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

Hit Summary Sheet
SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**B-167-SB01**								
Q1901-02	B-167-SB01	SOIL	Phenanthrene		140.000	J	25.3	210	ug/Kg
Q1901-02	B-167-SB01	SOIL	Fluoranthene		180.000	J	36.3	210	ug/Kg
Q1901-02	B-167-SB01	SOIL	Pyrene		130.000	J	43.5	210	ug/Kg
Q1901-02	B-167-SB01	SOIL	Benzo(a)anthracene		95.000	J	27.8	210	ug/Kg
Q1901-02	B-167-SB01	SOIL	Bis(2-ethylhexyl)phthalate		160.000	J	71.6	210	ug/Kg
Q1901-02	B-167-SB01	SOIL	Benzo(b)fluoranthene		97.300	J	23	210	ug/Kg
			Total Svoc :		**802.30**				
Q1901-02	B-167-SB01	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	360.000	AB	0	0	ug/Kg
Q1901-02	B-167-SB01	SOIL	Benzophenone	*	380.000	J	0	0	ug/Kg
Q1901-02	B-167-SB01	SOIL	Heptadecyl trifluoroacetate	*	120.000	J	0	0	ug/Kg
Q1901-02	B-167-SB01	SOIL	Isopropyl palmitate	*	220.000	J	0	0	ug/Kg
Q1901-02	B-167-SB01	SOIL	n-Hexadecanoic acid	*	160.000	J	0	0	ug/Kg
Q1901-02	B-167-SB01	SOIL	Cyclotetradecane	*	130.000	J	0	0	ug/Kg
			Total Tics :		**1,370.00**				
			Total Concentration:		**2,172.30**				
Client ID :	**B-170-SB01**								
Q1901-03	B-170-SB01	SOIL	Naphthalene		690.000	J	140	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Acenaphthene		550.000	J	130	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Fluorene		580.000	J	150	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Phenanthrene		5,600.000		130	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Anthracene		1,100.000		200	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Fluoranthene		4,700.000		180	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Pyrene		4,500.000		220	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Benzo(a)anthracene		2,200.000		140	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Chrysene		2,100.000		120	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Benzo(b)fluoranthene		2,000.000		110	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Benzo(k)fluoranthene		590.000	J	130	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Benzo(a)pyrene		1,600.000		180	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Indeno(1,2,3-cd)pyrene		740.000	J	180	1000	ug/Kg
Q1901-03	B-170-SB01	SOIL	Benzo(g,h,i)perylene		980.000	J	150	1000	ug/Kg
			Total Svoc :		**27,930.00**				
Q1901-03	B-170-SB01	SOIL	11H-Benzo[b]fluorene	*	450.000	J	0	0	ug/Kg
Q1901-03	B-170-SB01	SOIL	1H-Indene, 2-phenyl-	*	700.000	J	0	0	ug/Kg
Q1901-03	B-170-SB01	SOIL	5,16[1,2]:8,13[1,2]-Dibenzen	*	470.000	J	0	0	ug/Kg
Q1901-03	B-170-SB01	SOIL	5H-Indeno[1,2-b]pyridine	*	490.000	J	0	0	ug/Kg
Q1901-03	B-170-SB01	SOIL	9,10-Anthracenedione	*	420.000	J	0	0	ug/Kg
Q1901-03	B-170-SB01	SOIL	Anthracene, 1-methyl-	*	1,500.000	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q1901-03	B-170-SB01	SOIL	Anthracene, 2-methyl-	*	430.000	J	0	0	ug/Kg
Q1901-03	B-170-SB01	SOIL	Phenanthrene, 1-methyl-	*	1,300.000	J	0	0	ug/Kg
Q1901-03	B-170-SB01	SOIL	Phenanthrene, 2-methyl-	*	1,100.000	J	0	0	ug/Kg
Q1901-03	B-170-SB01	SOIL	Benzo[j]fluoranthene	*	1,200.000	J	0	0	ug/Kg
Q1901-03	B-170-SB01	SOIL	Cyclopenta(def)phenanthrenone	*	550.000	J	0	0	ug/Kg
Q1901-03	B-170-SB01	SOIL	di-p-Tolylacetylene	*	710.000	J	0	0	ug/Kg
			Total Tics :		**9,320.00**				
			Total Concentration:		**37,250.00**				
Client ID :	**B-167-SB02**								
Q1901-04	B-167-SB02	SOIL	.beta.-Sitosterol	*	240.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	1-Heneicosanol	*	770.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	730.000	AB	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	Behenic alcohol	*	140.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	Benzophenone	*	480.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	Carbonic acid, eicosyl vinyl ester	*	330.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	Hexacosane	*	250.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	Hexathiane	*	290.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	Hop-22(29)-en-3.beta.-ol	*	400.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	n-Hexadecanoic acid	*	690.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	Octadecanoic acid	*	210.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	Stigmasterol	*	350.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	unknown13.804	*	490.000	J	0	0	ug/Kg
Q1901-04	B-167-SB02	SOIL	unknown16.945	*	160.000	J	0	0	ug/Kg
			Total Tics :		**5,530.00**				
			Total Concentration:		**5,530.00**				
Client ID :	**B-170-SB02**								
Q1901-05	B-170-SB02	SOIL	1-Docosene	*	370.000	J	0	0	ug/Kg
Q1901-05	B-170-SB02	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	300.000	AB	0	0	ug/Kg
Q1901-05	B-170-SB02	SOIL	Aromandendrene	*	150.000	J	0	0	ug/Kg
Q1901-05	B-170-SB02	SOIL	Benzophenone	*	220.000	J	0	0	ug/Kg
Q1901-05	B-170-SB02	SOIL	n-Hexadecanoic acid	*	210.000	J	0	0	ug/Kg
Q1901-05	B-170-SB02	SOIL	Trifluoroacetoxy hexadecane	*	410.000	J	0	0	ug/Kg
			Total Tics :		**1,660.00**				
			Total Concentration:		**1,660.00**				
Client ID :	**FB04262025**								
Q1901-06	FB04262025	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	4.900	AB	0	0	ug/L
Q1901-06	FB04262025	WATER	1-Propanol, 2-(2-hydroxypropoxy	*	3.100	J	0	0	ug/L
			Total Tics :		**8.00**				
			Total Concentration:		**8.00**				

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Hit Summary Sheet
SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units

SAMPLE DATA

Raw Data: **BF142268.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:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142268.D	1	04/29/25 09:30	05/01/25 18:55	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	400	ug/Kg
108-95-2	Phenol	26.7	U	26.7	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.4	U	29.4	210	ug/Kg
95-57-8	2-Chlorophenol	29.5	U	29.5	210	ug/Kg
95-48-7	2-Methylphenol	36.2	U	36.2	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	45.4	U	45.4	210	ug/Kg
98-86-2	Acetophenone	35.7	U	35.7	210	ug/Kg
65794-96-9	3+4-Methylphenols	49.7	U	49.7	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	57.3	U	57.3	96.8	ug/Kg
67-72-1	Hexachloroethane	21.3	U	21.3	210	ug/Kg
98-95-3	Nitrobenzene	22.1	U	22.1	210	ug/Kg
78-59-1	Isophorone	39.7	U	39.7	210	ug/Kg
88-75-5	2-Nitrophenol	70.4	U	70.4	210	ug/Kg
105-67-9	2,4-Dimethylphenol	78.4	U	78.4	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	37.3	U	37.3	210	ug/Kg
120-83-2	2,4-Dichlorophenol	34.2	U	34.2	210	ug/Kg
91-20-3	Naphthalene	27.5	U	27.5	210	ug/Kg
106-47-8	4-Chloroaniline	42.8	UQ	42.8	210	ug/Kg
87-68-3	Hexachlorobutadiene	30.6	U	30.6	210	ug/Kg
105-60-2	Caprolactam	63.0	U	63.0	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.7	U	34.7	210	ug/Kg
91-57-6	2-Methylnaphthalene	31.0	U	31.0	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.9	U	23.9	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	35.2	U	35.2	210	ug/Kg
92-52-4	1,1-Biphenyl	26.4	U	26.4	210	ug/Kg
91-58-7	2-Chloronaphthalene	27.2	U	27.2	210	ug/Kg
88-74-4	2-Nitroaniline	58.2	U	58.2	210	ug/Kg
131-11-3	Dimethylphthalate	32.8	U	32.8	210	ug/Kg

Raw Data: **BF142268.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142268.D	1	04/29/25 09:30	05/01/25 18:55	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	35.0	U	35.0	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.6	U	40.6	210	ug/Kg
99-09-2	3-Nitroaniline	55.6	UQ	55.6	210	ug/Kg
83-32-9	Acenaphthene	25.8	U	25.8	210	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	400	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	400	ug/Kg
132-64-9	Dibenzofuran	27.5	U	27.5	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	60.6	U	60.6	210	ug/Kg
84-66-2	Diethylphthalate	34.2	U	34.2	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	32.3	U	32.3	210	ug/Kg
86-73-7	Fluorene	30.6	U	30.6	210	ug/Kg
100-01-6	4-Nitroaniline	77.6	U	77.6	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	39.8	U	39.8	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.6	U	33.6	210	ug/Kg
118-74-1	Hexachlorobenzene	30.6	U	30.6	210	ug/Kg
1912-24-9	Atrazine	41.1	U	41.1	210	ug/Kg
87-86-5	Pentachlorophenol	62.0	U	62.0	400	ug/Kg
85-01-8	Phenanthrene	140	J	25.3	210	ug/Kg
120-12-7	Anthracene	40.3	U	40.3	210	ug/Kg
86-74-8	Carbazole	37.7	U	37.7	210	ug/Kg
84-74-2	Di-n-butylphthalate	57.9	U	57.9	210	ug/Kg
206-44-0	Fluoranthene	180	J	36.3	210	ug/Kg
129-00-0	Pyrene	130	J	43.5	210	ug/Kg
85-68-7	Butylbenzylphthalate	86.4	U	86.4	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	44.4	UQ	44.4	400	ug/Kg
56-55-3	Benzo(a)anthracene	95.0	J	27.8	210	ug/Kg
218-01-9	Chrysene	24.1	U	24.1	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	160	J	71.6	210	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	97.3	J	23.0	210	ug/Kg

Raw Data: **BF142268.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142268.D	1	04/29/25 09:30	05/01/25 18:55	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	27.1	U	27.1	210	ug/Kg
50-32-8	Benzo(a)pyrene	35.7	U	35.7	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	35.2	U	35.2	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	33.1	U	33.1	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	31.1	U	31.1	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	31.0	U	31.0	210	ug/Kg
123-91-1	1,4-Dioxane	54.7	U	54.7	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	33.1	U	33.1	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	97.0		30 (18) - 130 (112)	65%	SPK: 150
13127-88-3	Phenol-d6	101		30 (15) - 130 (107)	67%	SPK: 150
4165-60-0	Nitrobenzene-d5	76.3		30 (18) - 130 (107)	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.7		30 (20) - 130 (109)	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	95.5		30 (10) - 130 (116)	64%	SPK: 150
1718-51-0	Terphenyl-d14	47.6		30 (10) - 130 (105)	48%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	205000	6.904			
1146-65-2	Naphthalene-d8	764000	8.187			
15067-26-2	Acenaphthene-d10	364000	9.939			
1517-22-2	Phenanthrene-d10	502000	11.428			
1719-03-5	Chrysene-d12	437000	14.069			
1520-96-3	Perylene-d12	455000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	360	AB		5.13	ug/Kg
000119-61-9	Benzophenone	380	J		10.7	ug/Kg
000295-17-0	Cyclotetradecane	130	J		11.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	160	J		12.0	ug/Kg
000142-91-6	Isopropyl palmitate	220	J		12.2	ug/Kg
1010351-87-0	Heptadecyl trifluoroacetate	120	J		13.9	ug/Kg

Raw Data: **BF142268.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142268.D	1	04/29/25 09:30	05/01/25 18:55	PB167779

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:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83
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
BM050074.D	5	04/29/25 09:30	05/01/25 21:18	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	940	U	940	2000	ug/Kg
108-95-2	Phenol	130	U	130	1000	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	150	U	150	1000	ug/Kg
95-57-8	2-Chlorophenol	150	U	150	1000	ug/Kg
95-48-7	2-Methylphenol	180	U	180	1000	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	230	U	230	1000	ug/Kg
98-86-2	Acetophenone	180	U	180	1000	ug/Kg
65794-96-9	3+4-Methylphenols	250	U	250	2000	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	290	U	290	480	ug/Kg
67-72-1	Hexachloroethane	110	U	110	1000	ug/Kg
98-95-3	Nitrobenzene	110	U	110	1000	ug/Kg
78-59-1	Isophorone	200	U	200	1000	ug/Kg
88-75-5	2-Nitrophenol	350	U	350	1000	ug/Kg
105-67-9	2,4-Dimethylphenol	390	U	390	1000	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	190	U	190	1000	ug/Kg
120-83-2	2,4-Dichlorophenol	170	U	170	1000	ug/Kg
91-20-3	Naphthalene	690	J	140	1000	ug/Kg
106-47-8	4-Chloroaniline	210	UQ	210	1000	ug/Kg
87-68-3	Hexachlorobutadiene	150	U	150	1000	ug/Kg
105-60-2	Caprolactam	310	U	310	2000	ug/Kg
59-50-7	4-Chloro-3-methylphenol	170	U	170	1000	ug/Kg
91-57-6	2-Methylnaphthalene	150	U	150	1000	ug/Kg
77-47-4	Hexachlorocyclopentadiene	700	U	700	2000	ug/Kg
88-06-2	2,4,6-Trichlorophenol	120	U	120	1000	ug/Kg
95-95-4	2,4,5-Trichlorophenol	180	U	180	1000	ug/Kg
92-52-4	1,1-Biphenyl	130	U	130	1000	ug/Kg
91-58-7	2-Chloronaphthalene	140	U	140	1000	ug/Kg
88-74-4	2-Nitroaniline	290	U	290	1000	ug/Kg
131-11-3	Dimethylphthalate	160	U	160	1000	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83
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
BM050074.D	5	04/29/25 09:30	05/01/25 21:18	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	170	U	170	1000	ug/Kg
606-20-2	2,6-Dinitrotoluene	200	U	200	1000	ug/Kg
99-09-2	3-Nitroaniline	280	UQ	280	1000	ug/Kg
83-32-9	Acenaphthene	550	J	130	1000	ug/Kg
51-28-5	2,4-Dinitrophenol	1400	U	1400	2000	ug/Kg
100-02-7	4-Nitrophenol	640	U	640	2000	ug/Kg
132-64-9	Dibenzofuran	140	U	140	1000	ug/Kg
121-14-2	2,4-Dinitrotoluene	300	U	300	1000	ug/Kg
84-66-2	Diethylphthalate	170	U	170	1000	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	160	U	160	1000	ug/Kg
86-73-7	Fluorene	580	J	150	1000	ug/Kg
100-01-6	4-Nitroaniline	390	U	390	1000	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	620	U	620	2000	ug/Kg
86-30-6	n-Nitrosodiphenylamine	200	U	200	1000	ug/Kg
101-55-3	4-Bromophenyl-phenylether	170	U	170	1000	ug/Kg
118-74-1	Hexachlorobenzene	150	U	150	1000	ug/Kg
1912-24-9	Atrazine	200	U	200	1000	ug/Kg
87-86-5	Pentachlorophenol	310	U	310	2000	ug/Kg
85-01-8	Phenanthrene	5600		130	1000	ug/Kg
120-12-7	Anthracene	1100		200	1000	ug/Kg
86-74-8	Carbazole	190	U	190	1000	ug/Kg
84-74-2	Di-n-butylphthalate	290	U	290	1000	ug/Kg
206-44-0	Fluoranthene	4700		180	1000	ug/Kg
129-00-0	Pyrene	4500		220	1000	ug/Kg
85-68-7	Butylbenzylphthalate	430	U	430	1000	ug/Kg
91-94-1	3,3-Dichlorobenzidine	220	UQ	220	2000	ug/Kg
56-55-3	Benzo(a)anthracene	2200		140	1000	ug/Kg
218-01-9	Chrysene	2100		120	1000	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	360	U	360	1000	ug/Kg
117-84-0	Di-n-octyl phthalate	520	U	520	2000	ug/Kg
205-99-2	Benzo(b)fluoranthene	2000		110	1000	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83
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
BM050074.D	5	04/29/25 09:30	05/01/25 21:18	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	590	J	130	1000	ug/Kg
50-32-8	Benzo(a)pyrene	1600		180	1000	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	740	J	180	1000	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	160	U	160	1000	ug/Kg
191-24-2	Benzo(g,h,i)perylene	980	J	150	1000	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	150	U	150	1000	ug/Kg
123-91-1	1,4-Dioxane	270	U	270	1000	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	160	U	160	1000	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	80.0		30 (18) - 130 (112)	53%	SPK: 150
13127-88-3	Phenol-d6	80.8		30 (15) - 130 (107)	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	44.8		30 (18) - 130 (107)	45%	SPK: 100
321-60-8	2-Fluorobiphenyl	44.0		30 (20) - 130 (109)	44%	SPK: 100
118-79-6	2,4,6-Tribromophenol	79.7		30 (10) - 130 (116)	53%	SPK: 150
1718-51-0	Terphenyl-d14	37.0		30 (10) - 130 (105)	37%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	274000	7.751			
1146-65-2	Naphthalene-d8	1010000	10.539			
15067-26-2	Acenaphthene-d10	706000	14.392			
1517-22-2	Phenanthrene-d10	1460000	17.145			
1719-03-5	Chrysene-d12	1410000	21.38			
1520-96-3	Perylene-d12	1410000	24.374			
TENTATIVE IDENTIFIED COMPOUNDS						
000244-99-5	5H-Indeno[1,2-b]pyridine	490	J		17.6	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	1100	J		18.0	ug/Kg
000832-69-9	Phenanthrene, 1-methyl-	1300	J		18.1	ug/Kg
000613-12-7	Anthracene, 2-methyl-	430	J		18.2	ug/Kg
000610-48-0	Anthracene, 1-methyl-	1500	J		18.2	ug/Kg
004505-48-0	1H-Indene, 2-phenyl-	700	J		18.3	ug/Kg
005672-97-9	5,16[1,2]:8,13[1,2]-Dibenzen	470	J		18.5	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB01	SDG No.:	Q1901
Lab Sample ID:	Q1901-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83
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
BM050074.D	5	04/29/25 09:30	05/01/25 21:18	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000084-65-1	9,10-Anthracenedione	420	J		18.6	ug/Kg
002789-88-0	di-p-Tolylacetylene	710	J		18.9	ug/Kg
005737-13-3	Cyclopenta(def)phenanthrenone	550	J		19.1	ug/Kg
000243-17-4	11H-Benzo[b]fluorene	450	J		20.1	ug/Kg
000205-82-3	Benzo[j]fluoranthene	1200	J		24.1	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **BF142271.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	53.2
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
BF142271.D	1	04/29/25 09:30	05/01/25 20:20	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	290	U	290	620	ug/Kg
108-95-2	Phenol	41.4	U	41.4	320	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	45.6	U	45.6	320	ug/Kg
95-57-8	2-Chlorophenol	45.8	U	45.8	320	ug/Kg
95-48-7	2-Methylphenol	56.1	U	56.1	320	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	70.3	U	70.3	320	ug/Kg
98-86-2	Acetophenone	55.3	U	55.3	320	ug/Kg
65794-96-9	3+4-Methylphenols	77.1	U	77.1	620	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	88.9	U	88.9	150	ug/Kg
67-72-1	Hexachloroethane	33.0	U	33.0	320	ug/Kg
98-95-3	Nitrobenzene	34.3	U	34.3	320	ug/Kg
78-59-1	Isophorone	61.5	U	61.5	320	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	320	ug/Kg
105-67-9	2,4-Dimethylphenol	120	U	120	320	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	57.8	U	57.8	320	ug/Kg
120-83-2	2,4-Dichlorophenol	53.1	U	53.1	320	ug/Kg
91-20-3	Naphthalene	42.6	U	42.6	320	ug/Kg
106-47-8	4-Chloroaniline	66.4	UQ	66.4	320	ug/Kg
87-68-3	Hexachlorobutadiene	47.4	U	47.4	320	ug/Kg
105-60-2	Caprolactam	97.7	U	97.7	620	ug/Kg
59-50-7	4-Chloro-3-methylphenol	53.8	U	53.8	320	ug/Kg
91-57-6	2-Methylnaphthalene	48.0	U	48.0	320	ug/Kg
77-47-4	Hexachlorocyclopentadiene	220	U	220	620	ug/Kg
88-06-2	2,4,6-Trichlorophenol	37.1	U	37.1	320	ug/Kg
95-95-4	2,4,5-Trichlorophenol	54.6	U	54.6	320	ug/Kg
92-52-4	1,1-Biphenyl	40.9	U	40.9	320	ug/Kg
91-58-7	2-Chloronaphthalene	42.2	U	42.2	320	ug/Kg
88-74-4	2-Nitroaniline	90.2	U	90.2	320	ug/Kg
131-11-3	Dimethylphthalate	50.8	U	50.8	320	ug/Kg

Raw Data: **BF142271.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	53.2
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
BF142271.D	1	04/29/25 09:30	05/01/25 20:20	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	54.2	U	54.2	320	ug/Kg
606-20-2	2,6-Dinitrotoluene	63.0	U	63.0	320	ug/Kg
99-09-2	3-Nitroaniline	86.3	UQ	86.3	320	ug/Kg
83-32-9	Acenaphthene	39.9	U	39.9	320	ug/Kg
51-28-5	2,4-Dinitrophenol	430	U	430	620	ug/Kg
100-02-7	4-Nitrophenol	200	U	200	620	ug/Kg
132-64-9	Dibenzofuran	42.6	U	42.6	320	ug/Kg
121-14-2	2,4-Dinitrotoluene	94.0	U	94.0	320	ug/Kg
84-66-2	Diethylphthalate	53.1	U	53.1	320	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	50.1	U	50.1	320	ug/Kg
86-73-7	Fluorene	47.4	U	47.4	320	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	320	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	190	U	190	620	ug/Kg
86-30-6	n-Nitrosodiphenylamine	61.7	U	61.7	320	ug/Kg
101-55-3	4-Bromophenyl-phenylether	52.1	U	52.1	320	ug/Kg
118-74-1	Hexachlorobenzene	47.4	U	47.4	320	ug/Kg
1912-24-9	Atrazine	63.8	U	63.8	320	ug/Kg
87-86-5	Pentachlorophenol	96.2	U	96.2	620	ug/Kg
85-01-8	Phenanthrene	39.2	U	39.2	320	ug/Kg
120-12-7	Anthracene	62.4	U	62.4	320	ug/Kg
86-74-8	Carbazole	58.5	U	58.5	320	ug/Kg
84-74-2	Di-n-butylphthalate	89.8	U	89.8	320	ug/Kg
206-44-0	Fluoranthene	56.3	U	56.3	320	ug/Kg
129-00-0	Pyrene	67.5	U	67.5	320	ug/Kg
85-68-7	Butylbenzylphthalate	130	U	130	320	ug/Kg
91-94-1	3,3-Dichlorobenzidine	68.8	UQ	68.8	620	ug/Kg
56-55-3	Benzo(a)anthracene	43.1	U	43.1	320	ug/Kg
218-01-9	Chrysene	37.3	U	37.3	320	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	320	ug/Kg
117-84-0	Di-n-octyl phthalate	160	U	160	620	ug/Kg
205-99-2	Benzo(b)fluoranthene	35.6	U	35.6	320	ug/Kg

Raw Data: **BF142271.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	53.2
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
BF142271.D	1	04/29/25 09:30	05/01/25 20:20	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	42.0	U	42.0	320	ug/Kg
50-32-8	Benzo(a)pyrene	55.3	U	55.3	320	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	54.6	U	54.6	320	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	51.4	U	51.4	320	ug/Kg
191-24-2	Benzo(g,h,i)perylene	48.2	U	48.2	320	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	48.0	U	48.0	320	ug/Kg
123-91-1	1,4-Dioxane	84.8	U	84.8	320	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	51.4	U	51.4	320	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	119		30 (18) - 130 (112)	79%	SPK: 150
13127-88-3	Phenol-d6	120		30 (15) - 130 (107)	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.3		30 (18) - 130 (107)	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.5		30 (20) - 130 (109)	74%	SPK: 100
118-79-6	2,4,6-Tribromophenol	122		30 (10) - 130 (116)	81%	SPK: 150
1718-51-0	Terphenyl-d14	49.8		30 (10) - 130 (105)	50%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	201000	6.904			
1146-65-2	Naphthalene-d8	749000	8.187			
15067-26-2	Acenaphthene-d10	359000	9.939			
1517-22-2	Phenanthrene-d10	508000	11.427			
1719-03-5	Chrysene-d12	449000	14.069			
1520-96-3	Perylene-d12	456000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	730	AB		5.13	ug/Kg
013798-23-7	Hexathiane	290	J		10.2	ug/Kg
000119-61-9	Benzophenone	480	J		10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	690	J		12.0	ug/Kg
000057-11-4	Octadecanoic acid	210	J		12.7	ug/Kg
	unknown13.804	490	J		13.8	ug/Kg
015594-90-8	1-Heneicosanol	770	J		13.9	ug/Kg

Raw Data: **BF142271.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	53.2
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
BF142271.D	1	04/29/25 09:30	05/01/25 20:20	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
1000382-54-3	Carbonic acid, eicosyl vinyl ester	330	J		14.5	ug/Kg
000630-01-3	Hexacosane	250	J		15.2	ug/Kg
000661-19-8	Behenic alcohol	140	J		16.1	ug/Kg
	unknown16.945	160	J		16.9	ug/Kg
000083-48-7	Stigmasterol	350	J		17.3	ug/Kg
000083-46-5	.beta.-Sitosterol	240	J		17.7	ug/Kg
058801-23-3	Hop-22(29)-en-3.beta.-ol	400	J		18.5	ug/Kg

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

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

Raw Data: **BF142272.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	75.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142272.D	1	04/29/25 09:30	05/01/25 20:49	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	U	210	440	ug/Kg
108-95-2	Phenol	29.4	U	29.4	230	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	32.3	U	32.3	230	ug/Kg
95-57-8	2-Chlorophenol	32.5	U	32.5	230	ug/Kg
95-48-7	2-Methylphenol	39.8	U	39.8	230	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	49.9	U	49.9	230	ug/Kg
98-86-2	Acetophenone	39.2	U	39.2	230	ug/Kg
65794-96-9	3+4-Methylphenols	54.7	U	54.7	440	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	63.1	U	63.1	110	ug/Kg
67-72-1	Hexachloroethane	23.4	U	23.4	230	ug/Kg
98-95-3	Nitrobenzene	24.3	U	24.3	230	ug/Kg
78-59-1	Isophorone	43.6	U	43.6	230	ug/Kg
88-75-5	2-Nitrophenol	77.4	U	77.4	230	ug/Kg
105-67-9	2,4-Dimethylphenol	86.2	U	86.2	230	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	41.0	U	41.0	230	ug/Kg
120-83-2	2,4-Dichlorophenol	37.6	U	37.6	230	ug/Kg
91-20-3	Naphthalene	30.2	U	30.2	230	ug/Kg
106-47-8	4-Chloroaniline	47.1	UQ	47.1	230	ug/Kg
87-68-3	Hexachlorobutadiene	33.7	U	33.7	230	ug/Kg
105-60-2	Caprolactam	69.3	U	69.3	440	ug/Kg
59-50-7	4-Chloro-3-methylphenol	38.2	U	38.2	230	ug/Kg
91-57-6	2-Methylnaphthalene	34.1	U	34.1	230	ug/Kg
77-47-4	Hexachlorocyclopentadiene	150	U	150	440	ug/Kg
88-06-2	2,4,6-Trichlorophenol	26.3	U	26.3	230	ug/Kg
95-95-4	2,4,5-Trichlorophenol	38.7	U	38.7	230	ug/Kg
92-52-4	1,1-Biphenyl	29.0	U	29.0	230	ug/Kg
91-58-7	2-Chloronaphthalene	29.9	U	29.9	230	ug/Kg
88-74-4	2-Nitroaniline	64.0	U	64.0	230	ug/Kg
131-11-3	Dimethylphthalate	36.0	U	36.0	230	ug/Kg

