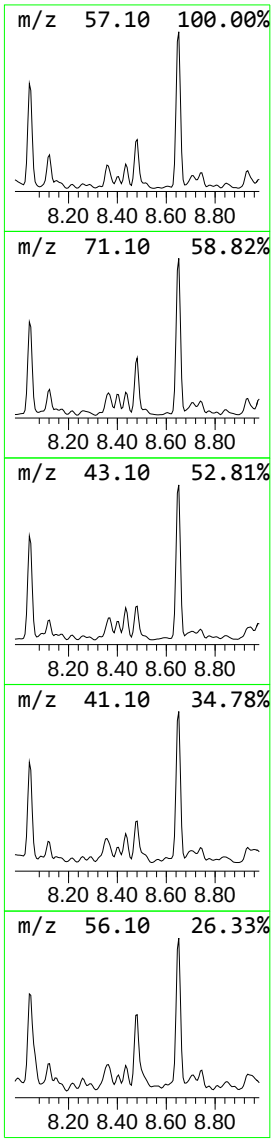
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Sulfurous acid, decyl 2-eth... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.481	4.09 ng	183078	Naphthalene-d8	8.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfurous acid, decyl 2-ethylhex...	334	C18H38O3S	1000309-19-3	72
2	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	64
3	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	59
4	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	59
5	Nonane, 3-methyl-	142	C10H22	005911-04-6	59





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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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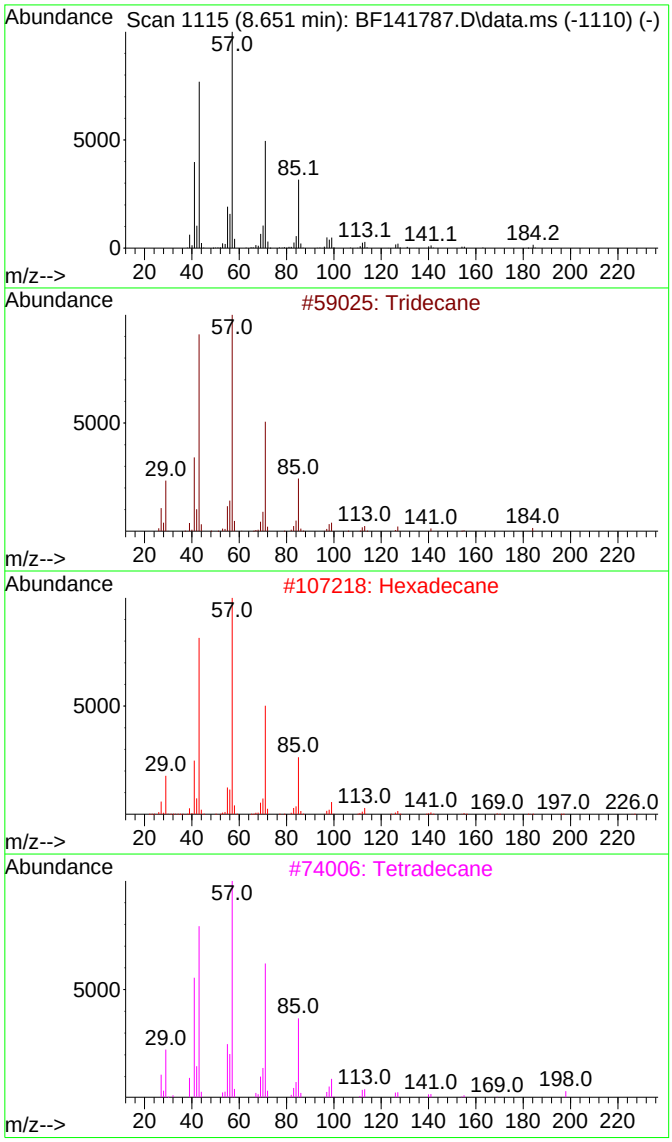
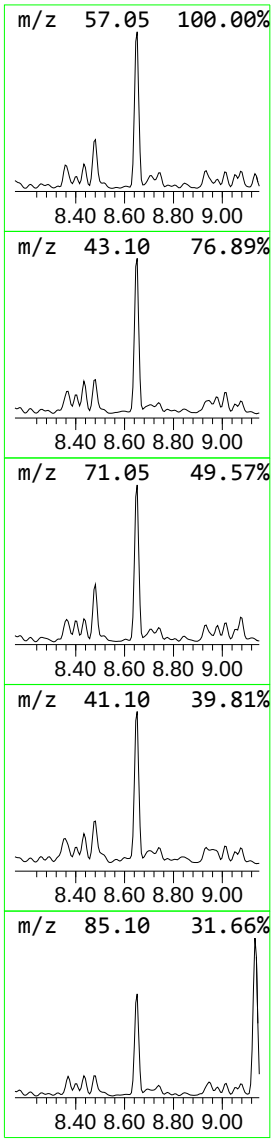
Peak Number 9 Tridecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.651	9.21 ng	412546	Naphthalene-d8	8.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	93
2	Hexadecane	226	C16H34	000544-76-3	90
3	Tetradecane	198	C14H30	000629-59-4	86
4	Dodecane	170	C12H26	000112-40-3	86
5	Pentadecane	212	C15H32	000629-62-9	86





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

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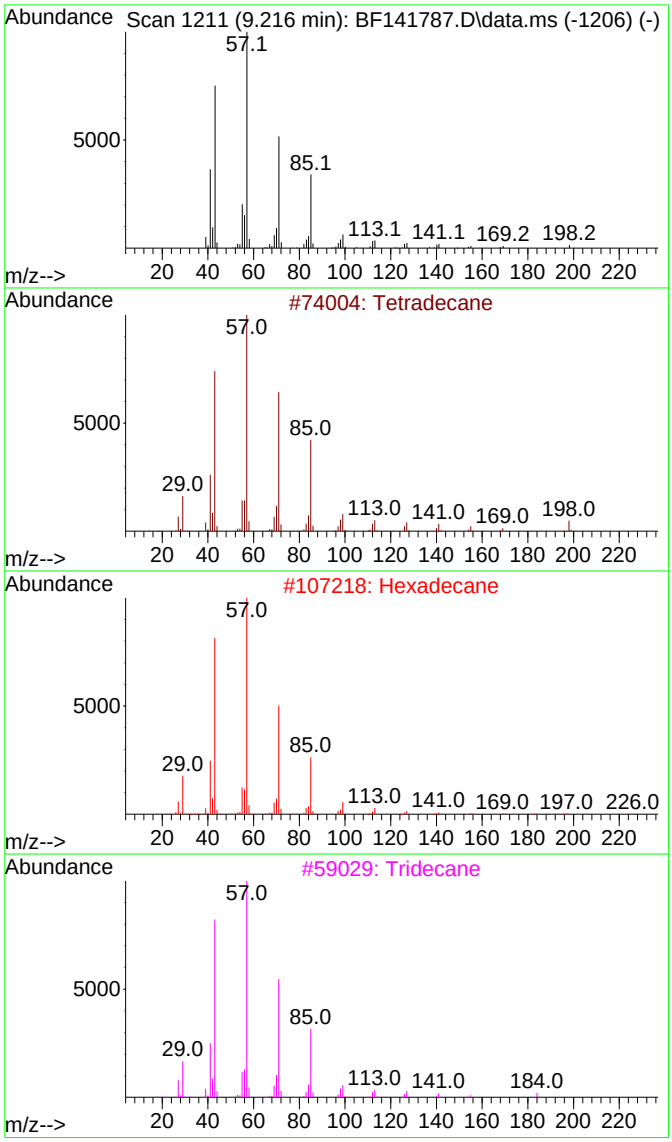
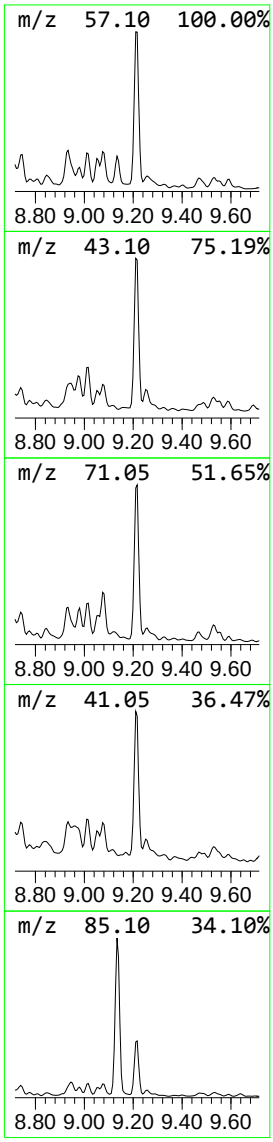
Peak Number 10 Tetradecane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.216	7.38 ng	238575	Acenaphthene-d10	9.810

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	95
2	Hexadecane	226	C16H34	000544-76-3	91
3	Tridecane	184	C13H28	000629-50-5	90
4	Pentadecane	212	C15H32	000629-62-9	90
5	Carbonic acid, eicosyl vinyl ester	368	C23H44O3	1000382-54-3	86





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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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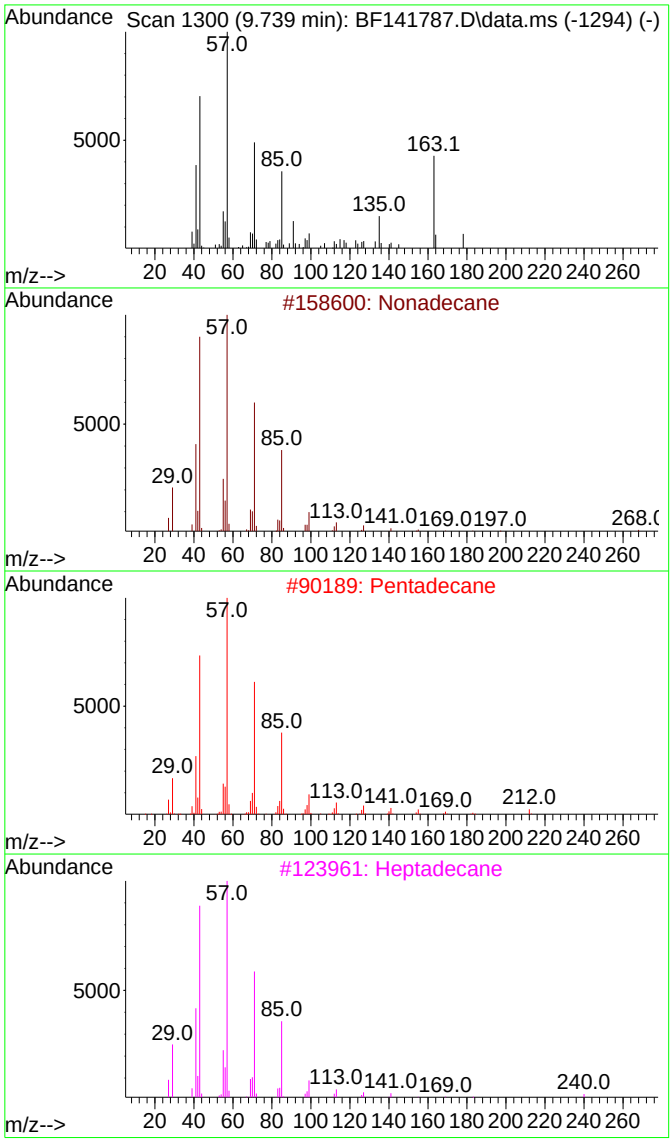
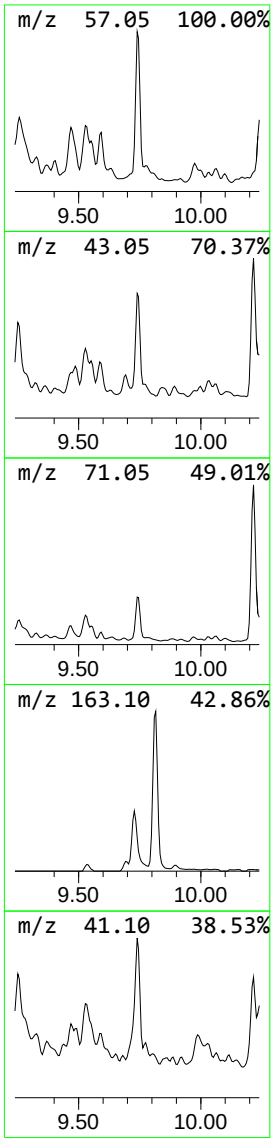
Peak Number 11 unknown9.739 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.739	2.27 ng	73229	Acenaphthene-d10	9.810

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	49
2	Pentadecane	212	C15H32	000629-62-9	46
3	Heptadecane	240	C17H36	000629-78-7	43
4	Tetradecane	198	C14H30	000629-59-4	43
5	Hexadecane	226	C16H34	000544-76-3	43





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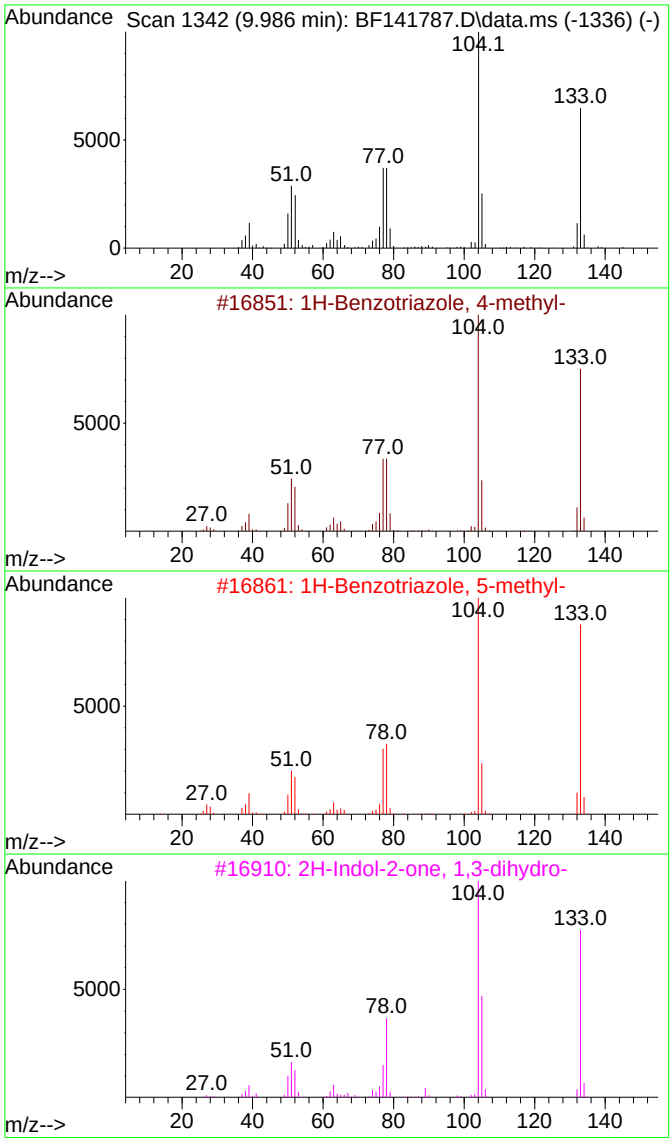
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

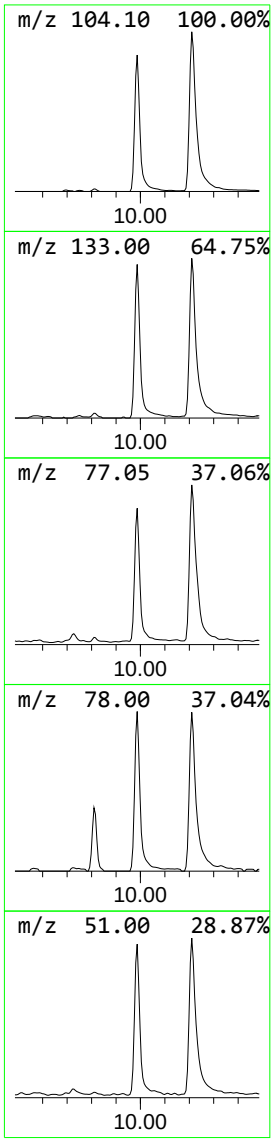
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 12 1H-Benzotriazole, 4-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.986	9.07 ng	293293	Acenaphthene-d10	9.810

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Benzotriazole, 4-methyl-	133	C7H7N3	029878-31-7	98
2	1H-Benzotriazole, 5-methyl-	133	C7H7N3	000136-85-6	97
3	2H-Indol-2-one, 1,3-dihydro-	133	C8H7NO	000059-48-3	80
4	Benzene, 1-isocyanato-2-methyl-	133	C8H7NO	000614-68-6	62
5	1H-Indol-4-ol	133	C8H7NO	002380-94-1	49





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

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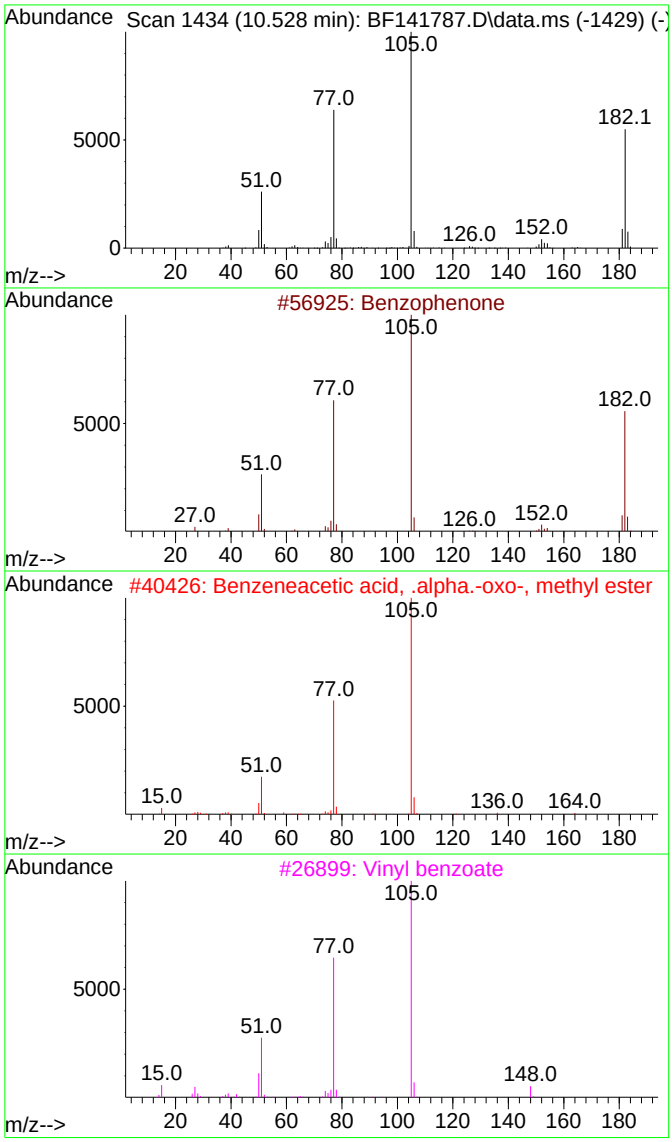
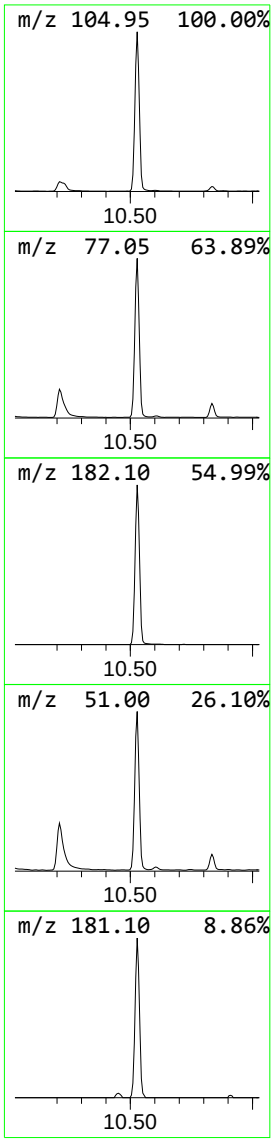
Peak Number 13 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.528	18.88 ng	610172	Acenaphthene-d10	9.810

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzeneacetic acid, .alpha.-oxo-...	164	C9H8O3	015206-55-0	49
3	Vinyl benzoate	148	C9H8O2	000769-78-8	47
4	N-Methylbenzamide, N-pentafluoro...	281	C11H8F5NO2	1000446-98-1	47
5	5-Oxo-5-phenylpentanenitrile	173	C11H11NO	1000486-83-7	47





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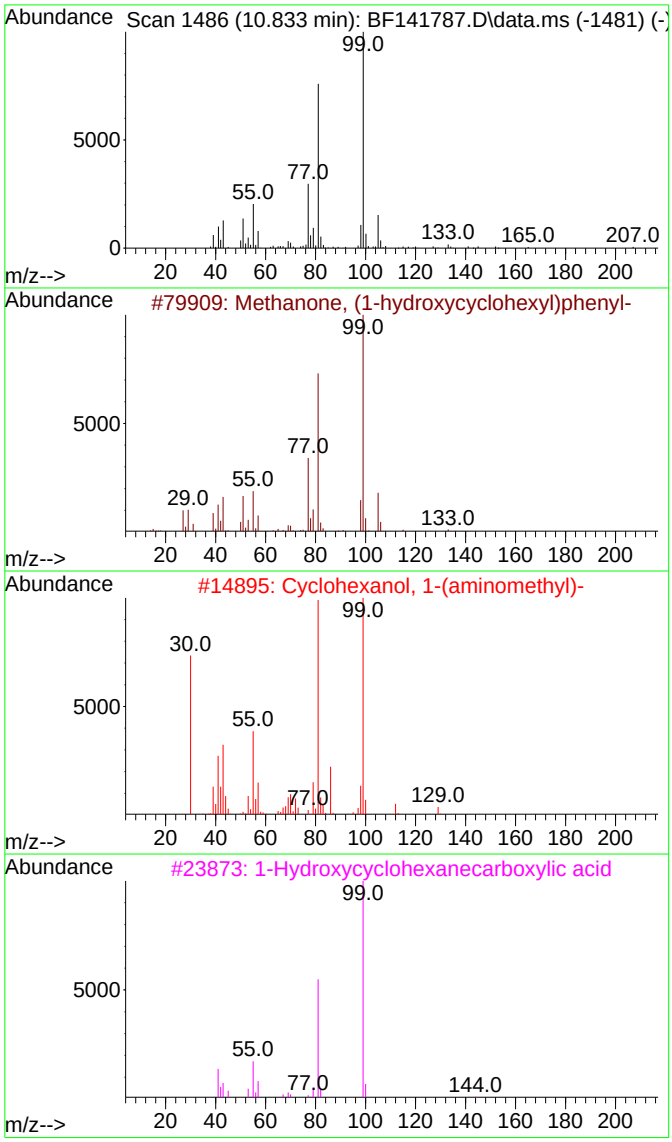
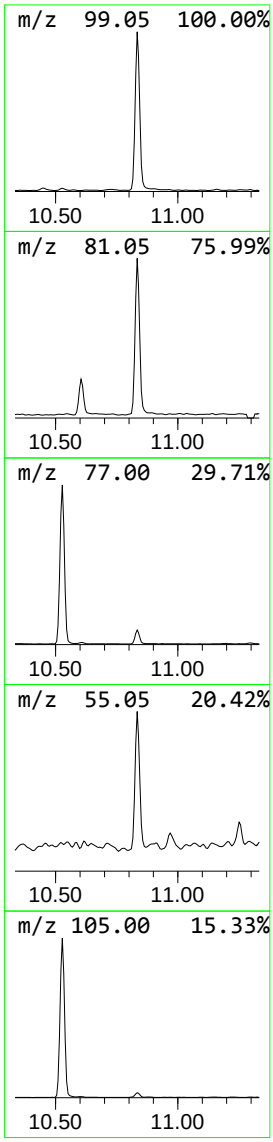
****
Peak Number 14 Methanone, (1-hydroxycycloh... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.833	4.24 ng	135954	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methanone, (1-hydroxycyclohexyl)...	204	C13H16O2	000947-19-3	91
2	Cyclohexanol, 1-(aminomethyl)-	129	C7H15NO	004000-72-0	50
3	1-Hydroxycyclohexanecarboxylic acid	144	C7H12O3	001123-28-0	45
4	2-Methylcyclosarin	194	C8H16FO2P	085473-32-1	42
5	3-Methylcyclohexyl methylphospho...	194	C8H16FO2P	113548-86-0	38