Raw Data: **BF142272.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	75.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142272.D	1	04/29/25 09:30	05/01/25 20:49	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	38.4	U	38.4	230	ug/Kg
606-20-2	2,6-Dinitrotoluene	44.7	U	44.7	230	ug/Kg
99-09-2	3-Nitroaniline	61.2	UQ	61.2	230	ug/Kg
83-32-9	Acenaphthene	28.3	U	28.3	230	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	300	440	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	440	ug/Kg
132-64-9	Dibenzofuran	30.2	U	30.2	230	ug/Kg
121-14-2	2,4-Dinitrotoluene	66.6	U	66.6	230	ug/Kg
84-66-2	Diethylphthalate	37.6	U	37.6	230	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	35.5	U	35.5	230	ug/Kg
86-73-7	Fluorene	33.7	U	33.7	230	ug/Kg
100-01-6	4-Nitroaniline	85.4	U	85.4	230	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	U	140	440	ug/Kg
86-30-6	n-Nitrosodiphenylamine	43.8	U	43.8	230	ug/Kg
101-55-3	4-Bromophenyl-phenylether	37.0	U	37.0	230	ug/Kg
118-74-1	Hexachlorobenzene	33.7	U	33.7	230	ug/Kg
1912-24-9	Atrazine	45.2	U	45.2	230	ug/Kg
87-86-5	Pentachlorophenol	68.2	U	68.2	440	ug/Kg
85-01-8	Phenanthrene	27.8	U	27.8	230	ug/Kg
120-12-7	Anthracene	44.3	U	44.3	230	ug/Kg
86-74-8	Carbazole	41.5	U	41.5	230	ug/Kg
84-74-2	Di-n-butylphthalate	63.7	U	63.7	230	ug/Kg
206-44-0	Fluoranthene	39.9	U	39.9	230	ug/Kg
129-00-0	Pyrene	47.9	U	47.9	230	ug/Kg
85-68-7	Butylbenzylphthalate	95.0	U	95.0	230	ug/Kg
91-94-1	3,3-Dichlorobenzidine	48.8	UQ	48.8	440	ug/Kg
56-55-3	Benzo(a)anthracene	30.6	U	30.6	230	ug/Kg
218-01-9	Chrysene	26.5	U	26.5	230	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	78.7	U	78.7	230	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	440	ug/Kg
205-99-2	Benzo(b)fluoranthene	25.3	U	25.3	230	ug/Kg

Raw Data: **BF142272.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	75.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142272.D	1	04/29/25 09:30	05/01/25 20:49	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	29.8	U	29.8	230	ug/Kg
50-32-8	Benzo(a)pyrene	39.2	U	39.2	230	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	38.7	U	38.7	230	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	36.4	U	36.4	230	ug/Kg
191-24-2	Benzo(g,h,i)perylene	34.2	U	34.2	230	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	34.1	U	34.1	230	ug/Kg
123-91-1	1,4-Dioxane	60.1	U	60.1	230	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	36.4	U	36.4	230	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	74.0		30 (18) - 130 (112)	49%	SPK: 150
13127-88-3	Phenol-d6	75.3		30 (15) - 130 (107)	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	56.9		30 (18) - 130 (107)	57%	SPK: 100
321-60-8	2-Fluorobiphenyl	53.8		30 (20) - 130 (109)	54%	SPK: 100
118-79-6	2,4,6-Tribromophenol	78.2		30 (10) - 130 (116)	52%	SPK: 150
1718-51-0	Terphenyl-d14	37.4		30 (10) - 130 (105)	37%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	191000	6.904			
1146-65-2	Naphthalene-d8	721000	8.186			
15067-26-2	Acenaphthene-d10	342000	9.939			
1517-22-2	Phenanthrene-d10	491000	11.427			
1719-03-5	Chrysene-d12	440000	14.062			
1520-96-3	Perylene-d12	434000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	300	AB		5.12	ug/Kg
000119-61-9	Benzophenone	220	J		10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	210	J		12.0	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	410	J		13.9	ug/Kg
001599-67-3	1-Docosene	370	J		14.5	ug/Kg
000489-39-4	Aromandendrene	150	J		17.3	ug/Kg

Raw Data: **BF142272.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-170-SB02	SDG No.:	Q1901
Lab Sample ID:	Q1901-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	75.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142272.D	1	04/29/25 09:30	05/01/25 20:49	PB167779

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: **BF142267.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	FB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	940 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
BF142267.D	1	04/30/25 08:35	05/01/25 18:26	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.20	U	4.20	10.6	ug/L
108-95-2	Phenol	0.97	U	0.97	5.30	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.86	U	0.86	5.30	ug/L
95-57-8	2-Chlorophenol	0.62	U	0.62	5.30	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.30	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.30	ug/L
98-86-2	Acetophenone	0.79	U	0.79	5.30	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.6	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.70	ug/L
67-72-1	Hexachloroethane	0.69	U	0.69	5.30	ug/L
98-95-3	Nitrobenzene	0.81	U	0.81	5.30	ug/L
78-59-1	Isophorone	0.80	U	0.80	5.30	ug/L
88-75-5	2-Nitrophenol	1.90	U	1.90	5.30	ug/L
105-67-9	2,4-Dimethylphenol	2.00	U	2.00	5.30	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.72	U	0.72	5.30	ug/L
120-83-2	2,4-Dichlorophenol	0.55	U	0.55	5.30	ug/L
91-20-3	Naphthalene	0.53	U	0.53	5.30	ug/L
106-47-8	4-Chloroaniline	0.89	UQ	0.89	5.30	ug/L
87-68-3	Hexachlorobutadiene	0.57	U	0.57	5.30	ug/L
105-60-2	Caprolactam	1.20	U	1.20	10.6	ug/L
59-50-7	4-Chloro-3-methylphenol	0.63	U	0.63	5.30	ug/L
91-57-6	2-Methylnaphthalene	0.60	U	0.60	5.30	ug/L
77-47-4	Hexachlorocyclopentadiene	3.90	U	3.90	10.6	ug/L
88-06-2	2,4,6-Trichlorophenol	0.54	U	0.54	5.30	ug/L
95-95-4	2,4,5-Trichlorophenol	0.66	U	0.66	5.30	ug/L
92-52-4	1,1-Biphenyl	0.56	U	0.56	5.30	ug/L
91-58-7	2-Chloronaphthalene	0.65	U	0.65	5.30	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.30	ug/L
131-11-3	Dimethylphthalate	0.65	U	0.65	5.30	ug/L

Raw Data: **BF142267.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	FB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	940 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
BF142267.D	1	04/30/25 08:35	05/01/25 18:26	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.80	U	0.80	5.30	ug/L
606-20-2	2,6-Dinitrotoluene	0.98	U	0.98	5.30	ug/L
99-09-2	3-Nitroaniline	1.10	UQ	1.10	5.30	ug/L
83-32-9	Acenaphthene	0.59	U	0.59	5.30	ug/L
51-28-5	2,4-Dinitrophenol	6.40	U	6.40	10.6	ug/L
100-02-7	4-Nitrophenol	2.50	U	2.50	10.6	ug/L
132-64-9	Dibenzofuran	0.65	U	0.65	5.30	ug/L
121-14-2	2,4-Dinitrotoluene	1.30	U	1.30	5.30	ug/L
84-66-2	Diethylphthalate	0.73	U	0.73	5.30	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.72	U	0.72	5.30	ug/L
86-73-7	Fluorene	0.67	U	0.67	5.30	ug/L
100-01-6	4-Nitroaniline	1.60	U	1.60	5.30	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.6	ug/L
86-30-6	n-Nitrosodiphenylamine	0.62	U	0.62	5.30	ug/L
101-55-3	4-Bromophenyl-phenylether	0.43	U	0.43	5.30	ug/L
118-74-1	Hexachlorobenzene	0.55	U	0.55	5.30	ug/L
1912-24-9	Atrazine	1.10	U	1.10	5.30	ug/L
87-86-5	Pentachlorophenol	1.70	U	1.70	10.6	ug/L
85-01-8	Phenanthrene	0.53	U	0.53	5.30	ug/L
120-12-7	Anthracene	0.65	U	0.65	5.30	ug/L
86-74-8	Carbazole	0.77	U	0.77	5.30	ug/L
84-74-2	Di-n-butylphthalate	1.30	U	1.30	5.30	ug/L
206-44-0	Fluoranthene	0.87	U	0.87	5.30	ug/L
129-00-0	Pyrene	0.53	U	0.53	5.30	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.30	ug/L
91-94-1	3,3-Dichlorobenzidine	0.99	UQ	0.99	10.6	ug/L
56-55-3	Benzo(a)anthracene	0.48	U	0.48	5.30	ug/L
218-01-9	Chrysene	0.47	U	0.47	5.30	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.70	U	1.70	5.30	ug/L
117-84-0	Di-n-octyl phthalate	2.50	U	2.50	10.6	ug/L
205-99-2	Benzo(b)fluoranthene	0.52	U	0.52	5.30	ug/L

Raw Data: **BF142267.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	FB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	940 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
BF142267.D	1	04/30/25 08:35	05/01/25 18:26	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.51	U	0.51	5.30	ug/L
50-32-8	Benzo(a)pyrene	0.59	U	0.59	5.30	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.63	U	0.63	5.30	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.71	U	0.71	5.30	ug/L
191-24-2	Benzo(g,h,i)perylene	0.73	U	0.73	5.30	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.55	U	0.55	5.30	ug/L
123-91-1	1,4-Dioxane	1.10	U	1.10	5.30	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.77	U	0.77	5.30	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	53.2		15 (10) - 110 (139)	35%	SPK: 150
13127-88-3	Phenol-d6	32.1		15 (10) - 110 (134)	21%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.8		30 (49) - 130 (133)	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	80.0		30 (52) - 130 (132)	80%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		15 (44) - 110 (137)	80%	SPK: 150
1718-51-0	Terphenyl-d14	59.1		30 (48) - 130 (125)	59%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	201000	6.904			
1146-65-2	Naphthalene-d8	750000	8.187			
15067-26-2	Acenaphthene-d10	355000	9.939			
1517-22-2	Phenanthrene-d10	507000	11.428			
1719-03-5	Chrysene-d12	448000	14.069			
1520-96-3	Perylene-d12	425000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.90	AB		5.12	ug/L
000106-62-7	1-Propanol, 2-(2-hydroxypropoxy)-	3.10	J		8.43	ug/L

Raw Data: **BF142267.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	FB04262025	SDG No.:	Q1901
Lab Sample ID:	Q1901-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	940 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
BF142267.D	1	04/30/25 08:35	05/01/25 18:26	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

QC SUMMARY

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

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167779BL	PB167779BL	2-Fluorophenol	150	142	95		30 (18)	130 (112)
		Phenol-d6	150	133	89		30 (15)	130 (107)
		Nitrobenzene-d5	100	87.4	87		30 (18)	130 (107)
		2-Fluorobiphenyl	100	88.3	88		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	139	93		30 (10)	130 (116)
		Terphenyl-d14	100	106	106		30 (10)	130 (105)
PB167779BS	PB167779BS	2-Fluorophenol	150	142	95		30 (18)	130 (112)
		Phenol-d6	150	135	90		30 (15)	130 (107)
		Nitrobenzene-d5	100	86.4	86		30 (18)	130 (107)
		2-Fluorobiphenyl	100	87.2	87		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	143	95		30 (10)	130 (116)
		Terphenyl-d14	100	88.8	89		30 (10)	130 (105)
Q1901-02	B-167-SB01	2-Fluorophenol	150	97.0	65		30 (18)	130 (112)
		Phenol-d6	150	101	67		30 (15)	130 (107)
		Nitrobenzene-d5	100	76.3	76		30 (18)	130 (107)
		2-Fluorobiphenyl	100	68.7	69		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	95.5	64		30 (10)	130 (116)
		Terphenyl-d14	100	47.6	48		30 (10)	130 (105)
Q1901-02MS	B-167-SB01MS	2-Fluorophenol	150	87.3	58		30 (18)	130 (112)
		Phenol-d6	150	90.2	60		30 (15)	130 (107)
		Nitrobenzene-d5	100	68.1	68		30 (18)	130 (107)
		2-Fluorobiphenyl	100	63.1	63		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	90.8	61		30 (10)	130 (116)
		Terphenyl-d14	100	43.9	44		30 (10)	130 (105)
Q1901-02MSD	B-167-SB01MSD	2-Fluorophenol	150	85.7	57		30 (18)	130 (112)
		Phenol-d6	150	87.2	58		30 (15)	130 (107)
		Nitrobenzene-d5	100	66.9	67		30 (18)	130 (107)
		2-Fluorobiphenyl	100	61.8	62		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	89.2	59		30 (10)	130 (116)
		Terphenyl-d14	100	42.1	42		30 (10)	130 (105)
Q1901-03	B-170-SB01	2-Fluorophenol	150	80.0	53		30 (18)	130 (112)
		Phenol-d6	150	80.8	54		30 (15)	130 (107)
		Nitrobenzene-d5	100	44.8	45		30 (18)	130 (107)
		2-Fluorobiphenyl	100	44.0	44		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	79.7	53		30 (10)	130 (116)
		Terphenyl-d14	100	37.0	37		30 (10)	130 (105)
Q1901-04	B-167-SB02	2-Fluorophenol	150	119	79		30 (18)	130 (112)
		Phenol-d6	150	120	80		30 (15)	130 (107)
		Nitrobenzene-d5	100	91.3	91		30 (18)	130 (107)
		2-Fluorobiphenyl	100	73.5	74		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	122	81		30 (10)	130 (116)
		Terphenyl-d14	100	49.8	50		30 (10)	130 (105)
Q1901-05	B-170-SB02	2-Fluorophenol	150	74.0	49		30 (18)	130 (112)
		Phenol-d6	150	75.3	50		30 (15)	130 (107)
		Nitrobenzene-d5	100	56.9	57		30 (18)	130 (107)
		2-Fluorobiphenyl	100	53.8	54		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	78.2	52		30 (10)	130 (116)
		Terphenyl-d14	100	37.4	37		30 (10)	130 (105)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167798BL	PB167798BL	2-Fluorophenol	150	113	76		15 (10)	110 (139)
		Phenol-d6	150	113	76		15 (10)	110 (134)
		Nitrobenzene-d5	100	80.3	80		30 (49)	130 (133)
		2-Fluorobiphenyl	100	70.4	70		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	118	79		15 (44)	110 (137)
		Terphenyl-d14	100	64.3	64		30 (48)	130 (125)
PB167798BS	PB167798BS	2-Fluorophenol	150	111	74		15 (10)	110 (139)
		Phenol-d6	150	113	75		15 (10)	110 (134)
		Nitrobenzene-d5	100	78.7	79		30 (49)	130 (133)
		2-Fluorobiphenyl	100	69.2	69		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	131	87		15 (44)	110 (137)
		Terphenyl-d14	100	73.5	74		30 (48)	130 (125)
PB167798BSD	PB167798BSD	2-Fluorophenol	150	108	72		15 (10)	110 (139)
		Phenol-d6	150	110	74		15 (10)	110 (134)
		Nitrobenzene-d5	100	80.3	80		30 (49)	130 (133)
		2-Fluorobiphenyl	100	68.2	68		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	130	87		15 (44)	110 (137)
		Terphenyl-d14	100	73.8	74		30 (48)	130 (125)
Q1901-06	FB04262025	2-Fluorophenol	150	53.2	35		15 (10)	110 (139)
		Phenol-d6	150	32.1	21		15 (10)	110 (134)
		Nitrobenzene-d5	100	90.8	91		30 (49)	130 (133)
		2-Fluorobiphenyl	100	80.0	80		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	120	80		15 (44)	110 (137)
		Terphenyl-d14	100	59.1	59		30 (48)	130 (125)

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1901

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: Q1901-02MS		**Client Sample ID: B-167-SB01MS**						**DataFile: BF142269.D**			
Benzaldehyde	2000	0	1100	ug/Kg	55				20 (10)	160 (86)	
Phenol	2000	0	1800	ug/Kg	90				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	2000	0	1800	ug/Kg	90				70 (54)	130 (125)	
2-Chlorophenol	2000	0	1800	ug/Kg	90				70 (79)	130 (107)	
2-Methylphenol	2000	0	1700	ug/Kg	85				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	2000	0	1800	ug/Kg	90				70 (65)	130 (110)	
Acetophenone	2000	0	1800	ug/Kg	90				70 (75)	130 (111)	
3+4-Methylphenols	2000	0	1700	ug/Kg	85				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	2000	0	1700	ug/Kg	85				70 (59)	130 (119)	
Hexachloroethane	2000	0	1900	ug/Kg	95				20 (65)	160 (117)	
Nitrobenzene	2000	0	2100	ug/Kg	105				70 (70)	130 (119)	
Isophorone	2000	0	1800	ug/Kg	90				70 (76)	130 (122)	
2-Nitrophenol	2000	0	2200	ug/Kg	110				70 (54)	130 (145)	
2,4-Dimethylphenol	2000	0	1800	ug/Kg	90				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	2000	0	1800	ug/Kg	90				70 (68)	130 (112)	
2,4-Dichlorophenol	2000	0	1800	ug/Kg	90				70 (72)	130 (118)	
Naphthalene	2000	0	1800	ug/Kg	90				70 (72)	130 (110)	
4-Chloroaniline	2000	0	420	ug/Kg	21	*			70 (10)	130 (91)	
Hexachlorobutadiene	2000	0	1900	ug/Kg	95				70 (66)	130 (114)	
Caprolactam	2000	0	1700	ug/Kg	85				20 (51)	160 (134)	
4-Chloro-3-methylphenol	2000	0	1700	ug/Kg	85				70 (57)	130 (132)	
2-Methylnaphthalene	2000	0	1700	ug/Kg	85				70 (59)	130 (123)	
Hexachlorocyclopentadiene	4000	0	4000	ug/Kg	100				20 (10)	160 (175)	
2,4,6-Trichlorophenol	2000	0	2100	ug/Kg	105				70 (72)	130 (117)	
2,4,5-Trichlorophenol	2000	0	1900	ug/Kg	95				70 (72)	130 (117)	
1,1-Biphenyl	2000	0	1900	ug/Kg	95				70 (75)	130 (113)	
2-Chloronaphthalene	2000	0	1900	ug/Kg	95				70 (67)	130 (118)	
2-Nitroaniline	2000	0	1900	ug/Kg	95				70 (69)	130 (127)	
Dimethylphthalate	2000	0	1900	ug/Kg	95				70 (70)	130 (113)	
Acenaphthylene	2000	0	1800	ug/Kg	90				70 (79)	130 (118)	
2,6-Dinitrotoluene	2000	0	2000	ug/Kg	100				70 (70)	130 (125)	
3-Nitroaniline	2000	0	1000	ug/Kg	50	*			70 (30)	130 (99)	
Acenaphthene	2000	0	1900	ug/Kg	95				70 (70)	130 (121)	
2,4-Dinitrophenol	4000	0	3300	ug/Kg	83				20 (10)	160 (155)	
4-Nitrophenol	4000	0	3700	ug/Kg	93				20 (45)	160 (133)	
Dibenzofuran	2000	0	1800	ug/Kg	90				70 (72)	130 (110)	
2,4-Dinitrotoluene	2000	0	1900	ug/Kg	95				70 (55)	130 (128)	
Diethylphthalate	2000	0	1800	ug/Kg	90				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	2000	0	1800	ug/Kg	90				70 (71)	130 (108)	
Fluorene	2000	0	1700	ug/Kg	85				70 (68)	130 (116)	
4-Nitroaniline	2000	0	1600	ug/Kg	80				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	2000	0	2100	ug/Kg	105				70 (10)	130 (160)	
N-Nitrosodiphenylamine	2000	0	2100	ug/Kg	105				70 (73)	130 (118)	
4-Bromophenyl-phenylether	2000	0	2100	ug/Kg	105				70 (65)	130 (121)	
Hexachlorobenzene	2000	0	2000	ug/Kg	100				70 (67)	130 (118)	
Atrazine	2000	0	2200	ug/Kg	110				70 (79)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1901

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	4000	0	4100	ug/Kg	103				20 (47)	160 (128)	
Phenanthrene	2000	140	2000	ug/Kg	93				70 (52)	130 (128)	
Anthracene	2000	0	1900	ug/Kg	95				70 (62)	130 (124)	
Carbazole	2000	0	1800	ug/Kg	90				70 (59)	130 (119)	
Di-n-butylphthalate	2000	0	2300	ug/Kg	115				70 (69)	130 (118)	
Fluoranthene	2000	180	2000	ug/Kg	91				70 (44)	130 (125)	
Pyrene	2000	130	1400	ug/Kg	64	*			70 (26)	130 (142)	
Butylbenzylphthalate	2000	0	2100	ug/Kg	105				70 (64)	130 (126)	
3,3-Dichlorobenzidine	2000	0	1300	ug/Kg	65	*			70 (33)	130 (116)	
Benzo(a)anthracene	2000	95.0	1900	ug/Kg	90				70 (71)	130 (114)	
Chrysene	2000	0	1900	ug/Kg	95				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	2000	160	2100	ug/Kg	97				70 (42)	130 (169)	
Di-n-octyl phthalate	2000	0	2200	ug/Kg	110				70 (23)	130 (175)	
Benzo(b)fluoranthene	2000	97.3	2000	ug/Kg	95				70 (67)	130 (121)	
Benzo(k)fluoranthene	2000	0	1900	ug/Kg	95				70 (57)	130 (134)	
Benzo(a)pyrene	2000	0	1900	ug/Kg	95				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	2000	0	1400	ug/Kg	70				70 (40)	130 (129)	
Dibenz(a,h)anthracene	2000	0	1400	ug/Kg	70				70 (43)	130 (123)	
Benzo(g,h,i)perylene	2000	0	1300	ug/Kg	65	*			70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	2000	0	2000	ug/Kg	100				70 (69)	130 (124)	
1,4-Dioxane	2000	0	1600	ug/Kg	80				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	2000	0	1800	ug/Kg	90				70 (69)	130 (112)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1901

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: Q1901-02MSD		**Client Sample ID: B-167-SB01MSD**						**DataFile: BF142270.D**			
Benzaldehyde	2000	0	1100	ug/Kg	55		0		20 (10)	160 (86)	30 (20)
Phenol	2000	0	1700	ug/Kg	85		6		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	2000	0	1700	ug/Kg	85		6		70 (54)	130 (125)	30 (20)
2-Chlorophenol	2000	0	1800	ug/Kg	90		0		70 (79)	130 (107)	30 (20)
2-Methylphenol	2000	0	1700	ug/Kg	85		0		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	2000	0	1800	ug/Kg	90		0		70 (65)	130 (110)	30 (20)
Acetophenone	2000	0	1700	ug/Kg	85		6		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	2000	0	1700	ug/Kg	85		0		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	2000	0	1700	ug/Kg	85		0		70 (59)	130 (119)	30 (20)
Hexachloroethane	2000	0	1800	ug/Kg	90		5		20 (65)	160 (117)	30 (20)
Nitrobenzene	2000	0	2000	ug/Kg	100		5		70 (70)	130 (119)	30 (20)
Isophorone	2000	0	1700	ug/Kg	85		6		70 (76)	130 (122)	30 (20)
2-Nitrophenol	2000	0	2200	ug/Kg	110		0		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	2000	0	1700	ug/Kg	85		6		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	2000	0	1800	ug/Kg	90		0		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	2000	0	1800	ug/Kg	90		0		70 (72)	130 (118)	30 (20)
Naphthalene	2000	0	1700	ug/Kg	85		6		70 (72)	130 (110)	30 (20)
4-Chloroaniline	2000	0	480	ug/Kg	24	*	13		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	2000	0	1900	ug/Kg	95		0		70 (66)	130 (114)	30 (20)
Caprolactam	2000	0	1600	ug/Kg	80		6		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	2000	0	1600	ug/Kg	80		6		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	2000	0	1700	ug/Kg	85		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	4000	0	4000	ug/Kg	100		0		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	2000	0	2000	ug/Kg	100		5		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	2000	0	1900	ug/Kg	95		0		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	2000	0	1900	ug/Kg	95		0		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	2000	0	1800	ug/Kg	90		5		70 (67)	130 (118)	30 (20)
2-Nitroaniline	2000	0	1900	ug/Kg	95		0		70 (69)	130 (127)	30 (20)
Dimethylphthalate	2000	0	1800	ug/Kg	90		5		70 (70)	130 (113)	30 (20)
Acenaphthylene	2000	0	1800	ug/Kg	90		0		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	2000	0	1900	ug/Kg	95		5		70 (70)	130 (125)	30 (20)
3-Nitroaniline	2000	0	1000	ug/Kg	50	*	0		70 (30)	130 (99)	30 (20)
Acenaphthene	2000	0	1900	ug/Kg	95		0		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	4000	0	3400	ug/Kg	85		2		20 (10)	160 (155)	30 (20)
4-Nitrophenol	4000	0	3600	ug/Kg	90		3		20 (45)	160 (133)	30 (20)
Dibenzofuran	2000	0	1700	ug/Kg	85		6		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	2000	0	1900	ug/Kg	95		0		70 (55)	130 (128)	30 (20)
Diethylphthalate	2000	0	1800	ug/Kg	90		0		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	2000	0	1700	ug/Kg	85		6		70 (71)	130 (108)	30 (20)
Fluorene	2000	0	1700	ug/Kg	85		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	2000	0	1600	ug/Kg	80		0		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	2000	0	2100	ug/Kg	105		0		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	2000	0	1900	ug/Kg	95		10		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	2000	0	2000	ug/Kg	100		5		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	2000	0	1900	ug/Kg	95		5		70 (67)	130 (118)	30 (20)
Atrazine	2000	0	2100	ug/Kg	105		5		70 (79)	130 (127)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1901

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	4000	0	3900	ug/Kg	98		5		20 (47)	160 (128)	30 (20)
Phenanthrene	2000	140	1900	ug/Kg	88		6		70 (52)	130 (128)	30 (20)
Anthracene	2000	0	1800	ug/Kg	90		5		70 (62)	130 (124)	30 (20)
Carbazole	2000	0	1700	ug/Kg	85		6		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	2000	0	2200	ug/Kg	110		4		70 (69)	130 (118)	30 (20)
Fluoranthene	2000	180	1900	ug/Kg	86		6		70 (44)	130 (125)	30 (20)
Pyrene	2000	130	1400	ug/Kg	64	*	0		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	2000	0	2000	ug/Kg	100		5		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	2000	0	1400	ug/Kg	70		7		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	2000	95.0	1800	ug/Kg	85		6		70 (71)	130 (114)	30 (20)
Chrysene	2000	0	1800	ug/Kg	90		5		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	2000	160	2100	ug/Kg	97		0		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	2000	0	2100	ug/Kg	105		5		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	2000	97.3	2000	ug/Kg	95		0		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	2000	0	1800	ug/Kg	90		5		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	2000	0	1900	ug/Kg	95		0		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	2000	0	1300	ug/Kg	65	*	7		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	2000	0	1300	ug/Kg	65	*	7		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	2000	0	1200	ug/Kg	60	*	8		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	2000	0	1900	ug/Kg	95		5		70 (69)	130 (124)	30 (20)
1,4-Dioxane	2000	0	1500	ug/Kg	75		6		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	2000	0	1800	ug/Kg	90		0		70 (69)	130 (112)	30 (20)