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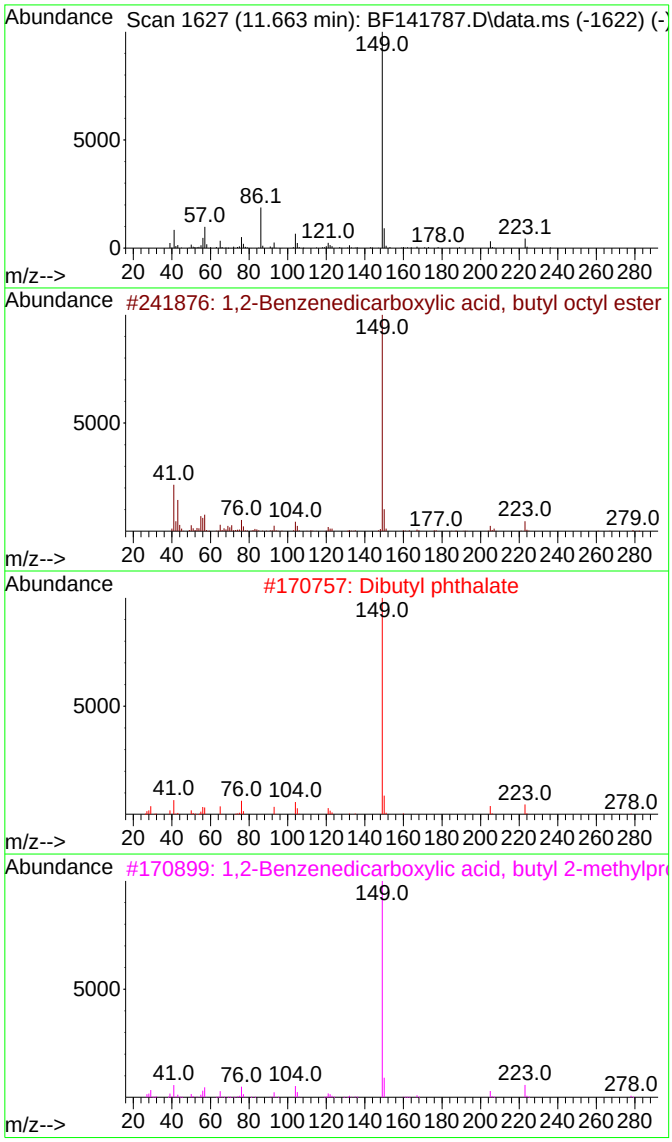
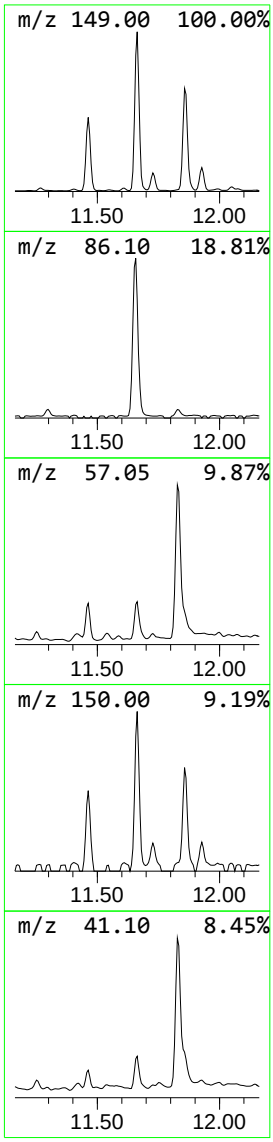
Peak Number 15 1,2-Benzenedicarboxylic aci... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.663	4.78 ng	153238	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bu...	334	C20H30O4	000084-78-6	86
2	Dibutyl phthalate	278	C16H22O4	000084-74-2	83
3	1,2-Benzenedicarboxylic acid, bu...	278	C16H22O4	017851-53-5	80
4	Phthalic acid, cycloheptyl isobu...	318	C19H26O4	1000322-82-8	72
5	Phthalic acid, butyl hexyl ester	306	C18H26O4	1010308-99-5	72





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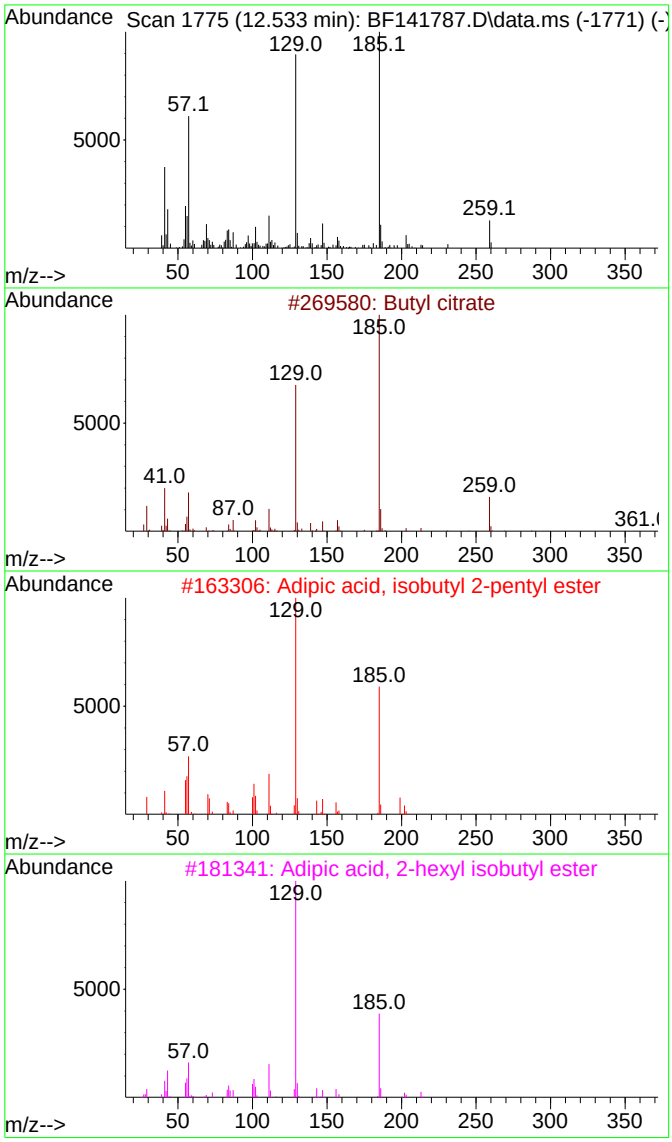
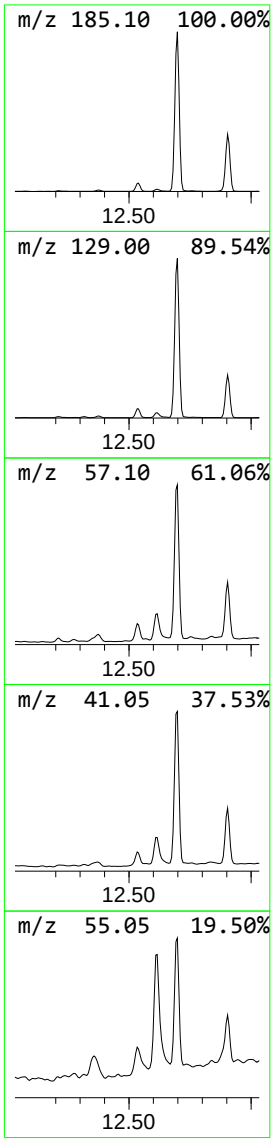
Peak Number 16 Butyl citrate Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.533	3.22 ng	103121	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl citrate	360	C18H32O7	000077-94-1	86
2	Adipic acid, isobutyl 2-pentyl e...	272	C15H28O4	1000324-15-6	78
3	Adipic acid, 2-hexyl isobutyl ester	286	C16H30O4	1000353-70-9	78
4	Adipic acid, 2-decyl isobutyl ester	342	C20H38O4	1000353-59-6	53
5	Adipic acid, isobutyl 2-methylpe...	286	C16H30O4	1000353-55-7	43





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

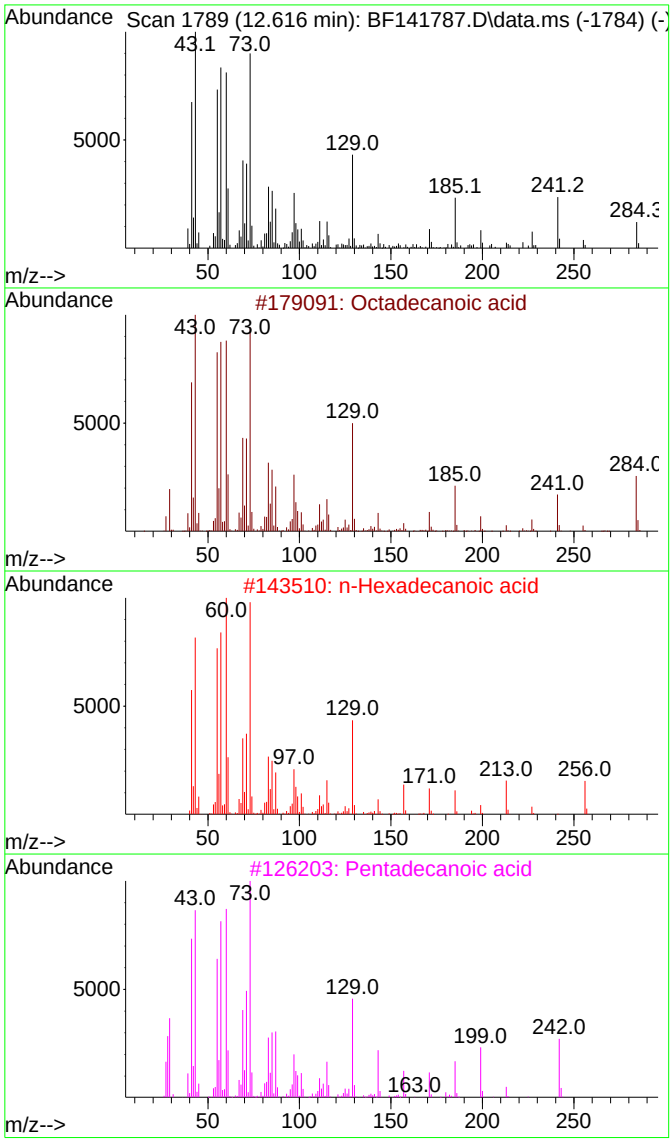
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

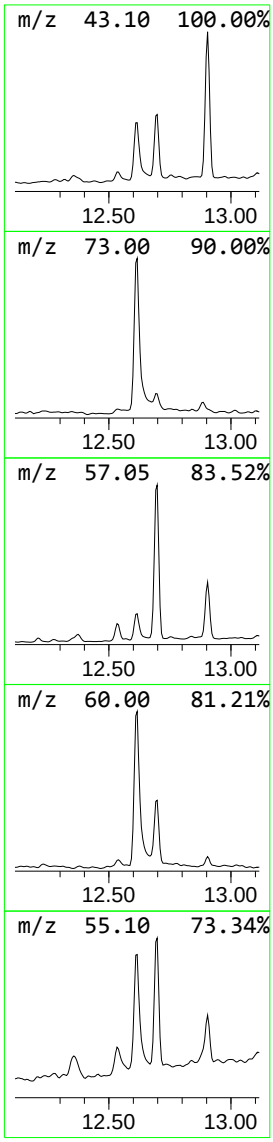
****

Peak Number 17 Octadecanoic acid Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.616	7.87 ng	252253	Phenanthrene-d10	11.298

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	86
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	74
5	Tridecanoic acid	214	C13H26O2	000638-53-9	70





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

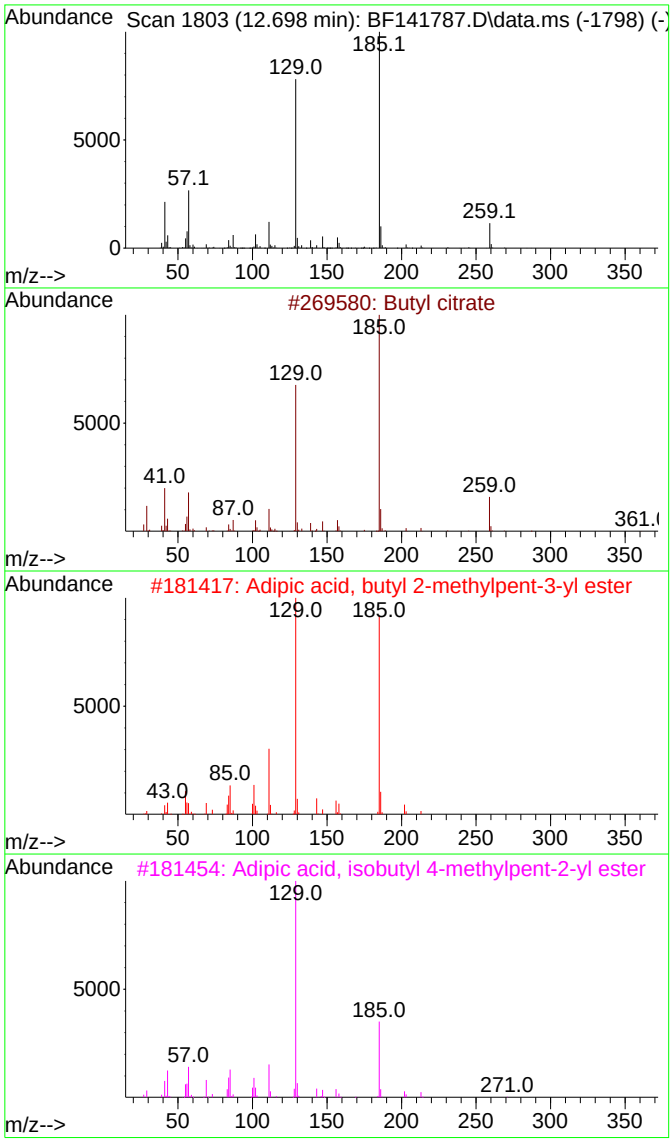
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

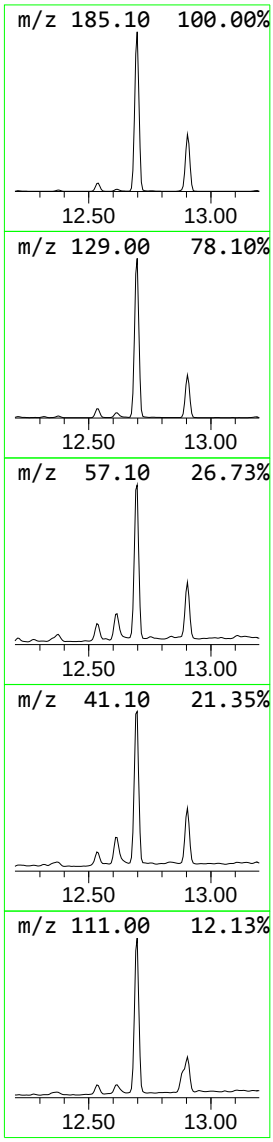
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 18 Adipic acid, butyl 2-methyl... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.698	44.71 ng	1038930	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl citrate	360	C18H32O7	000077-94-1	81
2	Adipic acid, butyl 2-methylpent-...	286	C16H30O4	1010353-55-8	72
3	Adipic acid, isobutyl 4-methylpe...	286	C16H30O4	1000353-50-1	64
4	O-Methyl-DL-serine, N-dimethylam...	230	C11H22N2O3	1000375-99-5	64
5	Adipic acid, isobutyl 3-pentyl e...	272	C15H28O4	1000324-60-4	64





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Data File : BF141787.D
Acq On    : 26 Feb 2025  17:27
Operator  : RC/JU
Sample    : Q1415-06
Misc      :
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

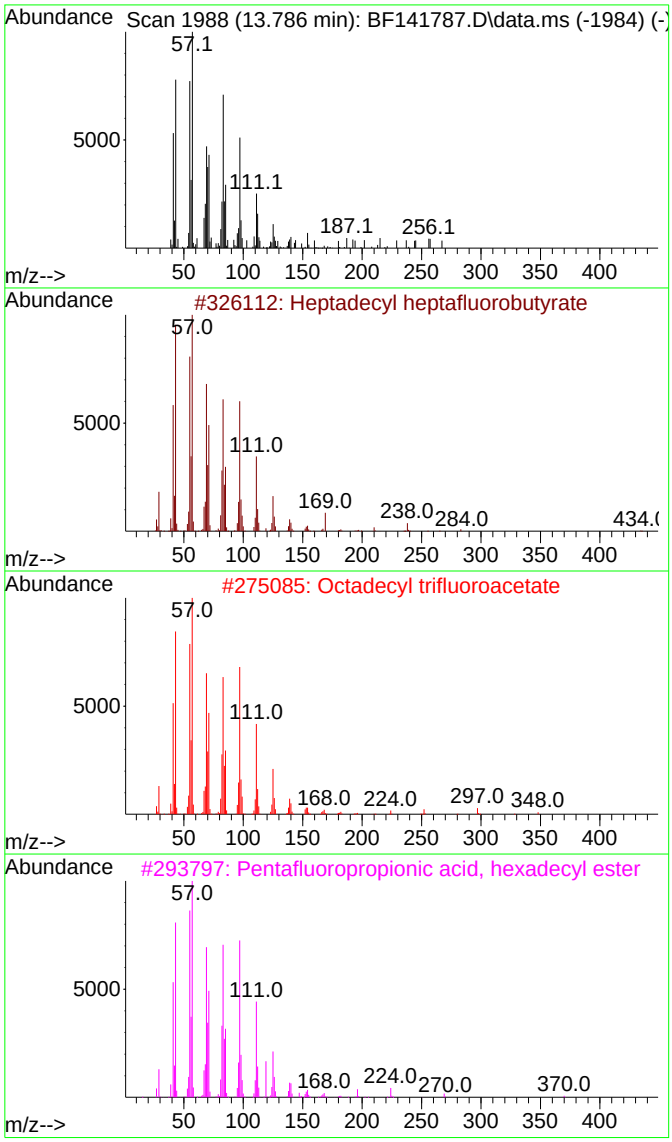
Instrument :
BNA_F
ClientSampleId :
B-173-GW01

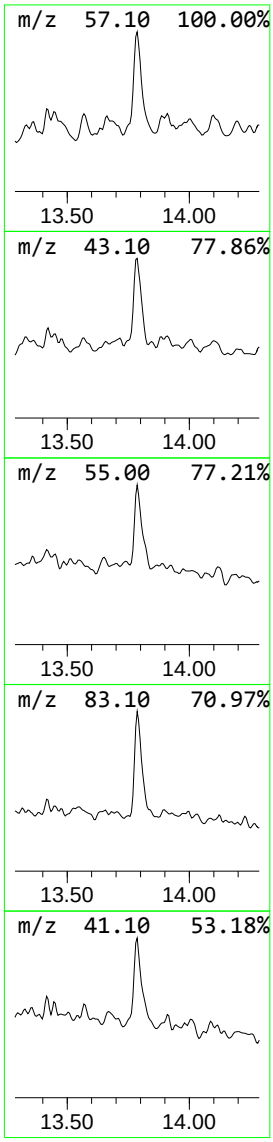
****

Peak Number 19 Heptadecyl heptafluorobutyrate Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.786	4.84 ng	112401	Chrysene-d12	13.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	90
2	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	87
3	Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	87
4	Pentafluoropropionic acid, hepta...	402	C20H35F5O2	959218-78-1	87
5	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

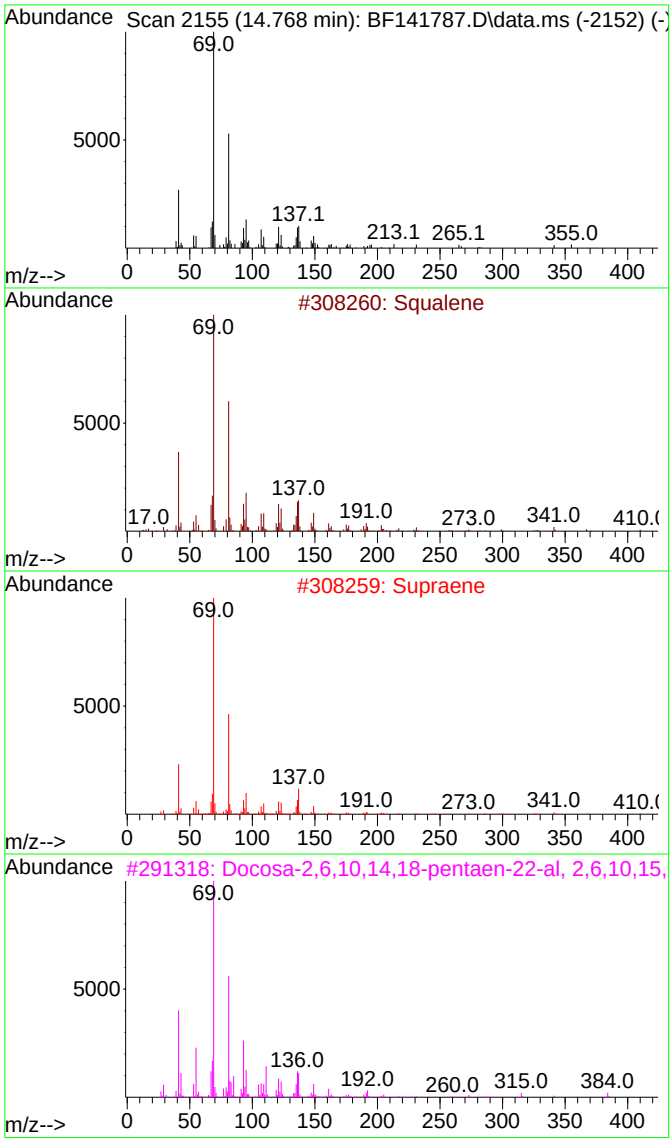
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

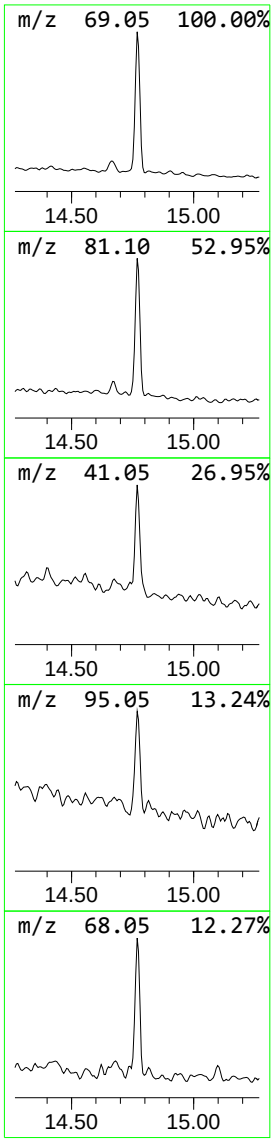
****

Peak Number 20 Squalene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.768	2.87 ng	64364	Perylene-d12	15.386

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Squalene	410	C30H50	000111-02-4	90
2	Supraene	410	C30H50	007683-64-9	80
3	Docosa-2,6,10,14,18-pentaen-22-a...	384	C27H44O	1000163-04-7	78
4	2,6,10,14-Hexadecatetraenoic aci...	332	C22H36O2	024035-35-6	72
5	1,5,9-Undecatriene, 2,6,10-trime...	192	C14H24	062951-96-6	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.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
unknown2.263	2.263	2.1	ng	44840	1	6.781	426482	20.0
2-Pentanone, 4-...	4.975	2.2	ng	47552	1	6.781	426482	20.0
Ethanol, 2-butoxy-	5.728	3.0	ng	63864	1	6.781	426482	20.0
Decane	6.610	4.4	ng	94784	1	6.781	426482	20.0
1-Isobutoxy-2-e...	6.840	8.0	ng	169520	1	6.781	426482	20.0
Naphthalene, de...	7.169	2.9	ng	61645	1	6.781	426482	20.0
unknown8.357	8.357	3.2	ng	144734	2	8.063	895547	20.0
Sulfurous acid,...	8.481	4.1	ng	183078	2	8.063	895547	20.0
Tridecane	8.651	9.2	ng	412546	2	8.063	895547	20.0
Tetradecane	9.216	7.4	ng	238575	3	9.810	646496	20.0
unknown9.739	9.739	2.3	ng	73229	3	9.810	646496	20.0
1H-Benzotriazol...	9.986	9.1	ng	293293	3	9.810	646496	20.0
Benzophenone	10.528	18.9	ng	610172	3	9.810	646496	20.0
Methanone, (1-h...	10.833	4.2	ng	135954	4	11.298	640740	20.0
1,2-Benzenedica...	11.663	4.8	ng	153238	4	11.298	640740	20.0
Butyl citrate	12.533	3.2	ng	103121	4	11.298	640740	20.0
Octadecanoic acid	12.616	7.9	ng	252253	4	11.298	640740	20.0
Adipic acid, bu...	12.698	44.7	ng	1038930	5	13.939	464694	20.0
Heptadecyl hept...	13.786	4.8	ng	112401	5	13.939	464694	20.0
Squalene	14.768	2.9	ng	64364	6	15.386	449071	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Quant Time: Feb 26 12:11:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