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF142252.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167798BS	Benzaldehyde	50	25.4	ug/L	51				20 (10)	160 (162)	
	Phenol	50	41.2	ug/L	82				20 (66)	160 (118)	
	bis(2-Chloroethyl)ether	50	40.9	ug/L	82				70 (62)	130 (103)	
	2-Chlorophenol	50	42.6	ug/L	85				70 (70)	130 (117)	
	2-Methylphenol	50	41.9	ug/L	84				70 (69)	130 (109)	
	2,2-oxybis(1-Chloropropane)	50	41.6	ug/L	83				70 (65)	130 (100)	
	Acetophenone	50	40.1	ug/L	80				70 (60)	130 (104)	
	3+4-Methylphenols	50	41.5	ug/L	83				20 (67)	160 (106)	
	N-Nitroso-di-n-propylamine	50	40.8	ug/L	82				70 (57)	130 (107)	
	Hexachloroethane	50	42.0	ug/L	84				20 (76)	160 (118)	
	Nitrobenzene	50	44.5	ug/L	89				70 (58)	130 (106)	
	Isophorone	50	41.5	ug/L	83				70 (61)	130 (102)	
	2-Nitrophenol	50	41.8	ug/L	84				70 (70)	130 (115)	
	2,4-Dimethylphenol	50	42.1	ug/L	84				70 (42)	130 (142)	
	bis(2-Chloroethoxy)methane	50	41.0	ug/L	82				70 (58)	130 (109)	
	2,4-Dichlorophenol	50	42.8	ug/L	86				70 (66)	130 (115)	
	Naphthalene	50	40.4	ug/L	81				70 (64)	130 (107)	
	4-Chloroaniline	50	6.60	ug/L	13		*		70 (10)	130 (85)	
	Hexachlorobutadiene	50	41.5	ug/L	83				70 (69)	130 (101)	
	Caprolactam	50	45.6	ug/L	91				20 (58)	160 (128)	
	4-Chloro-3-methylphenol	50	43.3	ug/L	87				70 (65)	130 (114)	
	2-Methylnaphthalene	50	40.5	ug/L	81				70 (64)	130 (107)	
	Hexachlorocyclopentadiene	100	88.9	ug/L	89				20 (36)	160 (160)	
	2,4,6-Trichlorophenol	50	43.8	ug/L	88				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	45.4	ug/L	91				70 (70)	130 (106)	
	1,1-Biphenyl	50	40.9	ug/L	82				70 (72)	130 (98)	
	2-Chloronaphthalene	50	40.7	ug/L	81				70 (59)	130 (106)	
	2-Nitroaniline	50	43.1	ug/L	86				70 (73)	130 (114)	
	Dimethylphthalate	50	43.0	ug/L	86				70 (64)	130 (103)	
	Acenaphthylene	50	41.2	ug/L	82				70 (79)	130 (103)	
	2,6-Dinitrotoluene	50	43.8	ug/L	88				70 (64)	130 (110)	
	3-Nitroaniline	50	19.5	ug/L	39		*		70 (28)	130 (100)	
	Acenaphthene	50	43.9	ug/L	88				70 (59)	130 (113)	
	2,4-Dinitrophenol	100	84.5	ug/L	85				20 (36)	160 (166)	
	4-Nitrophenol	100	100	ug/L	100				20 (45)	160 (147)	
	Dibenzofuran	50	40.8	ug/L	82				70 (65)	130 (106)	
	2,4-Dinitrotoluene	50	48.4	ug/L	97				70 (60)	130 (115)	
	Diethylphthalate	50	43.7	ug/L	87				70 (63)	130 (105)	
	4-Chlorophenyl-phenylether	50	40.7	ug/L	81				70 (61)	130 (104)	
	Fluorene	50	41.1	ug/L	82				70 (64)	130 (107)	
	4-Nitroaniline	50	44.5	ug/L	89				70 (55)	130 (125)	
	4,6-Dinitro-2-methylphenol	50	44.4	ug/L	89				70 (62)	130 (132)	
	N-Nitrosodiphenylamine	50	40.9	ug/L	82				70 (61)	130 (109)	
	4-Bromophenyl-phenylether	50	42.0	ug/L	84				70 (73)	130 (103)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF142252.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167798BS	Hexachlorobenzene	50	41.7	ug/L	83				70 (73)	130 (106)	
	Atrazine	50	45.4	ug/L	91				70 (76)	130 (120)	
	Pentachlorophenol	100	93.2	ug/L	93				20 (47)	160 (114)	
	Phenanthrene	50	40.0	ug/L	80				70 (62)	130 (109)	
	Anthracene	50	40.9	ug/L	82				70 (65)	130 (110)	
	Carbazole	50	41.5	ug/L	83				70 (62)	130 (106)	
	Di-n-butylphthalate	50	45.2	ug/L	90				70 (64)	130 (106)	
	Fluoranthene	50	41.9	ug/L	84				70 (64)	130 (110)	
	Pyrene	50	42.9	ug/L	86				70 (71)	130 (103)	
	Butylbenzylphthalate	50	45.3	ug/L	91				70 (61)	130 (105)	
	3,3-Dichlorobenzidine	50	11.7	ug/L	23		*		70 (43)	130 (108)	
	Benzo(a)anthracene	50	41.2	ug/L	82				70 (62)	130 (107)	
	Chrysene	50	43.6	ug/L	87				70 (61)	130 (108)	
	bis(2-Ethylhexyl)phthalate	50	40.8	ug/L	82				70 (59)	130 (110)	
	Di-n-octyl phthalate	50	41.0	ug/L	82				70 (52)	130 (139)	
	Benzo(b)fluoranthene	50	44.1	ug/L	88				70 (77)	130 (113)	
	Benzo(k)fluoranthene	50	39.7	ug/L	79				70 (77)	130 (105)	
	Benzo(a)pyrene	50	42.5	ug/L	85				70 (72)	130 (131)	
	Indeno(1,2,3-cd)pyrene	50	42.2	ug/L	84				70 (72)	130 (105)	
	Dibenz(a,h)anthracene	50	42.3	ug/L	85				70 (78)	130 (115)	
	Benzo(g,h,i)perylene	50	42.0	ug/L	84				70 (75)	130 (118)	
	1,2,4,5-Tetrachlorobenzene	50	40.0	ug/L	80				70 (72)	130 (101)	
	1,4-Dioxane	50	34.0	ug/L	68				20 (38)	160 (125)	
	2,3,4,6-Tetrachlorophenol	50	44.9	ug/L	90				70 (63)	130 (116)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF142253.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167798BSD	Benzaldehyde	50	24.3	ug/L	49	4			20 (10)	160 (162)	20 (20)
	Phenol	50	40.3	ug/L	81	2			20 (66)	160 (118)	20 (20)
	bis(2-Chloroethyl)ether	50	40.2	ug/L	80	2			70 (62)	130 (103)	20 (20)
	2-Chlorophenol	50	42.5	ug/L	85	0			70 (70)	130 (117)	20 (20)
	2-Methylphenol	50	41.8	ug/L	84	0			70 (69)	130 (109)	20 (20)
	2,2-oxybis(1-Chloropropane)	50	41.0	ug/L	82	1			70 (65)	130 (100)	20 (20)
	Acetophenone	50	39.7	ug/L	79	1			70 (60)	130 (104)	20 (20)
	3+4-Methylphenols	50	41.3	ug/L	83	0			20 (67)	160 (106)	20 (20)
	N-Nitroso-di-n-propylamine	50	40.6	ug/L	81	0			70 (57)	130 (107)	20 (20)
	Hexachloroethane	50	41.3	ug/L	83	2			20 (76)	160 (118)	20 (20)
	Nitrobenzene	50	45.3	ug/L	91	2			70 (58)	130 (106)	20 (20)
	Isophorone	50	41.1	ug/L	82	1			70 (61)	130 (102)	20 (20)
	2-Nitrophenol	50	46.3	ug/L	93	10			70 (70)	130 (115)	20 (20)
	2,4-Dimethylphenol	50	42.5	ug/L	85	1			70 (42)	130 (142)	20 (20)
	bis(2-Chloroethoxy)methane	50	41.0	ug/L	82	0			70 (58)	130 (109)	20 (20)
	2,4-Dichlorophenol	50	43.3	ug/L	87	1			70 (66)	130 (115)	20 (20)
	Naphthalene	50	39.8	ug/L	80	1			70 (64)	130 (107)	20 (20)
	4-Chloroaniline	50	9.00	ug/L	18	31	*	*	70 (10)	130 (85)	20 (20)
	Hexachlorobutadiene	50	41.1	ug/L	82	1			70 (69)	130 (101)	20 (20)
	Caprolactam	50	46.4	ug/L	93	2			20 (58)	160 (128)	20 (20)
	4-Chloro-3-methylphenol	50	43.4	ug/L	87	0			70 (65)	130 (114)	20 (20)
	2-Methylnaphthalene	50	40.2	ug/L	80	1			70 (64)	130 (107)	20 (20)
	Hexachlorocyclopentadiene	100	89.1	ug/L	89	0			20 (36)	160 (160)	20 (20)
	2,4,6-Trichlorophenol	50	45.2	ug/L	90	3			70 (61)	130 (110)	20 (20)
	2,4,5-Trichlorophenol	50	44.8	ug/L	90	1			70 (70)	130 (106)	20 (20)
	1,1-Biphenyl	50	40.3	ug/L	81	1			70 (72)	130 (98)	20 (20)
	2-Chloronaphthalene	50	40.5	ug/L	81	0			70 (59)	130 (106)	20 (20)
	2-Nitroaniline	50	45.4	ug/L	91	5			70 (73)	130 (114)	20 (20)
	Dimethylphthalate	50	42.7	ug/L	85	1			70 (64)	130 (103)	20 (20)
	Acenaphthylene	50	40.8	ug/L	82	1			70 (79)	130 (103)	20 (20)
	2,6-Dinitrotoluene	50	45.6	ug/L	91	4			70 (64)	130 (110)	20 (20)
	3-Nitroaniline	50	22.4	ug/L	45	14	*		70 (28)	130 (100)	20 (20)
	Acenaphthene	50	44.0	ug/L	88	0			70 (59)	130 (113)	20 (20)
	2,4-Dinitrophenol	100	91.6	ug/L	92	8			20 (36)	160 (166)	20 (20)
	4-Nitrophenol	100	100	ug/L	100	0			20 (45)	160 (147)	20 (20)
	Dibenzofuran	50	40.7	ug/L	81	0			70 (65)	130 (106)	20 (20)
	2,4-Dinitrotoluene	50	49.3	ug/L	99	2			70 (60)	130 (115)	20 (20)
	Diethylphthalate	50	43.2	ug/L	86	1			70 (63)	130 (105)	20 (20)
	4-Chlorophenyl-phenylether	50	41.3	ug/L	83	1			70 (61)	130 (104)	20 (20)
	Fluorene	50	40.7	ug/L	81	1			70 (64)	130 (107)	20 (20)
	4-Nitroaniline	50	45.3	ug/L	91	2			70 (55)	130 (125)	20 (20)
	4,6-Dinitro-2-methylphenol	50	48.7	ug/L	97	9			70 (62)	130 (132)	20 (20)
	N-Nitrosodiphenylamine	50	41.3	ug/L	83	1			70 (61)	130 (109)	20 (20)
	4-Bromophenyl-phenylether	50	42.4	ug/L	85	1			70 (73)	130 (103)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF142253.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167798BSD	Hexachlorobenzene	50	42.2	ug/L	84	1			70 (73)	130 (106)	20 (20)
	Atrazine	50	47.1	ug/L	94	4			70 (76)	130 (120)	20 (20)
	Pentachlorophenol	100	94.7	ug/L	95	2			20 (47)	160 (114)	20 (20)
	Phenanthrene	50	40.7	ug/L	81	2			70 (62)	130 (109)	20 (20)
	Anthracene	50	41.3	ug/L	83	1			70 (65)	130 (110)	20 (20)
	Carbazole	50	42.1	ug/L	84	1			70 (62)	130 (106)	20 (20)
	Di-n-butylphthalate	50	45.2	ug/L	90	0			70 (64)	130 (106)	20 (20)
	Fluoranthene	50	41.8	ug/L	84	0			70 (64)	130 (110)	20 (20)
	Pyrene	50	43.0	ug/L	86	0			70 (71)	130 (103)	20 (20)
	Butylbenzylphthalate	50	45.7	ug/L	91	1			70 (61)	130 (105)	20 (20)
	3,3-Dichlorobenzidine	50	14.2	ug/L	28	19	*		70 (43)	130 (108)	20 (20)
	Benzo(a)anthracene	50	41.3	ug/L	83	0			70 (62)	130 (107)	20 (20)
	Chrysene	50	43.0	ug/L	86	1			70 (61)	130 (108)	20 (20)
	bis(2-Ethylhexyl)phthalate	50	40.6	ug/L	81	0			70 (59)	130 (110)	20 (20)
	Di-n-octyl phthalate	50	41.5	ug/L	83	1			70 (52)	130 (139)	20 (20)
	Benzo(b)fluoranthene	50	39.3	ug/L	79	12			70 (77)	130 (113)	20 (20)
	Benzo(k)fluoranthene	50	44.5	ug/L	89	11			70 (77)	130 (105)	20 (20)
	Benzo(a)pyrene	50	42.6	ug/L	85	0			70 (72)	130 (131)	20 (20)
	Indeno(1,2,3-cd)pyrene	50	42.8	ug/L	86	1			70 (72)	130 (105)	20 (20)
	Dibenz(a,h)anthracene	50	43.0	ug/L	86	2			70 (78)	130 (115)	20 (20)
	Benzo(g,h,i)perylene	50	43.1	ug/L	86	3			70 (75)	130 (118)	20 (20)
	1,2,4,5-Tetrachlorobenzene	50	39.5	ug/L	79	1			70 (72)	130 (101)	20 (20)
	1,4-Dioxane	50	33.5	ug/L	67	1			20 (38)	160 (125)	20 (20)
	2,3,4,6-Tetrachlorophenol	50	46.2	ug/L	92	3			70 (63)	130 (116)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BM050064.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167779BS	Benzaldehyde	1700	890	ug/Kg	52				20 (10)	160 (133)	
	Phenol	1700	1500	ug/Kg	88				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				70 (60)	130 (101)	
	2-Chlorophenol	1700	1500	ug/Kg	88				70 (65)	130 (112)	
	2-Methylphenol	1700	1400	ug/Kg	82				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1500	ug/Kg	88				70 (51)	130 (100)	
	Acetophenone	1700	1600	ug/Kg	94				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1400	ug/Kg	82				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1300	ug/Kg	76				70 (63)	130 (95)	
	Hexachloroethane	1700	1500	ug/Kg	88				20 (72)	160 (108)	
	Nitrobenzene	1700	1600	ug/Kg	94				70 (57)	130 (101)	
	Isophorone	1700	1400	ug/Kg	82				70 (59)	130 (99)	
	2-Nitrophenol	1700	1500	ug/Kg	88				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1500	ug/Kg	88				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	1500	ug/Kg	88				70 (62)	130 (100)	
	4-Chloroaniline	1700	610	ug/Kg	36		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				70 (53)	130 (98)	
	Caprolactam	1700	1300	ug/Kg	76				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	3700	ug/Kg	112				20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1600	ug/Kg	94				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1600	ug/Kg	94				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1600	ug/Kg	94				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1600	ug/Kg	94				70 (58)	130 (99)	
	2-Nitroaniline	1700	1600	ug/Kg	94				70 (66)	130 (101)	
	Dimethylphthalate	1700	1400	ug/Kg	82				70 (61)	130 (99)	
	Acenaphthylene	1700	1500	ug/Kg	88				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1500	ug/Kg	88				70 (61)	130 (104)	
	3-Nitroaniline	1700	800	ug/Kg	47		*		70 (28)	130 (100)	
	Acenaphthene	1700	1500	ug/Kg	88				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	2800	ug/Kg	85				20 (37)	160 (128)	
	4-Nitrophenol	3300	3000	ug/Kg	91				20 (48)	160 (119)	
	Dibenzofuran	1700	1500	ug/Kg	88				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1500	ug/Kg	88				70 (60)	130 (106)	
	Diethylphthalate	1700	1400	ug/Kg	82				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1600	ug/Kg	94				70 (58)	130 (98)	
	Fluorene	1700	1600	ug/Kg	94				70 (61)	130 (101)	
	4-Nitroaniline	1700	1400	ug/Kg	82				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	1500	ug/Kg	88				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1600	ug/Kg	94				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				70 (66)	130 (102)	

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1901

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BM050064.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167779BS	Hexachlorobenzene	1700	1600	ug/Kg	94				70 (64)	130 (98)	
	Atrazine	1700	1500	ug/Kg	88				70 (47)	130 (152)	
	Pentachlorophenol	3300	3700	ug/Kg	112				20 (67)	160 (105)	
	Phenanthrene	1700	1600	ug/Kg	94				70 (59)	130 (103)	
	Anthracene	1700	1600	ug/Kg	94				70 (61)	130 (105)	
	Carbazole	1700	1600	ug/Kg	94				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1500	ug/Kg	88				70 (58)	130 (104)	
	Fluoranthene	1700	1600	ug/Kg	94				70 (57)	130 (107)	
	Pyrene	1700	1600	ug/Kg	94				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1500	ug/Kg	88				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	830	ug/Kg	49		*		70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1600	ug/Kg	94				70 (60)	130 (102)	
	Chrysene	1700	1500	ug/Kg	88				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	1500	ug/Kg	88				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	1400	ug/Kg	82				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1600	ug/Kg	94				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1600	ug/Kg	94				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1600	ug/Kg	94				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1600	ug/Kg	94				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	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	1300	ug/Kg	76				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1500	ug/Kg	88				70 (59)	130 (108)	

( ) = LABORATORY INHOUSE LIMIT

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167779BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: BM050063.D Lab Sample ID: PB167779BL

Instrument ID: BNA_M Date Extracted: 04/29/2025

Matrix: (soil/water) SOIL Date Analyzed: 05/01/2025

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167779BS	PB167779BS	BM050064.D	05/01/2025
B-170-SB01	Q1901-03	BM050074.D	05/01/2025
B-167-SB01	Q1901-02	BF142268.D	05/01/2025
B-167-SB01MS	Q1901-02MS	BF142269.D	05/01/2025
B-167-SB01MSD	Q1901-02MSD	BF142270.D	05/01/2025
B-167-SB02	Q1901-04	BF142271.D	05/01/2025
B-170-SB02	Q1901-05	BF142272.D	05/01/2025

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167798BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: BF142251.D Lab Sample ID: PB167798BL

Instrument ID: BNA_F Date Extracted: 04/30/2025

Matrix: (soil/water) Water Date Analyzed: 05/01/2025

Level: (low/med) LOW Time Analyzed: 10:45

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167798BS	PB167798BS	BF142252.D	05/01/2025
PB167798BSD	PB167798BSD	BF142253.D	05/01/2025
FB04262025	Q1901-06	BF142267.D	05/01/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: BF142238.D DFTPP Injection Date: 04/30/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.6
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	27.3
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	37.1
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.3
275	10.0 - 60.0% of mass 198	22.8
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	15.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.9 (19.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF142239.D	04/30/2025	11:24
SSTDICC005	SSTDICC005	BF142240.D	04/30/2025	11:52
SSTDICC010	SSTDICC010	BF142241.D	04/30/2025	12:20
SSTDICC020	SSTDICC020	BF142242.D	04/30/2025	12:49
SSTDICCC040	SSTDICCC040	BF142243.D	04/30/2025	13:17
SSTDICC050	SSTDICC050	BF142244.D	04/30/2025	13:46
SSTDICC060	SSTDICC060	BF142245.D	04/30/2025	14:15
SSTDICC080	SSTDICC080	BF142246.D	04/30/2025	14:43

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: BF142249.D DFTPP Injection Date: 05/01/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:48

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.4
68	Less than 2.0% of mass 69	0.5 (1.6) 1
69	Mass 69 relative abundance	31.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	42.4
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.9
275	10.0 - 60.0% of mass 198	23.8
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	15.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.1 (19.1) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142250.D	05/01/2025	10:17
PB167798BL	PB167798BL	BF142251.D	05/01/2025	10:45
PB167798BS	PB167798BS	BF142252.D	05/01/2025	11:13
PB167798BSD	PB167798BSD	BF142253.D	05/01/2025	11:42
FB04262025	Q1901-06	BF142267.D	05/01/2025	18:26
B-167-SB01	Q1901-02	BF142268.D	05/01/2025	18:55
B-167-SB01MS	Q1901-02MS	BF142269.D	05/01/2025	19:24
B-167-SB01MSD	Q1901-02MSD	BF142270.D	05/01/2025	19:52
B-167-SB02	Q1901-04	BF142271.D	05/01/2025	20:20
B-170-SB02	Q1901-05	BF142272.D	05/01/2025	20:49

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: BM050023.D DFTPP Injection Date: 04/28/2025

Instrument ID: BNA_M DFTPP Injection Time: 11:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.8
68	Less than 2.0% of mass 69	0.4 (1.3) 1
69	Mass 69 relative abundance	28.5
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	35.7
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	26.2
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	11.6
442	Greater than 50% of mass 198	74.7
443	15.0 - 24.0% of mass 442	14.4 (19.3) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BM050024.D	04/28/2025	12:30
SSTDICC005	SSTDICC005	BM050025.D	04/28/2025	13:09
SSTDICC010	SSTDICC010	BM050026.D	04/28/2025	13:48
SSTDICC020	SSTDICC020	BM050027.D	04/28/2025	14:27
SSTDICCC040	SSTDICCC040	BM050028.D	04/28/2025	15:06
SSTDICC050	SSTDICC050	BM050029.D	04/28/2025	15:45
SSTDICC060	SSTDICC060	BM050030.D	04/28/2025	16:24
SSTDICC080	SSTDICC080	BM050031.D	04/28/2025	17:04

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1901 SDG NO.: Q1901

Lab File ID: BM050061.D DFTPP Injection Date: 05/01/2025

Instrument ID: BNA_M DFTPP Injection Time: 12:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	22.1
68	Less than 2.0% of mass 69	0.4 (1.5) 1
69	Mass 69 relative abundance	26.4
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	34.3
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	12.6
442	Greater than 50% of mass 198	81.4
443	15.0 - 24.0% of mass 442	15.5 (19.1) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BM050062.D	05/01/2025	13:25
PB167779BL	PB167779BL	BM050063.D	05/01/2025	14:04
PB167779BS	PB167779BS	BM050064.D	05/01/2025	14:43
B-170-SB01	Q1901-03	BM050074.D	05/01/2025	21:18

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2025

Lab File ID: BF142250.D Time Analyzed: 10:17

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	186578	6.91	719586	8.19	381198	9.95
	UPPER LIMIT	373156	7.41	1439170	8.692	762396	10.445
	LOWER LIMIT	93289	6.41	359793	7.692	190599	9.445
	EPA SAMPLE NO.						
01	PB167798BL	227901	6.90	877397	8.19	467254	9.95
02	PB167798BS	225762	6.91	889454	8.19	464234	9.95
03	PB167798BSD	228844	6.91	895505	8.19	472033	9.95
04	B-167-SB01	204691	6.90	764165	8.19	363631	9.94
05	B-167-SB01MS	207729	6.91	776941	8.19	359640	9.95
06	B-167-SB01MSD	204570	6.91	762454	8.19	351872	9.95
07	B-167-SB02	201306	6.90	748548	8.19	358843	9.94
08	FB04262025	201475	6.90	750141	8.19	355308	9.94
09	B-170-SB02	191116	6.90	720969	8.19	342220	9.94

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.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2025

Lab File ID: BF142250.D Time Analyzed: 10:17

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	647816	11.433	384442	14.074	349272	15.562
	UPPER LIMIT	1295630	11.933	768884	14.574	698544	16.062
	LOWER LIMIT	323908	10.933	192221	13.574	174636	15.062
	EPA SAMPLE NO.						
01	PB167798BL	826787	11.43	587490	14.07	406867	15.56
02	PB167798BS	800889	11.43	447227	14.07	448663	15.56
03	PB167798BSD	796412	11.43	445019	14.07	441873	15.56
04	B-167-SB01	501735	11.43	437339	14.07	454707	15.56
05	B-167-SB01MS	495470	11.43	427878	14.07	472653	15.56
06	B-167-SB01MSD	496148	11.43	429879	14.07	473333	15.56
07	B-167-SB02	508457	11.43	449365	14.07	455676	15.56
08	FB04262025	506536	11.43	447799	14.07	425092	15.56
09	B-170-SB02	490996	11.43	440399	14.06	434416	15.56

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2025

Lab File ID: BM050062.D Time Analyzed: 13:25

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	329367	7.757	1090200	10.55	636680	14.40
	UPPER LIMIT	658734	8.257	2180400	11.045	1273360	14.898
	LOWER LIMIT	164684	7.257	545100	10.045	318340	13.898
	EPA SAMPLE NO.						
01	B-170-SB01	274480	7.75	1008900	10.54	706272	14.39
02	PB167779BL	362102	7.75	1207360	10.55	720688	14.40
03	PB167779BS	339452	7.75	1125330	10.55	664515	14.39

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.: Q1901 SAS No.: Q1901 SDG NO.: Q1901

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/01/2025

Lab File ID: BM050062.D Time Analyzed: 13:25

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1171490	17.145	1137060	21.386	1050480	24.374
	UPPER LIMIT	2342980	17.645	2274120	21.886	2100960	24.874
	LOWER LIMIT	585745	16.645	568530	20.886	525240	23.874
	EPA SAMPLE NO.						
01	B-170-SB01	1455100	17.15	1407670	21.38	1408740	24.37
02	PB167779BL	1342350	17.15	1132570	21.39	1130010	24.37
03	PB167779BS	1227380	17.14	1219130	21.38	1104890	24.37

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: **BM050063.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:	PB167779BL	SDG No.:	Q1901
Lab Sample ID:	PB167779BL	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
BM050063.D	1	04/29/25 09:30	05/01/25 14:04	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	160	U	160	330	ug/Kg
108-95-2	Phenol	22.1	U	22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	24.3	U	24.3	170	ug/Kg
95-57-8	2-Chlorophenol	24.4	U	24.4	170	ug/Kg
95-48-7	2-Methylphenol	29.9	U	29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	37.5	U	37.5	170	ug/Kg
98-86-2	Acetophenone	29.5	U	29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	41.1	U	41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	47.4	U	47.4	80.0	ug/Kg
67-72-1	Hexachloroethane	17.6	U	17.6	170	ug/Kg
98-95-3	Nitrobenzene	18.3	U	18.3	170	ug/Kg
78-59-1	Isophorone	32.8	U	32.8	170	ug/Kg
88-75-5	2-Nitrophenol	58.2	U	58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	64.8	U	64.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	30.8	U	30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	28.3	U	28.3	170	ug/Kg
91-20-3	Naphthalene	22.7	U	22.7	170	ug/Kg
106-47-8	4-Chloroaniline	35.4	U	35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	25.3	U	25.3	170	ug/Kg
105-60-2	Caprolactam	52.1	U	52.1	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	28.7	U	28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	25.6	U	25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	120	U	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	19.8	U	19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	29.1	U	29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	21.8	U	21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	22.5	U	22.5	170	ug/Kg
88-74-4	2-Nitroaniline	48.1	U	48.1	170	ug/Kg
131-11-3	Dimethylphthalate	27.1	U	27.1	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167779BL	SDG No.:	Q1901
Lab Sample ID:	PB167779BL	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
BM050063.D	1	04/29/25 09:30	05/01/25 14:04	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	28.9	U	28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	33.6	U	33.6	170	ug/Kg
99-09-2	3-Nitroaniline	46.0	U	46.0	170	ug/Kg
83-32-9	Acenaphthene	21.3	U	21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	230	U	230	330	ug/Kg
100-02-7	4-Nitrophenol	110	U	110	330	ug/Kg
132-64-9	Dibenzofuran	22.7	U	22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	50.1	U	50.1	170	ug/Kg
84-66-2	Diethylphthalate	28.3	U	28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	26.7	U	26.7	170	ug/Kg
86-73-7	Fluorene	25.3	U	25.3	170	ug/Kg
100-01-6	4-Nitroaniline	64.2	U	64.2	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	100	U	100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	32.9	U	32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	27.8	U	27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	25.3	U	25.3	170	ug/Kg
1912-24-9	Atrazine	34.0	U	34.0	170	ug/Kg
87-86-5	Pentachlorophenol	51.3	U	51.3	330	ug/Kg
85-01-8	Phenanthrene	20.9	U	20.9	170	ug/Kg
120-12-7	Anthracene	33.3	U	33.3	170	ug/Kg
86-74-8	Carbazole	31.2	U	31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	47.9	U	47.9	170	ug/Kg
206-44-0	Fluoranthene	30.0	U	30.0	170	ug/Kg
129-00-0	Pyrene	36.0	U	36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	71.4	U	71.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	36.7	U	36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	23.0	U	23.0	170	ug/Kg
218-01-9	Chrysene	19.9	U	19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	59.2	U	59.2	170	ug/Kg
117-84-0	Di-n-octyl phthalate	86.8	U	86.8	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	19.0	U	19.0	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167779BL	SDG No.:	Q1901
Lab Sample ID:	PB167779BL	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
BM050063.D	1	04/29/25 09:30	05/01/25 14:04	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	22.4	U	22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	29.5	U	29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	29.1	U	29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	27.4	U	27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	25.7	U	25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	25.6	U	25.6	170	ug/Kg
123-91-1	1,4-Dioxane	45.2	U	45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	27.4	U	27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	142		30 (18) - 130 (112)	95%	SPK: 150
13127-88-3	Phenol-d6	133		30 (15) - 130 (107)	89%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.4		30 (18) - 130 (107)	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	88.3		30 (20) - 130 (109)	88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	139		30 (10) - 130 (116)	93%	SPK: 150
1718-51-0	Terphenyl-d14	106		30 (10) - 130 (105)	106%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	362000	7.751			
1146-65-2	Naphthalene-d8	1210000	10.545			
15067-26-2	Acenaphthene-d10	721000	14.398			
1517-22-2	Phenanthrene-d10	1340000	17.145			
1719-03-5	Chrysene-d12	1130000	21.386			
1520-96-3	Perylene-d12	1130000	24.374			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	A		4.89	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	PB167779BL			SDG No.:	Q1901
Lab Sample ID:	PB167779BL			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
BM050063.D	1	04/29/25 09:30	05/01/25 14:04	PB167779