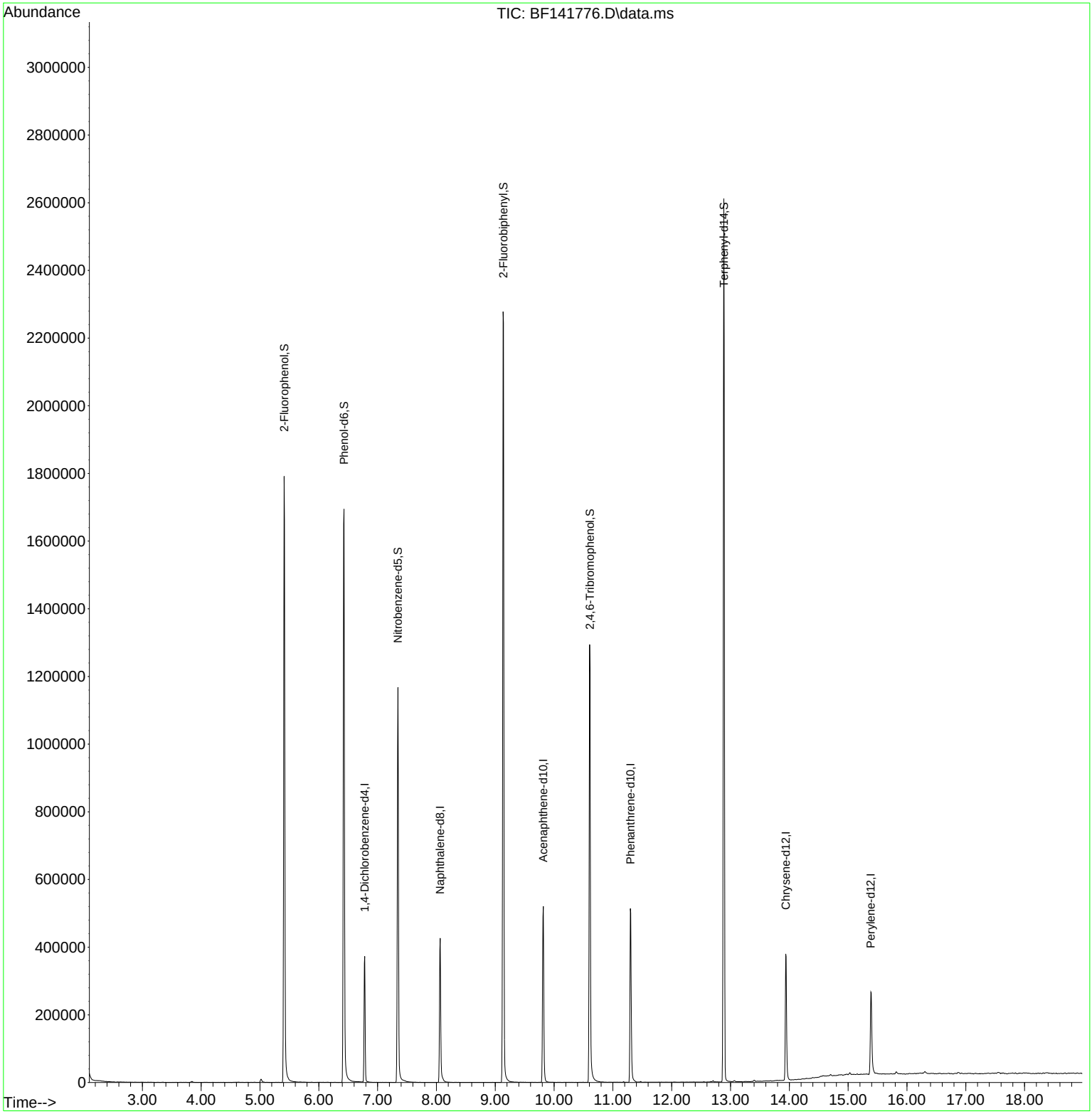
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	81286	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	323646	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	177621	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	318142	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	217249	20.000	ng	-0.02
86) Perylene-d12	15.386	264	172479	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	728584	140.520	ng	0.00
7) Phenol-d6	6.428	99	871422	132.975	ng	-0.01
23) Nitrobenzene-d5	7.345	82	562566	90.662	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	241346	135.262	ng	-0.02
45) 2-Fluorobiphenyl	9.139	172	1118399	97.007	ng	-0.01
79) Terphenyl-d14	12.886	244	1339199	104.065	ng	-0.02
Target Compounds						Qvalue

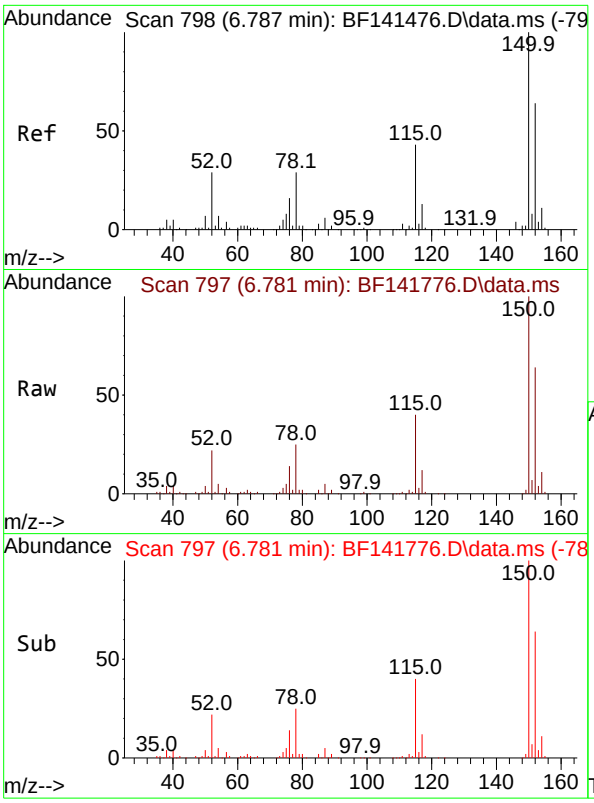
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Quant Time: Feb 26 12:11:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



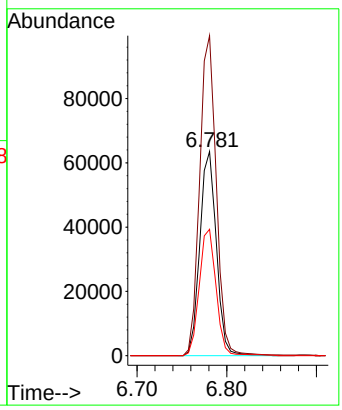


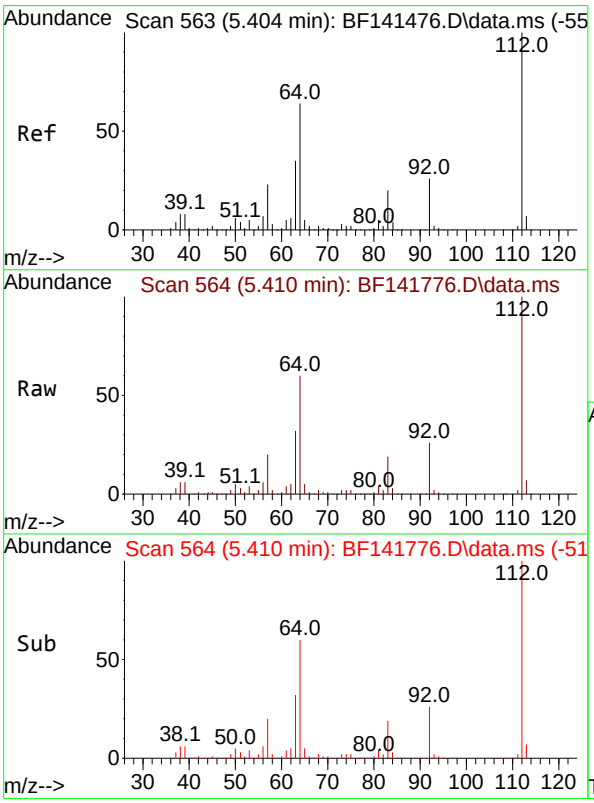
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Tgt Ion:152 Resp: 81286

Ion	Ratio	Lower	Upper
152	100		
150	156.7	125.0	187.4
115	61.9	53.6	80.4

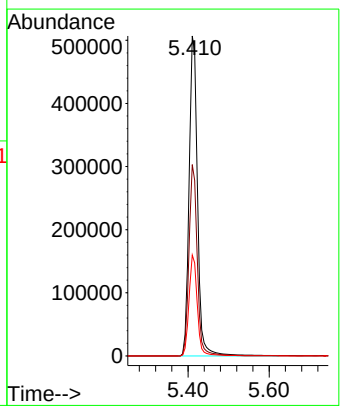


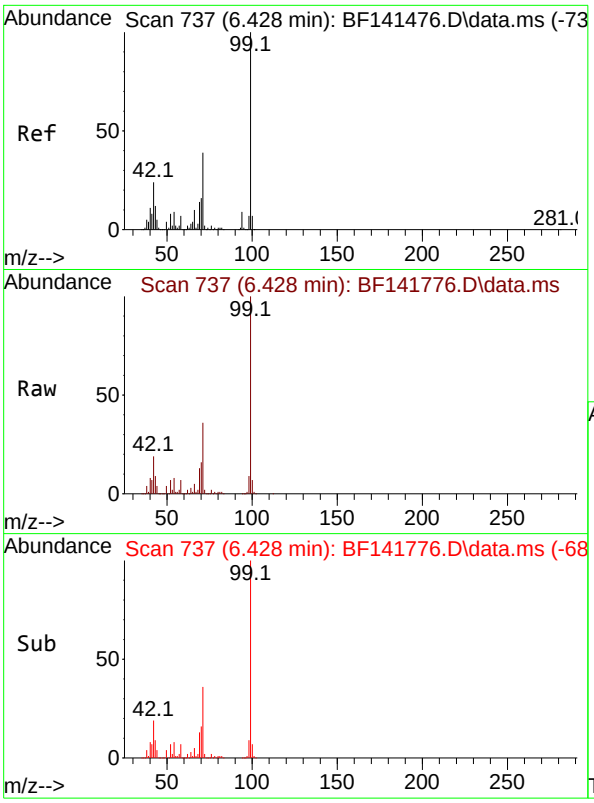


#5
2-Fluorophenol
Concen: 140.520 ng
RT: 5.410 min Scan# 564
Delta R.T. 0.000 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Tgt Ion:112 Resp: 728584

Ion	Ratio	Lower	Upper
112	100		
64	59.8	51.1	76.7
63	31.6	28.4	42.6



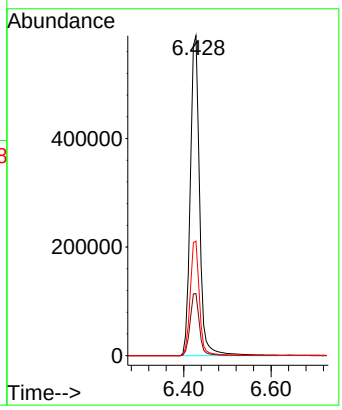


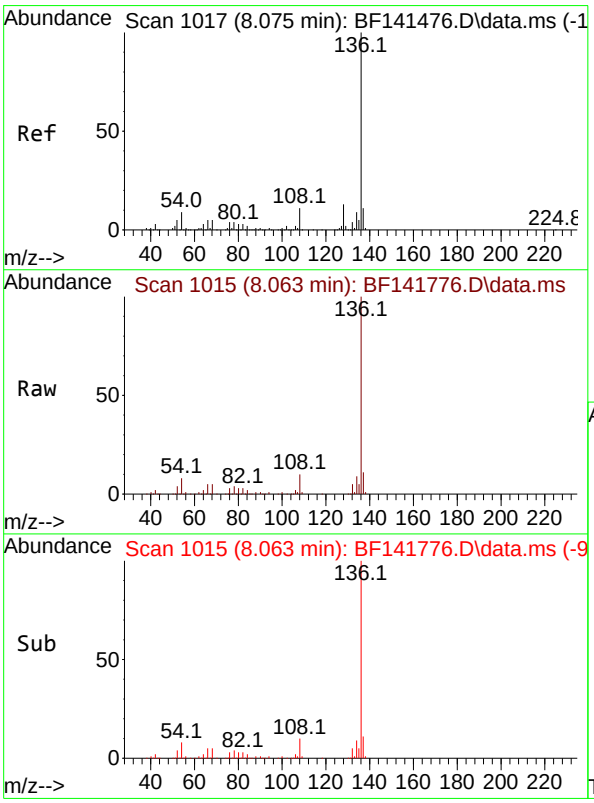
#7
Phenol-d6
Concen: 132.975 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Tgt Ion: 99 Resp: 871422

Ion	Ratio	Lower	Upper
99	100		
42	19.4	19.1	28.7
71	35.8	31.1	46.7

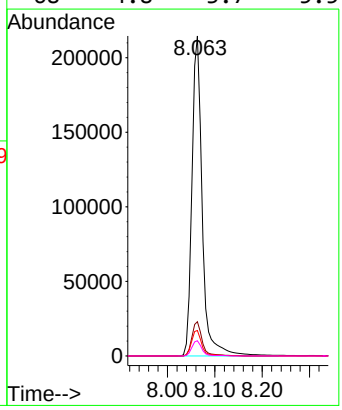


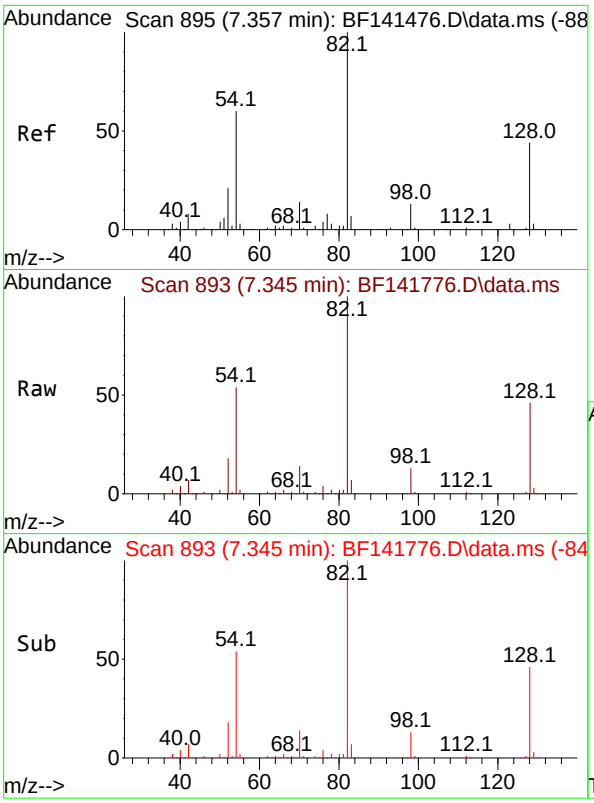


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Tgt Ion:136 Resp: 323646

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	7.9	7.2	10.8
68	4.8	3.7	5.5



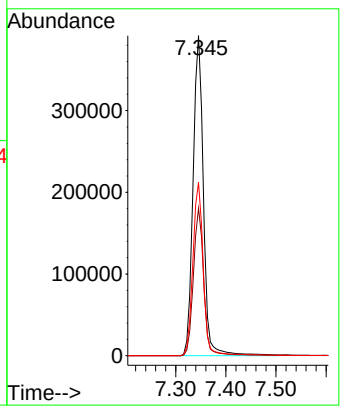


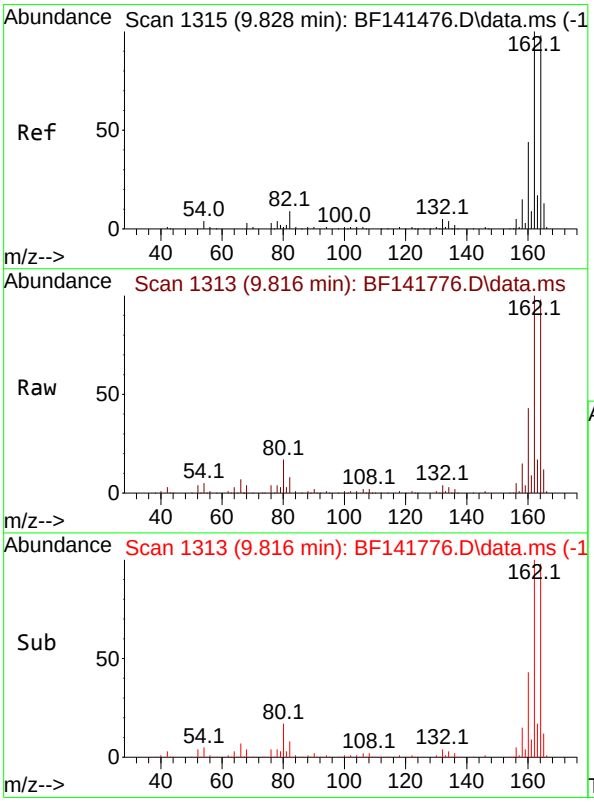
#23
Nitrobenzene-d5
Concen: 90.662 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Tgt Ion: 82 Resp: 562566

Ion	Ratio	Lower	Upper
82	100		
128	46.1	34.8	52.2
54	54.1	48.2	72.4

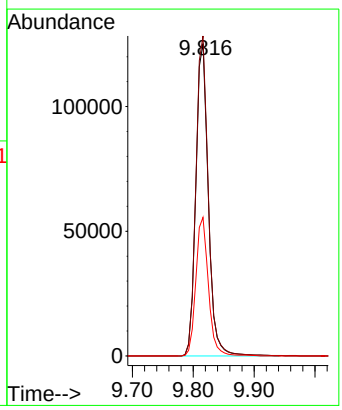


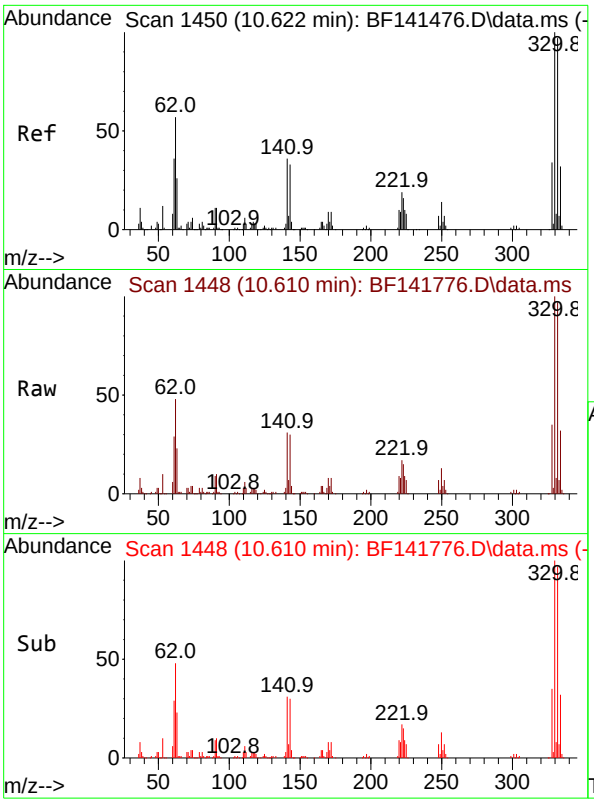


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 1313
Delta R.T. -0.017 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Tgt Ion:164 Resp: 177621

Ion	Ratio	Lower	Upper
164	100		
162	102.4	81.3	121.9
160	44.4	35.9	53.9



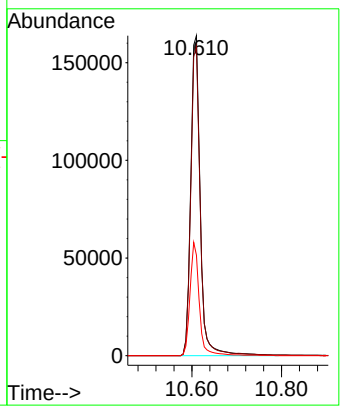


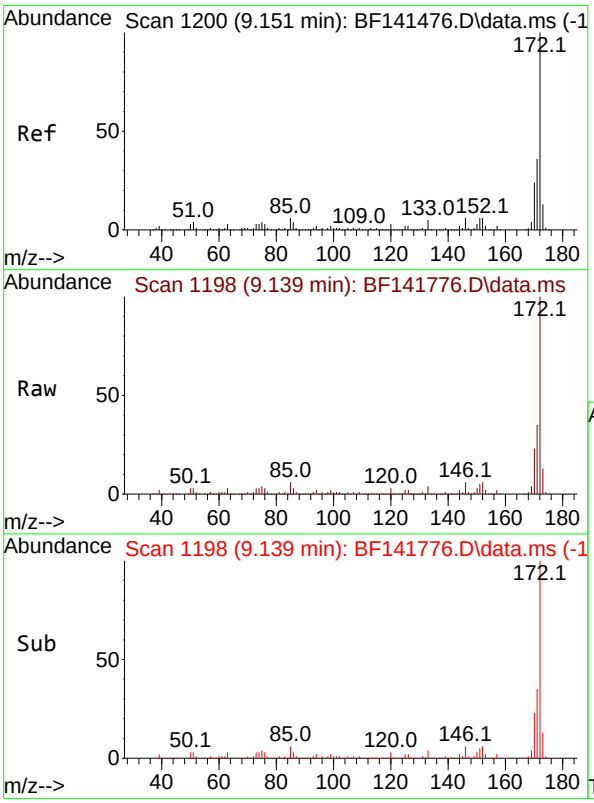
#42
2,4,6-Tribromophenol
Concen: 135.262 ng
RT: 10.610 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Tgt Ion:330 Resp: 241346

Ion	Ratio	Lower	Upper
330	100		
332	97.1	78.5	117.7
141	34.8	31.0	46.4

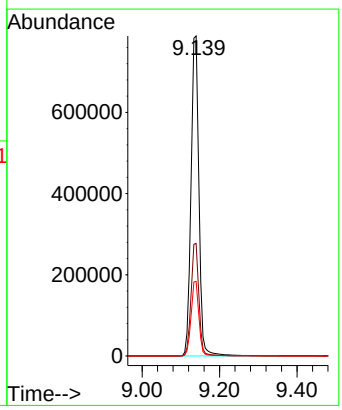


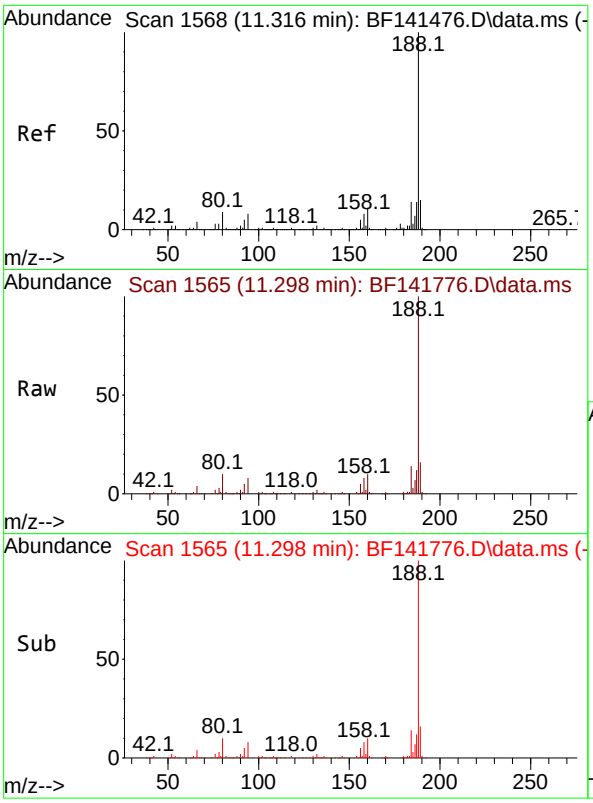


#45
2-Fluorobiphenyl
Concen: 97.007 ng
RT: 9.139 min Scan# 1198
Delta R.T. -0.012 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Tgt Ion:172 Resp: 1118399

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.7	43.1
170	23.3	18.9	28.3



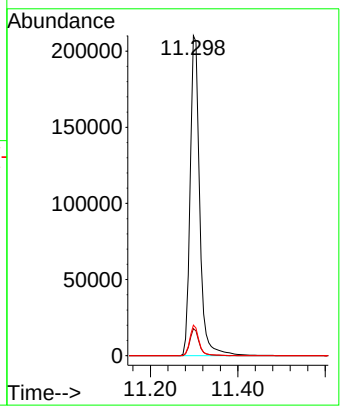


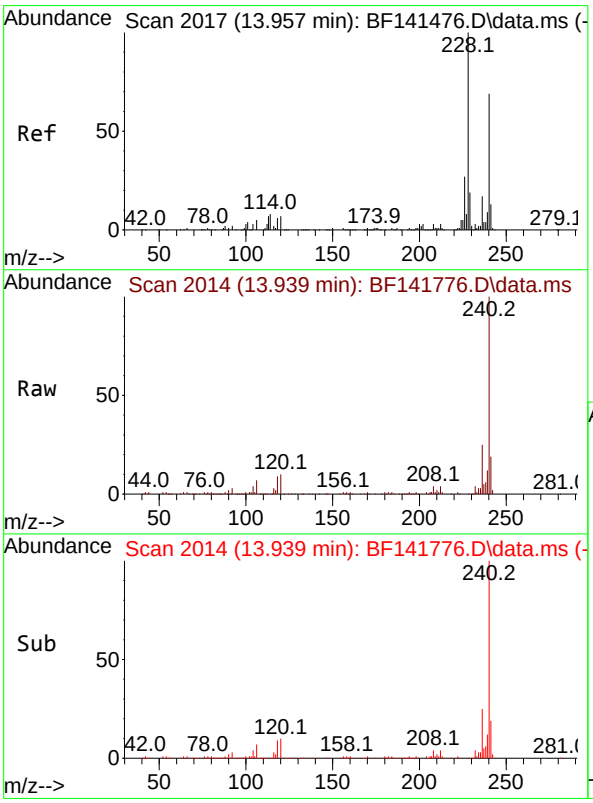
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Tgt Ion:188 Resp: 318142