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: **BF142251.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:	PB167798BL	SDG No.:	Q1901
Lab Sample ID:	PB167798BL	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
BF142251.D	1	04/30/25 08:35	05/01/25 10:45	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	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)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	U	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	U	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	U	0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	0.61	U	0.61	5.00	ug/L

Raw Data: **BF142251.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:	PB167798BL	SDG No.:	Q1901
Lab Sample ID:	PB167798BL	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
BF142251.D	1	04/30/25 08:35	05/01/25 10:45	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	U	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	U	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	U	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	1.90	U	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L

Raw Data: **BF142251.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:	PB167798BL	SDG No.:	Q1901
Lab Sample ID:	PB167798BL	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
BF142251.D	1	04/30/25 08:35	05/01/25 10:45	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	113		15 (10) - 110 (139)	76%	SPK: 150
13127-88-3	Phenol-d6	113		15 (10) - 110 (134)	76%	SPK: 150
4165-60-0	Nitrobenzene-d5	80.3		30 (49) - 130 (133)	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.4		30 (52) - 130 (132)	70%	SPK: 100
118-79-6	2,4,6-Tribromophenol	118		15 (44) - 110 (137)	79%	SPK: 150
1718-51-0	Terphenyl-d14	64.3		30 (48) - 130 (125)	64%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	228000	6.904			
1146-65-2	Naphthalene-d8	877000	8.187			
15067-26-2	Acenaphthene-d10	467000	9.945			
1517-22-2	Phenanthrene-d10	827000	11.428			
1719-03-5	Chrysene-d12	587000	14.069			
1520-96-3	Perylene-d12	407000	15.563			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	8.70	A		5.15	ug/L

Raw Data: **BF142251.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:	PB167798BL	SDG No.:	Q1901
Lab Sample ID:	PB167798BL	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
BF142251.D	1	04/30/25 08:35	05/01/25 10:45	PB167798

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:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167779BS	SDG No.:	Q1901
Lab Sample ID:	PB167779BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050064.D	1	04/29/25 09:30	05/01/25 14:43	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	890		160	330	ug/Kg
108-95-2	Phenol	1500		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1500		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1400		29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		37.5	170	ug/Kg
98-86-2	Acetophenone	1600		29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	1400		41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1300		47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	1500		17.6	170	ug/Kg
98-95-3	Nitrobenzene	1600		18.3	170	ug/Kg
78-59-1	Isophorone	1400		32.8	170	ug/Kg
88-75-5	2-Nitrophenol	1500		58.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1500		64.7	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		28.3	170	ug/Kg
91-20-3	Naphthalene	1500		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	610		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		25.3	170	ug/Kg
105-60-2	Caprolactam	1300		52.0	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1400		28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	1400		25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3700	E	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	1600		21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	1600		22.5	170	ug/Kg
88-74-4	2-Nitroaniline	1600		48.1	170	ug/Kg
131-11-3	Dimethylphthalate	1400		27.1	170	ug/Kg

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:	PB167779BS	SDG No.:	Q1901
Lab Sample ID:	PB167779BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050064.D	1	04/29/25 09:30	05/01/25 14:43	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1500		28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1500		33.6	170	ug/Kg
99-09-2	3-Nitroaniline	800		46.0	170	ug/Kg
83-32-9	Acenaphthene	1500		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	2800	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	3000	E	110	330	ug/Kg
132-64-9	Dibenzofuran	1500		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1500		50.0	170	ug/Kg
84-66-2	Diethylphthalate	1400		28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		26.7	170	ug/Kg
86-73-7	Fluorene	1600		25.3	170	ug/Kg
100-01-6	4-Nitroaniline	1400		64.1	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		25.3	170	ug/Kg
1912-24-9	Atrazine	1500		34.0	170	ug/Kg
87-86-5	Pentachlorophenol	3700	E	51.2	330	ug/Kg
85-01-8	Phenanthrene	1600		20.9	170	ug/Kg
120-12-7	Anthracene	1600		33.3	170	ug/Kg
86-74-8	Carbazole	1600		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1500		47.9	170	ug/Kg
206-44-0	Fluoranthene	1600		30.0	170	ug/Kg
129-00-0	Pyrene	1600		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1500		71.3	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	830		36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	1600		23.0	170	ug/Kg
218-01-9	Chrysene	1500		19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		59.1	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1400		86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		19.0	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167779BS	SDG No.:	Q1901
Lab Sample ID:	PB167779BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050064.D	1	04/29/25 09:30	05/01/25 14:43	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	1600		29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1700		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1300		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	142		30 (18) - 130 (112)	95%	SPK: 150
13127-88-3	Phenol-d6	135		30 (15) - 130 (107)	90%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.4		30 (18) - 130 (107)	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.2		30 (20) - 130 (109)	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	143		30 (10) - 130 (116)	95%	SPK: 150
1718-51-0	Terphenyl-d14	88.8		30 (10) - 130 (105)	89%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	339000	7.751			
1146-65-2	Naphthalene-d8	1130000	10.545			
15067-26-2	Acenaphthene-d10	665000	14.392			
1517-22-2	Phenanthrene-d10	1230000	17.139			
1719-03-5	Chrysene-d12	1220000	21.38			
1520-96-3	Perylene-d12	1100000	24.374			

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: **BF142252.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:	PB167798BS	SDG No.:	Q1901
Lab Sample ID:	PB167798BS	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
BF142252.D	1	04/30/25 08:35	05/01/25 11:13	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	25.4		3.90	10.0	ug/L
108-95-2	Phenol	41.2		0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	40.9		0.81	5.00	ug/L
95-57-8	2-Chlorophenol	42.6		0.58	5.00	ug/L
95-48-7	2-Methylphenol	41.9		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	41.6		1.30	5.00	ug/L
98-86-2	Acetophenone	40.1		0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	41.5		1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	40.8		1.40	2.50	ug/L
67-72-1	Hexachloroethane	42.0		0.65	5.00	ug/L
98-95-3	Nitrobenzene	44.5		0.76	5.00	ug/L
78-59-1	Isophorone	41.5		0.75	5.00	ug/L
88-75-5	2-Nitrophenol	41.8		1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	42.1		1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	41.0		0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	42.8		0.52	5.00	ug/L
91-20-3	Naphthalene	40.4		0.50	5.00	ug/L
106-47-8	4-Chloroaniline	6.60		0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	41.5		0.54	5.00	ug/L
105-60-2	Caprolactam	45.6		1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	43.3		0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	40.5		0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	88.9	E	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	43.8		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	45.4		0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	40.9		0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	40.7		0.61	5.00	ug/L
88-74-4	2-Nitroaniline	43.1		1.30	5.00	ug/L
131-11-3	Dimethylphthalate	43.0		0.61	5.00	ug/L

Raw Data: **BF142252.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:	PB167798BS	SDG No.:	Q1901
Lab Sample ID:	PB167798BS	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
BF142252.D	1	04/30/25 08:35	05/01/25 11:13	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	41.2		0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	43.8		0.92	5.00	ug/L
99-09-2	3-Nitroaniline	19.5		1.10	5.00	ug/L
83-32-9	Acenaphthene	43.9		0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	84.5	E	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	100	E	2.40	10.0	ug/L
132-64-9	Dibenzofuran	40.8		0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	48.4		1.20	5.00	ug/L
84-66-2	Diethylphthalate	43.7		0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	40.7		0.68	5.00	ug/L
86-73-7	Fluorene	41.1		0.63	5.00	ug/L
100-01-6	4-Nitroaniline	44.5		1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	44.4		2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	40.9		0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	42.0		0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	41.7		0.52	5.00	ug/L
1912-24-9	Atrazine	45.4		1.00	5.00	ug/L
87-86-5	Pentachlorophenol	93.2	E	1.60	10.0	ug/L
85-01-8	Phenanthrene	40.0		0.50	5.00	ug/L
120-12-7	Anthracene	40.9		0.61	5.00	ug/L
86-74-8	Carbazole	41.5		0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	45.2		1.20	5.00	ug/L
206-44-0	Fluoranthene	41.9		0.82	5.00	ug/L
129-00-0	Pyrene	42.9		0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	45.3		1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	11.7		0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	41.2		0.45	5.00	ug/L
218-01-9	Chrysene	43.6		0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	40.8		1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	41.0		2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	44.1		0.49	5.00	ug/L

Raw Data: **BF142252.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:	PB167798BS	SDG No.:	Q1901
Lab Sample ID:	PB167798BS	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
BF142252.D	1	04/30/25 08:35	05/01/25 11:13	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	39.7		0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	42.5		0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	42.2		0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	42.3		0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	42.0		0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	40.0		0.52	5.00	ug/L
123-91-1	1,4-Dioxane	34.0		1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	44.9		0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	111		15 (10) - 110 (139)	74%	SPK: 150
13127-88-3	Phenol-d6	113		15 (10) - 110 (134)	75%	SPK: 150
4165-60-0	Nitrobenzene-d5	78.7		30 (49) - 130 (133)	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.2		30 (52) - 130 (132)	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	131		15 (44) - 110 (137)	87%	SPK: 150
1718-51-0	Terphenyl-d14	73.5		30 (48) - 130 (125)	74%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	226000	6.91			
1146-65-2	Naphthalene-d8	889000	8.192			
15067-26-2	Acenaphthene-d10	464000	9.945			
1517-22-2	Phenanthrene-d10	801000	11.433			
1719-03-5	Chrysene-d12	447000	14.074			
1520-96-3	Perylene-d12	449000	15.563			

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167798BSD	SDG No.:	Q1901
Lab Sample ID:	PB167798BSD	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
BF142253.D	1	04/30/25 08:35	05/01/25 11:42	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	24.3		3.90	10.0	ug/L
108-95-2	Phenol	40.3		0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	40.2		0.81	5.00	ug/L
95-57-8	2-Chlorophenol	42.5		0.58	5.00	ug/L
95-48-7	2-Methylphenol	41.8		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	41.0		1.30	5.00	ug/L
98-86-2	Acetophenone	39.7		0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	41.3		1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	40.6		1.40	2.50	ug/L
67-72-1	Hexachloroethane	41.3		0.65	5.00	ug/L
98-95-3	Nitrobenzene	45.3		0.76	5.00	ug/L
78-59-1	Isophorone	41.1		0.75	5.00	ug/L
88-75-5	2-Nitrophenol	46.3		1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	42.5		1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	41.0		0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	43.3		0.52	5.00	ug/L
91-20-3	Naphthalene	39.8		0.50	5.00	ug/L
106-47-8	4-Chloroaniline	9.00		0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	41.1		0.54	5.00	ug/L
105-60-2	Caprolactam	46.4		1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	43.4		0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	40.2		0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	89.1	E	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	45.2		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	44.8		0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	40.3		0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	40.5		0.61	5.00	ug/L
88-74-4	2-Nitroaniline	45.4		1.30	5.00	ug/L
131-11-3	Dimethylphthalate	42.7		0.61	5.00	ug/L

Raw Data: **BF142253.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:	PB167798BSD	SDG No.:	Q1901
Lab Sample ID:	PB167798BSD	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
BF142253.D	1	04/30/25 08:35	05/01/25 11:42	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	40.8		0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	45.6		0.92	5.00	ug/L
99-09-2	3-Nitroaniline	22.4		1.10	5.00	ug/L
83-32-9	Acenaphthene	44.0		0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	91.6	E	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	100	E	2.40	10.0	ug/L
132-64-9	Dibenzofuran	40.7		0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	49.3		1.20	5.00	ug/L
84-66-2	Diethylphthalate	43.2		0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	41.3		0.68	5.00	ug/L
86-73-7	Fluorene	40.7		0.63	5.00	ug/L
100-01-6	4-Nitroaniline	45.3		1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.7		2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	41.3		0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	42.4		0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	42.2		0.52	5.00	ug/L
1912-24-9	Atrazine	47.1		1.00	5.00	ug/L
87-86-5	Pentachlorophenol	94.7	E	1.60	10.0	ug/L
85-01-8	Phenanthrene	40.7		0.50	5.00	ug/L
120-12-7	Anthracene	41.3		0.61	5.00	ug/L
86-74-8	Carbazole	42.1		0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	45.2		1.20	5.00	ug/L
206-44-0	Fluoranthene	41.8		0.82	5.00	ug/L
129-00-0	Pyrene	43.0		0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	45.7		1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	14.2		0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	41.3		0.45	5.00	ug/L
218-01-9	Chrysene	43.0		0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	40.6		1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	41.5		2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	39.3		0.49	5.00	ug/L

Raw Data: **BF142253.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:	PB167798BSD	SDG No.:	Q1901
Lab Sample ID:	PB167798BSD	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
BF142253.D	1	04/30/25 08:35	05/01/25 11:42	PB167798

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	44.5		0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	42.6		0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	42.8		0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	43.0		0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	43.1		0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	39.5		0.52	5.00	ug/L
123-91-1	1,4-Dioxane	33.5		1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	46.2		0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	108		15 (10) - 110 (139)	72%	SPK: 150
13127-88-3	Phenol-d6	110		15 (10) - 110 (134)	74%	SPK: 150
4165-60-0	Nitrobenzene-d5	80.3		30 (49) - 130 (133)	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.2		30 (52) - 130 (132)	68%	SPK: 100
118-79-6	2,4,6-Tribromophenol	130		15 (44) - 110 (137)	87%	SPK: 150
1718-51-0	Terphenyl-d14	73.8		30 (48) - 130 (125)	74%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	229000	6.91			
1146-65-2	Naphthalene-d8	896000	8.192			
15067-26-2	Acenaphthene-d10	472000	9.945			
1517-22-2	Phenanthrene-d10	796000	11.433			
1719-03-5	Chrysene-d12	445000	14.074			
1520-96-3	Perylene-d12	442000	15.563			

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

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

Raw Data: **BF142269.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:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MS	SDG No.:	Q1901
Lab Sample ID:	Q1901-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142269.D	1	04/29/25 09:30	05/01/25 19:24	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1100		190	400	ug/Kg
108-95-2	Phenol	1800		26.7	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1800		29.3	210	ug/Kg
95-57-8	2-Chlorophenol	1800		29.5	210	ug/Kg
95-48-7	2-Methylphenol	1700		36.1	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1800		45.3	210	ug/Kg
98-86-2	Acetophenone	1800		35.6	210	ug/Kg
65794-96-9	3+4-Methylphenols	1700		49.6	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1700		57.2	96.6	ug/Kg
67-72-1	Hexachloroethane	1900		21.3	210	ug/Kg
98-95-3	Nitrobenzene	2100		22.1	210	ug/Kg
78-59-1	Isophorone	1800		39.6	210	ug/Kg
88-75-5	2-Nitrophenol	2200		70.3	210	ug/Kg
105-67-9	2,4-Dimethylphenol	1800		78.2	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1800		37.2	210	ug/Kg
120-83-2	2,4-Dichlorophenol	1800		34.2	210	ug/Kg
91-20-3	Naphthalene	1800		27.4	210	ug/Kg
106-47-8	4-Chloroaniline	420		42.7	210	ug/Kg
87-68-3	Hexachlorobutadiene	1900		30.5	210	ug/Kg
105-60-2	Caprolactam	1700		62.9	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1700		34.7	210	ug/Kg
91-57-6	2-Methylnaphthalene	1700		30.9	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4000	E	140	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2100		23.9	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1900		35.1	210	ug/Kg
92-52-4	1,1-Biphenyl	1900		26.3	210	ug/Kg
91-58-7	2-Chloronaphthalene	1900		27.2	210	ug/Kg
88-74-4	2-Nitroaniline	1900		58.1	210	ug/Kg
131-11-3	Dimethylphthalate	1900		32.7	210	ug/Kg

Raw Data: **BF142269.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:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MS	SDG No.:	Q1901
Lab Sample ID:	Q1901-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142269.D	1	04/29/25 09:30	05/01/25 19:24	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		34.9	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	2000		40.6	210	ug/Kg
99-09-2	3-Nitroaniline	1000		55.5	210	ug/Kg
83-32-9	Acenaphthene	1900		25.7	210	ug/Kg
51-28-5	2,4-Dinitrophenol	3300	E	280	400	ug/Kg
100-02-7	4-Nitrophenol	3700	E	130	400	ug/Kg
132-64-9	Dibenzofuran	1800		27.4	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		60.5	210	ug/Kg
84-66-2	Diethylphthalate	1800		34.2	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1800		32.2	210	ug/Kg
86-73-7	Fluorene	1700		30.5	210	ug/Kg
100-01-6	4-Nitroaniline	1600		77.5	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2100		120	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2100		39.7	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2100		33.6	210	ug/Kg
118-74-1	Hexachlorobenzene	2000		30.5	210	ug/Kg
1912-24-9	Atrazine	2200		41.1	210	ug/Kg
87-86-5	Pentachlorophenol	4100	E	61.9	400	ug/Kg
85-01-8	Phenanthrene	2000		25.2	210	ug/Kg
120-12-7	Anthracene	1900		40.2	210	ug/Kg
86-74-8	Carbazole	1800		37.7	210	ug/Kg
84-74-2	Di-n-butylphthalate	2300		57.8	210	ug/Kg
206-44-0	Fluoranthene	2000		36.2	210	ug/Kg
129-00-0	Pyrene	1400		43.5	210	ug/Kg
85-68-7	Butylbenzylphthalate	2100		86.2	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1300		44.3	400	ug/Kg
56-55-3	Benzo(a)anthracene	1900		27.8	210	ug/Kg
218-01-9	Chrysene	1900		24.0	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2100		71.5	210	ug/Kg
117-84-0	Di-n-octyl phthalate	2200		100	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	2000		22.9	210	ug/Kg

Raw Data: **BF142269.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:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MS	SDG No.:	Q1901
Lab Sample ID:	Q1901-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142269.D	1	04/29/25 09:30	05/01/25 19:24	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1900		27.0	210	ug/Kg
50-32-8	Benzo(a)pyrene	1900		35.6	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1400		35.1	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1400		33.1	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300		31.0	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2000		30.9	210	ug/Kg
123-91-1	1,4-Dioxane	1600		54.6	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		33.1	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	87.3		30 (18) - 130 (112)	58%	SPK: 150
13127-88-3	Phenol-d6	90.2		30 (15) - 130 (107)	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	68.1		30 (18) - 130 (107)	68%	SPK: 100
321-60-8	2-Fluorobiphenyl	63.1		30 (20) - 130 (109)	63%	SPK: 100
118-79-6	2,4,6-Tribromophenol	90.8		30 (10) - 130 (116)	61%	SPK: 150
1718-51-0	Terphenyl-d14	43.9		30 (10) - 130 (105)	44%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	208000	6.91			
1146-65-2	Naphthalene-d8	777000	8.192			
15067-26-2	Acenaphthene-d10	360000	9.945			
1517-22-2	Phenanthrene-d10	495000	11.427			
1719-03-5	Chrysene-d12	428000	14.074			
1520-96-3	Perylene-d12	473000	15.562			

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: **BF142270.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:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MSD	SDG No.:	Q1901
Lab Sample ID:	Q1901-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
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
BF142270.D	1	04/29/25 09:30	05/01/25 19:52	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1100		190	400	ug/Kg
108-95-2	Phenol	1700		26.7	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		29.4	210	ug/Kg
95-57-8	2-Chlorophenol	1800		29.5	210	ug/Kg
95-48-7	2-Methylphenol	1700		36.1	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1800		45.3	210	ug/Kg
98-86-2	Acetophenone	1700		35.6	210	ug/Kg
65794-96-9	3+4-Methylphenols	1700		49.7	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1700		57.3	96.7	ug/Kg
67-72-1	Hexachloroethane	1800		21.3	210	ug/Kg
98-95-3	Nitrobenzene	2000		22.1	210	ug/Kg
78-59-1	Isophorone	1700		39.6	210	ug/Kg
88-75-5	2-Nitrophenol	2200		70.3	210	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		78.3	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1800		37.2	210	ug/Kg
120-83-2	2,4-Dichlorophenol	1800		34.2	210	ug/Kg
91-20-3	Naphthalene	1700		27.4	210	ug/Kg
106-47-8	4-Chloroaniline	480		42.8	210	ug/Kg
87-68-3	Hexachlorobutadiene	1900		30.6	210	ug/Kg
105-60-2	Caprolactam	1600		62.9	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		34.7	210	ug/Kg
91-57-6	2-Methylnaphthalene	1700		30.9	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4000	E	140	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2000		23.9	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1900		35.2	210	ug/Kg
92-52-4	1,1-Biphenyl	1900		26.3	210	ug/Kg
91-58-7	2-Chloronaphthalene	1800		27.2	210	ug/Kg
88-74-4	2-Nitroaniline	1900		58.1	210	ug/Kg
131-11-3	Dimethylphthalate	1800		32.7	210	ug/Kg

Raw Data: **BF142270.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:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MSD	SDG No.:	Q1901
Lab Sample ID:	Q1901-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
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
BF142270.D	1	04/29/25 09:30	05/01/25 19:52	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		34.9	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		40.6	210	ug/Kg
99-09-2	3-Nitroaniline	1000		55.6	210	ug/Kg
83-32-9	Acenaphthene	1900		25.7	210	ug/Kg
51-28-5	2,4-Dinitrophenol	3400	E	280	400	ug/Kg
100-02-7	4-Nitrophenol	3600	E	130	400	ug/Kg
132-64-9	Dibenzofuran	1700		27.4	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		60.5	210	ug/Kg
84-66-2	Diethylphthalate	1800		34.2	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1700		32.3	210	ug/Kg
86-73-7	Fluorene	1700		30.6	210	ug/Kg
100-01-6	4-Nitroaniline	1600		77.6	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2100		120	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1900		39.8	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2000		33.6	210	ug/Kg
118-74-1	Hexachlorobenzene	1900		30.6	210	ug/Kg
1912-24-9	Atrazine	2100		41.1	210	ug/Kg
87-86-5	Pentachlorophenol	3900	E	62.0	400	ug/Kg
85-01-8	Phenanthrene	1900		25.3	210	ug/Kg
120-12-7	Anthracene	1800		40.2	210	ug/Kg
86-74-8	Carbazole	1700		37.7	210	ug/Kg
84-74-2	Di-n-butylphthalate	2200		57.9	210	ug/Kg
206-44-0	Fluoranthene	1900		36.2	210	ug/Kg
129-00-0	Pyrene	1400		43.5	210	ug/Kg
85-68-7	Butylbenzylphthalate	2000		86.3	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1400		44.3	400	ug/Kg
56-55-3	Benzo(a)anthracene	1800		27.8	210	ug/Kg
218-01-9	Chrysene	1800		24.0	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2100		71.5	210	ug/Kg
117-84-0	Di-n-octyl phthalate	2100		100	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	2000		23.0	210	ug/Kg

Raw Data: **BF142270.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/26/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/28/25
Client Sample ID:	B-167-SB01MSD	SDG No.:	Q1901
Lab Sample ID:	Q1901-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.6
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
BF142270.D	1	04/29/25 09:30	05/01/25 19:52	PB167779

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1800		27.1	210	ug/Kg
50-32-8	Benzo(a)pyrene	1900		35.6	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1300		35.2	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1300		33.1	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1200		31.1	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1900		30.9	210	ug/Kg
123-91-1	1,4-Dioxane	1500		54.6	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		33.1	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	85.7		30 (18) - 130 (112)	57%	SPK: 150
13127-88-3	Phenol-d6	87.2		30 (15) - 130 (107)	58%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.9		30 (18) - 130 (107)	67%	SPK: 100
321-60-8	2-Fluorobiphenyl	61.8		30 (20) - 130 (109)	62%	SPK: 100
118-79-6	2,4,6-Tribromophenol	89.2		30 (10) - 130 (116)	59%	SPK: 150
1718-51-0	Terphenyl-d14	42.1		30 (10) - 130 (105)	42%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	205000	6.91			
1146-65-2	Naphthalene-d8	762000	8.187			
15067-26-2	Acenaphthene-d10	352000	9.945			
1517-22-2	Phenanthrene-d10	496000	11.428			
1719-03-5	Chrysene-d12	430000	14.069			
1520-96-3	Perylene-d12	473000	15.557			

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

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

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF043025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Apr 30 16:00:01 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF142239.D 5 =BF142240.D 10 =BF142241.D 20 =BF142242.D 40 =BF142243.D 50 =BF142244.D 60 =BF142245.D 80 =BF1422
46.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.563	0.534	0.561	0.592	0.580	0.555	0.530	0.559	4.03
3)		Pyridine		1.465	1.391	1.454	1.522	1.503	1.460	1.380	1.454	3.62
4)		n-Nitrosodimet...		0.747	0.699	0.728	0.807	0.789	0.766	0.731	0.752	4.95
5)	S	2-Fluorophenol		1.324	1.238	1.265	1.314	1.285	1.210	1.131	1.252	5.35
6)		Aniline		2.212	2.085	2.157	2.245	2.203	2.101	1.981	2.140	4.29
7)	S	Phenol-d6		1.559	1.505	1.534	1.593	1.550	1.475	1.370	1.512	4.85
8)		2-Chlorophenol		1.252	1.232	1.304	1.379	1.354	1.313	1.225	1.294	4.64
9)		Benzaldehyde		1.154	1.088	1.095	1.117	1.078	0.993	0.875	1.057	8.91
10)	C	Phenol		1.679	1.588	1.657	1.715	1.687	1.603	1.468	1.628	5.15
11)		bis(2-Chloroet...		1.345	1.250	1.270	1.318	1.285	1.231	1.132	1.262	5.46
12)		1,3-Dichlorobe...		1.571	1.485	1.485	1.533	1.478	1.396	1.299	1.464	6.18
13)	C	1,4-Dichlorobe...		1.610	1.486	1.495	1.546	1.488	1.404	1.295	1.475	6.86
14)		1,2-Dichlorobe...		1.489	1.418	1.431	1.475	1.432	1.356	1.255	1.408	5.67
15)		Benzyl Alcohol		1.047	1.017	1.064	1.149	1.126	1.082	1.023	1.073	4.69
16)		2,2'-oxybis(1-...		2.368	2.287	2.303	2.386	2.344	2.216	2.043	2.278	5.19
17)		2-Methylphenol		1.085	1.029	1.068	1.121	1.084	1.050	0.983	1.060	4.19
18)		Hexachloroethane		0.468	0.466	0.481	0.511	0.514	0.489	0.451	0.483	4.84
19)	P	n-Nitroso-di-n...	0.953	0.987	0.937	0.949	0.967	0.939	0.898	0.844	0.934	4.77
20)		3+4-Methylphenols		1.357	1.323	1.372	1.400	1.366	1.296	1.166	1.326	5.90
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.511	0.482	0.483	0.468	0.461	0.430	0.404	0.463	7.70
23)	S	Nitrobenzene-d5		0.217	0.251	0.302	0.340	0.351	0.339	0.330	0.304	16.88
24)		Nitrobenzene		0.229	0.261	0.297	0.328	0.338	0.323	0.314	0.299	13.31
25)		Isophorone		0.660	0.630	0.642	0.660	0.654	0.626	0.601	0.639	3.36
26)	C	2-Nitrophenol		0.048	0.057	0.083	0.115	0.132	0.136	0.142	0.102	38.38#
27)		2,4-Dimethylph...		0.315	0.319	0.333	0.337	0.333	0.315	0.302	0.322	3.96
28)		bis(2-Chloroet...		0.425	0.404	0.414	0.415	0.410	0.386	0.366	0.403	4.98
29)	C	2,4-Dichloroph...		0.246	0.253	0.274	0.291	0.286	0.272	0.263	0.269	6.12
30)		1,2,4-Trichlor...		0.320	0.303	0.305	0.312	0.304	0.287	0.273	0.301	5.28
31)		Naphthalene		1.106	1.040	1.035	1.020	0.999	0.924	0.858	0.997	8.21
32)		Benzoic acid			0.048	0.087	0.130	0.146	0.159	0.179	0.125	39.24
33)		4-Chloroaniline		0.446	0.414	0.429	0.429	0.423	0.396	0.371	0.415	5.98
34)	C	Hexachlorobuta...		0.180	0.175	0.179	0.185	0.178	0.170	0.161	0.175	4.35
35)		Caprolactam		0.068	0.073	0.081	0.087	0.089	0.085	0.083	0.081	9.45
36)	C	4-Chloro-3-met...		0.262	0.265	0.279	0.295	0.293	0.276	0.266	0.277	4.84
37)		2-Methylnaphth...		0.679	0.637	0.633	0.623	0.612	0.574	0.534	0.613	7.69
38)		1-Methylnaphth...		0.700	0.655	0.667	0.652	0.641	0.590	0.542	0.635	8.29

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF043025.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.621	0.575	0.572	0.576	0.566	0.534	0.496	0.563	6.88
41)	P	Hexachlorocycl...	0.244	0.265	0.306	0.352	0.368	0.358	0.343	0.319	15.23
42)	S	2,4,6-Tribromo...	0.139	0.158	0.184	0.204	0.205	0.197	0.190	0.182	13.73
43)	C	2,4,6-Trichlor...	0.275	0.329	0.353	0.370	0.375	0.381	0.357	0.349	10.50
44)		2,4,5-Trichlor...	0.322	0.330	0.362	0.404	0.411	0.371	0.365	0.367	9.17
45)	S	2-Fluorobiphenyl	1.738	1.580	1.520	1.409	1.347	1.221	1.114	1.418	15.11
46)		1,1'-Biphenyl	1.773	1.621	1.612	1.581	1.547	1.435	1.316	1.555	9.38
47)		2-Chloronaphth...	1.289	1.176	1.191	1.185	1.157	1.085	1.014	1.157	7.51
48)		2-Nitroaniline	0.119	0.156	0.228	0.295	0.316	0.315	0.316	0.249	33.25
49)		Acenaphthylene	2.149	2.025	2.025	1.997	1.965	1.828	1.675	1.952	7.93
50)		Dimethylphthalate	1.362	1.284	1.301	1.321	1.309	1.227	1.152	1.280	5.42
51)		2,6-Dinitrotol...	0.098	0.137	0.193	0.241	0.259	0.254	0.249	0.204	31.45
52)	C	Acenaphthene	1.271	1.175	1.156	1.172	1.138	1.072	0.995	1.140	7.63
53)		3-Nitroaniline	0.143	0.187	0.252	0.298	0.311	0.310	0.299	0.257	26.09
54)	P	2,4-Dinitrophenol		0.025	0.036	0.057	0.069	0.076	0.085	0.058	40.36
55)		Dibenzofuran	1.930	1.775	1.751	1.743	1.713	1.581	1.466	1.709	8.67
56)	P	4-Nitrophenol		0.131	0.177	0.216	0.233	0.230	0.220	0.201	19.82
57)		2,4-Dinitrotol...	0.104	0.145	0.213	0.285	0.311	0.309	0.306	0.239	35.96
58)		Fluorene	1.493	1.403	1.351	1.317	1.273	1.186	1.071	1.299	10.74
59)		2,3,4,6-Tetrac...	0.252	0.267	0.312	0.334	0.334	0.323	0.305	0.304	10.65
60)		Diethylphthalate	1.324	1.264	1.302	1.313	1.300	1.215	1.126	1.263	5.61
61)		4-Chlorophenyl...	0.702	0.642	0.632	0.632	0.614	0.570	0.526	0.617	9.06
62)		4-Nitroaniline	0.144	0.177	0.233	0.272	0.287	0.281	0.269	0.238	23.57
63)		Azobenzene	1.346	1.260	1.275	1.279	1.278	1.198	1.098	1.248	6.33
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.022	0.034	0.055	0.065	0.071	0.075	0.054	39.23
66)	c	n-Nitrosodiphe...	0.727	0.686	0.693	0.712	0.689	0.653	0.623	0.683	5.11
67)		4-Bromophenyl-...	0.224	0.219	0.223	0.236	0.225	0.220	0.211	0.223	3.39
68)		Hexachlorobenzene	0.256	0.245	0.248	0.261	0.255	0.244	0.237	0.249	3.28
69)		Atrazine	0.166	0.172	0.186	0.190	0.190	0.182	0.174	0.180	5.29
70)	C	Pentachlorophenol		0.093	0.121	0.144	0.145	0.144	0.144	0.132	16.25
71)		Phenanthrene	1.218	1.114	1.119	1.112	1.064	0.995	0.940	1.080	8.45
72)		Anthracene	1.209	1.161	1.151	1.128	1.099	1.025	0.959	1.105	7.77
73)		Carbazole	1.125	1.047	1.061	1.033	0.996	0.935	0.857	1.008	8.77
74)		Di-n-butylphth...	0.986	1.006	1.088	1.069	1.045	0.988	0.912	1.013	5.88
75)	C	Fluoranthene	1.221	1.144	1.155	1.085	1.035	0.957	0.878	1.068	11.24
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.702	0.748	0.885	0.963	0.945	0.895	0.810	0.850	11.67
78)		Pyrene	1.833	1.801	1.849	2.026	1.937	1.833	1.635	1.845	6.54
79)	S	Terphenyl-d14	1.472	1.413	1.422	1.481	1.392	1.290	1.155	1.375	8.41
80)		Butylbenzylpht...	0.218	0.293	0.405	0.505	0.525	0.524	0.509	0.425	29.32
81)		Benzo(a)anthra...	1.379	1.320	1.332	1.438	1.388	1.316	1.225	1.343	5.06
82)		3,3'-Dichlorob...	0.286	0.317	0.380	0.442	0.450	0.451	0.435	0.394	17.37
83)		Chrysene	1.302	1.210	1.249	1.232	1.227	1.197	1.138	1.222	4.12
84)		Bis(2-ethylhex...	0.384	0.448	0.549	0.695	0.726	0.722	0.707	0.604	23.69
85)	c	Di-n-octyl pht...		0.668	0.875	1.262	1.320	1.347	1.329	1.133	25.55

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF043025.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.323	1.384	1.466	1.613	1.556	1.490	1.422	1.465	6.78
88)		Benzo(b)fluora...	1.317	1.220	1.208	1.302	1.271	1.177	1.202	1.242	4.36
89)		Benzo(k)fluora...	1.211	1.159	1.222	1.145	1.146	1.110	0.962	1.136	7.59
90)	C	Benzo(a)pyrene	1.121	1.098	1.146	1.203	1.180	1.137	1.076	1.137	3.91
91)		Dibenzo(a,h)an...	1.075	1.131	1.197	1.312	1.271	1.192	1.144	1.189	6.90
92)		Benzo(g,h,i)pe...	1.076	1.138	1.204	1.308	1.267	1.213	1.162	1.195	6.55

(#) = Out of Range

Response Factor Report BNA_M

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM042825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Apr 28 18:09:16 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BM050024.D 5 =BM050025.D 10 =BM050026.D 20 =BM050027.D 40 =BM050028.D 50 =BM050029.D 60 =BM050030.D 80 =BM0500
31.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.506	0.464	0.478	0.511	0.504	0.491	0.473	0.490	3.75
3)		Pyridine		1.201	1.166	1.229	1.331	1.328	1.292	1.261	1.258	5.03
4)		n-Nitrosodimet...		0.487	0.459	0.475	0.522	0.518	0.504	0.490	0.493	4.62
5)	S	2-Fluorophenol		1.074	1.079	1.107	1.208	1.211	1.173	1.142	1.142	5.04
6)		Aniline		1.657	1.689	1.768	1.942	1.922	1.875	1.835	1.813	6.16
7)	S	Phenol-d6		1.290	1.318	1.398	1.543	1.537	1.494	1.469	1.436	7.13
8)		2-Chlorophenol		1.169	1.161	1.198	1.312	1.301	1.268	1.235	1.235	4.96
9)		Benzaldehyde		0.940	0.920	0.971	1.031	1.013	0.956	0.894	0.961	5.08
10)	C	Phenol		1.349	1.344	1.420	1.539	1.537	1.501	1.483	1.453	5.73
11)		bis(2-Chloroet...		1.213	1.105	1.176	1.279	1.271	1.233	1.218	1.213	4.90
12)		1,3-Dichlorobe...		1.483	1.428	1.453	1.566	1.552	1.508	1.453	1.492	3.51
13)	C	1,4-Dichlorobe...		1.518	1.418	1.463	1.561	1.557	1.516	1.458	1.499	3.60
14)		1,2-Dichlorobe...		1.420	1.393	1.423	1.522	1.506	1.464	1.405	1.448	3.50
15)		Benzyl Alcohol		0.866	0.881	0.966	1.080	1.074	1.050	1.050	0.996	9.16
16)		2,2'-oxybis(1-...		1.487	1.422	1.445	1.552	1.513	1.473	1.433	1.475	3.17
17)		2-Methylphenol		0.857	0.893	0.931	1.033	1.026	0.988	0.975	0.957	6.96
18)		Hexachloroethane		0.552	0.508	0.521	0.556	0.548	0.533	0.510	0.533	3.79
19)	P	n-Nitroso-di-n...	0.802	0.889	0.885	0.921	1.003	0.988	0.949	0.928	0.921	6.95
20)		3+4-Methylphenols		1.137	1.170	1.267	1.393	1.392	1.349	1.341	1.293	8.09
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.483	0.464	0.485	0.531	0.525	0.506	0.487	0.497	4.94
23)	S	Nitrobenzene-d5		0.386	0.374	0.397	0.434	0.433	0.417	0.400	0.406	5.68
24)		Nitrobenzene		0.337	0.325	0.345	0.374	0.372	0.358	0.346	0.351	5.16
25)		Isophorone		0.666	0.648	0.680	0.729	0.729	0.704	0.687	0.692	4.44
26)	C	2-Nitrophenol		0.148	0.157	0.172	0.196	0.198	0.192	0.191	0.179	11.33
27)		2,4-Dimethylph...		0.263	0.266	0.289	0.324	0.322	0.312	0.305	0.297	8.42
28)		bis(2-Chloroet...		0.407	0.399	0.422	0.455	0.452	0.434	0.425	0.428	4.92
29)	C	2,4-Dichloroph...		0.294	0.298	0.326	0.362	0.359	0.351	0.342	0.333	8.47
30)		1,2,4-Trichlor...		0.400	0.384	0.394	0.427	0.426	0.412	0.399	0.406	4.02
31)		Naphthalene		1.001	0.959	0.993	1.066	1.057	1.023	0.989	1.013	3.80
32)		Benzoic acid			0.138	0.172	0.197	0.206	0.212	0.215	0.190	15.67
33)		4-Chloroaniline		0.361	0.393	0.404	0.441	0.448	0.437	0.423	0.415	7.51
34)	C	Hexachlorobuta...		0.253	0.240	0.249	0.270	0.270	0.263	0.258	0.258	4.34
35)		Caprolactam		0.090	0.085	0.095	0.104	0.104	0.102	0.100	0.097	7.73
36)	C	4-Chloro-3-met...		0.289	0.283	0.302	0.325	0.329	0.317	0.309	0.308	5.72
37)		2-Methylnaphth...		0.656	0.639	0.662	0.713	0.714	0.692	0.678	0.679	4.22
38)		1-Methylnaphth...		0.703	0.675	0.708	0.753	0.751	0.731	0.710	0.719	3.92

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM042825.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.624	0.622	0.655	0.742	0.745	0.725	0.733	0.692	8.17
41)	P	Hexachlorocycl...		0.303	0.362	0.455	0.468	0.467	0.483	0.423	17.30
42)	S	2,4,6-Tribromo...	0.253	0.249	0.281	0.318	0.329	0.318	0.323	0.296	11.61
43)	C	2,4,6-Trichlor...	0.372	0.381	0.423	0.476	0.485	0.467	0.469	0.439	10.76
44)		2,4,5-Trichlor...	0.410	0.417	0.453	0.517	0.519	0.501	0.497	0.474	9.83
45)	S	2-Fluorobiphenyl	1.588	1.555	1.632	1.807	1.822	1.744	1.688	1.691	6.21
46)		1,1'-Biphenyl	1.427	1.395	1.452	1.573	1.581	1.507	1.473	1.487	4.77
47)		2-Chloronaphth...	1.126	1.112	1.155	1.250	1.248	1.192	1.158	1.177	4.69
48)		2-Nitroaniline	0.238	0.242	0.269	0.302	0.304	0.294	0.286	0.276	9.96
49)		Acenaphthylene	1.794	1.715	1.810	1.972	1.971	1.889	1.845	1.857	5.10
50)		Dimethylphthalate	1.444	1.377	1.437	1.532	1.543	1.470	1.429	1.462	4.02
51)		2,6-Dinitrotol...	0.266	0.271	0.299	0.327	0.331	0.316	0.309	0.303	8.50
52)	C	Acenaphthene	1.038	0.998	1.046	1.133	1.145	1.094	1.067	1.075	4.93
53)		3-Nitroaniline	0.233	0.247	0.284	0.321	0.325	0.311	0.302	0.289	12.47
54)	P	2,4-Dinitrophenol		0.100	0.132	0.178	0.194	0.188	0.191	0.164	23.65
55)		Dibenzofuran	1.749	1.681	1.749	1.876	1.888	1.810	1.763	1.788	4.17
56)	P	4-Nitrophenol		0.128	0.180	0.224	0.237	0.231	0.231	0.205	20.96
57)		2,4-Dinitrotol...	0.338	0.366	0.412	0.456	0.468	0.447	0.440	0.418	11.72
58)		Fluorene	1.387	1.343	1.431	1.558	1.573	1.500	1.453	1.463	5.84
59)		2,3,4,6-Tetrac...	0.366	0.362	0.398	0.435	0.445	0.432	0.431	0.410	8.44
60)		Diethylphthalate	1.372	1.301	1.380	1.433	1.451	1.376	1.328	1.377	3.86
61)		4-Chlorophenyl...	0.741	0.716	0.770	0.857	0.871	0.836	0.836	0.804	7.58
62)		4-Nitroaniline	0.208	0.234	0.277	0.313	0.321	0.301	0.295	0.279	15.17
63)		Azobenzene	1.118	1.091	1.150	1.216	1.229	1.165	1.110	1.154	4.59
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.088	0.110	0.135	0.142	0.138	0.137	0.125	17.16
66)	c	n-Nitrosodiphe...	0.580	0.572	0.596	0.655	0.657	0.629	0.610	0.614	5.56
67)		4-Bromophenyl-...	0.223	0.216	0.229	0.258	0.258	0.256	0.253	0.242	7.60
68)		Hexachlorobenzene	0.265	0.251	0.264	0.294	0.295	0.291	0.291	0.279	6.49
69)		Atrazine	0.196	0.198	0.214	0.236	0.242	0.234	0.230	0.222	8.47
70)	C	Pentachlorophenol		0.117	0.141	0.167	0.172	0.170	0.174	0.157	14.52
71)		Phenanthrene	1.075	1.035	1.083	1.187	1.212	1.173	1.132	1.128	5.84
72)		Anthracene	1.062	1.038	1.096	1.214	1.236	1.191	1.154	1.142	6.78
73)		Carbazole	0.909	0.900	0.960	1.054	1.075	1.038	0.999	0.991	7.05
74)		Di-n-butylphth...	1.106	1.082	1.151	1.246	1.277	1.231	1.165	1.180	6.25
75)	C	Fluoranthene	1.178	1.142	1.250	1.410	1.455	1.425	1.411	1.324	9.86
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.560	0.646	0.772	0.769	0.765	0.751	0.710	12.36
78)		Pyrene	1.290	1.255	1.332	1.518	1.520	1.465	1.453	1.404	7.83
79)	S	Terphenyl-d14	1.176	1.189	1.332	1.524	1.541	1.458	1.239	1.352	11.58
80)		Butylbenzylpht...	0.489	0.479	0.515	0.562	0.568	0.545	0.524	0.526	6.53
81)		Benzo(a)anthra...	1.280	1.231	1.321	1.478	1.479	1.442	1.408	1.377	7.24
82)		3,3'-Dichlorob...	0.434	0.432	0.483	0.580	0.597	0.583	0.581	0.527	14.14
83)		Chrysene	1.208	1.170	1.214	1.342	1.369	1.325	1.296	1.275	6.03
84)		Bis(2-ethylhex...	0.726	0.725	0.775	0.843	0.852	0.814	0.765	0.786	6.61
85)	c	Di-n-octyl pht...	1.221	1.197	1.267	1.366	1.404	1.341	1.275	1.296	5.92

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM042825.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.301	1.293	1.404	1.602	1.646	1.591	1.595	1.490	10.27
88)		Benzo(b)fluora...	1.128	1.149	1.209	1.406	1.415	1.408	1.390	1.301	10.16
89)		Benzo(k)fluora...	1.219	1.150	1.251	1.387	1.449	1.383	1.372	1.316	8.29
90)	C	Benzo(a)pyrene	1.094	1.066	1.147	1.295	1.330	1.298	1.297	1.218	9.15
91)		Dibenzo(a,h)an...	1.056	1.044	1.142	1.300	1.347	1.305	1.310	1.215	10.72
92)		Benzo(g,h,i)pe...	1.066	1.030	1.105	1.236	1.268	1.224	1.212	1.163	8.07

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: BNA_F Calibration Date/Time: 05/01/2025 10:17

Lab File ID: BF142250.D Init. Calib. Date(s): 04/30/2025 04/30/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:24 14:43

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.252	1.250		-0.2	
Benzaldehyde	1.057	1.122		6.1	
Phenol-d6	1.512	1.575		4.2	
Phenol	1.628	1.656		1.7	20.0
bis(2-Chloroethyl)ether	1.262	1.326		5.1	
2-Chlorophenol	1.294	1.275		-1.5	
2-Methylphenol	1.060	1.103		4.1	
2,2-oxybis(1-Chloropropane)	2.278	2.385		4.7	
Acetophenone	0.463	0.480		3.7	
3+4-Methylphenols	1.326	1.404		5.9	
n-Nitroso-di-n-propylamine	0.934	0.954	0.050	2.1	
Nitrobenzene-d5	0.304	0.333		9.5	
Hexachloroethane	0.483	0.505		4.6	
Nitrobenzene	0.299	0.320		7.0	
Isophorone	0.639	0.672		5.2	
2-Nitrophenol	0.102	0.098		-3.9	20.0
2,4-Dimethylphenol	0.322	0.337		4.7	
bis(2-Chloroethoxy)methane	0.403	0.421		4.5	
2,4-Dichlorophenol	0.269	0.285		5.9	20.0
Naphthalene	0.997	1.030		3.3	
4-Chloroaniline	0.415	0.433		4.3	
Hexachlorobutadiene	0.175	0.186		6.3	20.0
Caprolactam	0.081	0.090		11.1	
4-Chloro-3-methylphenol	0.277	0.300		8.3	20.0
2-Methylnaphthalene	0.613	0.635		3.6	
Hexachlorocyclopentadiene	0.319	0.316	0.050	-0.9	
2,4,6-Trichlorophenol	0.349	0.354		1.4	20.0
2-Fluorobiphenyl	1.418	1.409		-0.6	
2,4,5-Trichlorophenol	0.367	0.386		5.2	
1,1-Biphenyl	1.555	1.591		2.3	
2-Chloronaphthalene	1.157	1.176		1.6	
2-Nitroaniline	0.249	0.277		11.2	
Dimethylphthalate	1.280	1.346		5.2	
Acenaphthylene	1.952	1.996		2.3	
2,6-Dinitrotoluene	0.204	0.231		13.2	
3-Nitroaniline	0.257	0.296		15.2	
Acenaphthene	1.140	1.185		3.9	20.0
2,4-Dinitrophenol	0.058	0.056	0.050	-3.4	
4-Nitrophenol	0.201	0.210	0.050	4.5	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: BNA_F Calibration Date/Time: 05/01/2025 10:17

Lab File ID: BF142250.D Init. Calib. Date(s): 04/30/2025 04/30/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:24 14:43

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.709	1.772		3.7	
2,4-Dinitrotoluene	0.239	0.289		20.9	
Diethylphthalate	1.264	1.352		7.0	
4-Chlorophenyl-phenylether	0.617	0.638		3.4	
Fluorene	1.299	1.322		1.8	
4-Nitroaniline	0.238	0.283		18.9	
4,6-Dinitro-2-methylphenol	0.054	0.053		-1.9	
n-Nitrosodiphenylamine	0.683	0.706		3.4	20.0
2,4,6-Tribromophenol	0.182	0.196		7.7	
4-Bromophenyl-phenylether	0.223	0.235		5.4	
Hexachlorobenzene	0.249	0.257		3.2	
Atrazine	0.180	0.204		13.3	
Pentachlorophenol	0.132	0.137		3.8	20.0
Phenanthrene	1.080	1.116		3.3	
Anthracene	1.105	1.142		3.3	
Carbazole	1.008	1.044		3.6	
Di-n-butylphthalate	1.013	1.137		12.2	
Fluoranthene	1.068	1.147		7.4	20.0
Pyrene	1.845	1.938		5.0	
Terphenyl-d14	1.375	1.422		3.4	
Butylbenzylphthalate	0.426	0.502		17.8	
3,3-Dichlorobenzidine	0.394	0.420		6.6	
Benzo(a)anthracene	1.343	1.378		2.6	
Chrysene	1.222	1.297		6.1	
Bis(2-ethylhexyl)phthalate	0.604	0.621		2.8	
Di-n-octyl phthalate	1.133	1.018		-10.1	20.0
Benzo(b)fluoranthene	1.242	1.242		0.0	
Benzo(k)fluoranthene	1.136	1.240		9.2	
Benzo(a)pyrene	1.137	1.193		4.9	20.0
Indeno(1,2,3-cd)pyrene	1.465	1.533		4.6	
Dibenzo(a,h)anthracene	1.189	1.258		5.8	
Benzo(g,h,i)perylene	1.195	1.250		4.6	
1,2,4,5-Tetrachlorobenzene	0.563	0.572		1.6	
1,4-Dioxane	0.559	0.579		3.6	20.0
2,3,4,6-Tetrachlorophenol	0.304	0.323		6.3	

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.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: BNA_M Calibration Date/Time: 05/01/2025 13:25

Lab File ID: BM050062.D Init. Calib. Date(s): 04/28/2025 04/28/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:30 17:04

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.142	1.339		17.3	
Benzaldehyde	0.961	1.092		13.6	
Phenol-d6	1.436	1.600		11.4	
Phenol	1.453	1.604		10.4	20.0
bis(2-Chloroethyl)ether	1.214	1.300		7.1	
2-Chlorophenol	1.235	1.304		5.6	
2-Methylphenol	0.957	0.985		2.9	
2,2-oxybis(1-Chloropropane)	1.475	1.588		7.7	
Acetophenone	0.497	0.555		11.7	
3+4-Methylphenols	1.293	1.302		0.7	
n-Nitroso-di-n-propylamine	0.921	0.843	0.050	-8.5	
Nitrobenzene-d5	0.406	0.470		15.8	
Hexachloroethane	0.533	0.574		7.7	
Nitrobenzene	0.351	0.401		14.2	
Isophorone	0.692	0.722		4.3	
2-Nitrophenol	0.179	0.198		10.6	20.0
2,4-Dimethylphenol	0.297	0.317		6.7	
bis(2-Chloroethoxy)methane	0.428	0.455		6.3	
2,4-Dichlorophenol	0.333	0.356		6.9	20.0
Naphthalene	1.013	1.086		7.2	
4-Chloroaniline	0.415	0.426		2.7	
Hexachlorobutadiene	0.258	0.279		8.1	20.0
Caprolactam	0.097	0.089		-8.2	
4-Chloro-3-methylphenol	0.308	0.303		-1.6	20.0
2-Methylnaphthalene	0.679	0.698		2.8	
Hexachlorocyclopentadiene	0.423	0.472	0.050	11.6	
2,4,6-Trichlorophenol	0.439	0.496		13.0	20.0
2-Fluorobiphenyl	1.691	1.996		18.0	
2,4,5-Trichlorophenol	0.474	0.528		11.4	
1,1-Biphenyl	1.487	1.674		12.6	
2-Chloronaphthalene	1.177	1.322		12.3	
2-Nitroaniline	0.276	0.322		16.7	
Dimethylphthalate	1.462	1.494		2.2	
Acenaphthylene	1.857	2.021		8.8	
2,6-Dinitrotoluene	0.303	0.319		5.3	
3-Nitroaniline	0.289	0.307		6.2	
Acenaphthene	1.075	1.173		9.1	20.0
2,4-Dinitrophenol	0.164	0.161	0.050	-1.8	
4-Nitrophenol	0.205	0.222	0.050	8.3	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: BNA_M Calibration Date/Time: 05/01/2025 13:25

Lab File ID: BM050062.D Init. Calib. Date(s): 04/28/2025 04/28/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:30 17:04

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.788	1.919		7.3	
2,4-Dinitrotoluene	0.418	0.439		5.0	
Diethylphthalate	1.377	1.398		1.5	
4-Chlorophenyl-phenylether	0.804	0.881		9.6	
Fluorene	1.463	1.622		10.9	
4-Nitroaniline	0.279	0.296		6.1	
4,6-Dinitro-2-methylphenol	0.125	0.131		4.8	
n-Nitrosodiphenylamine	0.614	0.682		11.1	20.0
2,4,6-Tribromophenol	0.296	0.313		5.7	
4-Bromophenyl-phenylether	0.242	0.264		9.1	
Hexachlorobenzene	0.279	0.305		9.3	
Atrazine	0.222	0.235		5.9	
Pentachlorophenol	0.157	0.174		10.8	20.0
Phenanthrene	1.128	1.244		10.3	
Anthracene	1.142	1.274		11.6	
Carbazole	0.991	1.075		8.5	
Di-n-butylphthalate	1.180	1.266		7.3	
Fluoranthene	1.324	1.440		8.8	20.0
Pyrene	1.404	1.537		9.5	
Terphenyl-d14	1.352	1.606		18.8	
Butylbenzylphthalate	0.526	0.549		4.4	
3,3-Dichlorobenzidine	0.527	0.551		4.6	
Benzo(a)anthracene	1.377	1.520		10.4	
Chrysene	1.275	1.371		7.5	
Bis(2-ethylhexyl)phthalate	0.786	0.824		4.8	
Di-n-octyl phthalate	1.296	1.271		-1.9	20.0
Benzo(b)fluoranthene	1.301	1.413		8.6	
Benzo(k)fluoranthene	1.316	1.460		10.9	
Benzo(a)pyrene	1.218	1.323		8.6	20.0
Indeno(1,2,3-cd)pyrene	1.490	1.620		8.7	
Dibenzo(a,h)anthracene	1.215	1.320		8.6	
Benzo(g,h,i)perylene	1.163	1.262		8.5	
1,2,4,5-Tetrachlorobenzene	0.692	0.812		17.3	
1,4-Dioxane	0.490	0.582		18.8	20.0
2,3,4,6-Tetrachlorophenol	0.410	0.429		4.6	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 02 01:07:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	204691	20.000	ng	0.00
21) Naphthalene-d8	8.187	136	764165	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	363631	20.000	ng	-0.01
64) Phenanthrene-d10	11.428	188	501735	20.000	ng	0.00
76) Chrysene-d12	14.069	240	437339	20.000	ng	0.00
86) Perylene-d12	15.557	264	454707	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	1242920	96.976	ng	0.00
7) Phenol-d6	6.522	99	1558191	100.677	ng	0.00
23) Nitrobenzene-d5	7.463	82	887702	76.318	ng	-0.01
42) 2,4,6-Tribromophenol	10.728	330	316490	95.472	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	1770634	68.656	ng	0.00
79) Terphenyl-d14	13.016	244	1430017	47.556	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.451	178	92016	3.395	ng	98
75) Fluoranthene	12.639	202	118025	4.405	ng	97
78) Pyrene	12.869	202	130978	3.247	ng	99
81) Benzo(a)anthracene	14.057	228	69181	2.356	ng	97
84) Bis(2-ethylhexyl)phtha...	14.051	149	9843	4.052	ng	97
88) Benzo(b)fluoranthene	15.116	252	68147m	2.413	ng	