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.6	10.0
80	9.6	7.3	10.9

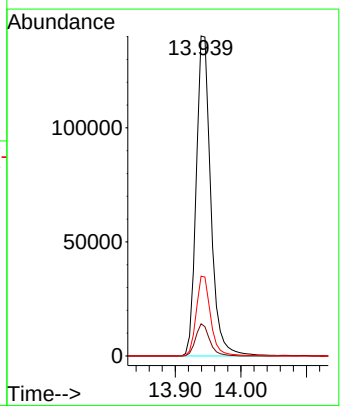


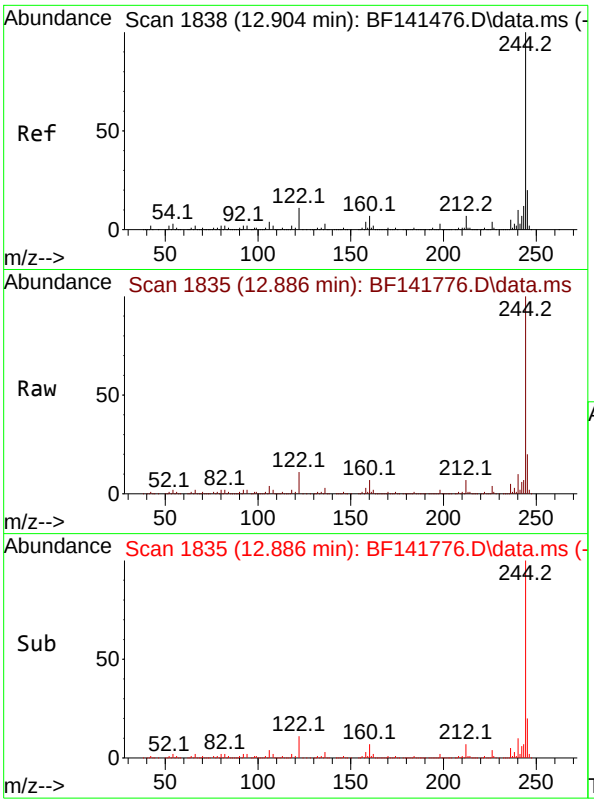


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Tgt Ion:240 Resp: 217249

Ion	Ratio	Lower	Upper
240	100		
120	10.0	8.0	12.0
236	24.9	19.8	29.8



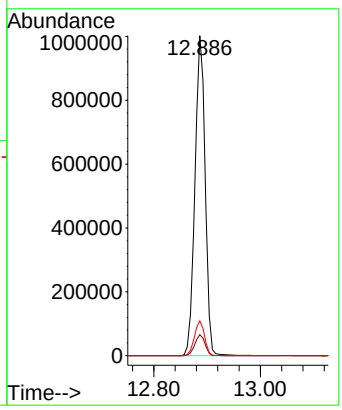


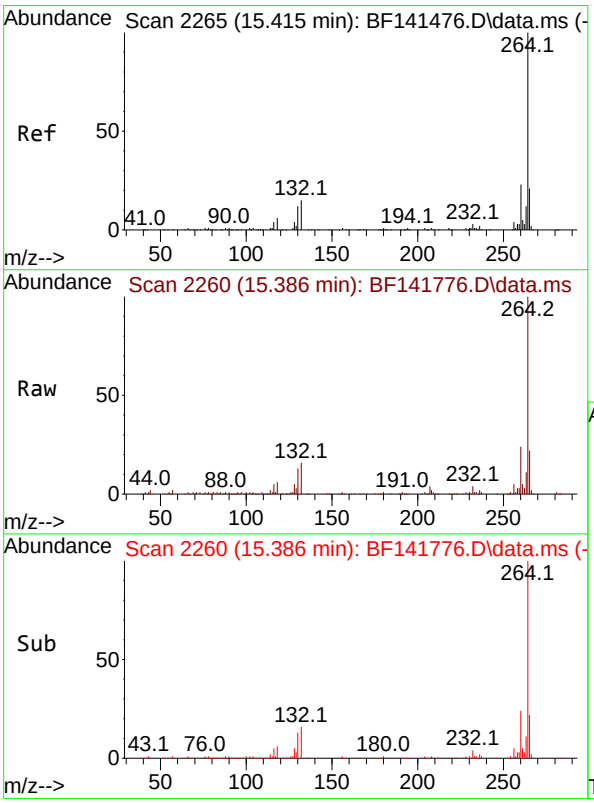
#79
Terphenyl-d14
Concen: 104.065 ng
RT: 12.886 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Tgt Ion:244 Resp: 1339199

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.6	8.4
122	10.9	8.4	12.6

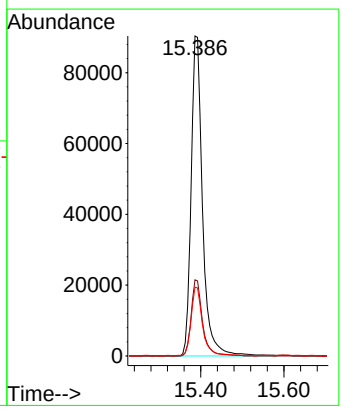




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Tgt Ion:264 Resp: 172479

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.6	28.0
265	21.5	17.0	25.4



Sample Results: **BF141776.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166853BL

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-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141776.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.410	559	564	592	rBV	1791256	2537814	73.52%	13.446%
2	6.428	731	737	771	rBV	1693710	2506219	72.61%	13.279%
3	6.781	792	797	813	rVB	371805	480196	13.91%	2.544%
4	7.345	887	893	922	rBV	1167216	1673975	48.50%	8.869%
5	8.063	1009	1015	1034	rBV	426239	631629	18.30%	3.347%
6	9.134	1191	1197	1231	rBV	2277833	3198026	92.65%	16.945%
7	9.816	1307	1313	1334	rBV	520195	734935	21.29%	3.894%
8	10.604	1442	1447	1479	rBV	1293803	1878893	54.43%	9.955%
9	11.298	1560	1565	1585	rBV	513083	761297	22.06%	4.034%
10	12.886	1829	1835	1840	rBV	2609654	3451671	100.00%	18.288%
11	13.939	2009	2014	2029	rBV	373186	562712	16.30%	2.981%
12	15.386	2254	2260	2272	rBV	243364	456086	13.21%	2.417%

Sum of corrected areas: 18873453

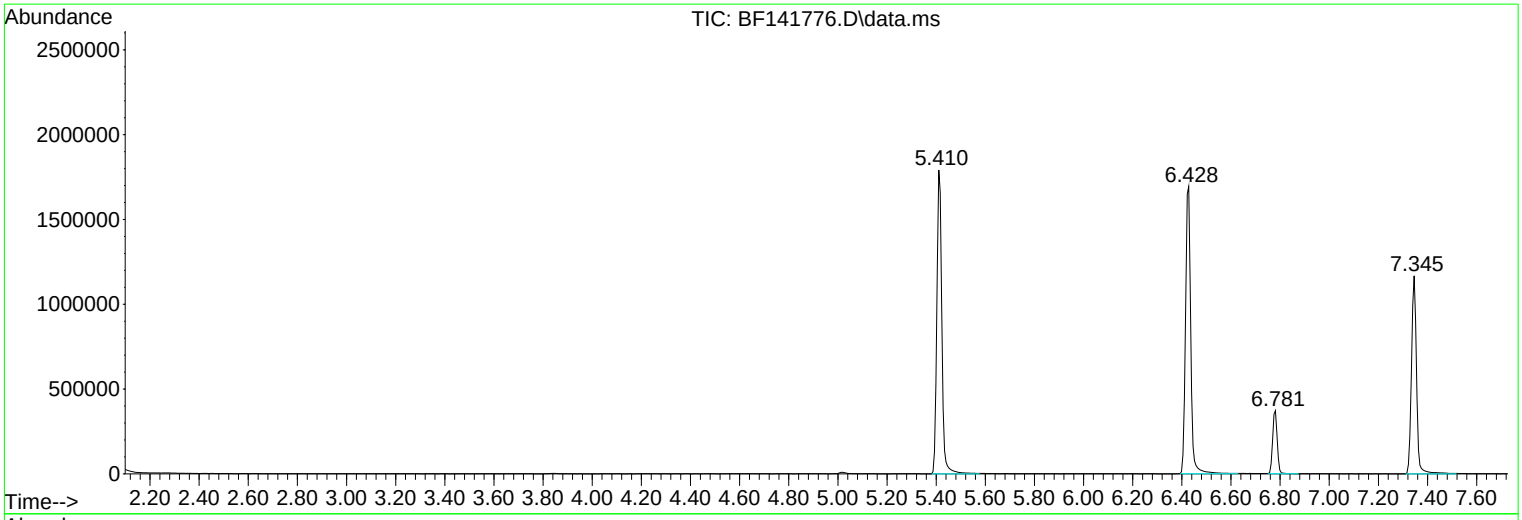
Sample Results: **BF141776.D**

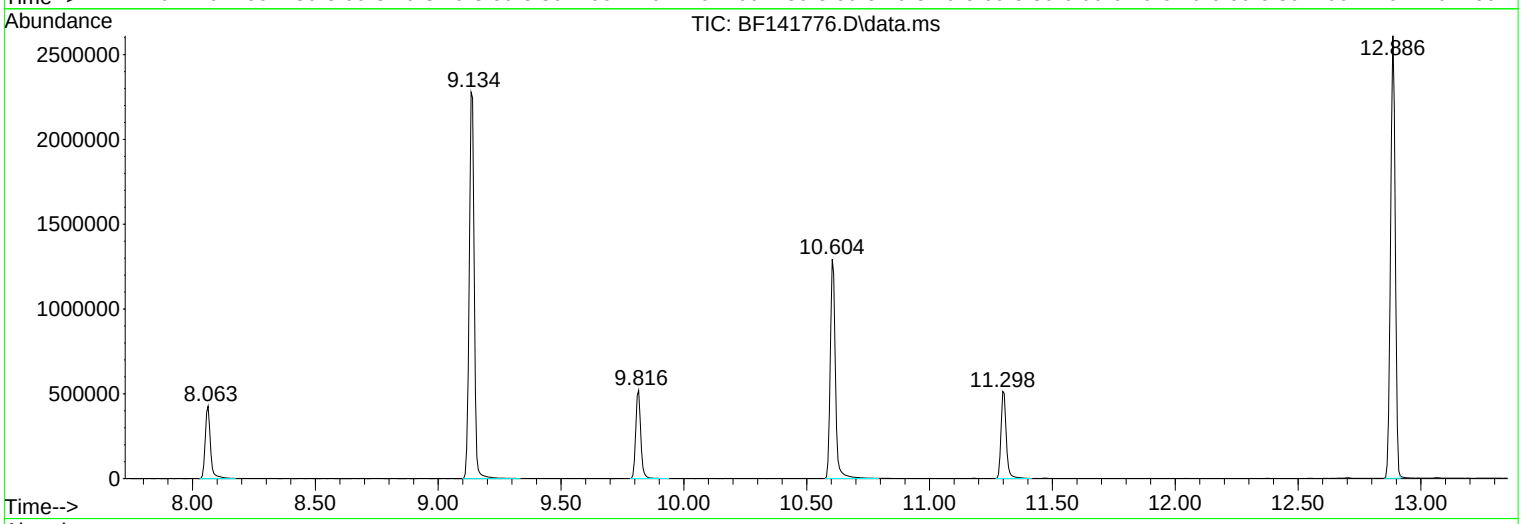
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

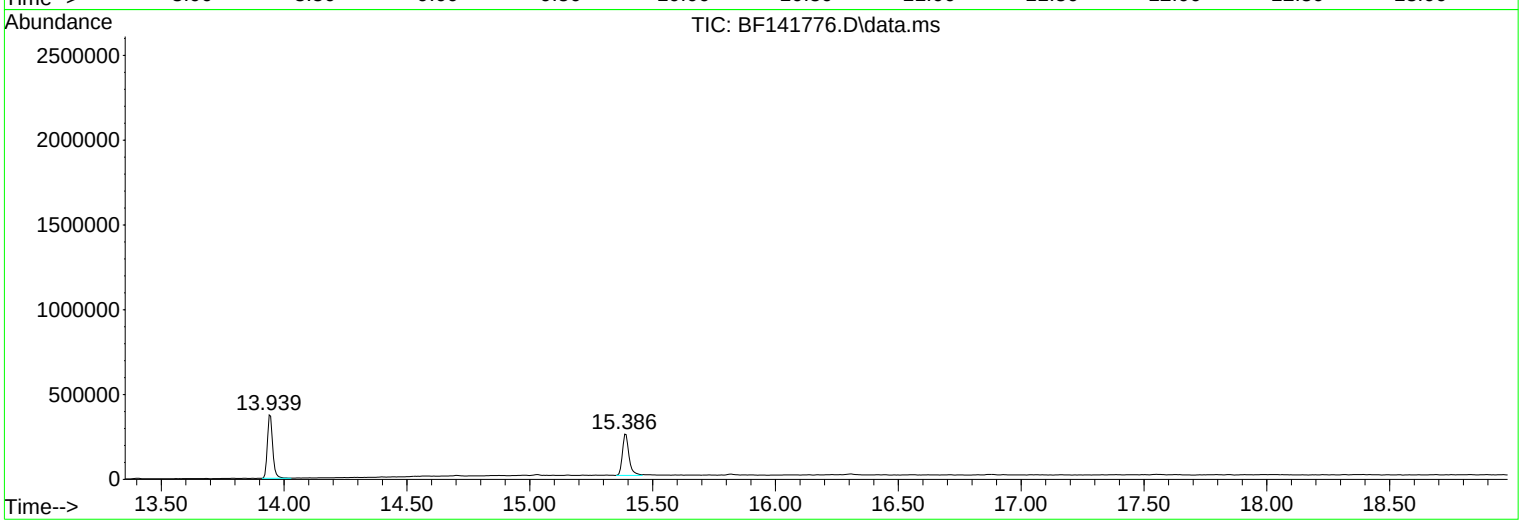
Instrument :
BNA_F
ClientSampleId :
PB166853BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.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: **BF141776.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.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_F\Data\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141780.D
Acq On : 26 Feb 2025 13:55
Operator : RC/JU
Sample : PB166875BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Quant Time: Feb 26 14:15:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

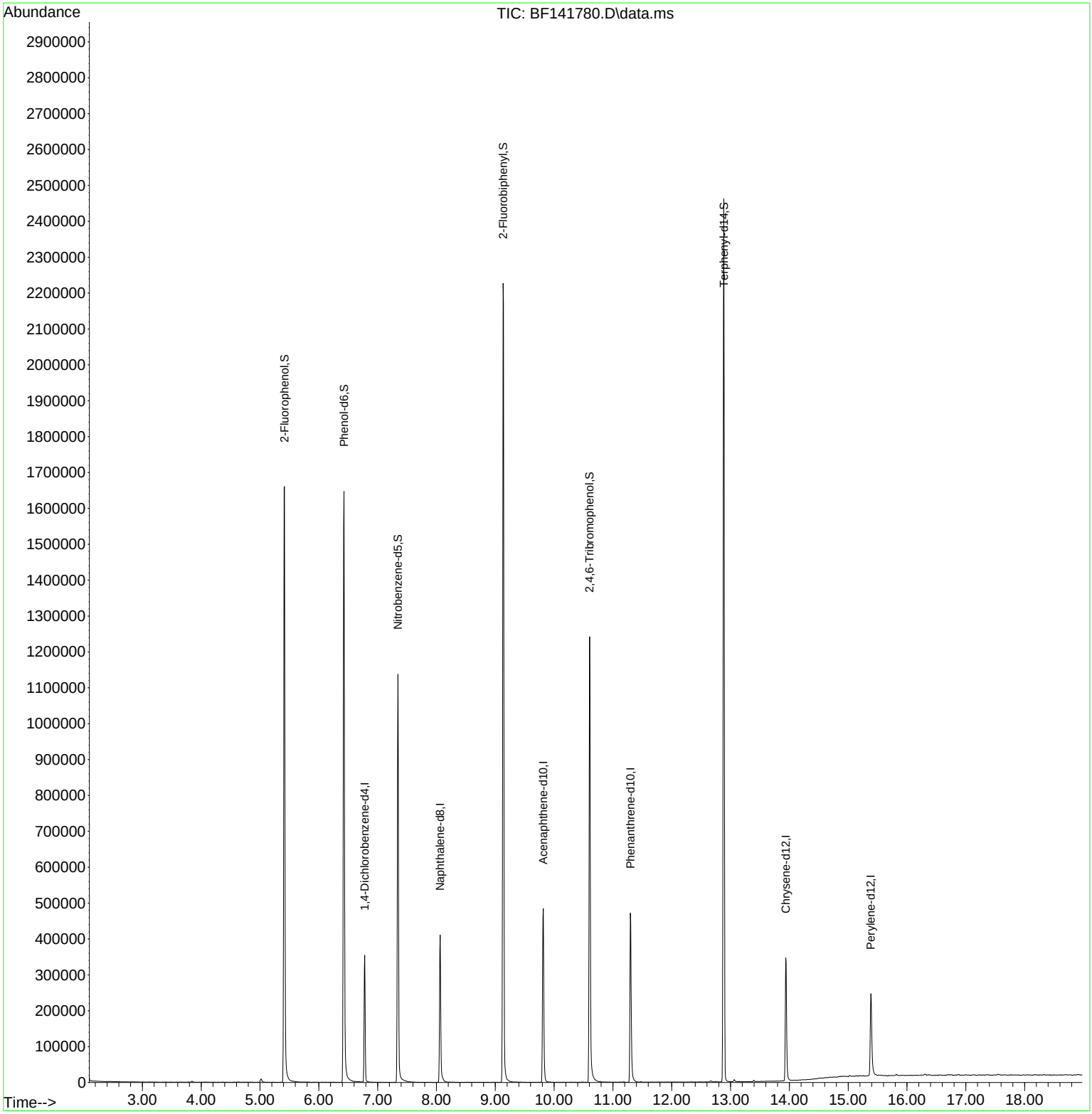
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	76736	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	309972	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	172156	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	297565	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	205070	20.000	ng	-0.02
86) Perylene-d12	15.386	264	168978	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	690992	141.172	ng	0.00
7) Phenol-d6	6.428	99	838878	135.599	ng	-0.01
23) Nitrobenzene-d5	7.345	82	543627	91.475	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	229764	132.859	ng	-0.02
45) 2-Fluorobiphenyl	9.133	172	1079942	96.645	ng	-0.02
79) Terphenyl-d14	12.886	244	1286585	105.914	ng	-0.02
Target Compounds						Qvalue

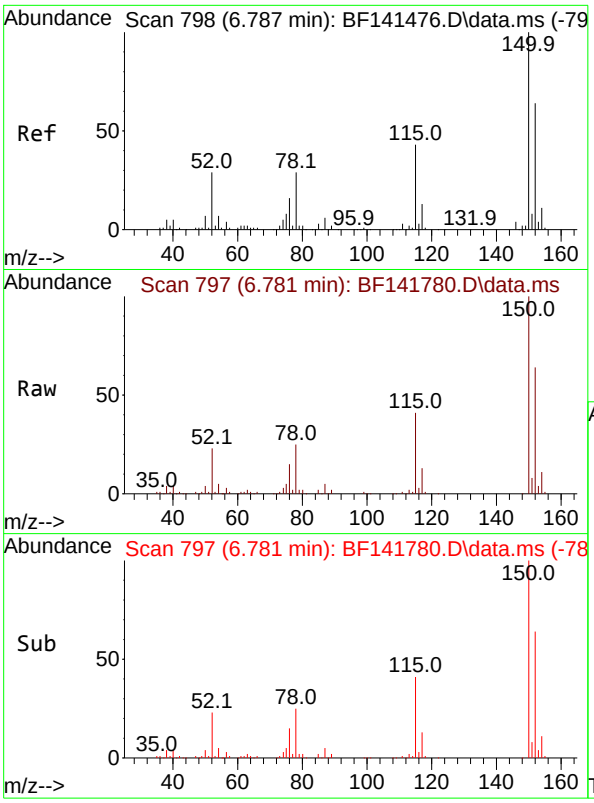
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141780.D
Acq On : 26 Feb 2025 13:55
Operator : RC/JU
Sample : PB166875BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Quant Time: Feb 26 14:15:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



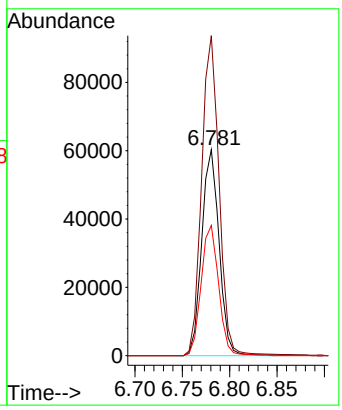


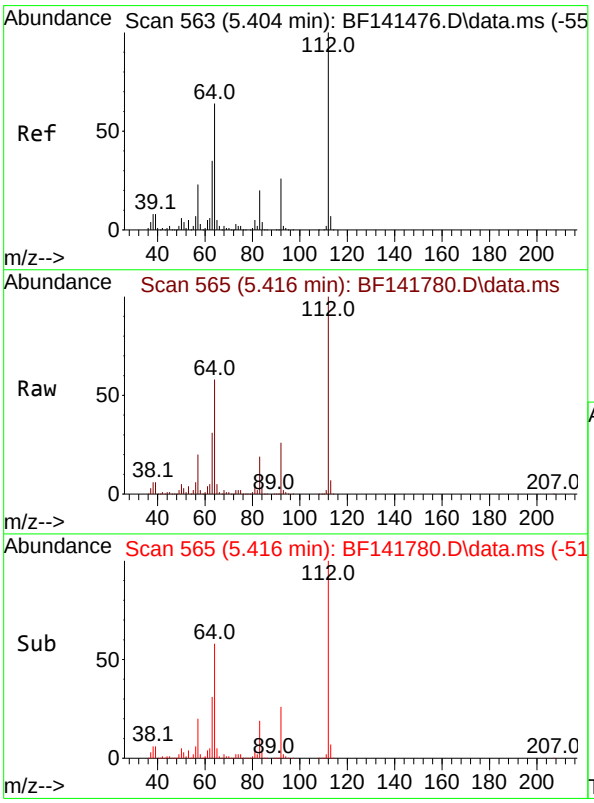
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Tgt Ion:152 Resp: 76736

Ion	Ratio	Lower	Upper
152	100		
150	155.2	125.0	187.4
115	63.2	53.6	80.4

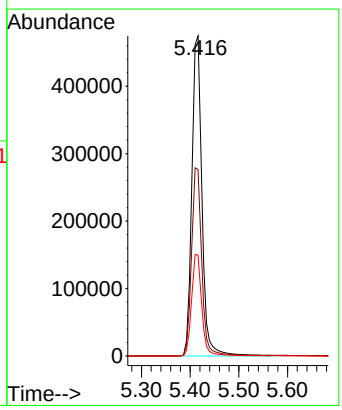


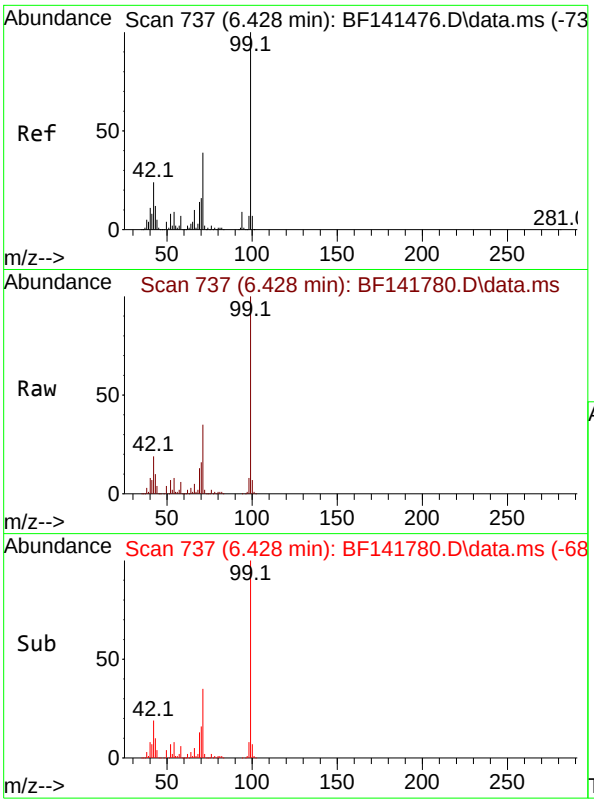


#5
2-Fluorophenol
Concen: 141.172 ng
RT: 5.416 min Scan# 565
Delta R.T. 0.006 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Tgt Ion:112 Resp: 690992

Ion	Ratio	Lower	Upper
112	100		
64	58.3	51.1	76.7
63	31.4	28.4	42.6



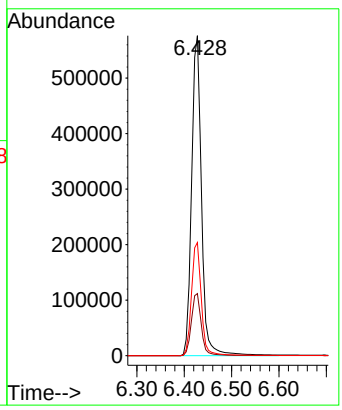


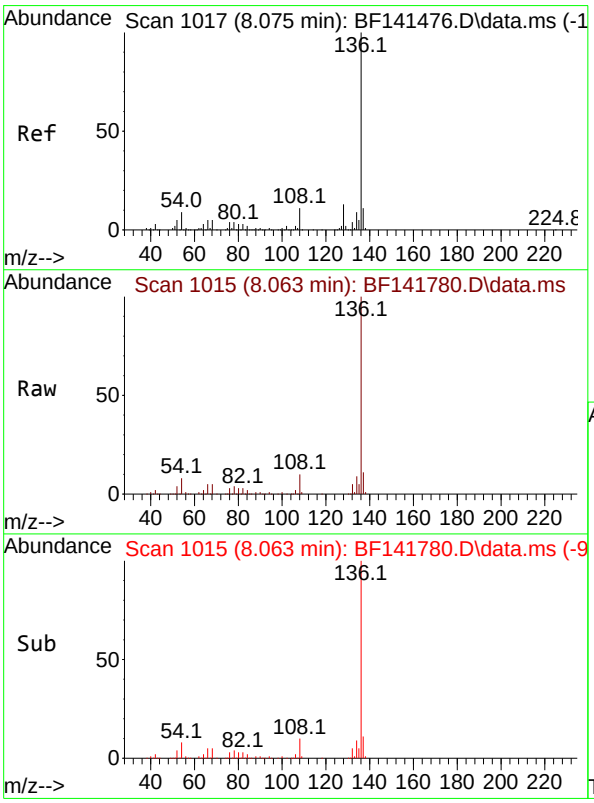
#7
Phenol-d6
Concen: 135.599 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Tgt Ion: 99 Resp: 838878