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

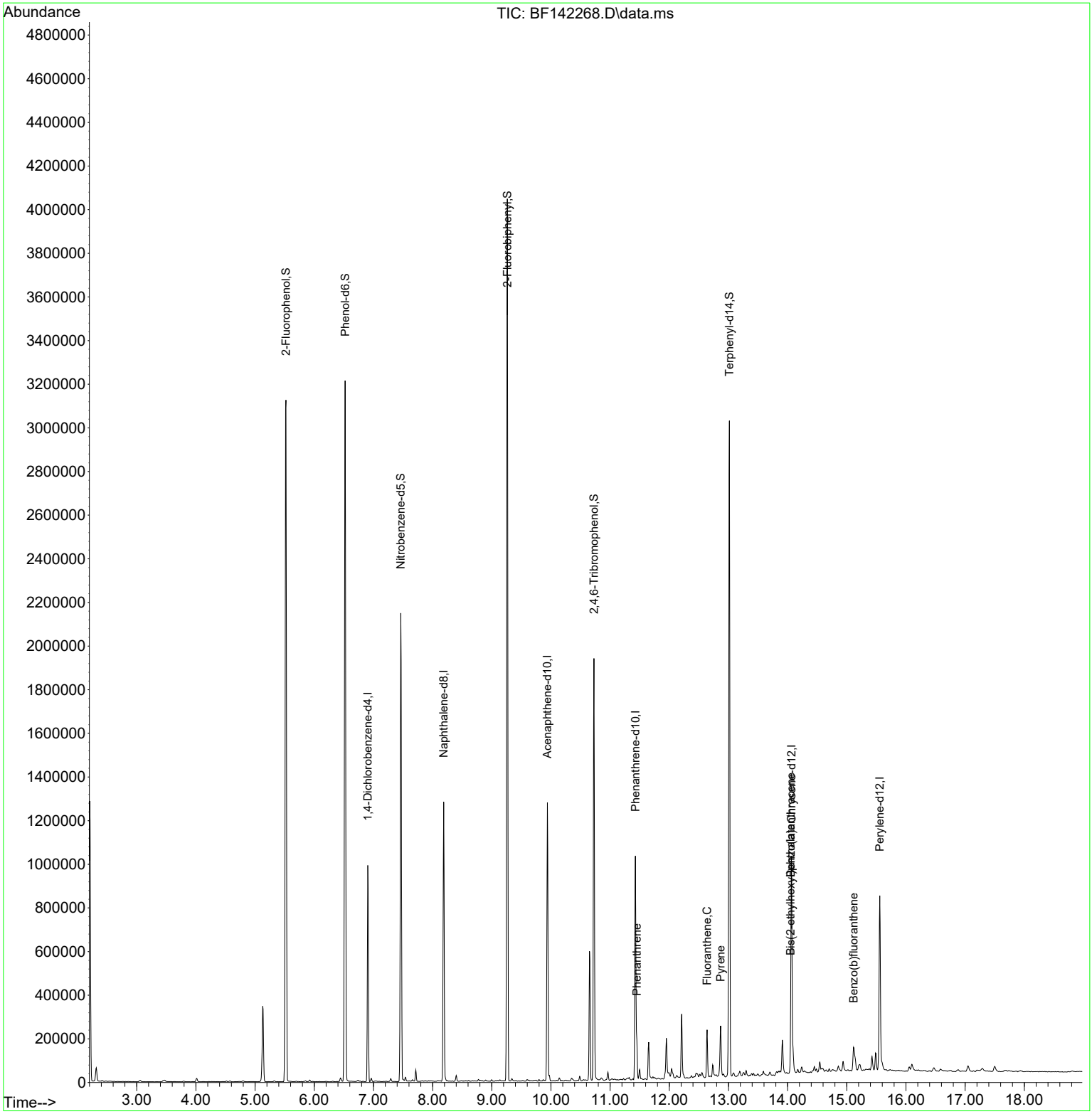
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

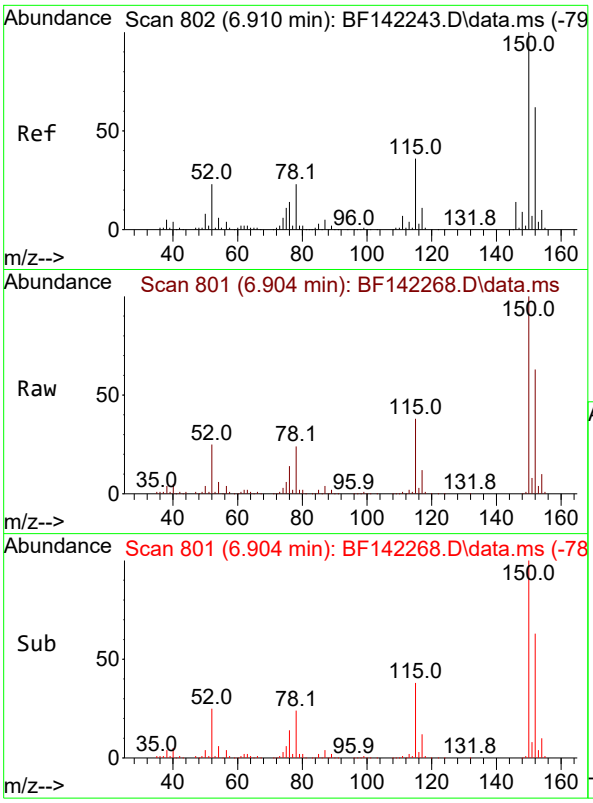
Quant Time: May 02 01:07:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

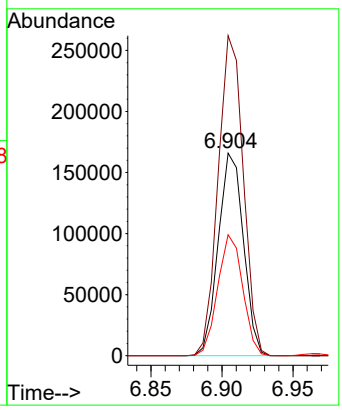




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:152 Resp: 20469

Ion	Ratio	Lower	Upper
152	100		
150	157.9	130.2	195.2
115	59.7	47.0	70.4



Instrument :
BNA_F
ClientSampleId :
B-167-SB01

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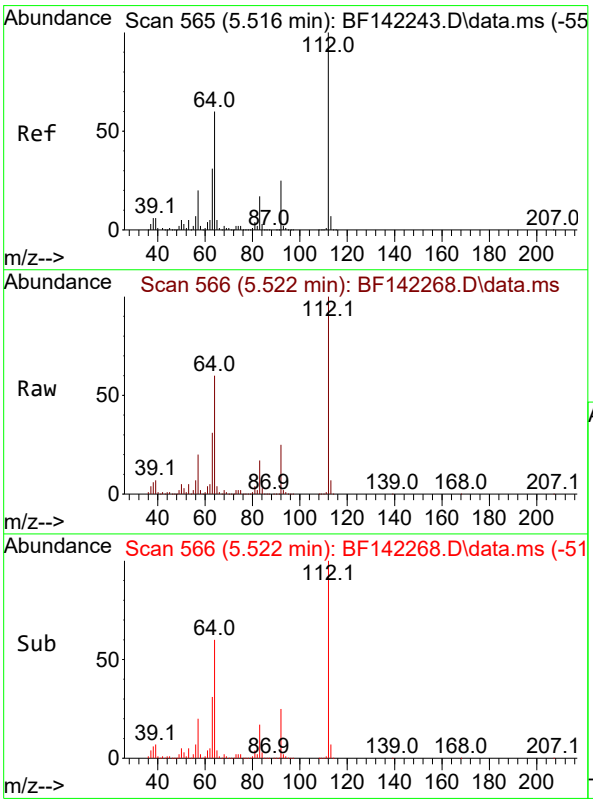
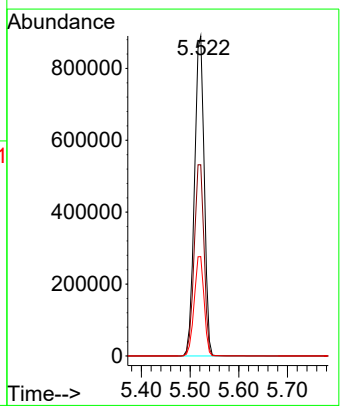
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

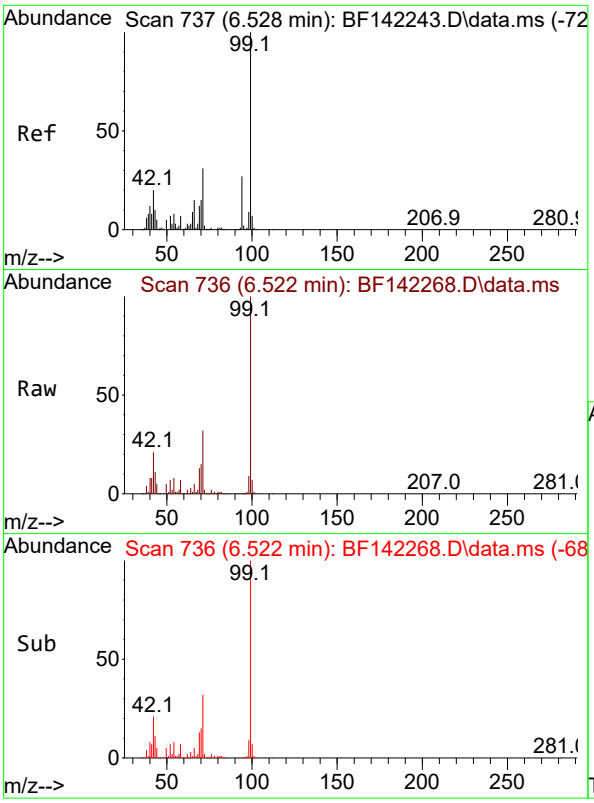


#5
2-Fluorophenol
Concen: 96.976 ng
RT: 5.522 min Scan# 566
Delta R.T. 0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:112 Resp: 1242920

Ion	Ratio	Lower	Upper
112	100		
64	59.8	48.4	72.6
63	31.0	24.8	37.2

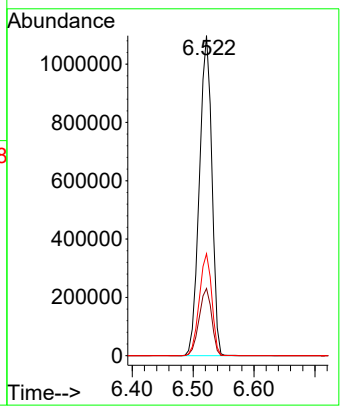




#7
Phenol-d6
Concen: 100.677 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion: 99 Resp: 155819

Ion	Ratio	Lower	Upper
99	100		
42	21.0	16.3	24.5
71	31.9	25.0	37.4



Instrument :
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ClientSampleId :
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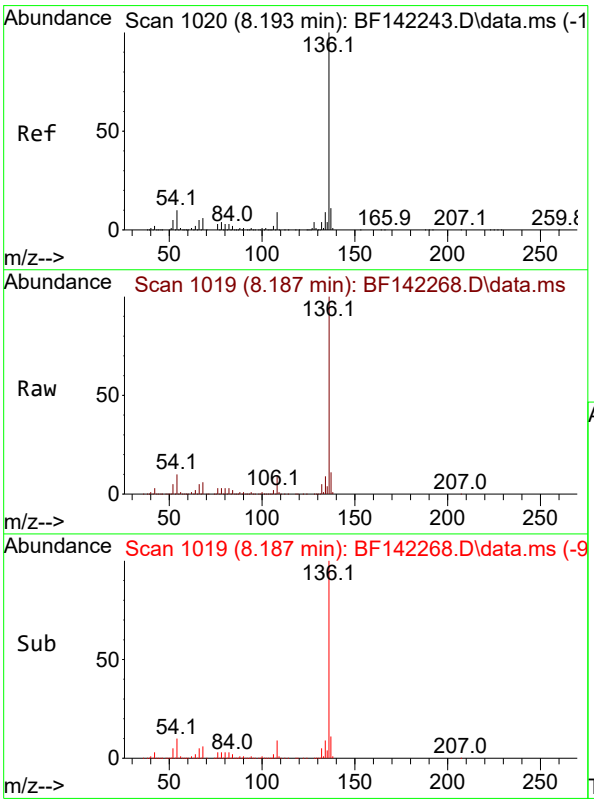
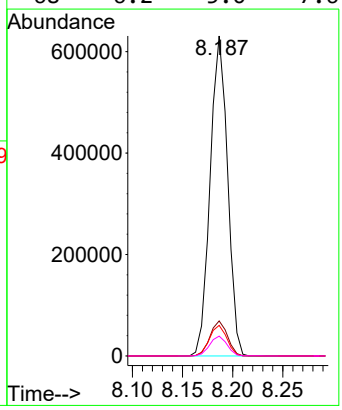
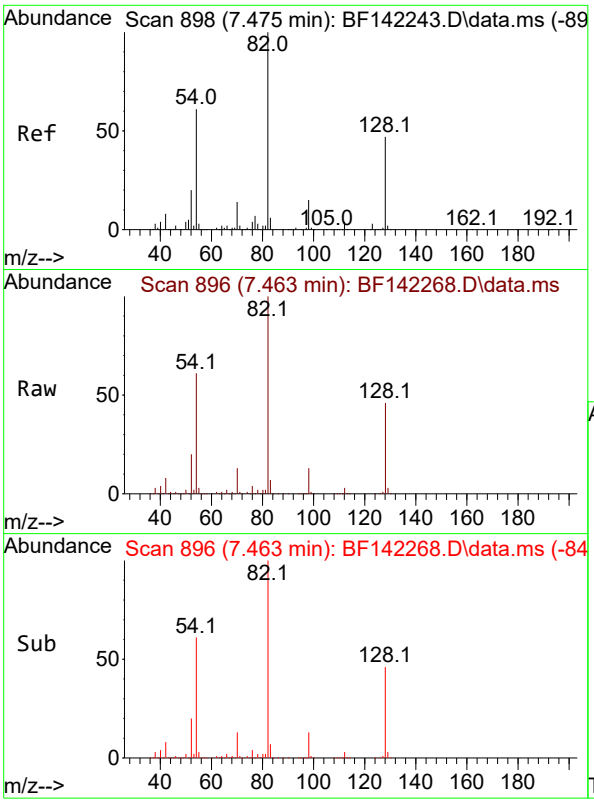


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.187 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:136 Resp: 764165

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	9.5	7.7	11.5
68	6.2	5.0	7.6





#23
Nitrobenzene-d5
Concen: 76.318 ng
RT: 7.463 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion: 82 Resp: 88770

Ion	Ratio	Lower	Upper
82	100		
128	46.0	37.0	55.6
54	61.5	48.0	72.0

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

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Reviewed By :Rahul Chavli 05/02/2025
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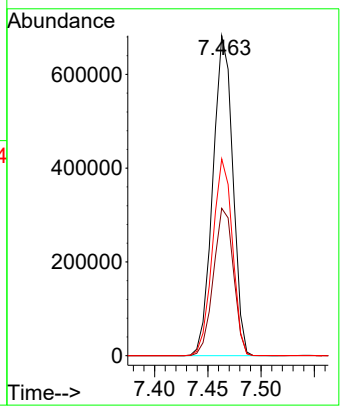
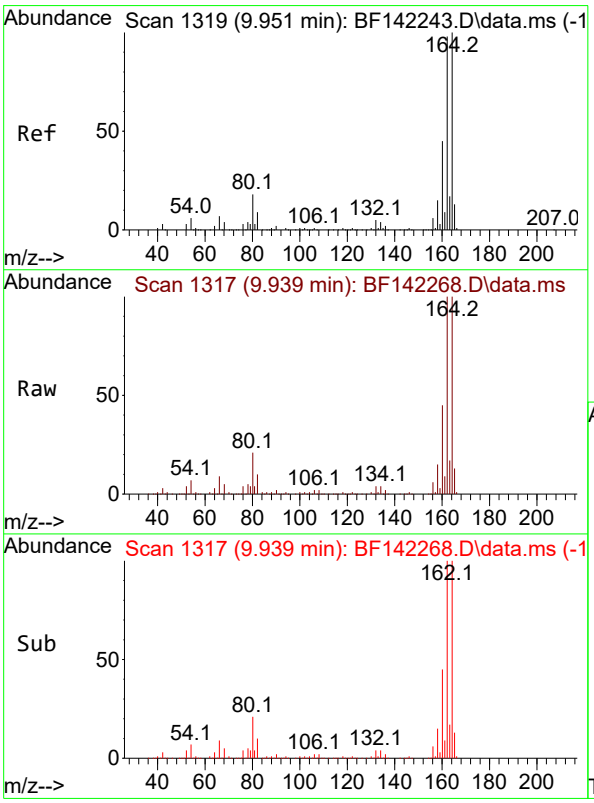
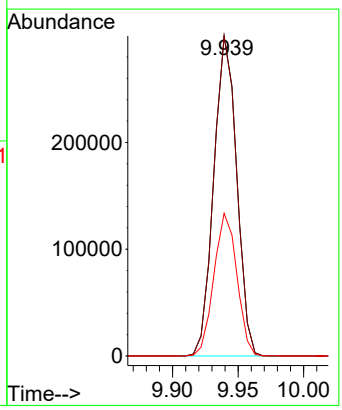


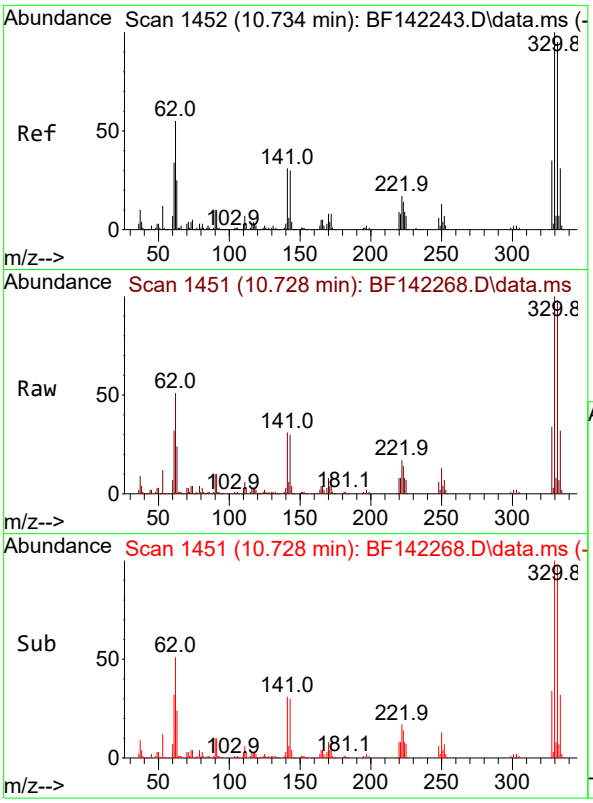


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.012 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:164 Resp: 363631

Ion	Ratio	Lower	Upper
164	100		
162	99.9	78.6	117.8
160	44.6	35.7	53.5

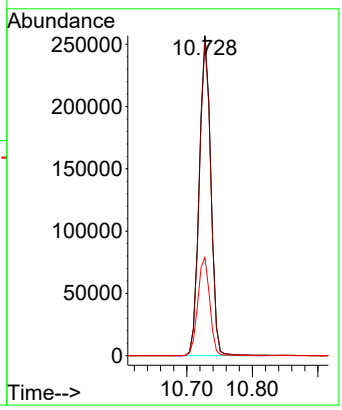




#42
2,4,6-Tribromophenol
Concen: 95.472 ng
RT: 10.728 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:330 Resp: 31649

Ion	Ratio	Lower	Upper
330	100		
332	97.9	76.5	114.7
141	31.6	24.3	36.5



Instrument :
BNA_F
ClientSampleId :
B-167-SB01

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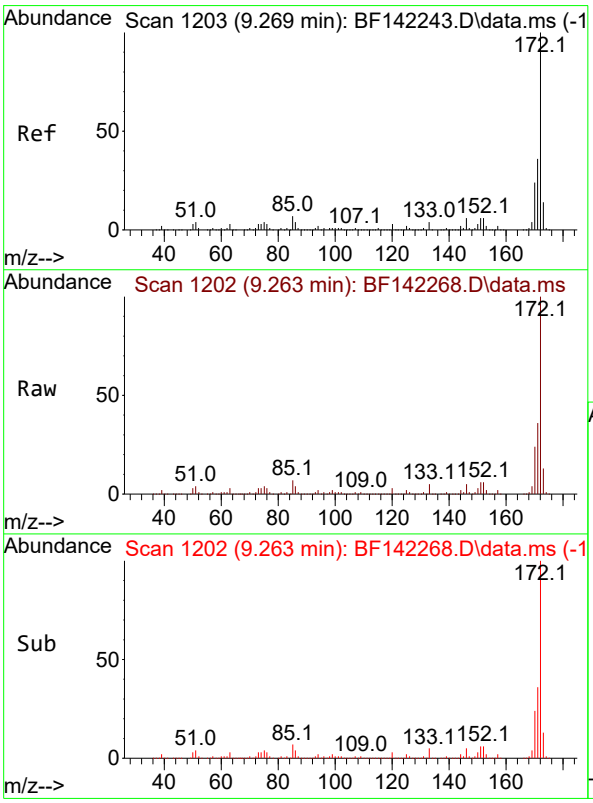
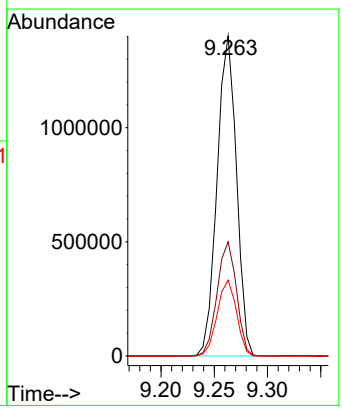
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

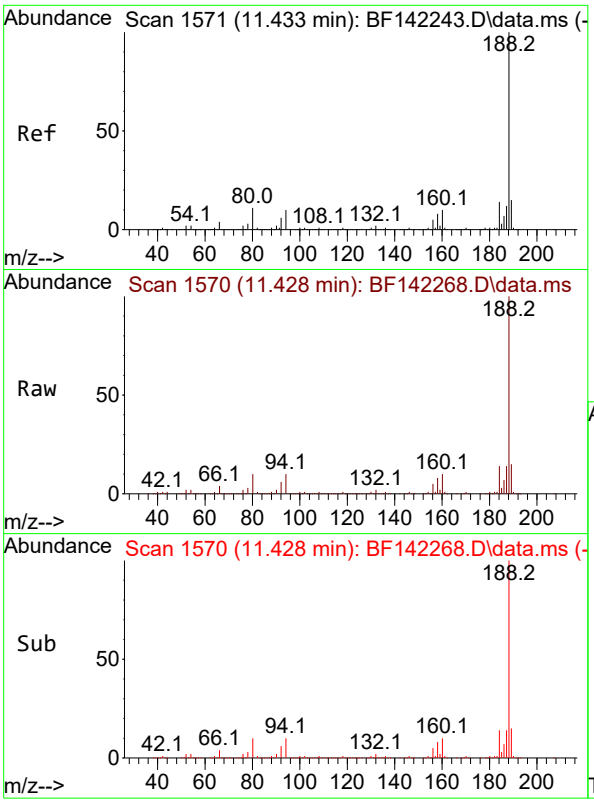


#45
2-Fluorobiphenyl
Concen: 68.656 ng
RT: 9.263 min Scan# 1202
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:172 Resp: 1770634

Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.0	43.4
170	23.7	19.4	29.0

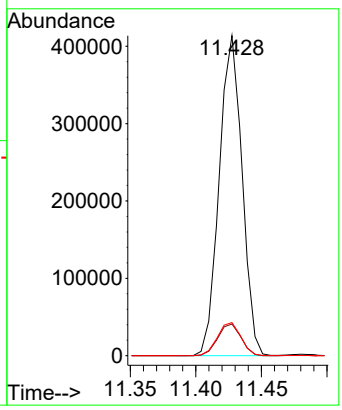




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:188 Resp: 50173

Ion	Ratio	Lower	Upper
188	100		
94	9.9	8.2	12.2
80	10.4	8.6	12.8



Instrument :
BNA_F
ClientSampleId :
B-167-SB01

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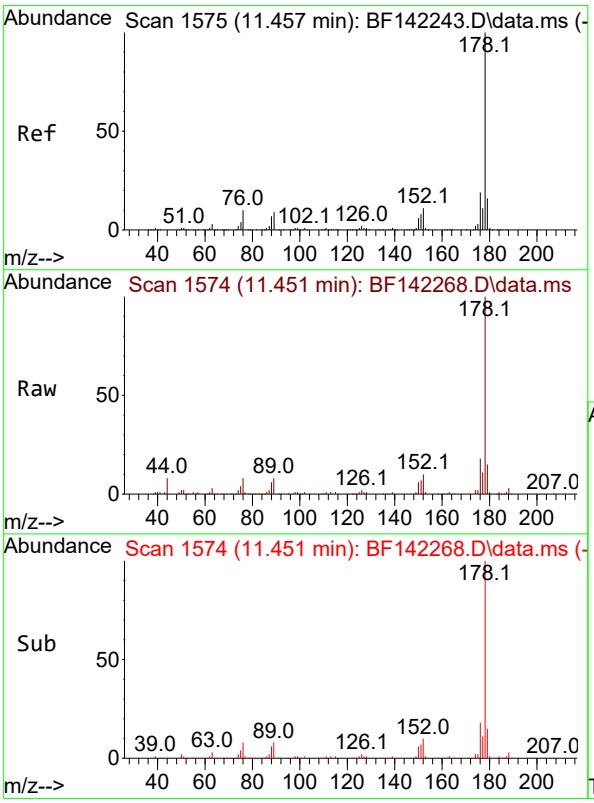
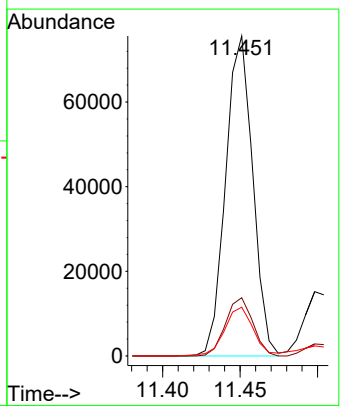
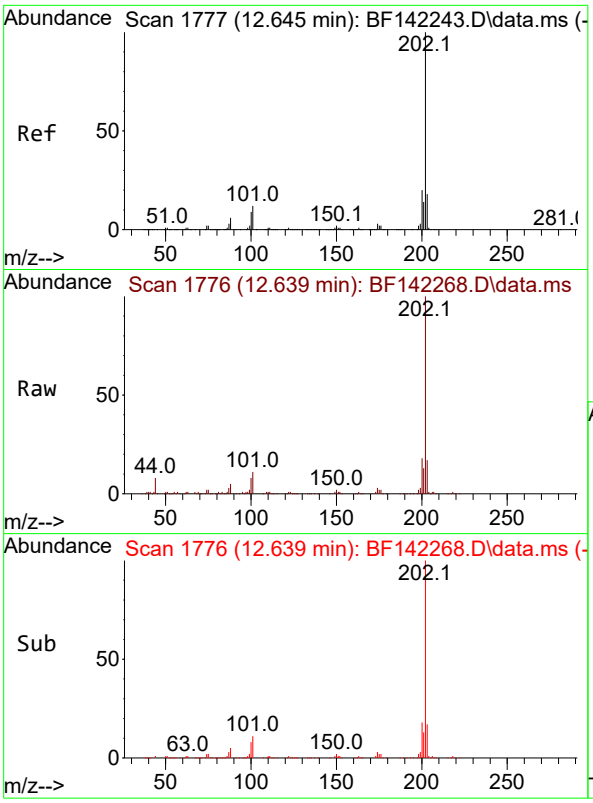