Ion	Ratio	Lower	Upper
99	100		
42	19.4	19.1	28.7
71	35.3	31.1	46.7

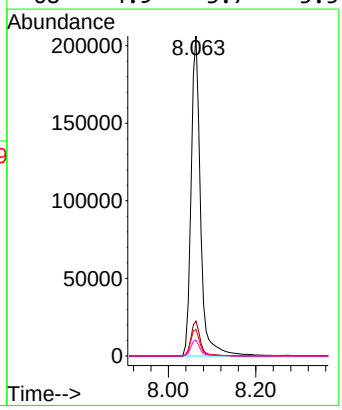


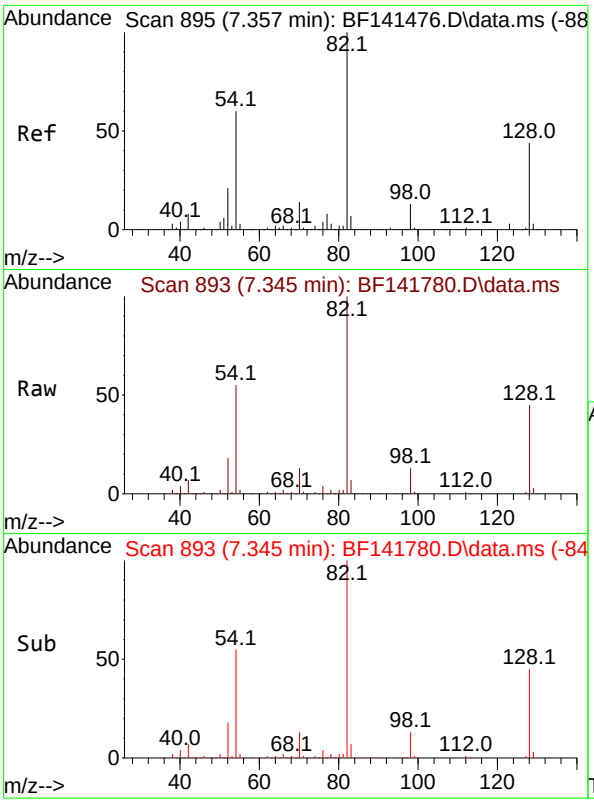


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Tgt Ion:136 Resp: 309972

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.3	7.2	10.8
68	4.9	3.7	5.5



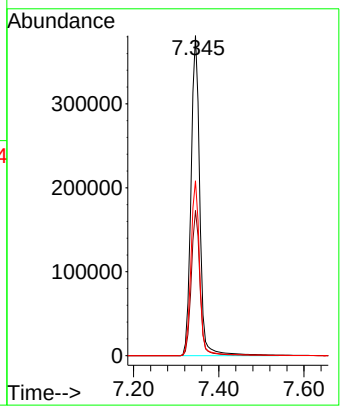


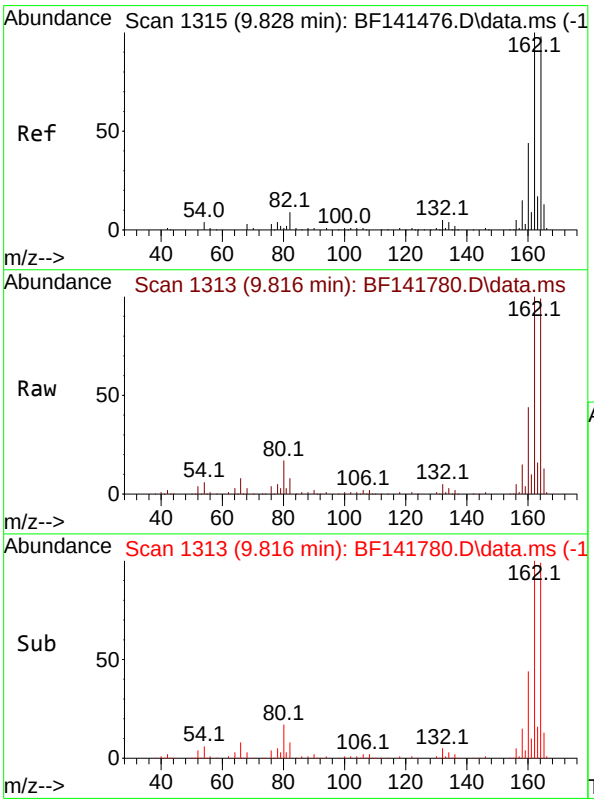
#23
Nitrobenzene-d5
Concen: 91.475 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Tgt Ion: 82 Resp: 543627

Ion	Ratio	Lower	Upper
82	100		
128	45.4	34.8	52.2
54	54.6	48.2	72.4

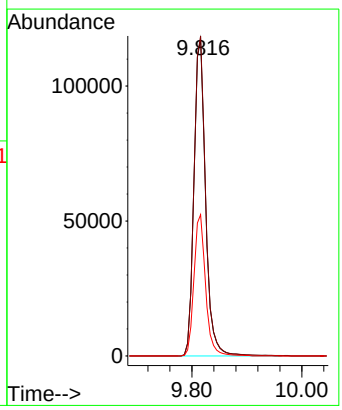


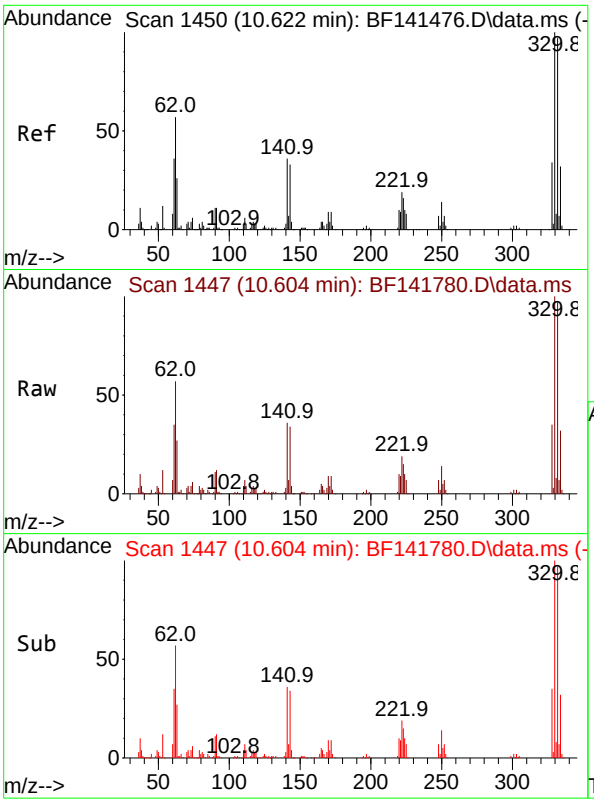


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 1313
Delta R.T. -0.018 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Tgt Ion:164 Resp: 172156

Ion	Ratio	Lower	Upper
164	100		
162	101.0	81.3	121.9
160	44.6	35.9	53.9



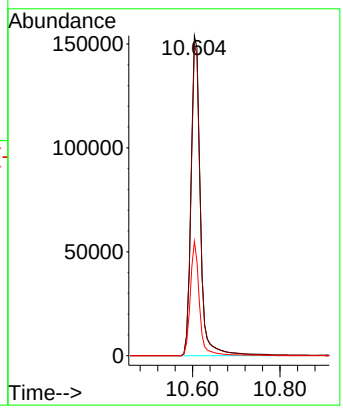


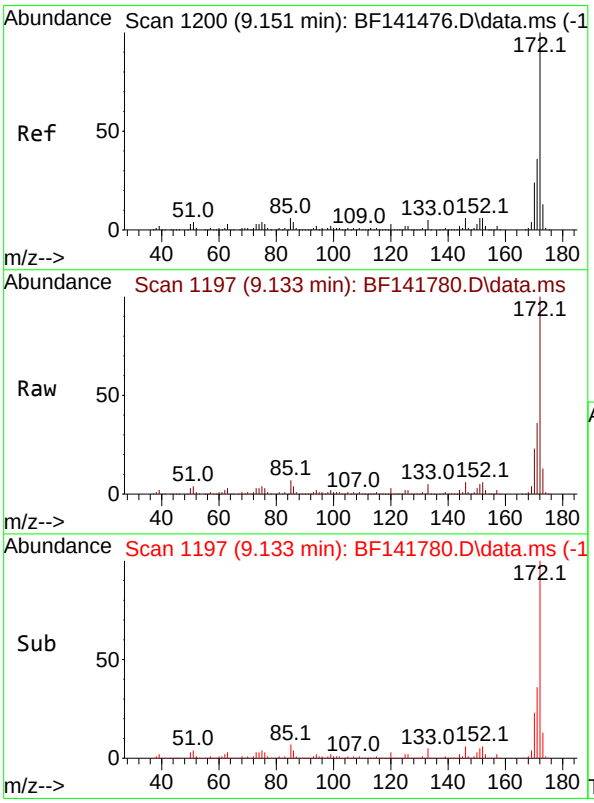
#42
2,4,6-Tribromophenol
Concen: 132.859 ng
RT: 10.604 min Scan# 14
Delta R.T. -0.023 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Tgt Ion:330 Resp: 229764

Ion	Ratio	Lower	Upper
330	100		
332	97.4	78.5	117.7
141	34.7	31.0	46.4

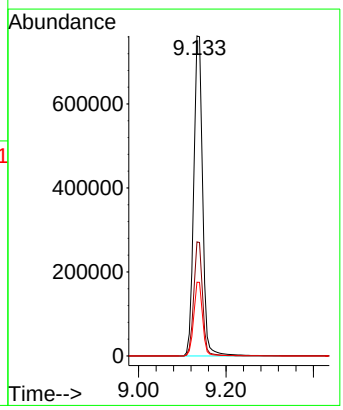


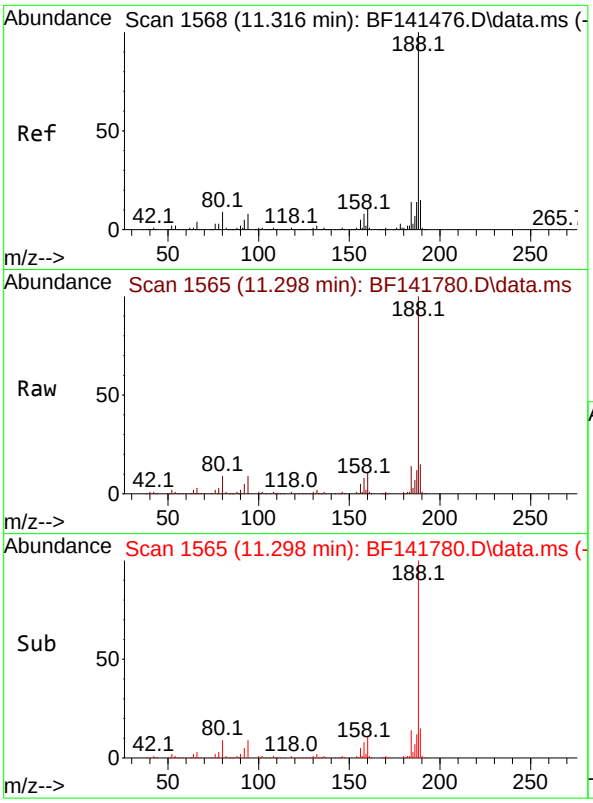


#45
2-Fluorobiphenyl
Concen: 96.645 ng
RT: 9.133 min Scan# 1197
Delta R.T. -0.018 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Tgt Ion:172 Resp: 1079942

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.7	43.1
170	23.1	18.9	28.3



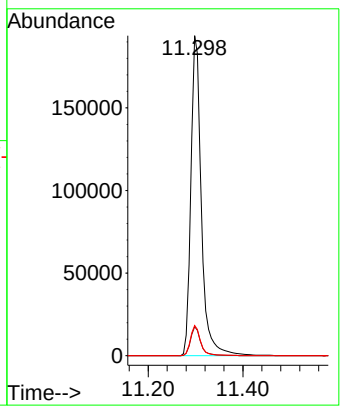


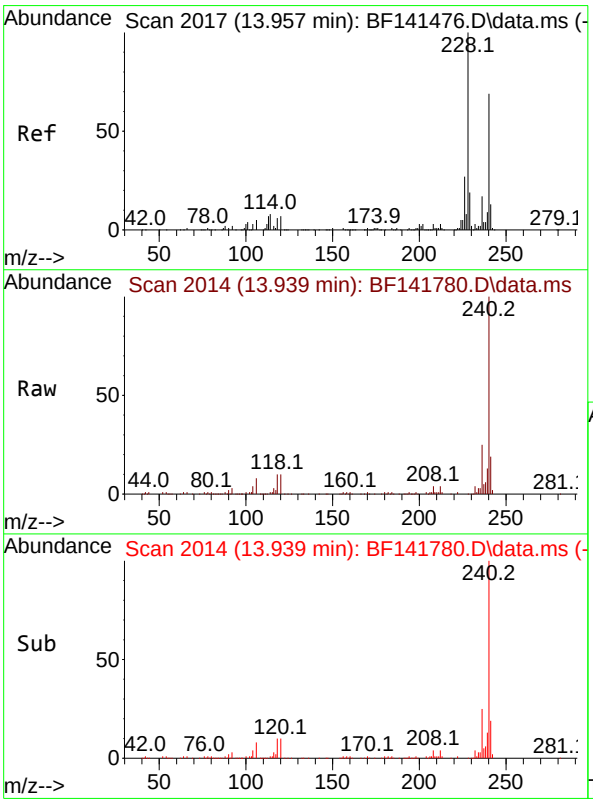
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Tgt Ion:188 Resp: 297565

Ion	Ratio	Lower	Upper
188	100		
94	9.0	6.6	10.0
80	9.5	7.3	10.9

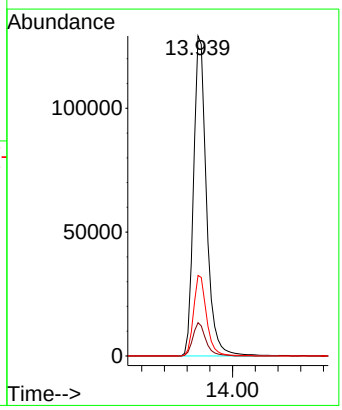


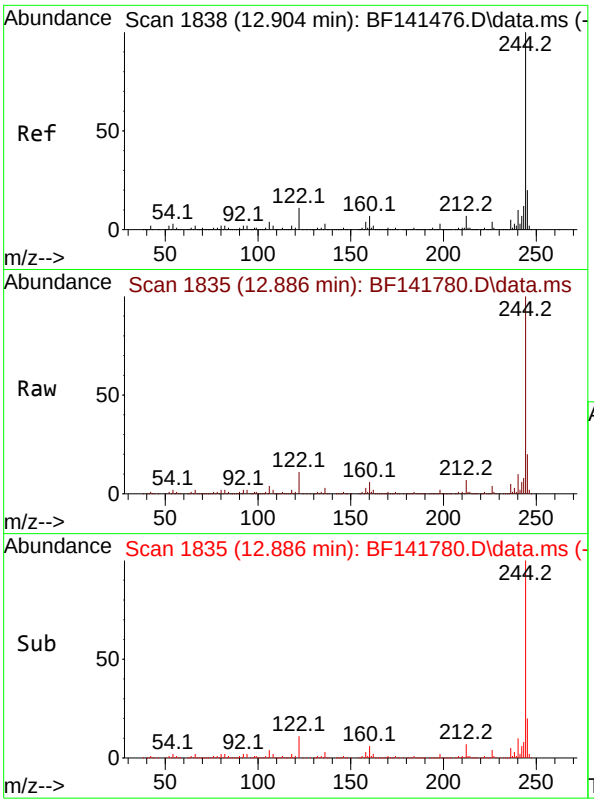


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Tgt Ion:240 Resp: 205070

Ion	Ratio	Lower	Upper
240	100		
120	10.4	8.0	12.0
236	25.1	19.8	29.8



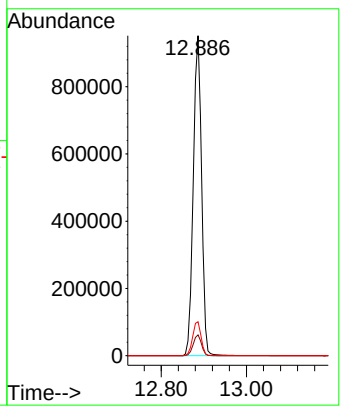


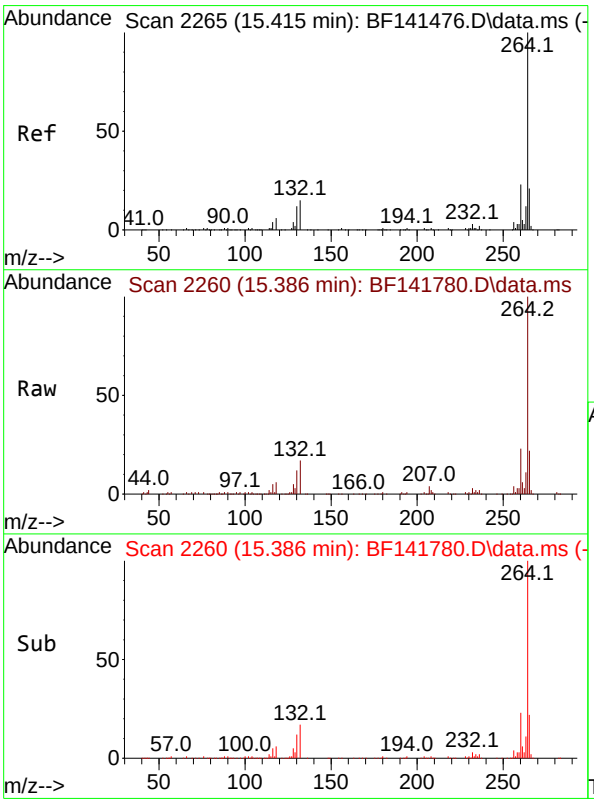
#79
Terphenyl-d14
Concen: 105.914 ng
RT: 12.886 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Tgt Ion:244 Resp: 1286585

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.6	8.4
122	10.6	8.4	12.6

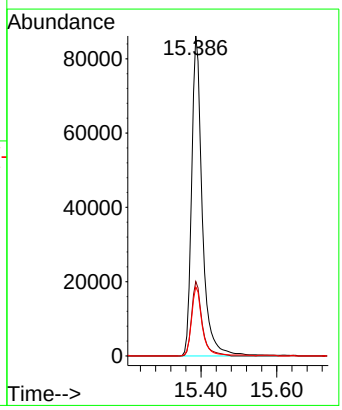




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Tgt Ion:264 Resp: 168978

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	21.6	17.0	25.4



Sample Results: **BF141780.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141780.D
Acq On : 26 Feb 2025 13:55
Operator : RC/JU
Sample : PB166875BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166875BL

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-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141780.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.416	559	565	590	rBV	1659137	2438000	73.46%	13.449%
2	6.428	731	737	766	rBV	1646884	2406444	72.51%	13.275%
3	6.781	792	797	811	rVB	353647	450721	13.58%	2.486%
4	7.345	887	893	924	rBV	1137657	1618662	48.78%	8.929%
5	8.063	1009	1015	1040	rBV	410466	607975	18.32%	3.354%
6	9.133	1191	1197	1227	rBV	2227208	3096525	93.31%	17.082%
7	9.816	1307	1313	1327	rBV	484181	705275	21.25%	3.891%
8	10.604	1442	1447	1475	rBV	1242034	1794300	54.07%	9.898%
9	11.298	1560	1565	1588	rBV	471487	715714	21.57%	3.948%
10	12.886	1829	1835	1848	rBV	2460799	3318618	100.00%	18.307%
11	13.939	2009	2014	2031	rBV	343084	539706	16.26%	2.977%
12	15.386	2254	2260	2279	rBV	228373	435941	13.14%	2.405%

Sum of corrected areas: 18127881

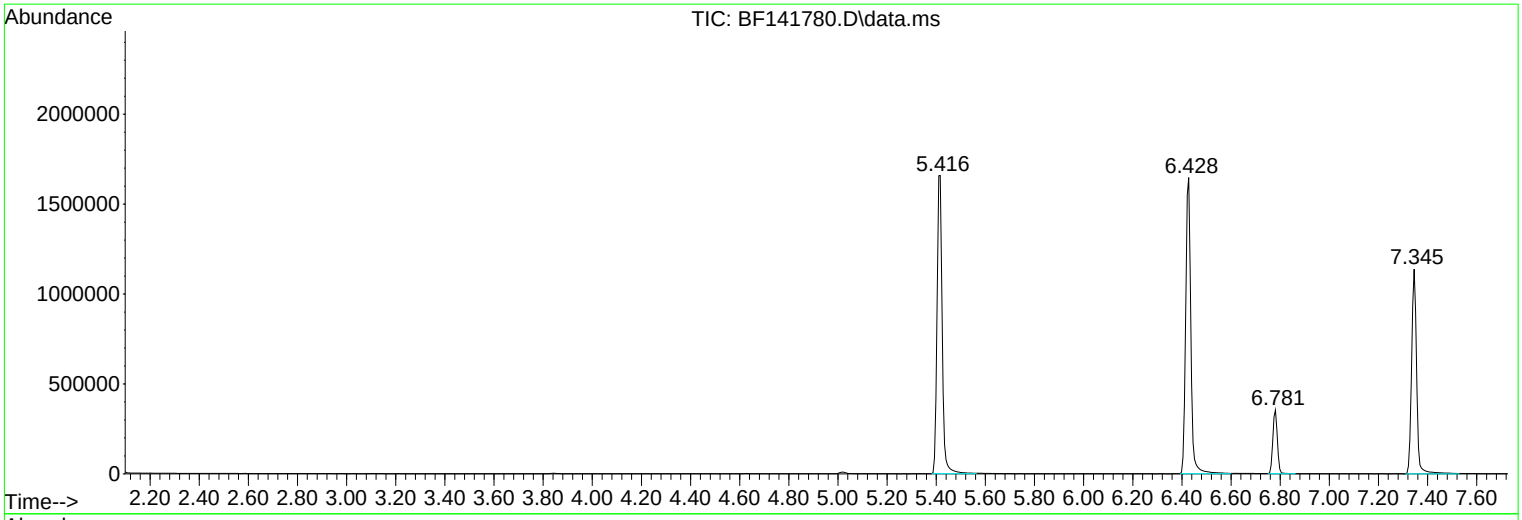
Sample Results: **BF141780.D**

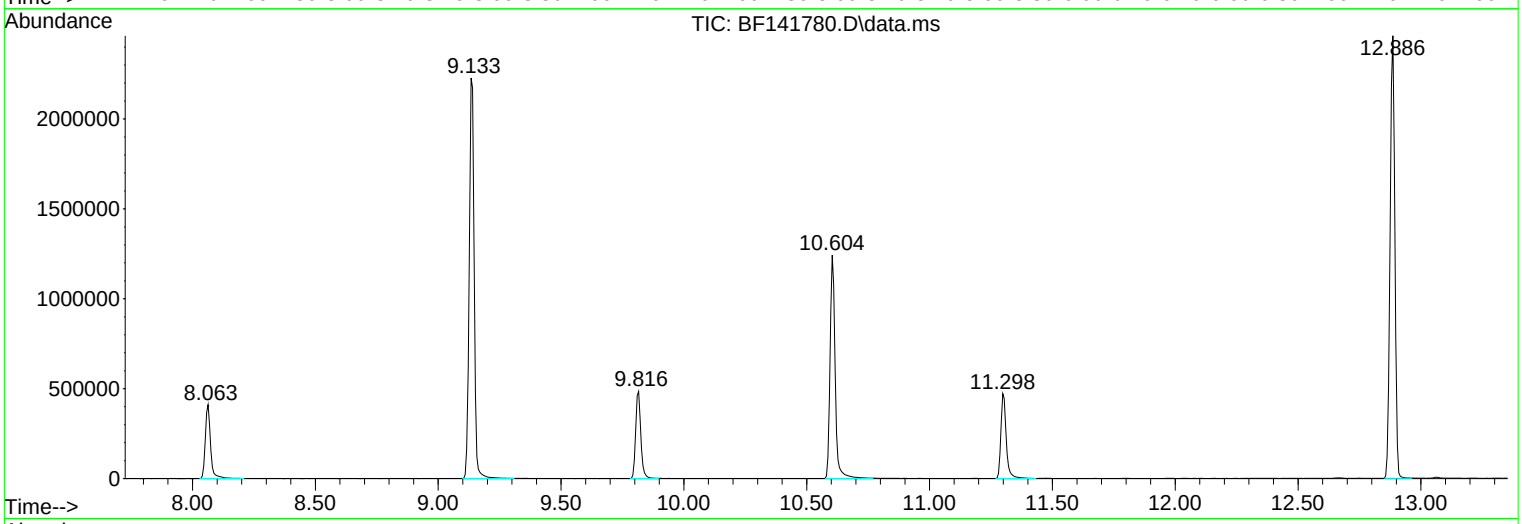
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141780.D
Acq On : 26 Feb 2025 13:55
Operator : RC/JU
Sample : PB166875BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