#71
Phenanthrene
Concen: 3.395 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:178 Resp: 92016

Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.5	23.3
179	15.2	12.6	19.0

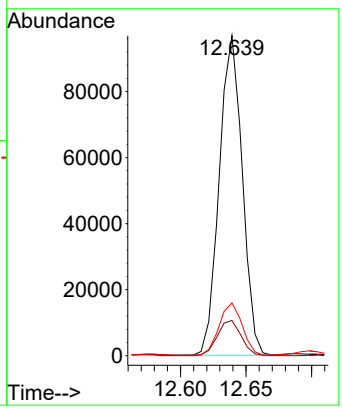




#75
Fluoranthene
Concen: 4.405 ng
RT: 12.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:202 Resp: 11802

Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	32.4
203	16.5	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
B-167-SB01

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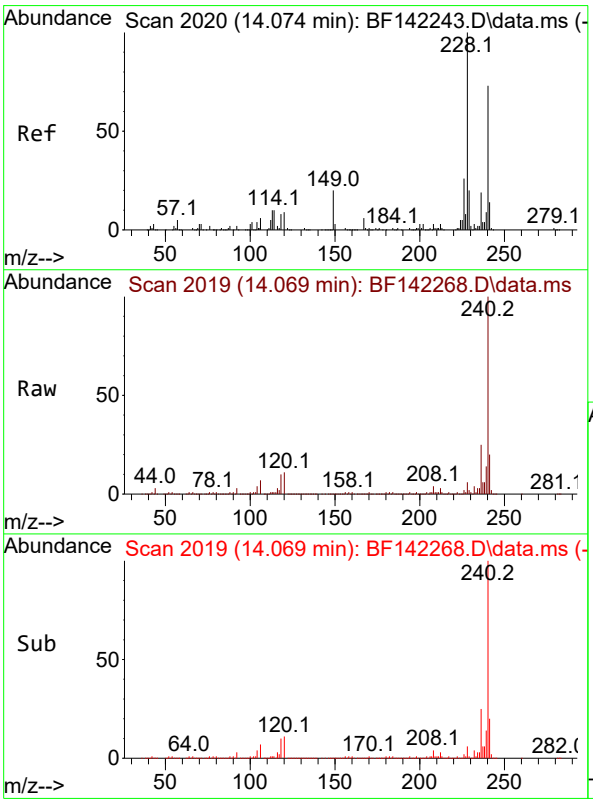
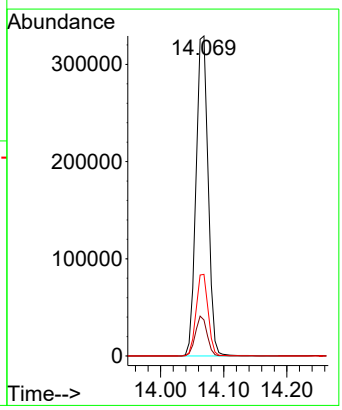
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

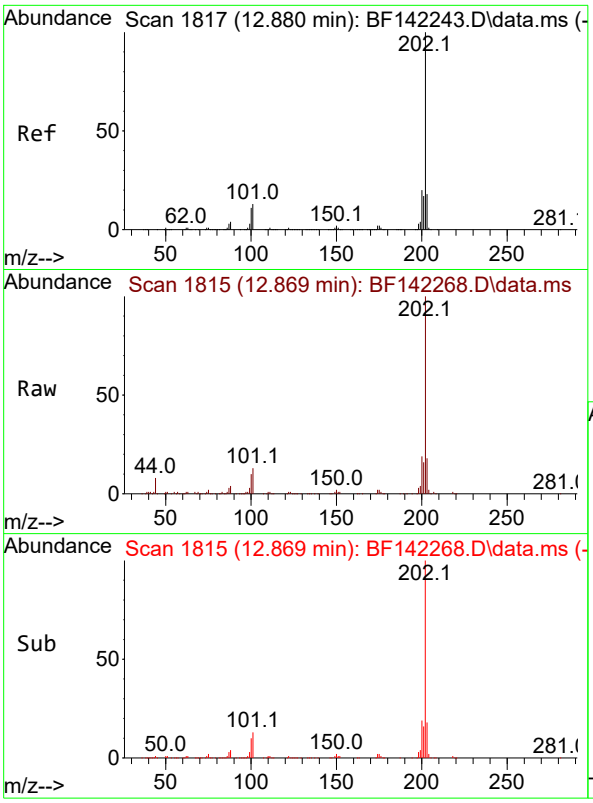


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:240 Resp: 437339

Ion	Ratio	Lower	Upper
240	100		
120	11.2	10.1	15.1
236	25.5	20.5	30.7

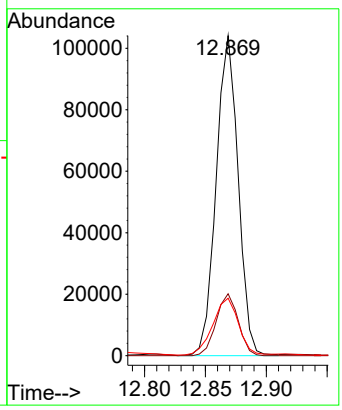




#78
Pyrene
Concen: 3.247 ng
RT: 12.869 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:202 Resp: 13097

Ion	Ratio	Lower	Upper
202	100		
200	19.3	16.1	24.1
203	18.0	14.1	21.1



Instrument :
BNA_F
ClientSampleId :
B-167-SB01

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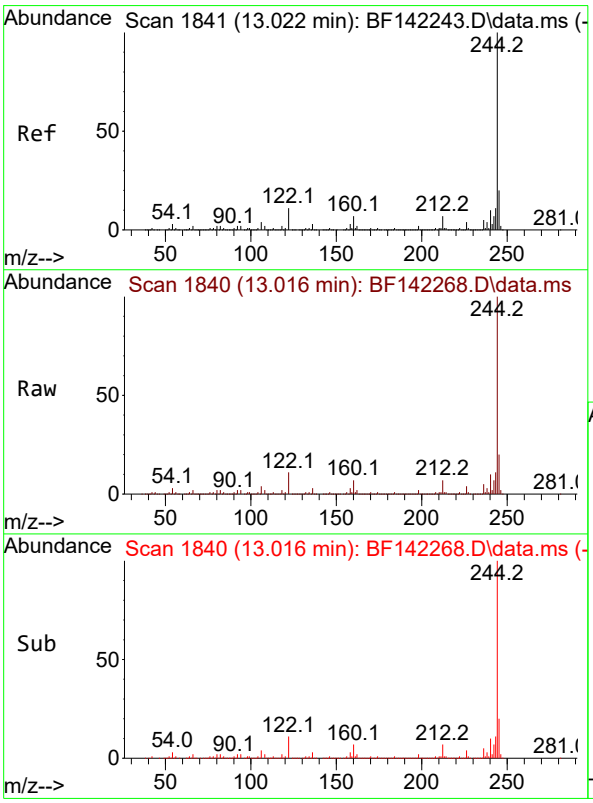
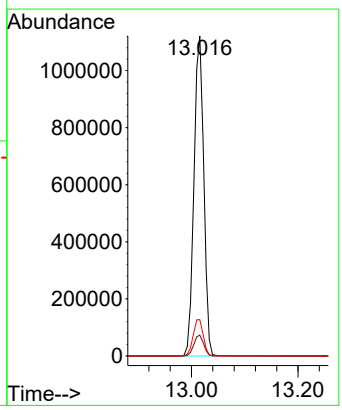
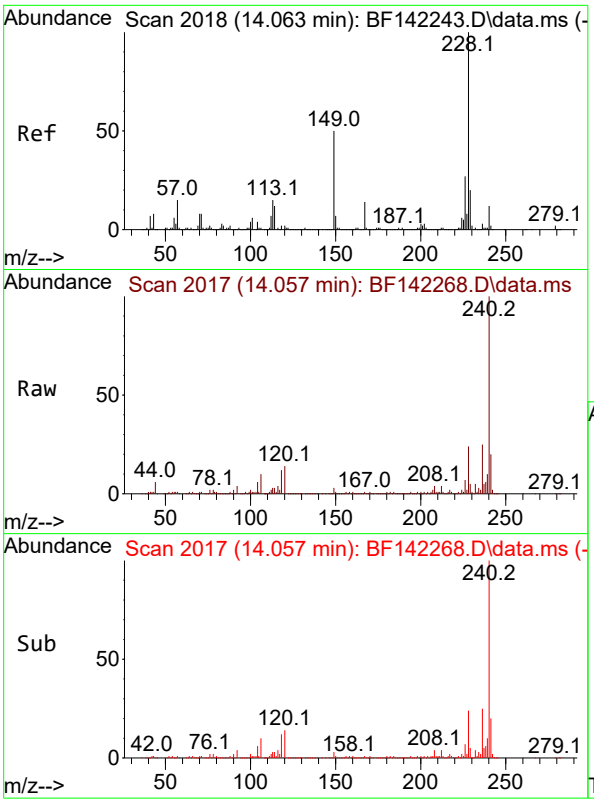


#79
Terphenyl-d14
Concen: 47.556 ng
RT: 13.016 min Scan# 1840
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:244 Resp: 1430017

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.3	7.9
122	11.3	9.1	13.7

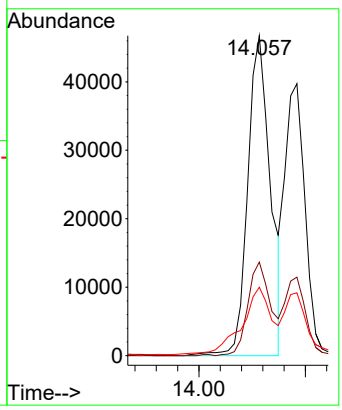




#81
Benzo(a)anthracene
Concen: 2.356 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:228 Resp: 6918

Ion	Ratio	Lower	Upper
228	100		
226	29.2	21.9	32.9
229	21.4	16.0	24.0



Instrument :
BNA_F
ClientSampleId :
B-167-SB01

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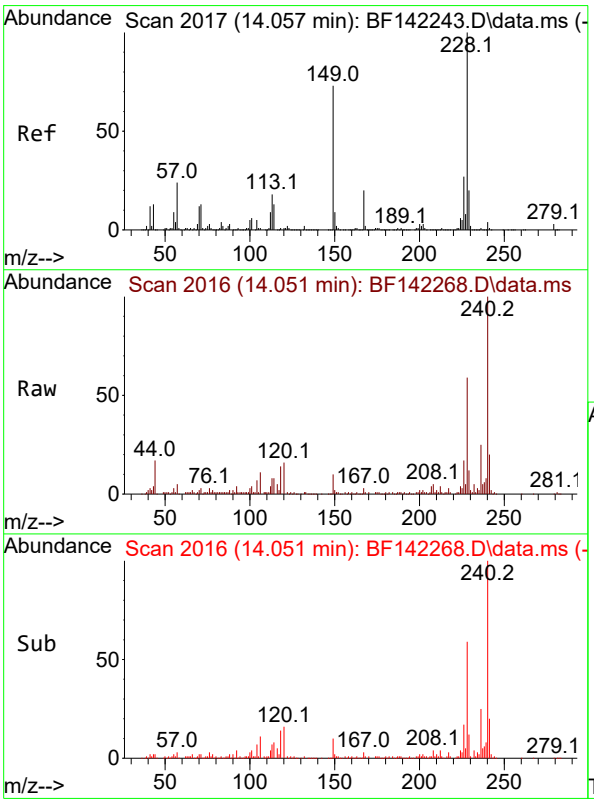
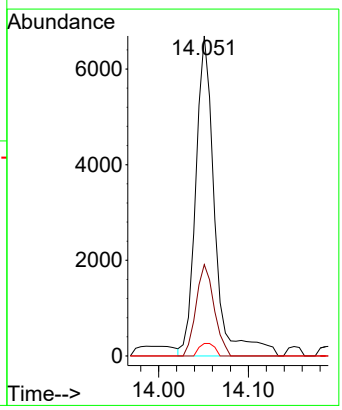
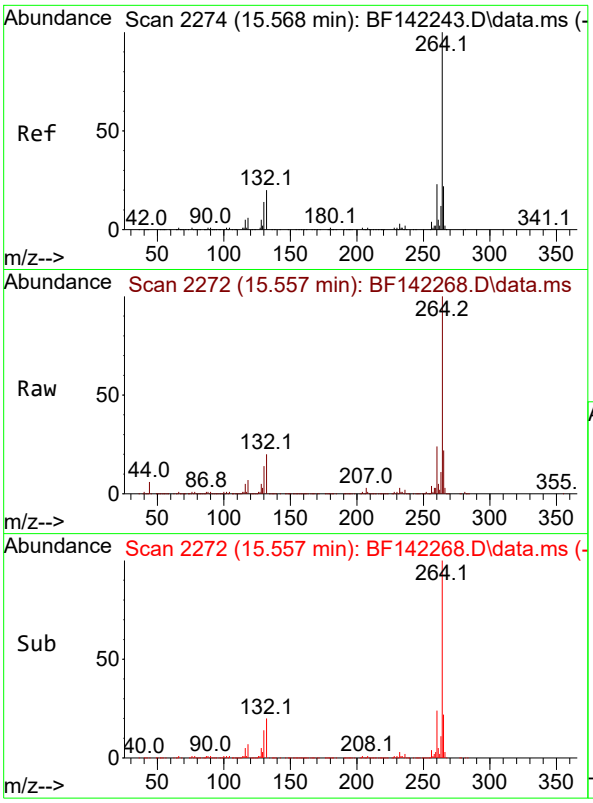


#84
Bis(2-ethylhexyl)phthalate
Concen: 4.052 ng
RT: 14.051 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:149 Resp: 9843

Ion	Ratio	Lower	Upper
149	100		
167	28.6	21.7	32.5
279	3.9	3.0	4.4

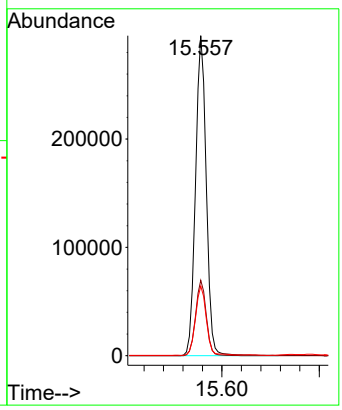




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:264 Resp: 45470

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.4	27.6
265	21.8	17.3	25.9



Instrument :
BNA_F
ClientSampleId :
B-167-SB01

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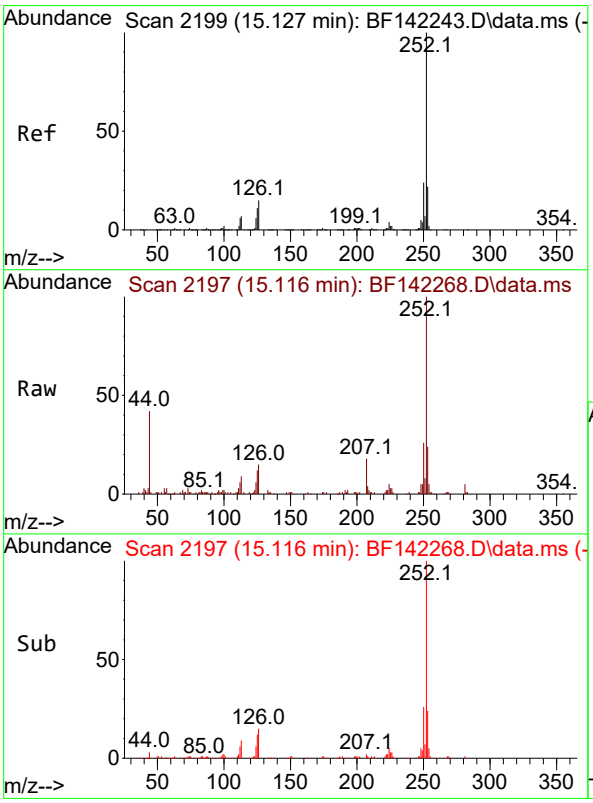
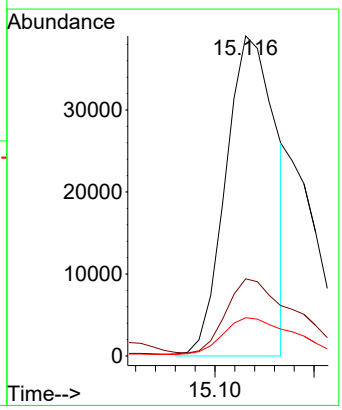


#88
Benzo(b)fluoranthene
Concen: 2.413 ng m
RT: 15.116 min Scan# 2197
Delta R.T. -0.012 min
Lab File: BF142268.D
Acq: 01 May 2025 18:55

Tgt Ion:252 Resp: 68147

Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.7	26.5
125	12.0	9.0	13.4



Sample Results: **BF142268.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-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-BF043025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142268.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.316	14	21	31	rVB2	61821	104032	2.03%	0.288%
2	5.128	490	499	509	rVB	345774	542647	10.60%	1.501%
3	5.522	559	566	571	rBV	3123242	4406681	86.11%	12.190%
4	6.522	729	736	741	rBV	3210981	4586593	89.63%	12.687%
5	6.904	796	801	806	rVB	990793	1212302	23.69%	3.353%
6	7.463	890	896	901	rBV	2146315	2809135	54.90%	7.771%
7	7.716	935	939	943	rVB	51601	60763	1.19%	0.168%
8	8.187	1013	1019	1027	rBV	1279895	1580689	30.89%	4.372%
9	9.263	1196	1202	1207	rBV	4041357	5117237	100.00%	14.155%
10	9.939	1312	1317	1322	rBV	1272498	1557655	30.44%	4.309%
11	10.651	1433	1438	1443	rBV	590376	733968	14.34%	2.030%
12	10.728	1445	1451	1456	rBV	1932792	2429783	47.48%	6.721%
13	10.963	1482	1491	1495	rBV	37701	52475	1.03%	0.145%
14	11.428	1565	1570	1578	rBV2	1024684	1466179	28.65%	4.056%
15	11.498	1578	1582	1586	rVB	41975	54469	1.06%	0.151%
16	11.651	1603	1608	1617	rBV	171831	241763	4.72%	0.669%
17	11.951	1651	1659	1664	rBV2	186717	300023	5.86%	0.830%
18	12.039	1670	1674	1684	rVB	41160	78544	1.53%	0.217%
19	12.210	1698	1703	1714	rVB2	293250	401290	7.84%	1.110%
20	12.639	1771	1776	1782	rBV	218200	277995	5.43%	0.769%
21	12.733	1788	1792	1799	rBV2	54708	83843	1.64%	0.232%
22	12.869	1808	1815	1821	rBV	229100	324972	6.35%	0.899%
23	13.016	1834	1840	1845	rVB	2998466	3849663	75.23%	10.649%
24	13.910	1988	1992	2002	rVB	152371	230126	4.50%	0.637%
25	14.063	2012	2018	2031	rVB2	991615	1542539	30.14%	4.267%
26	14.545	2095	2100	2103	rBV3	43592	65918	1.29%	0.182%
27	14.939	2162	2167	2176	rVV2	42308	71962	1.41%	0.199%
28	15.116	2192	2197	2208	rBV	105644	249724	4.88%	0.691%
29	15.221	2209	2215	2222	rVB3	26927	66167	1.29%	0.183%
30	15.427	2245	2250	2255	rBV	60169	90811	1.77%	0.251%
31	15.486	2256	2260	2266	rVV	77408	114728	2.24%	0.317%
32	15.557	2266	2272	2289	rVB	798337	1282112	25.05%	3.547%
33	16.098	2361	2364	2374	rVB4	27687	56638	1.11%	0.157%
34	17.051	2522	2526	2535	rVB2	24909	51275	1.00%	0.142%
35	17.498	2598	2602	2613	rVB2	24012	56045	1.10%	0.155%

Sample Results: **BF142268.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-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-BF043025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Sum of corrected areas: 36150746

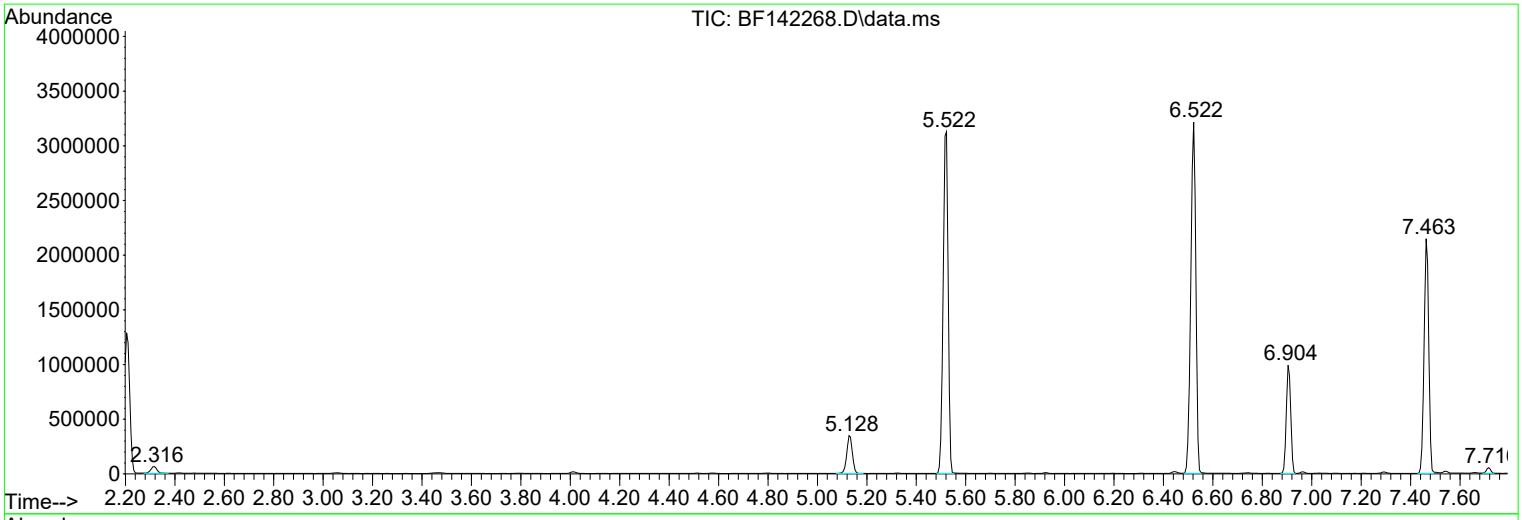
Sample Results: **BF142268.D**

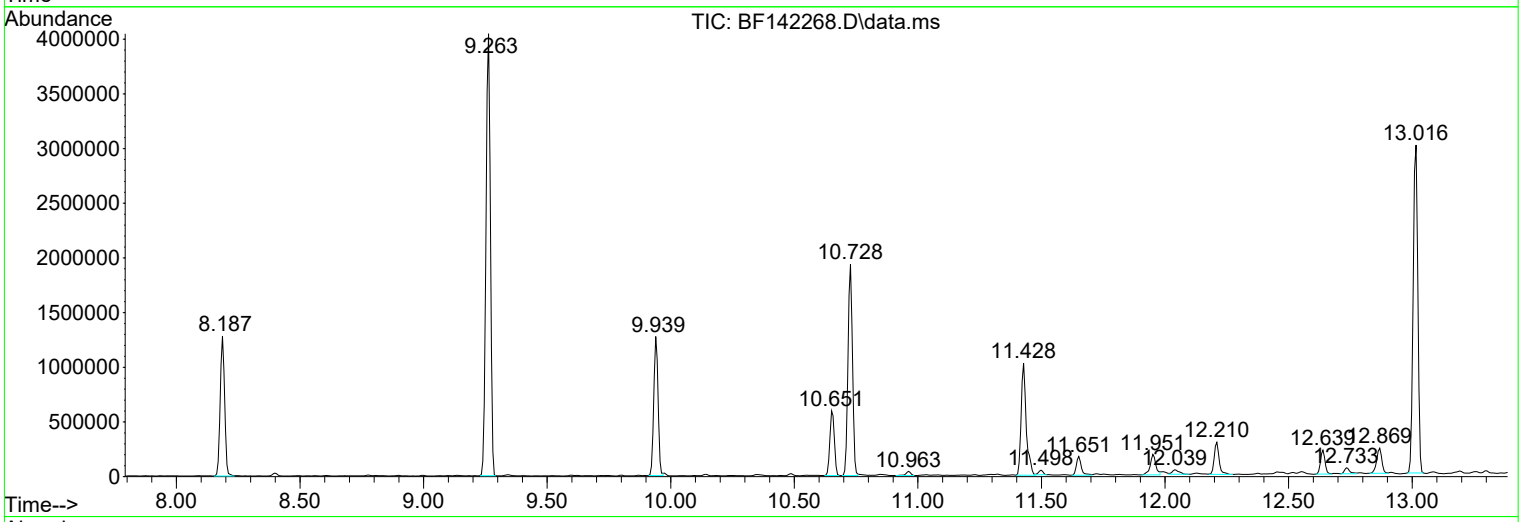
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

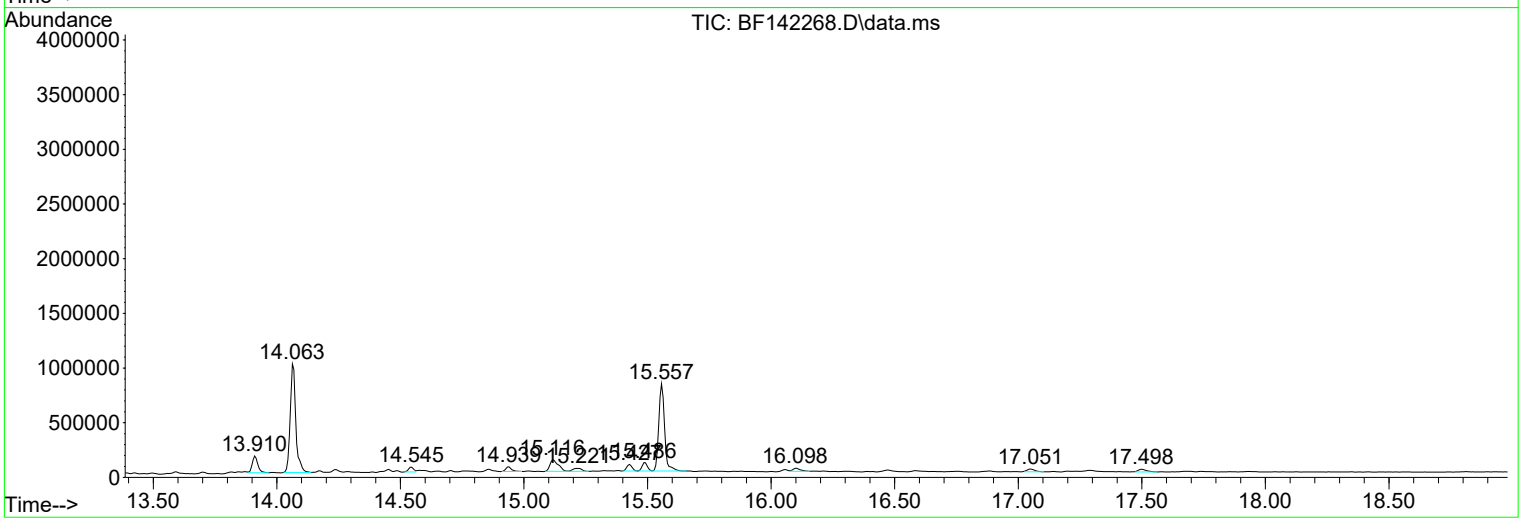
Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.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\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