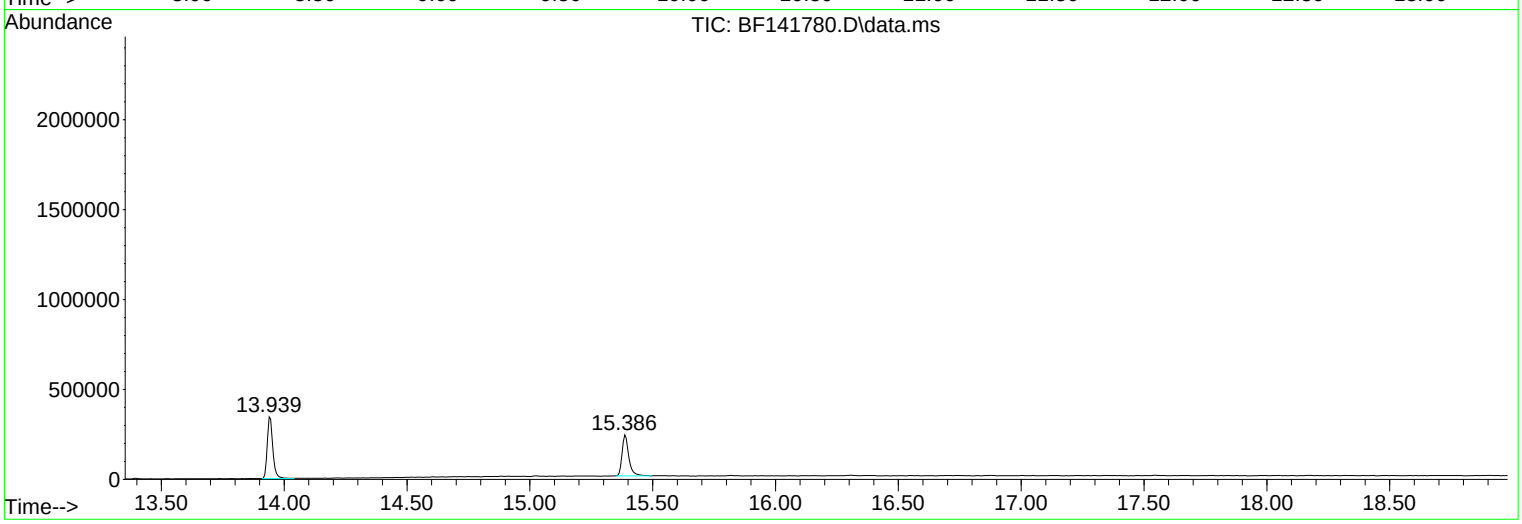
Instrument :
BNA_F
ClientSampleId :
PB166875BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.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: **BF141780.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141780.D
Acq On : 26 Feb 2025 13:55
Operator : RC/JU
Sample : PB166875BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.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_F\Data\BF022625\
Data File : BF141780.D
Acq On : 26 Feb 2025 13:55
Operator : RC/JU
Sample : PB166875BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141777.D
Acq On : 26 Feb 2025 12:19
Operator : RC/JU
Sample : PB166853BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 13:24:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.781	152	81688	20.000	ng		-0.01
21) Naphthalene-d8	8.063	136	331787	20.000	ng		-0.01
39) Acenaphthene-d10	9.816	164	180365	20.000	ng		-0.02
64) Phenanthrene-d10	11.304	188	319305	20.000	ng		-0.01
76) Chrysene-d12	13.945	240	191917	20.000	ng		-0.02
86) Perylene-d12	15.386	264	177241	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.416	112	716848	137.576	ng		0.00
7) Phenol-d6	6.428	99	865294	131.390	ng		-0.01
23) Nitrobenzene-d5	7.351	82	558919	87.864	ng		-0.01
42) 2,4,6-Tribromophenol	10.610	330	262131	144.676	ng		-0.02
45) 2-Fluorobiphenyl	9.139	172	1122463	95.879	ng		-0.01
79) Terphenyl-d14	12.886	244	1319483	116.067	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	2.569	88	86876	41.426	ng		94
3) Pyridine	3.304	79	204895	41.058	ng		91
4) n-Nitrosodimethylamine	3.252	42	121475	36.762	ng		87
6) Aniline	6.445	93	218407	35.354	ng	#	73
8) 2-Chlorophenol	6.575	128	257670	45.766	ng		97
9) Benzaldehyde	6.334	77	100149	28.617	ng		97
10) Phenol	6.445	94	297590	43.416	ng		96
11) bis(2-Chloroethyl)ether	6.516	93	236565	45.949	ng		97
12) 1,3-Dichlorobenzene	6.722	146	268531	45.177	ng		97
13) 1,4-Dichlorobenzene	6.798	146	269542	44.384	ng		99
14) 1,2-Dichlorobenzene	6.951	146	260378	46.195	ng		99
15) Benzyl Alcohol	6.928	79	214872	42.547	ng		96
16) 2,2'-oxybis(1-Chloropr...	7.057	45	344765	39.119	ng		61
17) 2-Methylphenol	7.051	107	195576	44.389	ng		94
18) Hexachloroethane	7.287	117	100289	44.622	ng		97
19) n-Nitroso-di-n-propyla...	7.198	70	171908	43.639	ng		91
20) 3+4-Methylphenols	7.204	107	257970	46.071	ng	#	75
22) Acetophenone	7.192	105	390944	47.368	ng	#	91
24) Nitrobenzene	7.369	77	259378	41.815	ng		96
25) Isophorone	7.604	82	462376	45.587	ng		98
26) 2-Nitrophenol	7.681	139	138079	44.743	ng		92
27) 2,4-Dimethylphenol	7.728	122	201881	55.997	ng		97
28) bis(2-Chloroethoxy)met...	7.816	93	290160	44.645	ng		100
29) 2,4-Dichlorophenol	7.934	162	216937	44.535	ng		98
30) 1,2,4-Trichlorobenzene	8.004	180	233773	44.071	ng		99
31) Naphthalene	8.086	128	740758	42.891	ng		99
32) Benzoic acid	7.875	122	136752	36.518	ng		97
33) 4-Chloroaniline	8.139	127	134615	22.325	ng		97
34) Hexachlorobutadiene	8.198	225	142354	44.702	ng		99
35) Caprolactam	8.516	113	76597m	51.646	ng		
36) 4-Chloro-3-methylphenol	8.633	107	234899	43.534	ng		100
37) 2-Methylnaphthalene	8.775	142	471459	41.950	ng		99
38) 1-Methylnaphthalene	8.875	142	460135	42.273	ng		99
40) 1,2,4,5-Tetrachloroben...	8.945	216	261645	50.141	ng		98
41) Hexachlorocyclopentadiene	8.928	237	221790	127.788	ng		99
43) 2,4,6-Trichlorophenol	9.063	196	150125	44.513	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141777.D
Acq On : 26 Feb 2025 12:19
Operator : RC/JU
Sample : PB166853BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 13:24:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	162948	44.581	ng	97
46) 1,1'-Biphenyl	9.239	154	686888	49.122	ng	99
47) 2-Chloronaphthalene	9.263	162	470296	45.482	ng	99
48) 2-Nitroaniline	9.369	65	146947	42.345	ng	89
49) Acenaphthylene	9.681	152	721764	46.929	ng	99
50) Dimethylphthalate	9.539	163	571666	46.687	ng	99
51) 2,6-Dinitrotoluene	9.610	165	125505	46.887	ng	92
52) Acenaphthene	9.851	154	448107	43.338	ng	99
53) 3-Nitroaniline	9.780	138	78775	27.343	ng	98
54) 2,4-Dinitrophenol	9.898	184	144884	91.073	ng	86
55) Dibenzofuran	10.022	168	650259	42.845	ng	98
56) 4-Nitrophenol	9.963	139	165178	77.235	ng	92
57) 2,4-Dinitrotoluene	10.016	165	167288	46.946	ng	99
58) Fluorene	10.369	166	534517	45.550	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.151	232	141879	45.087	ng	94
60) Diethylphthalate	10.239	149	555522	46.112	ng	100
61) 4-Chlorophenyl-phenyle...	10.357	204	264126	46.786	ng	97
62) 4-Nitroaniline	10.398	138	129151	44.149	ng	93
63) Azobenzene	10.516	77	510011	42.585	ng	95
65) 4,6-Dinitro-2-methylph...	10.428	198	96796	43.640	ng	90
66) n-Nitrosodiphenylamine	10.480	169	466927	45.682	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	167414	46.912	ng	99
68) Hexachlorobenzene	10.916	284	174013	47.354	ng	98
69) Atrazine	11.010	200	183372	59.801	ng	99
70) Pentachlorophenol	11.116	266	172467	73.399	ng	100
71) Phenanthrene	11.327	178	795359	45.252	ng	100
72) Anthracene	11.380	178	834948	47.256	ng	100
73) Carbazole	11.539	167	713496	44.880	ng	99
74) Di-n-butylphthalate	11.863	149	878298	47.846	ng	99
75) Fluoranthene	12.516	202	832656	44.684	ng	99
77) Benzidine	12.639	184	212949	50.312	ng	99
78) Pyrene	12.745	202	829507	50.774	ng	99
80) Butylbenzylphthalate	13.357	149	311733	55.088	ng	98
81) Benzo(a)anthracene	13.933	228	616649	48.337	ng	99
82) 3,3'-Dichlorobenzidine	13.898	252	123372	33.760	ng	98
83) Chrysene	13.968	228	555284	47.140	ng	99
84) Bis(2-ethylhexyl)phtha...	13.916	149	394616	61.830	ng	100
85) Di-n-octyl phthalate	14.527	149	565858	62.150	ng	96
87) Indeno(1,2,3-cd)pyrene	16.827	276	565885	51.672	ng	99
88) Benzo(b)fluoranthene	14.968	252	481397	40.451	ng	99
89) Benzo(k)fluoranthene	14.998	252	411471	40.490	ng	99
90) Benzo(a)pyrene	15.327	252	468144	48.614	ng	98
91) Dibenzo(a,h)anthracene	16.839	278	461450	52.001	ng	99
92) Benzo(g,h,i)perylene	17.262	276	439909	47.372	ng	100

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

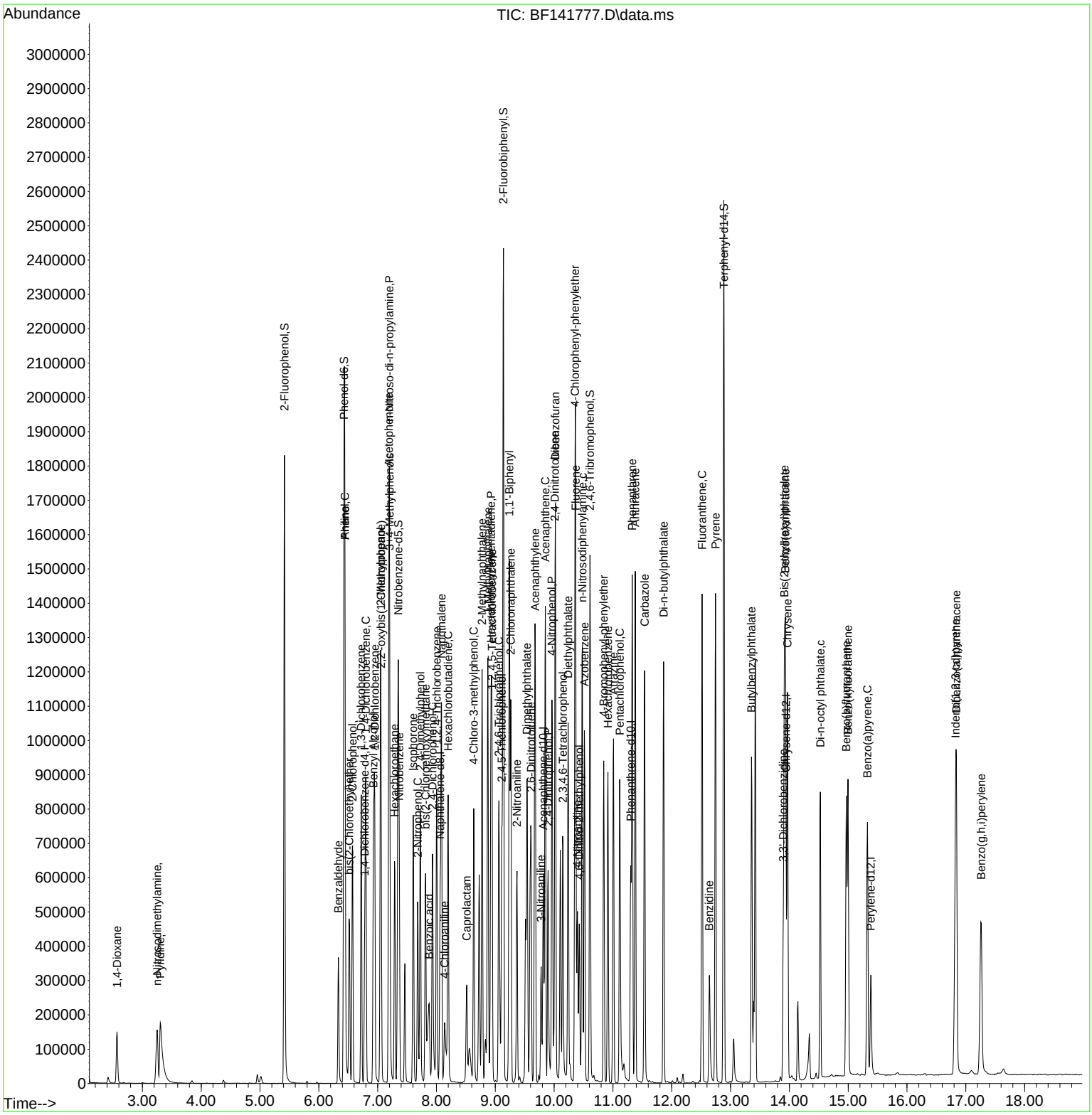
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141777.D
Acq On : 26 Feb 2025 12:19
Operator : RC/JU
Sample : PB166853BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 13:24:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141781.D
Acq On : 26 Feb 2025 14:24
Operator : RC/JU
Sample : PB166875BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 26 14:49:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166875BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.781	152	82911	20.000	ng		-0.01
21) Naphthalene-d8	8.063	136	323947	20.000	ng		-0.01
39) Acenaphthene-d10	9.816	164	182265	20.000	ng		-0.02
64) Phenanthrene-d10	11.304	188	312748	20.000	ng		-0.01
76) Chrysene-d12	13.945	240	195301	20.000	ng		-0.02
86) Perylene-d12	15.386	264	182516	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.416	112	673219	127.297	ng		0.00
7) Phenol-d6	6.428	99	807007	120.732	ng		-0.01
23) Nitrobenzene-d5	7.345	82	524750	84.489	ng		-0.02
42) 2,4,6-Tribromophenol	10.610	330	237563	129.750	ng		-0.02
45) 2-Fluorobiphenyl	9.139	172	1043412	88.197	ng		-0.01
79) Terphenyl-d14	12.886	244	1182445	102.210	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	2.569	88	85137	39.998	ng		94
3) Pyridine	3.304	79	192879	38.080	ng		91
4) n-Nitrosodimethylamine	3.252	42	112190	33.451	ng		82
6) Aniline	6.445	93	200731	32.014	ng	#	74
8) 2-Chlorophenol	6.575	128	239459	41.904	ng		97
9) Benzaldehyde	6.334	77	92138	25.939	ng		95
10) Phenol	6.445	94	279580	40.186	ng		96
11) bis(2-Chloroethyl)ether	6.516	93	217324	41.589	ng		98
12) 1,3-Dichlorobenzene	6.722	146	251217	41.641	ng		96
13) 1,4-Dichlorobenzene	6.798	146	258861	41.996	ng		98
14) 1,2-Dichlorobenzene	6.951	146	243027	42.481	ng		99
15) Benzyl Alcohol	6.934	79	201589	39.328	ng		95
16) 2,2'-oxybis(1-Chloropr...	7.057	45	326181	36.465	ng		61
17) 2-Methylphenol	7.051	107	181224	40.525	ng		94
18) Hexachloroethane	7.287	117	93620	41.040	ng		98
19) n-Nitroso-di-n-propyla...	7.198	70	162962	40.758	ng		93
20) 3+4-Methylphenols	7.204	107	242346	42.643	ng	#	76
22) Acetophenone	7.192	105	367081	45.553	ng	#	90
24) Nitrobenzene	7.369	77	241755	39.918	ng		97
25) Isophorone	7.604	82	434291	43.854	ng		98
26) 2-Nitrophenol	7.681	139	131467	43.631	ng		92
27) 2,4-Dimethylphenol	7.728	122	192467	54.678	ng		97
28) bis(2-Chloroethoxy)met...	7.816	93	269950	42.541	ng		100
29) 2,4-Dichlorophenol	7.934	162	202781	42.637	ng		99
30) 1,2,4-Trichlorobenzene	8.004	180	217604	42.015	ng		99
31) Naphthalene	8.087	128	684325	40.582	ng		100
32) Benzoic acid	7.869	122	129768	35.492	ng		97
33) 4-Chloroaniline	8.139	127	104944	17.825	ng		96
34) Hexachlorobutadiene	8.198	225	132425	42.591	ng		99
35) Caprolactam	8.510	113	68121m	47.043	ng		
36) 4-Chloro-3-methylphenol	8.634	107	215925	40.986	ng		98
37) 2-Methylnaphthalene	8.775	142	444714	40.528	ng		100
38) 1-Methylnaphthalene	8.875	142	432503	40.696	ng		98
40) 1,2,4,5-Tetrachloroben...	8.945	216	244851	46.434	ng		99
41) Hexachlorocyclopentadiene	8.928	237	203682	116.131	ng		97
43) 2,4,6-Trichlorophenol	9.063	196	138890	40.753	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141781.D
Acq On : 26 Feb 2025 14:24
Operator : RC/JU
Sample : PB166875BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 26 14:49:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166875BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	151169	40.927	ng	98
46) 1,1'-Biphenyl	9.239	154	645996	45.716	ng	99
47) 2-Chloronaphthalene	9.263	162	439898	42.099	ng	99
48) 2-Nitroaniline	9.369	65	137317	39.158	ng	92
49) Acenaphthylene	9.681	152	672129	43.246	ng	99
50) Dimethylphthalate	9.539	163	525415	42.463	ng	100
51) 2,6-Dinitrotoluene	9.610	165	116118	42.928	ng	92
52) Acenaphthene	9.851	154	418861	40.087	ng	99
53) 3-Nitroaniline	9.781	138	69124	23.743	ng	96
54) 2,4-Dinitrophenol	9.898	184	125363	77.981	ng	88
55) Dibenzofuran	10.022	168	607142	39.587	ng	98
56) 4-Nitrophenol	9.963	139	146206	67.651	ng	91
57) 2,4-Dinitrotoluene	10.016	165	154036	42.777	ng	98
58) Fluorene	10.363	166	494621	41.710	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.145	232	127291	40.029	ng	94
60) Diethylphthalate	10.239	149	506014	41.565	ng	99
61) 4-Chlorophenyl-phenyle...	10.357	204	242441	42.497	ng	97
62) 4-Nitroaniline	10.398	138	114185	38.626	ng	93
63) Azobenzene	10.516	77	468726	38.729	ng	94
65) 4,6-Dinitro-2-methylph...	10.428	198	83764	38.556	ng	92
66) n-Nitrosodiphenylamine	10.475	169	433486	43.299	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	151048	43.214	ng	100
68) Hexachlorobenzene	10.916	284	159239	44.242	ng	96
69) Atrazine	11.010	200	166968	55.593	ng	98
70) Pentachlorophenol	11.116	266	154762	67.245	ng	99
71) Phenanthrene	11.327	178	730566	42.437	ng	100
72) Anthracene	11.380	178	759498	43.887	ng	100
73) Carbazole	11.539	167	646297	41.505	ng	100
74) Di-n-butylphthalate	11.863	149	793310	44.122	ng	99
75) Fluoranthene	12.516	202	752428	41.225	ng	100
77) Benzidine	12.639	184	208167	48.330	ng	100
78) Pyrene	12.745	202	749905	45.106	ng	100
80) Butylbenzylphthalate	13.357	149	285374	49.557	ng	99
81) Benzo(a)anthracene	13.933	228	573656	44.187	ng	99
82) 3,3'-Dichlorobenzidine	13.898	252	116620	31.359	ng	99
83) Chrysene	13.968	228	514777	42.944	ng	99
84) Bis(2-ethylhexyl)phtha...	13.916	149	367049	56.515	ng	99
85) Di-n-octyl phthalate	14.527	149	533634	57.595	ng	96
87) Indeno(1,2,3-cd)pyrene	16.827	276	526450	46.682	ng	99
88) Benzo(b)fluoranthene	14.968	252	460075	37.542	ng	99
89) Benzo(k)fluoranthene	14.998	252	458283	43.793	ng	99
90) Benzo(a)pyrene	15.327	252	439422	44.313	ng	99
91) Dibenzo(a,h)anthracene	16.839	278	426778	46.704	ng	99
92) Benzo(g,h,i)perylene	17.256	276	404443	42.294	ng	99

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

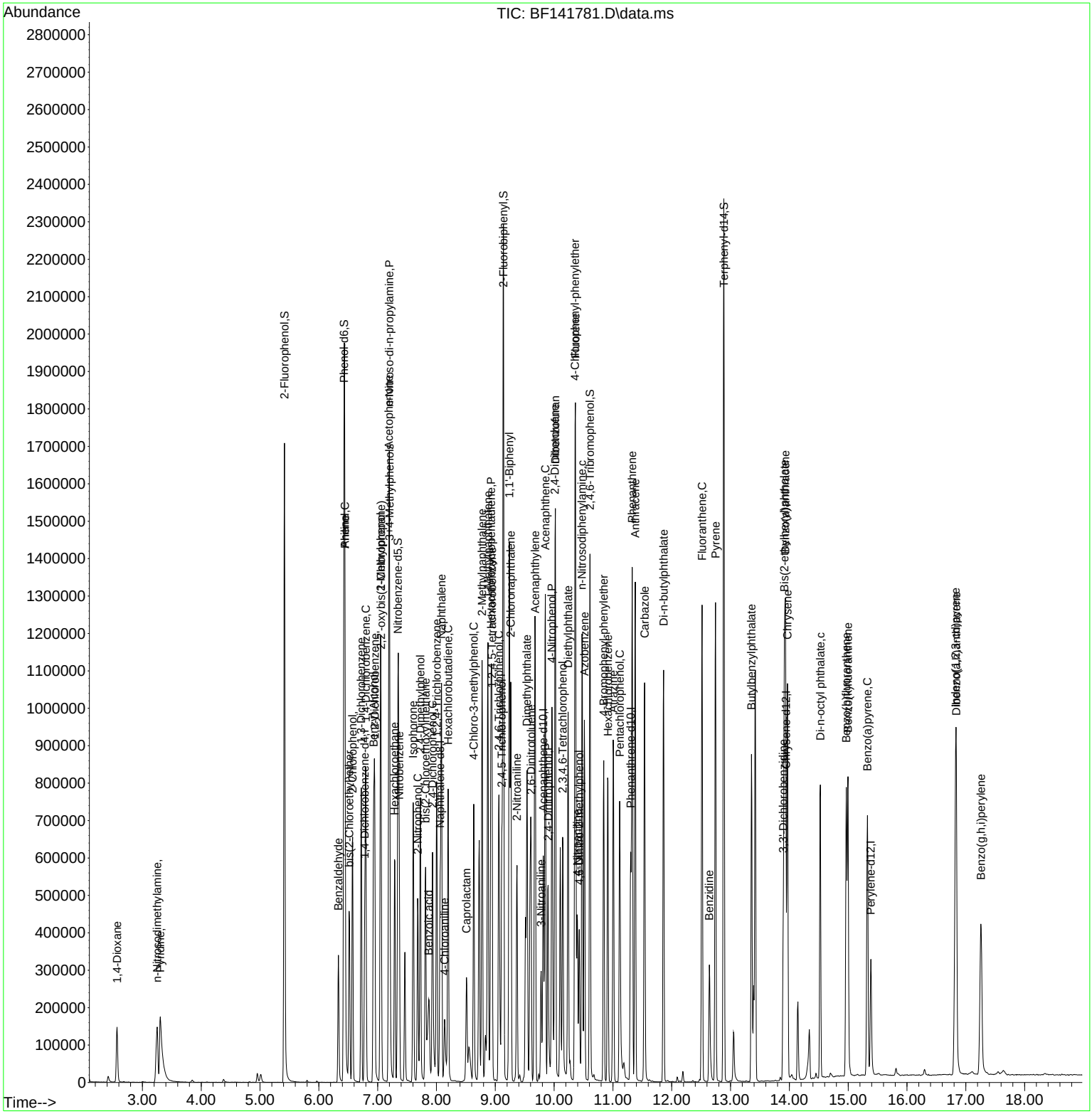
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141781.D
Acq On : 26 Feb 2025 14:24
Operator : RC/JU
Sample : PB166875BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 26 14:49:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166875BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141782.D
Acq On : 26 Feb 2025 14:54
Operator : RC/JU
Sample : PB166875BSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 15:16:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166875BSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.781	152	81030	20.000	ng		-0.01
21) Naphthalene-d8	8.063	136	321539	20.000	ng		-0.01
39) Acenaphthene-d10	9.816	164	179613	20.000	ng		-0.02
64) Phenanthrene-d10	11.304	188	311091	20.000	ng		-0.01
76) Chrysene-d12	13.945	240	197944	20.000	ng		-0.02
86) Perylene-d12	15.386	264	175575	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.416	112	681239	131.804	ng		0.00
7) Phenol-d6	6.428	99	828000	126.748	ng		-0.01
23) Nitrobenzene-d5	7.345	82	538517	87.355	ng		-0.02
42) 2,4,6-Tribromophenol	10.610	330	249647	138.363	ng		-0.02
45) 2-Fluorobiphenyl	9.139	172	1069121	91.705	ng		-0.01
79) Terphenyl-d14	12.886	244	1238225	105.602	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	2.569	88	87106	41.873	ng		94
3) Pyridine	3.304	79	203502	41.110	ng		91
4) n-Nitrosodimethylamine	3.251	42	116448	35.527	ng		87
6) Aniline	6.445	93	205168	33.481	ng	#	73
8) 2-Chlorophenol	6.575	128	245340	43.930	ng		97
9) Benzaldehyde	6.334	77	94366	27.183	ng		96
10) Phenol	6.445	94	286272	42.104	ng		96
11) bis(2-Chloroethyl)ether	6.516	93	223389	43.742	ng		97
12) 1,3-Dichlorobenzene	6.722	146	256355	43.479	ng		97
13) 1,4-Dichlorobenzene	6.798	146	260485	43.241	ng		98
14) 1,2-Dichlorobenzene	6.951	146	250486	44.801	ng		98
15) Benzyl Alcohol	6.934	79	207695	41.460	ng		95
16) 2,2'-oxybis(1-Chloropr...	7.057	45	329491	37.690	ng		59
17) 2-Methylphenol	7.051	107	187380	42.874	ng		94
18) Hexachloroethane	7.286	117	96870	43.451	ng		99
19) n-Nitroso-di-n-propyla...	7.198	70	163097	41.739	ng		93
20) 3+4-Methylphenols	7.204	107	250904	45.173	ng	#	75
22) Acetophenone	7.192	105	373423	46.687	ng	#	90
24) Nitrobenzene	7.369	77	245989	40.921	ng		96
25) Isophorone	7.604	82	442707	45.039	ng		97
26) 2-Nitrophenol	7.681	139	132377	44.262	ng		93
27) 2,4-Dimethylphenol	7.728	122	194997	55.812	ng		98
28) bis(2-Chloroethoxy)met...	7.816	93	279563	44.386	ng		100
29) 2,4-Dichlorophenol	7.933	162	208275	44.120	ng		99
30) 1,2,4-Trichlorobenzene	8.004	180	221560	43.099	ng		99
31) Naphthalene	8.086	128	710062	42.424	ng		99
32) Benzoic acid	7.875	122	135530	37.346	ng		96
33) 4-Chloroaniline	8.139	127	107042	18.318	ng		97
34) Hexachlorobutadiene	8.198	225	135525	43.914	ng		99
35) Caprolactam	8.516	113	71401m	49.677	ng		
36) 4-Chloro-3-methylphenol	8.633	107	220323	42.134	ng		97
37) 2-Methylnaphthalene	8.775	142	449799	41.298	ng		100
38) 1-Methylnaphthalene	8.875	142	442108	41.911	ng		99
40) 1,2,4,5-Tetrachloroben...	8.945	216	245522	47.248	ng		98
41) Hexachlorocyclopentadiene	8.928	237	212260	122.809	ng		99
43) 2,4,6-Trichlorophenol	9.063	196	142519	42.435	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141782.D
Acq On : 26 Feb 2025 14:54
Operator : RC/JU
Sample : PB166875BSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 15:16:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166875BSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	153378	42.139	ng	97
46) 1,1'-Biphenyl	9.239	154	666430	47.858	ng	99
47) 2-Chloronaphthalene	9.263	162	448737	43.579	ng	99
48) 2-Nitroaniline	9.369	65	140021	40.518	ng	91
49) Acenaphthylene	9.680	152	691055	45.120	ng	100
50) Dimethylphthalate	9.539	163	543747	44.593	ng	100
51) 2,6-Dinitrotoluene	9.610	165	117944	44.247	ng	94
52) Acenaphthene	9.851	154	431112	41.869	ng	100
53) 3-Nitroaniline	9.780	138	72808	25.378	ng	96
54) 2,4-Dinitrophenol	9.898	184	125185	79.020	ng	87
55) Dibenzofuran	10.022	168	626147	41.429	ng	99
56) 4-Nitrophenol	9.963	139	150379	70.610	ng	92
57) 2,4-Dinitrotoluene	10.016	165	159077	44.829	ng	98
58) Fluorene	10.369	166	506938	43.380	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.151	232	129421	41.300	ng	96
60) Diethylphthalate	10.239	149	525621	43.813	ng	100
61) 4-Chlorophenyl-phenyle...	10.357	204	249862	44.444	ng	96
62) 4-Nitroaniline	10.398	138	118787	40.776	ng	95
63) Azobenzene	10.516	77	491005	41.169	ng	95
65) 4,6-Dinitro-2-methylph...	10.427	198	89627	41.475	ng	91
66) n-Nitrosodiphenylamine	10.480	169	448690	45.057	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	157706	45.359	ng	99
68) Hexachlorobenzene	10.916	284	167133	46.682	ng	96
69) Atrazine	11.010	200	175426	58.720	ng	98
70) Pentachlorophenol	11.116	266	160978	70.319	ng	99
71) Phenanthrene	11.327	178	764907	44.668	ng	100
72) Anthracene	11.380	178	780326	45.331	ng	100
73) Carbazole	11.539	167	670650	43.299	ng	99
74) Di-n-butylphthalate	11.863	149	840484	46.995	ng	99
75) Fluoranthene	12.516	202	776404	42.765	ng	99
77) Benzidine	12.639	184	223888	51.285	ng	99
78) Pyrene	12.745	202	776713	46.095	ng	100
80) Butylbenzylphthalate	13.357	149	300758	51.531	ng	99
81) Benzo(a)anthracene	13.933	228	593077	45.073	ng	99
82) 3,3'-Dichlorobenzidine	13.898	252	123538	32.776	ng	98
83) Chrysene	13.968	228	539566	44.411	ng	99
84) Bis(2-ethylhexyl)phtha...	13.915	149	386733	58.750	ng	99
85) Di-n-octyl phthalate	14.527	149	559396	59.569	ng	96
87) Indeno(1,2,3-cd)pyrene	16.833	276	532126	49.050	ng	99
88) Benzo(b)fluoranthene	14.968	252	529780	44.938	ng	99
89) Benzo(k)fluoranthene	14.998	252	410854	40.813	ng	98
90) Benzo(a)pyrene	15.327	252	451285	47.308	ng	99
91) Dibenzo(a,h)anthracene	16.839	278	433447	49.309	ng	99
92) Benzo(g,h,i)perylene	17.262	276	406962	44.240	ng	99

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

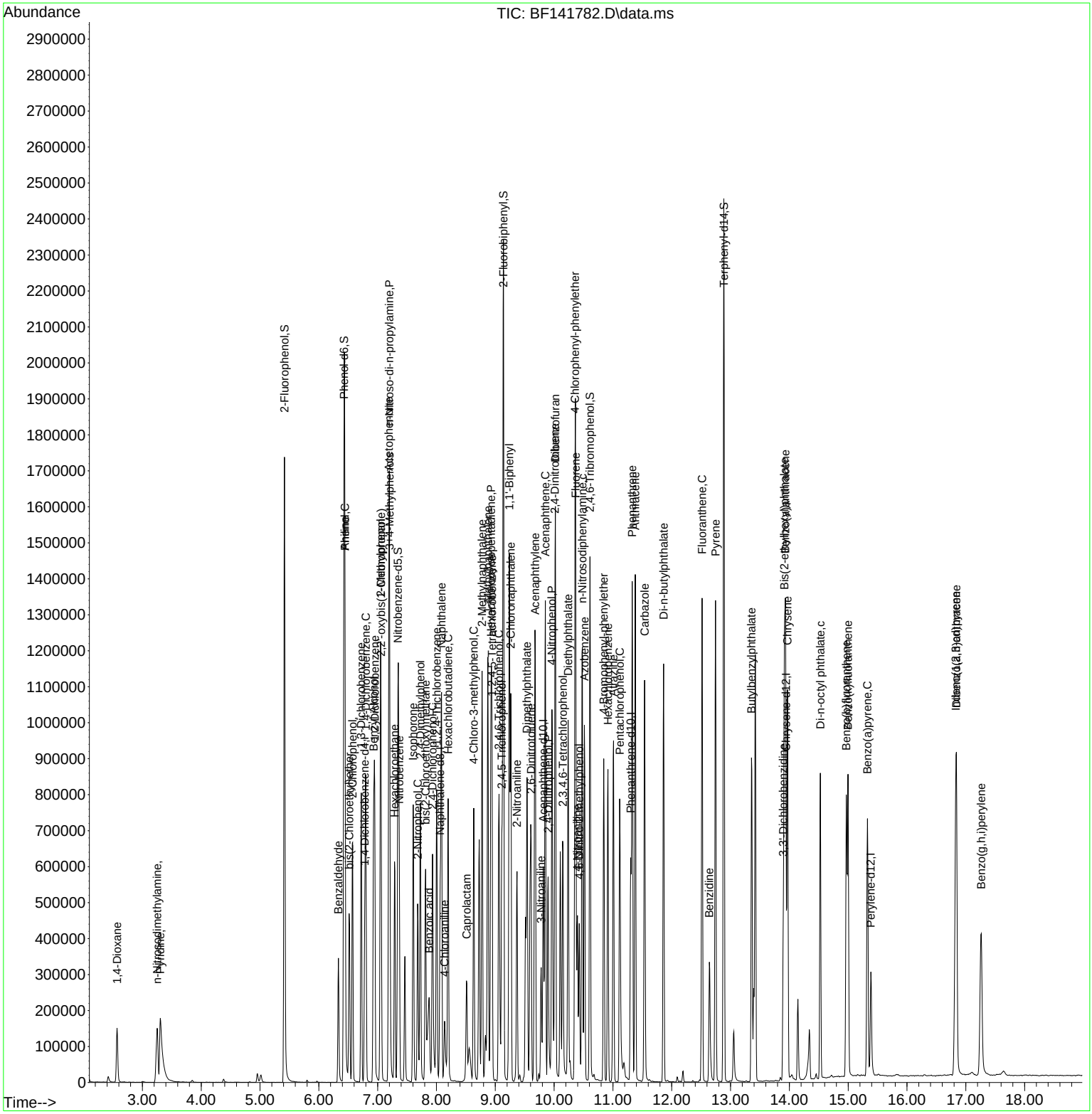
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141782.D
Acq On : 26 Feb 2025 14:54
Operator : RC/JU
Sample : PB166875BSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 15:16:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166875BSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141762.D
Acq On : 25 Feb 2025 14:07
Operator : RC/JU
Sample : Q1421-02MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 00:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.781	152	88792	20.000	ng		-0.01
21) Naphthalene-d8	8.063	136	356048	20.000	ng		-0.01
39) Acenaphthene-d10	9.816	164	194554	20.000	ng		-0.02
64) Phenanthrene-d10	11.304	188	323859	20.000	ng		-0.01
76) Chrysene-d12	13.945	240	195463	20.000	ng		-0.02
86) Perylene-d12	15.386	264	188853	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.416	112	566792	100.075	ng		0.00
7) Phenol-d6	6.428	99	707518	98.837	ng		-0.01
23) Nitrobenzene-d5	7.345	82	445670	65.287	ng		-0.02
42) 2,4,6-Tribromophenol	10.610	330	184005	94.150	ng		-0.02
45) 2-Fluorobiphenyl	9.139	172	873991	69.210	ng		-0.01
79) Terphenyl-d14	12.886	244	866854	74.868	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	2.575	88	99078	43.465	ng		98
3) Pyridine	3.304	79	229851	42.374	ng		93
4) n-Nitrosodimethylamine	3.257	42	138682	38.611	ng		90
6) Aniline	6.445	93	226829	33.780	ng	#	75
8) 2-Chlorophenol	6.575	128	276685	45.211	ng		97
9) Benzaldehyde	6.334	77	106505	27.998	ng		97
10) Phenol	6.439	94	335449	45.023	ng		96
11) bis(2-Chloroethyl)ether	6.516	93	248270	44.364	ng		99
12) 1,3-Dichlorobenzene	6.722	146	289182	44.759	ng		96
13) 1,4-Dichlorobenzene	6.798	146	293245	44.424	ng		98
14) 1,2-Dichlorobenzene	6.951	146	277220	45.248	ng		99
15) Benzyl Alcohol	6.928	79	236006	42.993	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.057	45	383534	40.037	ng		64
17) 2-Methylphenol	7.051	107	214180	44.722	ng		93
18) Hexachloroethane	7.286	117	109393	44.778	ng		99
19) n-Nitroso-di-n-propyla...	7.198	70	184853	43.171	ng		94
20) 3+4-Methylphenols	7.204	107	282352	46.391	ng	#	75
22) Acetophenone	7.192	105	417099	47.093	ng		92
24) Nitrobenzene	7.369	77	282638	42.461	ng		96
25) Isophorone	7.604	82	501969	46.118	ng		99
26) 2-Nitrophenol	7.681	139	151422	45.723	ng		94
27) 2,4-Dimethylphenol	7.728	122	219153	56.646	ng		98
28) bis(2-Chloroethoxy)met...	7.816	93	306733	43.979	ng		100
29) 2,4-Dichlorophenol	7.934	162	227778	43.575	ng		100
30) 1,2,4-Trichlorobenzene	8.004	180	245784	43.178	ng		99
31) Naphthalene	8.086	128	789682	42.608	ng		100
32) Benzoic acid	7.845	122	59439	14.791	ng		98
33) 4-Chloroaniline	8.139	127	116223	17.961	ng		98
34) Hexachlorobutadiene	8.198	225	151076	44.209	ng		99
35) Caprolactam	8.510	113	75484m	47.428	ng		
36) 4-Chloro-3-methylphenol	8.633	107	247497	42.743	ng		99
37) 2-Methylnaphthalene	8.775	142	501251	41.562	ng		100
38) 1-Methylnaphthalene	8.875	142	487134	41.703	ng		98
40) 1,2,4,5-Tetrachloroben...	8.945	216	275848	49.007	ng		99
41) Hexachlorocyclopentadiene	8.928	237	244112	130.391	ng		98
43) 2,4,6-Trichlorophenol	9.063	196	157396	43.266	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141762.D
Acq On : 25 Feb 2025 14:07
Operator : RC/JU
Sample : Q1421-02MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 00:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	169521	42.997	ng	98
46) 1,1'-Biphenyl	9.239	154	725705	48.113	ng	99
47) 2-Chloronaphthalene	9.263	162	494895	44.370	ng	99
48) 2-Nitroaniline	9.369	65	160694	42.929	ng	94
49) Acenaphthylene	9.680	152	755865	45.562	ng	100
50) Dimethylphthalate	9.539	163	581376	44.018	ng	99
51) 2,6-Dinitrotoluene	9.610	165	128111	44.370	ng	94
52) Acenaphthene	9.851	154	469732	42.116	ng	99
53) 3-Nitroaniline	9.780	138	84069	27.053	ng	96
54) 2,4-Dinitrophenol	9.898	184	107902	62.880	ng	90
55) Dibenzofuran	10.022	168	679468	41.505	ng	100
56) 4-Nitrophenol	9.963	139	178963	77.578	ng	93
57) 2,4-Dinitrotoluene	10.016	165	168790	43.913	ng	98
58) Fluorene	10.369	166	556982	44.002	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.145	232	144069	42.444	ng	92
60) Diethylphthalate	10.239	149	552047	42.482	ng	99
61) 4-Chlorophenyl-phenyle...	10.357	204	268025	44.014	ng	98
62) 4-Nitroaniline	10.398	138	133998	42.465	ng	95
63) Azobenzene	10.516	77	595687	46.111	ng	95
65) 4,6-Dinitro-2-methylph...	10.427	198	84606	37.608	ng	93
66) n-Nitrosodiphenylamine	10.475	169	472300	45.558	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	165760	45.796	ng	99
68) Hexachlorobenzene	10.916	284	174405	46.793	ng	98
69) Atrazine	11.010	200	178296	57.328	ng	99
70) Pentachlorophenol	11.116	266	160396	67.302	ng	99
71) Phenanthrene	11.327	178	797195	44.718	ng	100
72) Anthracene	11.380	178	828278	46.220	ng	100
73) Carbazole	11.539	167	710387	44.056	ng	99
74) Di-n-butylphthalate	11.863	149	830961	44.631	ng	100
75) Fluoranthene	12.516	202	785350	41.553	ng	100
77) Benzidine	12.639	184	280116	64.980	ng	99
78) Pyrene	12.745	202	778525	46.789	ng	99
80) Butylbenzylphthalate	13.357	149	285094	49.467	ng	98
81) Benzo(a)anthracene	13.933	228	595321	45.818	ng	100
82) 3,3'-Dichlorobenzidine	13.898	252	132055	35.480	ng	99
83) Chrysene	13.968	228	540286	45.035	ng	100
84) Bis(2-ethylhexyl)phtha...	13.915	149	354228	54.495	ng	99
85) Di-n-octyl phthalate	14.527	149	550072	59.320	ng	99
87) Indeno(1,2,3-cd)pyrene	16.827	276	592429	50.769	ng	99
88) Benzo(b)fluoranthene	14.968	252	564333	44.504	ng	99
89) Benzo(k)fluoranthene	14.998	252	445721	41.164	ng	99
90) Benzo(a)pyrene	15.327	252	482833	47.057	ng	99
91) Dibenzo(a,h)anthracene	16.839	278	478481	50.605	ng	99
92) Benzo(g,h,i)perylene	17.256	276	462853	46.779	ng	100

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

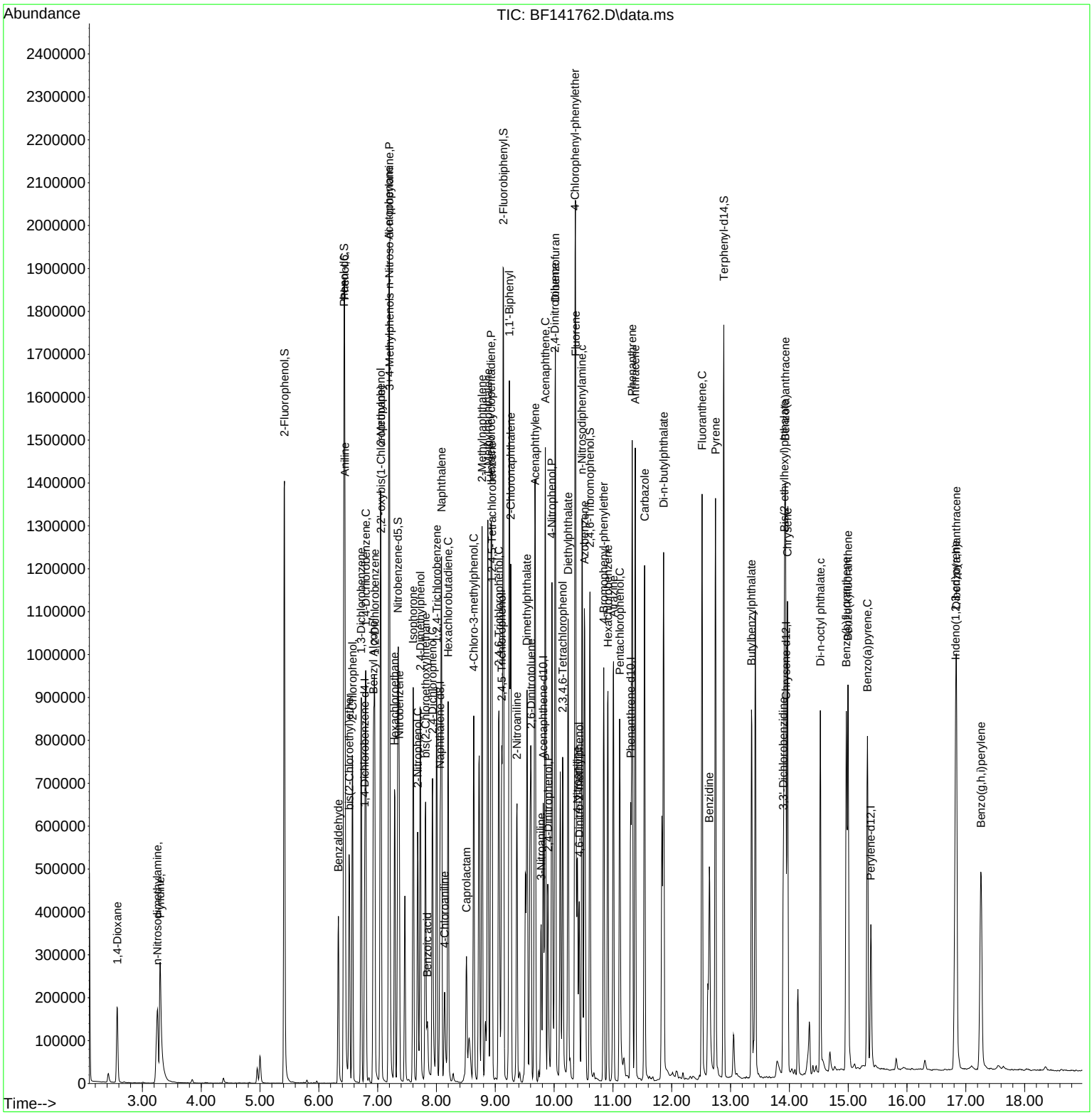
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141762.D
Acq On : 25 Feb 2025 14:07
Operator : RC/JU
Sample : Q1421-02MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 00:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



Sample Results: **BF141763.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141763.D
Acq On : 25 Feb 2025 14:36
Operator : RC/JU
Sample : Q1421-03MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 25 14:56:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.781	152	75675	20.000	ng		-0.01
21) Naphthalene-d8	8.063	136	299933	20.000	ng		-0.01
39) Acenaphthene-d10	9.816	164	161806	20.000	ng		-0.02
64) Phenanthrene-d10	11.304	188	253973	20.000	ng		-0.01
76) Chrysene-d12	13.939	240	171769	20.000	ng		-0.02
86) Perylene-d12	15.386	264	186973	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.410	112	503086	104.223	ng		0.00
7) Phenol-d6	6.428	99	618991	101.458	ng		-0.01
23) Nitrobenzene-d5	7.346	82	390477	67.904	ng		-0.02
42) 2,4,6-Tribromophenol	10.610	330	152913	94.076	ng		-0.02
45) 2-Fluorobiphenyl	9.134	172	761811	72.536	ng		-0.02
79) Terphenyl-d14	12.886	244	725692	71.322	ng		-0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	2.540	88	90202	46.430	ng		96
3) Pyridine	3.269	79	202708	43.847	ng		96
4) n-Nitrosodimethylamine	3.222	42	123575	40.369	ng		90
6) Aniline	6.446	93	205453	35.900	ng	#	82
8) 2-Chlorophenol	6.569	128	242733	46.538	ng		99
9) Benzaldehyde	6.334	77	93929	28.972	ng		97
10) Phenol	6.440	94	292013	45.987	ng		96
11) bis(2-Chloroethyl)ether	6.516	93	219996	46.126	ng		99
12) 1,3-Dichlorobenzene	6.722	146	256275	46.541	ng		96
13) 1,4-Dichlorobenzene	6.798	146	261559	46.492	ng		98
14) 1,2-Dichlorobenzene	6.951	146	248986	47.684	ng		99
15) Benzyl Alcohol	6.928	79	201189	43.003	ng		96
16) 2,2'-oxybis(1-Chloropr...	7.057	45	346162	42.399	ng		69
17) 2-Methylphenol	7.046	107	186708	45.743	ng		96
18) Hexachloroethane	7.287	117	96120	46.165	ng		99
19) n-Nitroso-di-n-propyla...	7.193	70	164417	45.054	ng		95
20) 3+4-Methylphenols	7.204	107	243568	46.956	ng	#	72
22) Acetophenone	7.193	105	370440	49.650	ng		92
24) Nitrobenzene	7.363	77	248969	44.400	ng		99
25) Isophorone	7.604	82	434574	47.396	ng		98
26) 2-Nitrophenol	7.681	139	131754	47.227	ng		94
27) 2,4-Dimethylphenol	7.722	122	189959	58.286	ng		99
28) bis(2-Chloroethoxy)met...	7.816	93	271858	46.272	ng		99
29) 2,4-Dichlorophenol	7.934	162	198750	45.135	ng		100
30) 1,2,4-Trichlorobenzene	8.004	180	218056	45.473	ng		100
31) Naphthalene	8.087	128	695392	44.540	ng		100
32) Benzoic acid	7.845	122	60430	17.851	ng		95
33) 4-Chloroaniline	8.140	127	107639	19.747	ng		97
34) Hexachlorobutadiene	8.198	225	132624	46.070	ng		100
35) Caprolactam	8.504	113	61932m	46.193	ng		
36) 4-Chloro-3-methylphenol	8.634	107	209473	42.944	ng		97
37) 2-Methylnaphthalene	8.775	142	437531	43.065	ng		100
38) 1-Methylnaphthalene	8.875	142	424417	43.132	ng		98
40) 1,2,4,5-Tetrachloroben...	8.940	216	239737	51.212	ng		99
41) Hexachlorocyclopentadiene	8.928	237	211325	135.724	ng		100
43) 2,4,6-Trichlorophenol	9.057	196	135676	44.843	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141763.D
Acq On : 25 Feb 2025 14:36
Operator : RC/JU
Sample : Q1421-03MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 25 14:56:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	2,4,5-Trichlorophenol	9.110	196	141363	43.112	ng	97
46)	1,1'-Biphenyl	9.239	154	631200	50.317	ng	100
47)	2-Chloronaphthalene	9.263	162	429181	46.266	ng	99
48)	2-Nitroaniline	9.363	65	134953	43.349	ng	96
49)	Acenaphthylene	9.675	152	653459	47.361	ng	99
50)	Dimethylphthalate	9.539	163	484412	44.099	ng	99
51)	2,6-Dinitrotoluene	9.604	165	108763	45.293	ng	97
52)	Acenaphthene	9.851	154	408252	44.012	ng	100
53)	3-Nitroaniline	9.775	138	67035	25.937	ng	97
54)	2,4-Dinitrophenol	9.892	184	87227	61.119	ng	93
55)	Dibenzofuran	10.022	168	583197	42.834	ng	99
56)	4-Nitrophenol	9.957	139	140095	73.020	ng	95
57)	2,4-Dinitrotoluene	10.016	165	142466	44.566	ng	97
58)	Fluorene	10.363	166	470483	44.692	ng	99
59)	2,3,4,6-Tetrachlorophenol	10.145	232	116359	41.218	ng	96
60)	Diethylphthalate	10.239	149	465458	43.068	ng	99
61)	4-Chlorophenyl-phenyle...	10.357	204	227694	44.958	ng	97
62)	4-Nitroaniline	10.392	138	108386	41.300	ng	96
63)	Azobenzene	10.516	77	502797	46.798	ng	94
65)	4,6-Dinitro-2-methylph...	10.422	198	67224	38.104	ng	97
66)	n-Nitrosodiphenylamine	10.475	169	400020	49.203	ng	99
67)	4-Bromophenyl-phenylether	10.845	248	139126	49.014	ng	99
68)	Hexachlorobenzene	10.916	284	145837	49.895	ng	97
69)	Atrazine	11.004	200	144195	59.121	ng	98
70)	Pentachlorophenol	11.116	266	133292	71.320	ng	100
71)	Phenanthrene	11.328	178	663667	47.472	ng	100
72)	Anthracene	11.381	178	677206	48.188	ng	100
73)	Carbazole	11.539	167	575834	45.538	ng	99
74)	Di-n-butylphthalate	11.863	149	679207	46.518	ng	99
75)	Fluoranthene	12.516	202	645460	43.549	ng	100
77)	Benzidine	12.639	184	263831	69.645	ng	99
78)	Pyrene	12.745	202	649308	44.406	ng	99
80)	Butylbenzylphthalate	13.357	149	241762	47.735	ng	99
81)	Benzo(a)anthracene	13.933	228	546463	47.859	ng	100
82)	3,3'-Dichlorobenzidine	13.898	252	128432	39.267	ng	97
83)	Chrysene	13.969	228	478435	45.380	ng	100
84)	Bis(2-ethylhexyl)phtha...	13.916	149	326027	57.076	ng	100
85)	Di-n-octyl phthalate	14.527	149	549852	67.475	ng	97
87)	Indeno(1,2,3-cd)pyrene	16.827	276	615192	53.250	ng	99
88)	Benzo(b)fluoranthene	14.969	252	506088	40.312	ng	99
89)	Benzo(k)fluoranthene	14.998	252	505399	47.144	ng	98
90)	Benzo(a)pyrene	15.327	252	497890	49.012	ng	99
91)	Dibenzo(a,h)anthracene	16.839	278	496693	53.059	ng	98
92)	Benzo(g,h,i)perylene	17.257	276	479696	48.968	ng	100

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

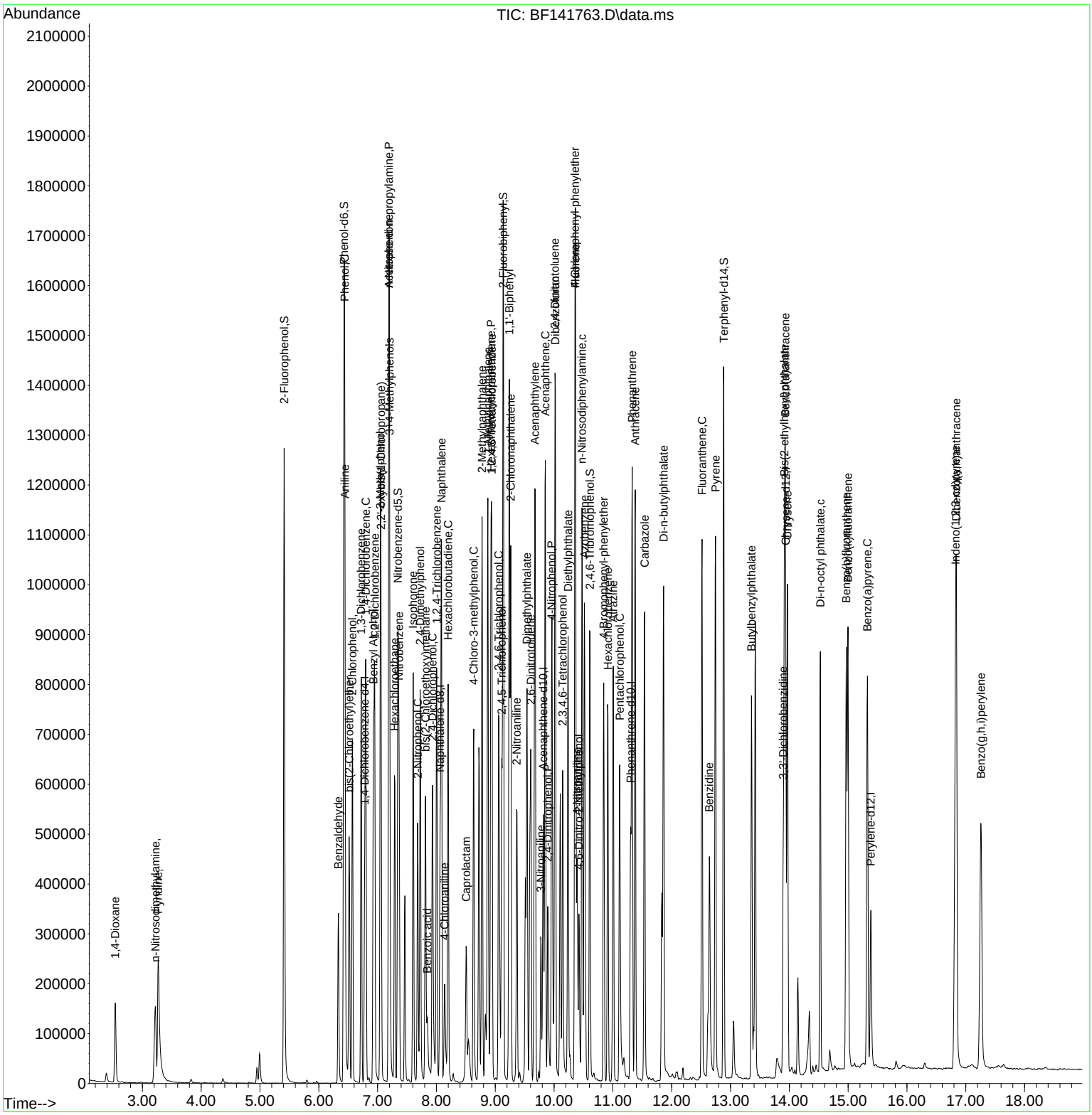
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141763.D
Acq On : 25 Feb 2025 14:36
Operator : RC/JU
Sample : Q1421-03MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 25 14:56:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



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

Manual Integration Report

Sequence:	bf020625	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BF141474.D	Acenaphthene	Jagrut	2/7/2025 3:49:22 PM	mohammad	2/7/2025 10:09:12 PM	Peak Integrated by Software
SSTDICC020	BF141475.D	Acenaphthene	Jagrut	2/7/2025 3:49:24 PM	mohammad	2/7/2025 10:09:12 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF022525	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1421-02MS	BF141762.D	Caprolactam	anahy	2/26/2025 11:12:43 AM	mohammad	2/28/2025 7:32:59 AM	Peak Integrated by Software
Q1421-03MSD	BF141763.D	Caprolactam	anahy	2/26/2025 11:13:27 AM	mohammad	2/28/2025 7:32:59 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF022625	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB166853BS	BF141777.D	Caprolactam	anahy	2/27/2025 10:06:47 AM	Jagrut	2/27/2025 12:19:42 PM	Peak Integrated by Software
PB166875BS	BF141781.D	Caprolactam	anahy	2/27/2025 10:09:48 AM	Jagrut	2/27/2025 12:19:47 PM	Peak Integrated by Software
PB166875BSD	BF141782.D	Caprolactam	anahy	2/27/2025 10:10:58 AM	Jagrut	2/27/2025 12:19:49 PM	Peak Integrated by Software

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM				
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM				
SubDirectory	BF020625	HP Acquire Method	BNA_F		HP Processing Method	bf020625	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141471.D	06 Feb 2025 10:41	RC/JU	Ok
2	SSTDICC2.5	BF141472.D	06 Feb 2025 11:07	RC/JU	Ok
3	SSTDICC005	BF141473.D	06 Feb 2025 11:34	RC/JU	Ok
4	SSTDICC010	BF141474.D	06 Feb 2025 12:00	RC/JU	Ok,M
5	SSTDICC020	BF141475.D	06 Feb 2025 12:26	RC/JU	Ok,M
6	SSTDICCC040	BF141476.D	06 Feb 2025 12:55	RC/JU	Ok
7	SSTDICC050	BF141477.D	06 Feb 2025 13:21	RC/JU	Ok
8	SSTDICC060	BF141478.D	06 Feb 2025 13:47	RC/JU	Ok
9	SSTDICC080	BF141479.D	06 Feb 2025 14:14	RC/JU	Ok
10	SSTDICV040	BF141480.D	06 Feb 2025 15:03	RC/JU	Ok
11	PB166563BL	BF141481.D	06 Feb 2025 15:43	RC/JU	Ok
12	PB166468BS	BF141482.D	06 Feb 2025 16:09	RC/JU	Ok,M
13	PB166468BSD	BF141483.D	06 Feb 2025 16:36	RC/JU	Ok,M
14	PB166468BL	BF141484.D	06 Feb 2025 17:02	RC/JU	Ok
15	Q1214-01RE	BF141485.D	06 Feb 2025 17:34	RC/JU	Confirms
16	Q1309-01	BF141486.D	06 Feb 2025 18:00	RC/JU	Ok
17	Q1309-05	BF141487.D	06 Feb 2025 18:27	RC/JU	Ok
18	Q1309-09	BF141488.D	06 Feb 2025 18:53	RC/JU	Ok
19	Q1309-13	BF141489.D	06 Feb 2025 19:19	RC/JU	Ok
20	Q1309-13MS	BF141490.D	06 Feb 2025 19:45	RC/JU	Ok,M
21	Q1309-13MSD	BF141491.D	06 Feb 2025 20:11	RC/JU	Ok,M

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM				
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM				
SubDirectory	BF020625	HP Acquire Method	BNA_F		HP Processing Method	bf020625	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1309-17	BF141492.D	06 Feb 2025 20:37	RC/JU	Ok
23	Q1309-21	BF141493.D	06 Feb 2025 21:03	RC/JU	Ok
24	Q1216-04	BF141494.D	06 Feb 2025 21:30	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022525

Review By	anahy	Review On	2/26/2025 11:15:06 AM				
Supervise By	mohammad	Supervise On	2/28/2025 7:32:59 AM				
SubDirectory	BF022525	HP Acquire Method	BNA_F		HP Processing Method	bf020625	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12652,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141754.D	25 Feb 2025 09:06	RC/JU	Ok
2	SSTDCCC040	BF141755.D	25 Feb 2025 10:34	RC/JU	Ok
3	PB166840BL	BF141756.D	25 Feb 2025 11:04	RC/JU	Ok
4	PB166840BS	BF141757.D	25 Feb 2025 11:33	RC/JU	Ok,M
5	PB166843BL	BF141758.D	25 Feb 2025 12:03	RC/JU	Ok
6	PB166843BS	BF141759.D	25 Feb 2025 12:33	RC/JU	Ok,M
7	PB166824TB	BF141760.D	25 Feb 2025 13:02	RC/JU	Ok
8	Q1421-01	BF141761.D	25 Feb 2025 13:37	RC/JU	Ok
9	Q1421-02MS	BF141762.D	25 Feb 2025 14:07	RC/JU	Ok,M
10	Q1421-03MSD	BF141763.D	25 Feb 2025 14:36	RC/JU	Ok,M
11	Q1421-07	BF141764.D	25 Feb 2025 15:06	RC/JU	Ok
12	Q1421-09	BF141765.D	25 Feb 2025 15:35	RC/JU	Ok
13	Q1415-04	BF141766.D	25 Feb 2025 16:05	RC/JU	Ok
14	Q1415-03	BF141767.D	25 Feb 2025 16:35	RC/JU	Ok
15	Q1415-02	BF141768.D	25 Feb 2025 17:05	RC/JU	Ok
16	Q1415-01	BF141769.D	25 Feb 2025 17:34	RC/JU	Ok
17	Q1420-01	BF141770.D	25 Feb 2025 18:04	RC/JU	Ok
18	Q1420-05	BF141771.D	25 Feb 2025 18:34	RC/JU	ReRun
19	Q1416-01	BF141772.D	25 Feb 2025 19:03	RC/JU	Ok
20	Q1418-01	BF141773.D	25 Feb 2025 19:33	RC/JU	Ok,M

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022625

Review By	anahy	Review On	2/27/2025 10:16:58 AM				
Supervise By	Jagrut	Supervise On	2/27/2025 12:20:32 PM				
SubDirectory	BF022625	HP Acquire Method	BNA_F		HP Processing Method	bf020625	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141774.D	26 Feb 2025 10:16	RC/JU	Ok
2	SSTDCCC040	BF141775.D	26 Feb 2025 10:45	RC/JU	Ok
3	PB166853BL	BF141776.D	26 Feb 2025 11:49	RC/JU	Ok
4	PB166853BS	BF141777.D	26 Feb 2025 12:19	RC/JU	Ok,M
5	PB166870BL	BF141778.D	26 Feb 2025 12:56	RC/JU	Ok
6	PB166870BS	BF141779.D	26 Feb 2025 13:26	RC/JU	Ok,M
7	PB166875BL	BF141780.D	26 Feb 2025 13:55	RC/JU	Ok
8	PB166875BS	BF141781.D	26 Feb 2025 14:24	RC/JU	Ok,M
9	PB166875BSD	BF141782.D	26 Feb 2025 14:54	RC/JU	Ok,M
10	Q1422-01	BF141783.D	26 Feb 2025 15:29	RC/JU	Ok
11	Q1422-01MS	BF141784.D	26 Feb 2025 15:59	RC/JU	Ok,M
12	Q1422-01MSD	BF141785.D	26 Feb 2025 16:28	RC/JU	Ok,M
13	Q1422-02	BF141786.D	26 Feb 2025 16:57	RC/JU	Ok
14	Q1415-06	BF141787.D	26 Feb 2025 17:27	RC/JU	Ok
15	Q1415-05	BF141788.D	26 Feb 2025 17:56	RC/JU	Ok
16	Q1427-01	BF141789.D	26 Feb 2025 18:25	RC/JU	Ok,M
17	Q1420-05	BF141790.D	26 Feb 2025 18:55	RC/JU	Ok
18	Q1428-01	BF141791.D	26 Feb 2025 19:25	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM		
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM		
SubDirectory	BF020625	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141471.D	06 Feb 2025 10:41		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF141472.D	06 Feb 2025 11:07		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF141473.D	06 Feb 2025 11:34	Compound #32,41,54 and #65 removed from 5PPM	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF141474.D	06 Feb 2025 12:00		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF141475.D	06 Feb 2025 12:26		RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF141476.D	06 Feb 2025 12:55	The Calibration is Good For 8270 DOD and good for 625.1 Method	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BF141477.D	06 Feb 2025 13:21		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BF141478.D	06 Feb 2025 13:47		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF141479.D	06 Feb 2025 14:14	Compound #9 removed from 80ppm	RC/JU	Ok
10	SSTDICV040	ICVBF020625	BF141480.D	06 Feb 2025 15:03		RC/JU	Ok
11	PB166563BL	PB166563BL	BF141481.D	06 Feb 2025 15:43		RC/JU	Ok
12	PB166468BS	PB166468BS	BF141482.D	06 Feb 2025 16:09		RC/JU	Ok,M
13	PB166468BSD	PB166468BSD	BF141483.D	06 Feb 2025 16:36		RC/JU	Ok,M
14	PB166468BL	PB166468BL	BF141484.D	06 Feb 2025 17:02		RC/JU	Ok
15	Q1214-01RE	PARAMUS-CONDENS/	BF141485.D	06 Feb 2025 17:34	Surrogate Fail	RC/JU	Confirms
16	Q1309-01	WC-2	BF141486.D	06 Feb 2025 18:00		RC/JU	Ok
17	Q1309-05	WC-3	BF141487.D	06 Feb 2025 18:27		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM		
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM		
SubDirectory	BF020625	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1309-09	WC-4	BF141488.D	06 Feb 2025 18:53		RC/JU	Ok
19	Q1309-13	WC-5	BF141489.D	06 Feb 2025 19:19		RC/JU	Ok
20	Q1309-13MS	WC-5MS	BF141490.D	06 Feb 2025 19:45		RC/JU	Ok,M
21	Q1309-13MSD	WC-5MSD	BF141491.D	06 Feb 2025 20:11		RC/JU	Ok,M
22	Q1309-17	WC-6	BF141492.D	06 Feb 2025 20:37		RC/JU	Ok
23	Q1309-21	WC-8	BF141493.D	06 Feb 2025 21:03		RC/JU	Ok
24	Q1216-04	JPP-18.1-012825	BF141494.D	06 Feb 2025 21:30		RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022525

Review By	anahy	Review On	2/26/2025 11:15:06 AM		
Supervise By	mohammad	Supervise On	2/28/2025 7:32:59 AM		
SubDirectory	BF022525	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12652,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141754.D	25 Feb 2025 09:06		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141755.D	25 Feb 2025 10:34		RC/JU	Ok
3	PB166840BL	PB166840BL	BF141756.D	25 Feb 2025 11:04		RC/JU	Ok
4	PB166840BS	PB166840BS	BF141757.D	25 Feb 2025 11:33		RC/JU	Ok,M
5	PB166843BL	PB166843BL	BF141758.D	25 Feb 2025 12:03		RC/JU	Ok
6	PB166843BS	PB166843BS	BF141759.D	25 Feb 2025 12:33		RC/JU	Ok,M
7	PB166824TB	PB166824TB	BF141760.D	25 Feb 2025 13:02		RC/JU	Ok
8	Q1421-01	P001-CLAY-CF01-01	BF141761.D	25 Feb 2025 13:37		RC/JU	Ok
9	Q1421-02MS	P001-CLAY-CF01-01M	BF141762.D	25 Feb 2025 14:07		RC/JU	Ok,M
10	Q1421-03MSD	P001-CLAY-CF01-01M	BF141763.D	25 Feb 2025 14:36		RC/JU	Ok,M
11	Q1421-07	P001-CLAY-CF01-02	BF141764.D	25 Feb 2025 15:06		RC/JU	Ok
12	Q1421-09	P001-CLAY-CF02-01	BF141765.D	25 Feb 2025 15:35		RC/JU	Ok
13	Q1415-04	B-172-SB02	BF141766.D	25 Feb 2025 16:05		RC/JU	Ok
14	Q1415-03	B-163-SB02	BF141767.D	25 Feb 2025 16:35		RC/JU	Ok
15	Q1415-02	B-172-SB01	BF141768.D	25 Feb 2025 17:05		RC/JU	Ok
16	Q1415-01	B-163-SB01	BF141769.D	25 Feb 2025 17:34		RC/JU	Ok
17	Q1420-01	TP-1-WC	BF141770.D	25 Feb 2025 18:04		RC/JU	Ok
18	Q1420-05	TP-2-WC	BF141771.D	25 Feb 2025 18:34	Internal Standard Fail	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022525

Review By	anahy	Review On	2/26/2025 11:15:06 AM		
Supervise By	mohammad	Supervise On	2/28/2025 7:32:59 AM		
SubDirectory	BF022525	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12652,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1416-01	OK-01-022425	BF141772.D	25 Feb 2025 19:03		RC/JU	Ok
20	Q1418-01	TR-06-02242025	BF141773.D	25 Feb 2025 19:33		RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022625

Review By	anahy	Review On	2/27/2025 10:16:58 AM		
Supervise By	Jagrut	Supervise On	2/27/2025 12:20:32 PM		
SubDirectory	BF022625	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141774.D	26 Feb 2025 10:16		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141775.D	26 Feb 2025 10:45		RC/JU	Ok
3	PB166853BL	PB166853BL	BF141776.D	26 Feb 2025 11:49		RC/JU	Ok
4	PB166853BS	PB166853BS	BF141777.D	26 Feb 2025 12:19		RC/JU	Ok,M
5	PB166870BL	PB166870BL	BF141778.D	26 Feb 2025 12:56		RC/JU	Ok
6	PB166870BS	PB166870BS	BF141779.D	26 Feb 2025 13:26		RC/JU	Ok,M
7	PB166875BL	PB166875BL	BF141780.D	26 Feb 2025 13:55		RC/JU	Ok
8	PB166875BS	PB166875BS	BF141781.D	26 Feb 2025 14:24		RC/JU	Ok,M
9	PB166875BSD	PB166875BSD	BF141782.D	26 Feb 2025 14:54		RC/JU	Ok,M
10	Q1422-01	B-154-SB01	BF141783.D	26 Feb 2025 15:29		RC/JU	Ok
11	Q1422-01MS	B-154-SB01MS	BF141784.D	26 Feb 2025 15:59		RC/JU	Ok,M
12	Q1422-01MSD	B-154-SB01MSD	BF141785.D	26 Feb 2025 16:28		RC/JU	Ok,M
13	Q1422-02	B-154-SB02	BF141786.D	26 Feb 2025 16:57		RC/JU	Ok
14	Q1415-06	B-173-GW01	BF141787.D	26 Feb 2025 17:27		RC/JU	Ok
15	Q1415-05	FB02222025	BF141788.D	26 Feb 2025 17:56		RC/JU	Ok
16	Q1427-01	VNJ-227	BF141789.D	26 Feb 2025 18:25		RC/JU	Ok,M
17	Q1420-05	TP-2-WC	BF141790.D	26 Feb 2025 18:55		RC/JU	Ok
18	Q1428-01	NB-07-022525	BF141791.D	26 Feb 2025 19:25		RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF022625

Review By	anahy	Review On	2/27/2025 10:16:58 AM		
Supervise By	Jagrut	Supervise On	2/27/2025 12:20:32 PM		
SubDirectory	BF022625	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166853

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 02/25/2025

Extraction Start Time : 09:30

Extraction End Date : 02/25/2025

Extraction End Time : 12:30

Concentration By: EH

Supervisor By : RUPESH

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	SP6720
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2582
Baked Na2SO4	N/A	EP2589
Methylene Chloride	N/A	E3878
Sand	N/A	E2865
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot # 2210673.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/25/25	RS (Ext lab)	AC/SVOC
12:35	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166853

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 02/25/2025

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166853BL	SBLK853	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1			U2-1
PB166853BS	SLCS853	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			2
Q1415-01	B-163-SB01	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		3
Q1415-02	B-172-SB01	SVOC-TCL BNA -20	30.09	N/A	ritesh	Evelyn	1	E		4
Q1415-03	B-163-SB02	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		5
Q1415-04	B-172-SB02	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		6
Q1416-01	OK-01-022425	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E		U3-1
Q1418-01	TR-06-02242025	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		2
Q1420-01	TP-1-WC	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E		3
Q1420-05	TP-2-WC	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E		4
Q1421-01	P001-CLAY-CF01-01	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		5
Q1421-02	Q1421-01MS	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		6
Q1421-03	Q1421-01MSD	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	E		U4-1
Q1421-07	P001-CLAY-CF01-02	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1	F		2
Q1421-09	P001-CLAY-CF02-01	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	E		3

RG
2/25

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

16685'3 9:30

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1416BN **WorkList ID :** 187863 **Department :** Extraction **Date :** 02-25-2025 08:37:38

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1415-01	B-163-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N31	02/22/2025	8270E
Q1415-02	B-172-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N31	02/22/2025	8270E
Q1415-03	B-163-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N31	02/22/2025	8270E
Q1415-04	B-172-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N31	02/22/2025	8270E
Q1416-01	OK-01-022425	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	N41	02/24/2025	8270E
Q1418-01	TR-06-02242025	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	H41	02/24/2025	8270E
Q1420-01	TP-1-WC	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	N41	02/24/2025	8270E
Q1420-05	TP-2-WC	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	N41	02/24/2025	8270E
Q1421-01	P001-CLAY-CF01-01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ROYF02	H31	02/24/2025	8270E
Q1421-02	Q1421-01MS	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ROYF02	H31	02/24/2025	8270E
Q1421-03	Q1421-01MSD	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ROYF02	H31	02/24/2025	8270E
Q1421-07	P001-CLAY-CF01-02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ROYF02	H31	02/24/2025	8270E
Q1421-09	P001-CLAY-CF02-01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ROYF02	H31	02/24/2025	8270E

Date/Time 2/25/25 9:25
Raw Sample Received by: RJ (EXT-lab)
Raw Sample Relinquished by: CP SM

Date/Time 2/25/25 9:55
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RJ (EXT-lab)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166875

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#: E3880

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 02/26/2025

Extraction Start Time : 08:45

Extraction End Date : 02/26/2025

Extraction End Time : 13:45

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	SP6720
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3878
Baked Na2SO4	N/A	EP2589
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
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:

40 ML Vial lot# 03-40 BTS721. pH Adjusted<2 with 1:1 H2SO4 & >11 with 10 N NaOH.Q1415-05 Limited volume received.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/26/25	RS (E54-lab)	AC/SVOC
13:50	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166875

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

Concentration Date: 02/26/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166875BL	SBLK875	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1			SEP-1
PB166875BS	SLCS875	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1			2
PB166875BSD	SLCSD875	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1			3
Q1415-05	FB02222025	SVOC-TCL BNA -20	480	6	RUPESH	ritesh	0.5	G		4
Q1415-06	B-173-GW01	SVOC-TCL BNA -20	900	6	RUPESH	ritesh	1	F		5

RS
2126

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

166875
8:45

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1415BN **WorkList ID :** 187892 **Department :** Extraction **Date :** 02-26-2025 08:40:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1415-05	FB02222025	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N31	02/22/2025	8270E
Q1415-06	B-173-GW01	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N31	02/22/2025	8270E

Date/Time 2/26/25 8:40

Raw Sample Received by: RS (Ext Lab)

Raw Sample Relinquished by: [signature]

Date/Time 2/26/25 9:10

Raw Sample Received by: [signature]

Raw Sample Relinquished by: RS (Ext Lab)

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

LAB CHRONICLE

OrderID:	Q1415	**OrderDate:**	2/24/2025 10:32:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1415-01	**B-163-SB01**	**SOIL**			**02/22/25**			**02/24/25**
			SVOC-TCL BNA -20	8270E		02/25/25	02/25/25	
Q1415-02	**B-172-SB01**	**SOIL**			**02/22/25**			**02/24/25**
			SVOC-TCL BNA -20	8270E		02/25/25	02/25/25	
Q1415-03	**B-163-SB02**	**SOIL**			**02/22/25**			**02/24/25**
			SVOC-TCL BNA -20	8270E		02/25/25	02/25/25	
Q1415-04	**B-172-SB02**	**SOIL**			**02/22/25**			**02/24/25**
			SVOC-TCL BNA -20	8270E		02/25/25	02/25/25	
Q1415-05	**FB02222025**	**Water**			**02/22/25**			**02/24/25**
			SVOC-TCL BNA -20	8270E		02/26/25	02/26/25	
Q1415-06	**B-173-GW01**	**Water**			**02/22/25**			**02/24/25**
			SVOC-TCL BNA -20	8270E		02/26/25	02/26/25	