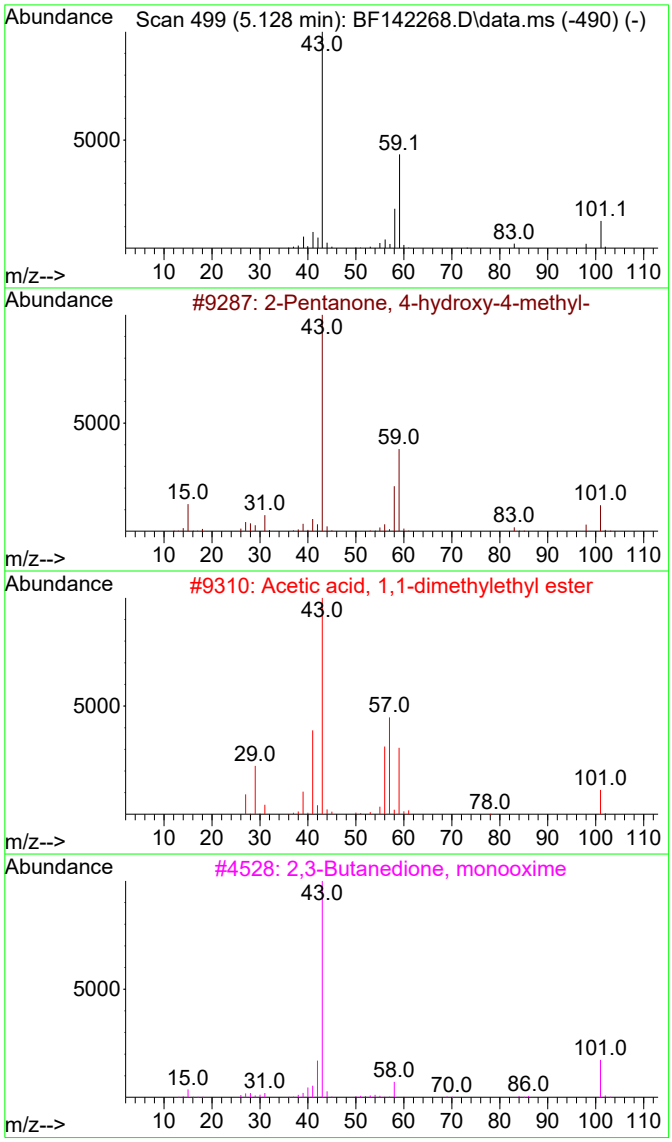
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

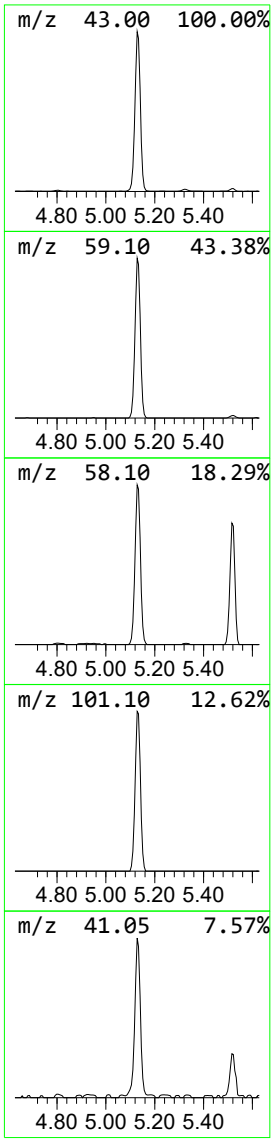
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.128	8.95 ng	542647	1,4-Dichlorobenzene-d4	6.904

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	83
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

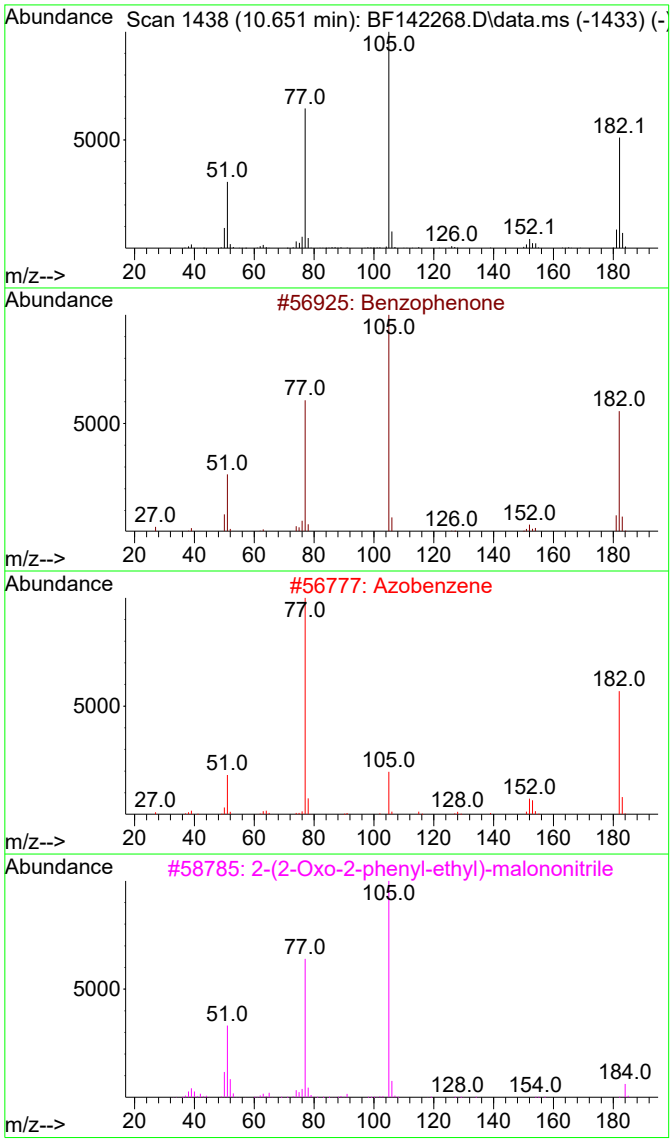
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

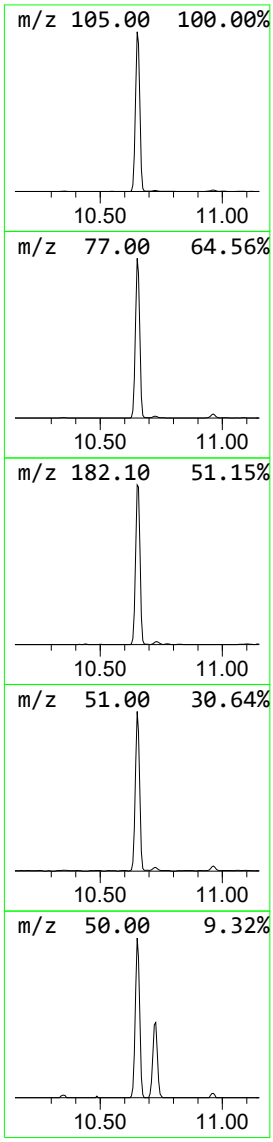
****

Peak Number 2 Benzophenone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	9.42 ng	733968	Acenaphthene-d10	9.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Azobenzene	182	C12H10N2	000103-33-3	58
3	2-(2-Oxo-2-phenyl-ethyl)-malonon...	184	C11H8N2O	1000296-76-9	58
4	Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	52
5	Benzenepropanenitrile, .beta.-oxo-	145	C9H7NO	000614-16-4	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

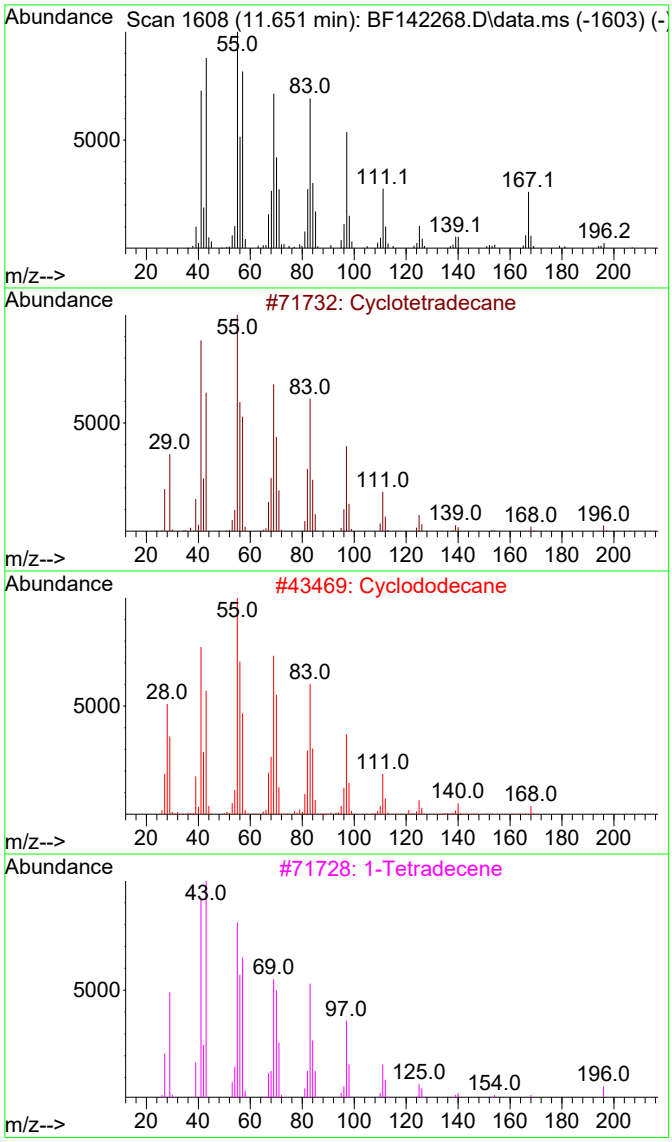
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

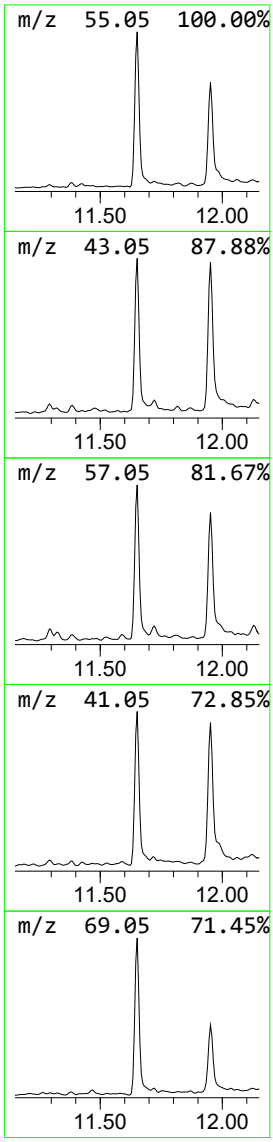
****

Peak Number 3 Cyclotetradecane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.651	3.30 ng	241763	Phenanthrene-d10	11.428

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetradecane	196	C14H28	000295-17-0	96
2	Cyclododecane	168	C12H24	000294-62-2	96
3	1-Tetradecene	196	C14H28	001120-36-1	95
4	1-Hexadecanol	242	C16H34O	036653-82-4	93
5	5-Tetradecene, (Z)-	196	C14H28	041446-62-2	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

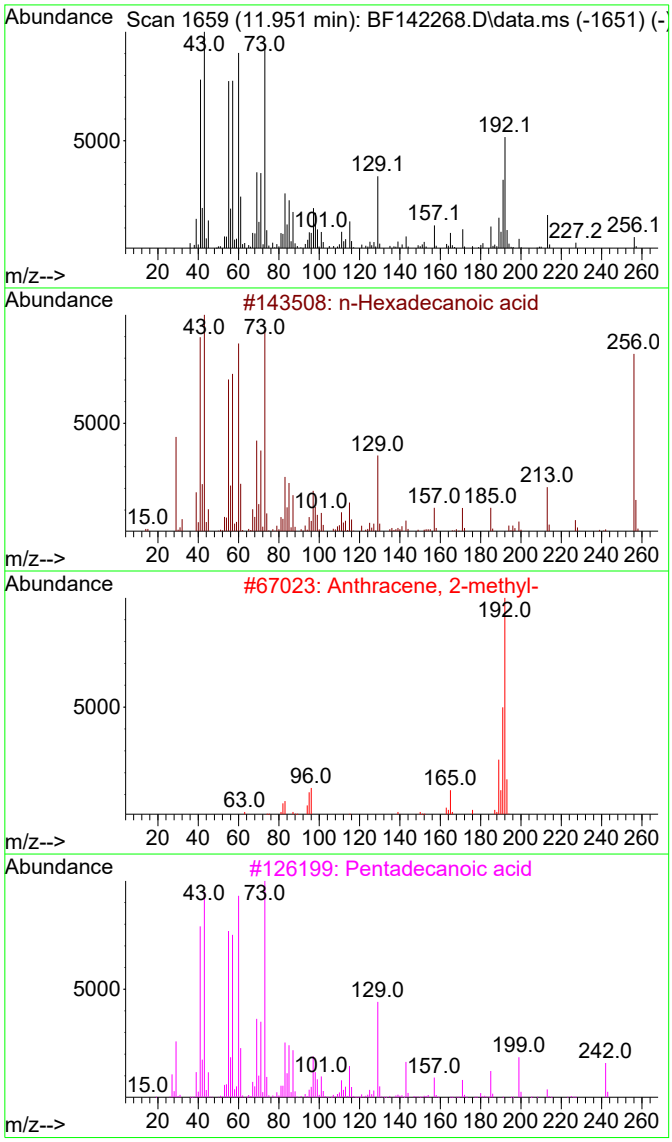
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

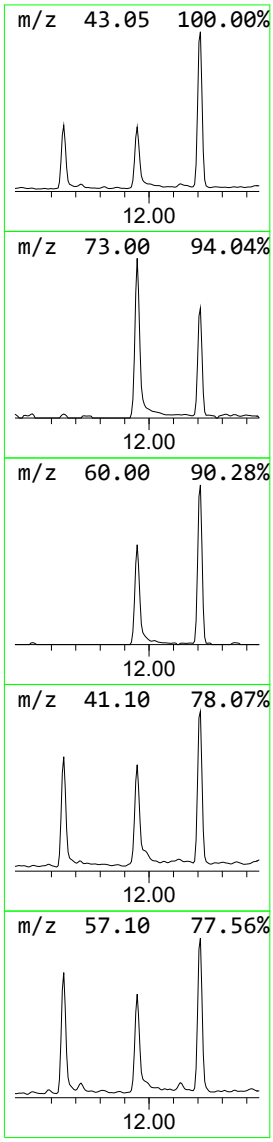
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.951	4.09 ng	300023	Phenanthrene-d10	11.428

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	70
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	56
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	53





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

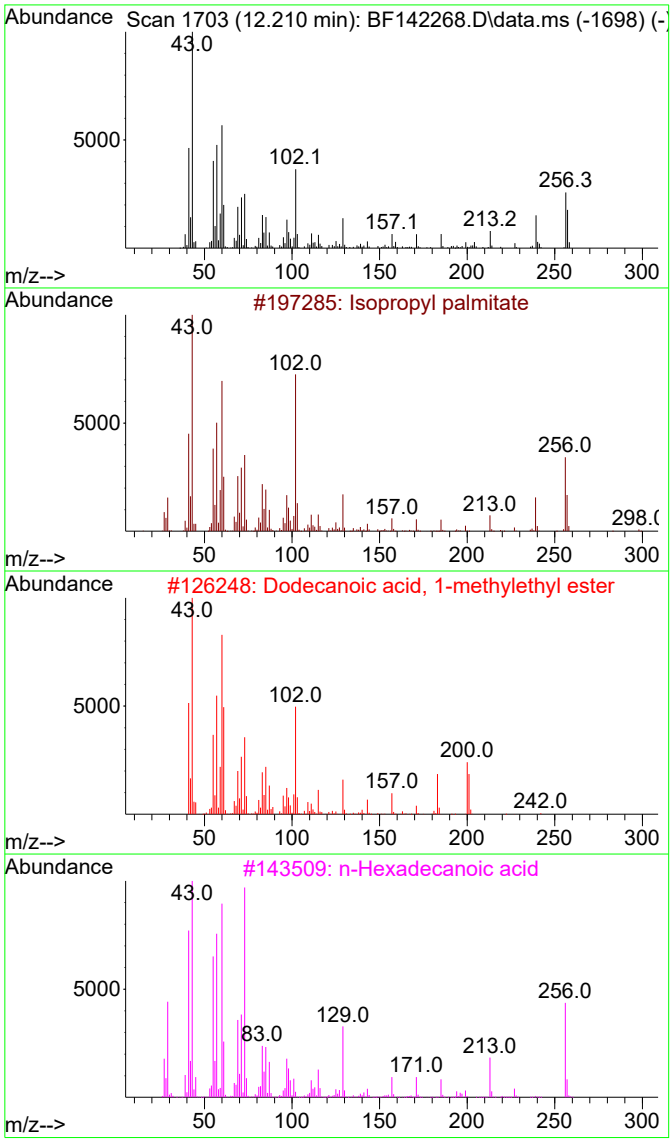
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

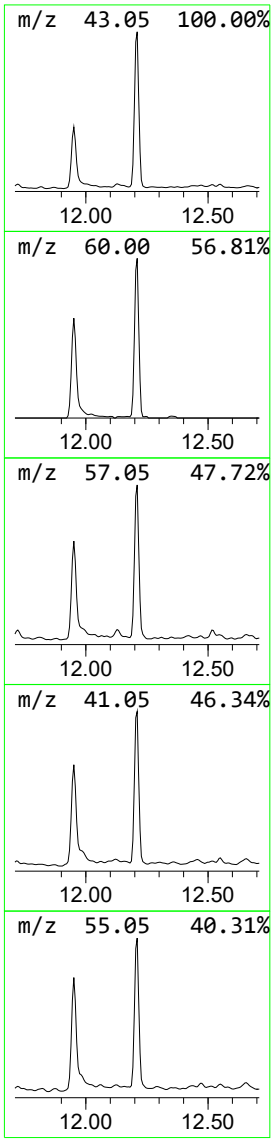
****

Peak Number 5 Isopropyl palmitate Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.210	5.47 ng	401290	Phenanthrene-d10	11.428

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isopropyl palmitate	298	C19H38O2	000142-91-6	91
2	Dodecanoic acid, 1-methylethyl e...	242	C15H30O2	010233-13-3	64
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	64
4	n-Capric acid isopropyl ester	214	C13H26O2	002311-59-3	50
5	8-Methylnonanoic acid, isopropyl...	214	C13H26O2	1000452-00-6	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

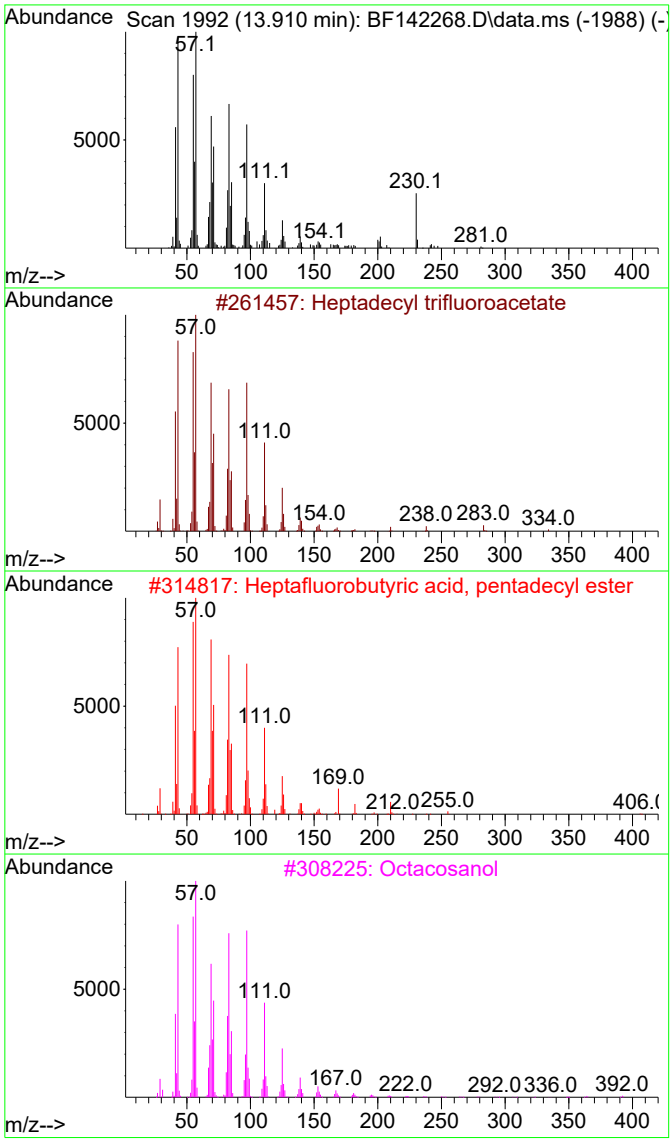
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

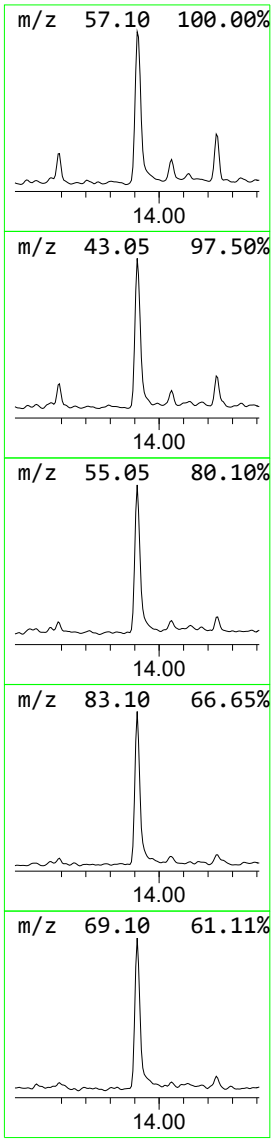
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Heptadecyl trifluoroacetate Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.910	2.98 ng	230126	Chrysene-d12	14.069

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	93
2	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	93
3	Octacosanol	410	C28H58O	000557-61-9	93
4	Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	90
5	1-Hexacosene	364	C26H52	018835-33-1	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142268.D
Acq On : 01 May 2025 18:55
Operator : RC/JU
Sample : Q1901-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.128	8.9	ng	542647	1	6.904	1212300	20.0
Benzophenone	10.651	9.4	ng	733968	3	9.939	1557660	20.0
Cyclotetradecane	11.651	3.3	ng	241763	4	11.428	1466180	20.0
n-Hexadecanoic ...	11.951	4.1	ng	300023	4	11.428	1466180	20.0
Isopropyl palmi...	12.210	5.5	ng	401290	4	11.428	1466180	20.0
Heptadecyl trif...	13.910	3.0	ng	230126	5	14.069	1542540	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

Quant Time: May 02 01:13:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.751	152	274480	20.000	ng		-0.02
21) Naphthalene-d8	10.539	136	1008897	20.000	ng		-0.02
39) Acenaphthene-d10	14.392	164	706272	20.000	ng		-0.02
64) Phenanthrene-d10	17.145	188	1455099	20.000	ng		-0.01
76) Chrysene-d12	21.380	240	1407668	20.000	ng		-0.02
86) Perylene-d12	24.374	264	1408737	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.346	112	250744	15.996	ng		-0.01
7) Phenol-d6	6.940	99	318577	16.170	ng		-0.01
23) Nitrobenzene-d5	8.910	82	183326	8.954	ng		-0.02
42) 2,4,6-Tribromophenol	15.892	330	166388	15.933	ng		-0.01
45) 2-Fluorobiphenyl	13.016	172	525870	8.808	ng		-0.02
79) Terphenyl-d14	19.768	244	703185	7.392	ng		-0.01
Target Compounds							Qvalue
31) Naphthalene	10.592	128	175316	3.431	ng		99
52) Acenaphthene	14.457	154	104131	2.744	ng		99
58) Fluorene	15.445	166	148560	2.875	ng		98
71) Phenanthrene	17.186	178	2306825	28.108	ng		99
72) Anthracene	17.274	178	459861	5.537	ng		99
75) Fluoranthene	19.204	202	2273002	23.590	ng		100
78) Pyrene	19.568	202	2240960	22.670	ng		100
81) Benzo(a)anthracene	21.362	228	1056445	10.898	ng		99
83) Chrysene	21.427	228	936460	10.438	ng		98
87) Indeno(1,2,3-cd)pyrene	27.750	276	388788	3.704	ng		98
88) Benzo(b)fluoranthene	23.433	252	895654	9.776	ng	#	97
89) Benzo(k)fluoranthene	23.486	252	270817m	2.922	ng		
90) Benzo(a)pyrene	24.233	252	673773	7.852	ng		97
92) Benzo(g,h,i)perylene	28.797	276	399694	4.879	ng		100

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

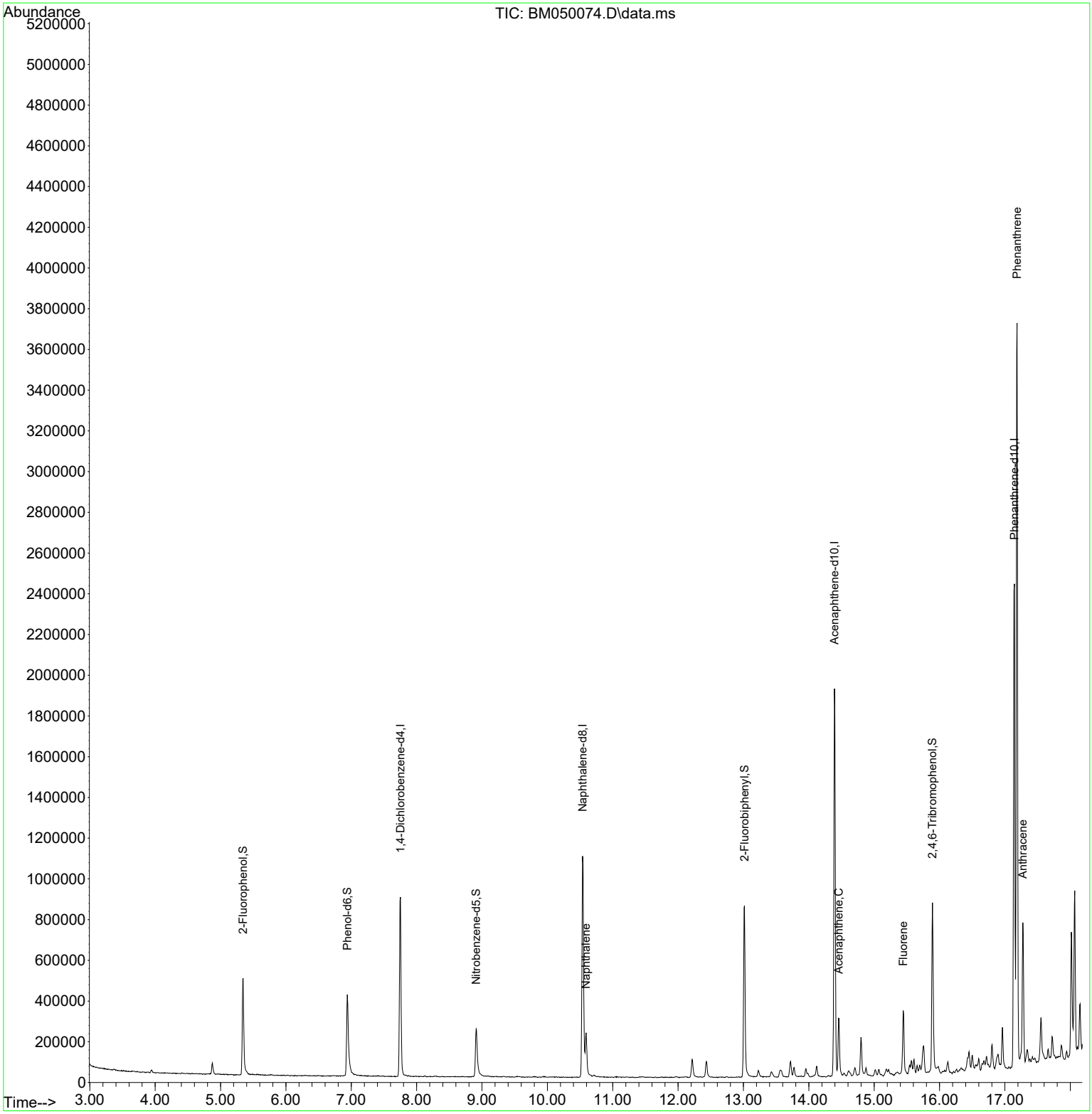
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 02 01:13:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 02 01:13:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

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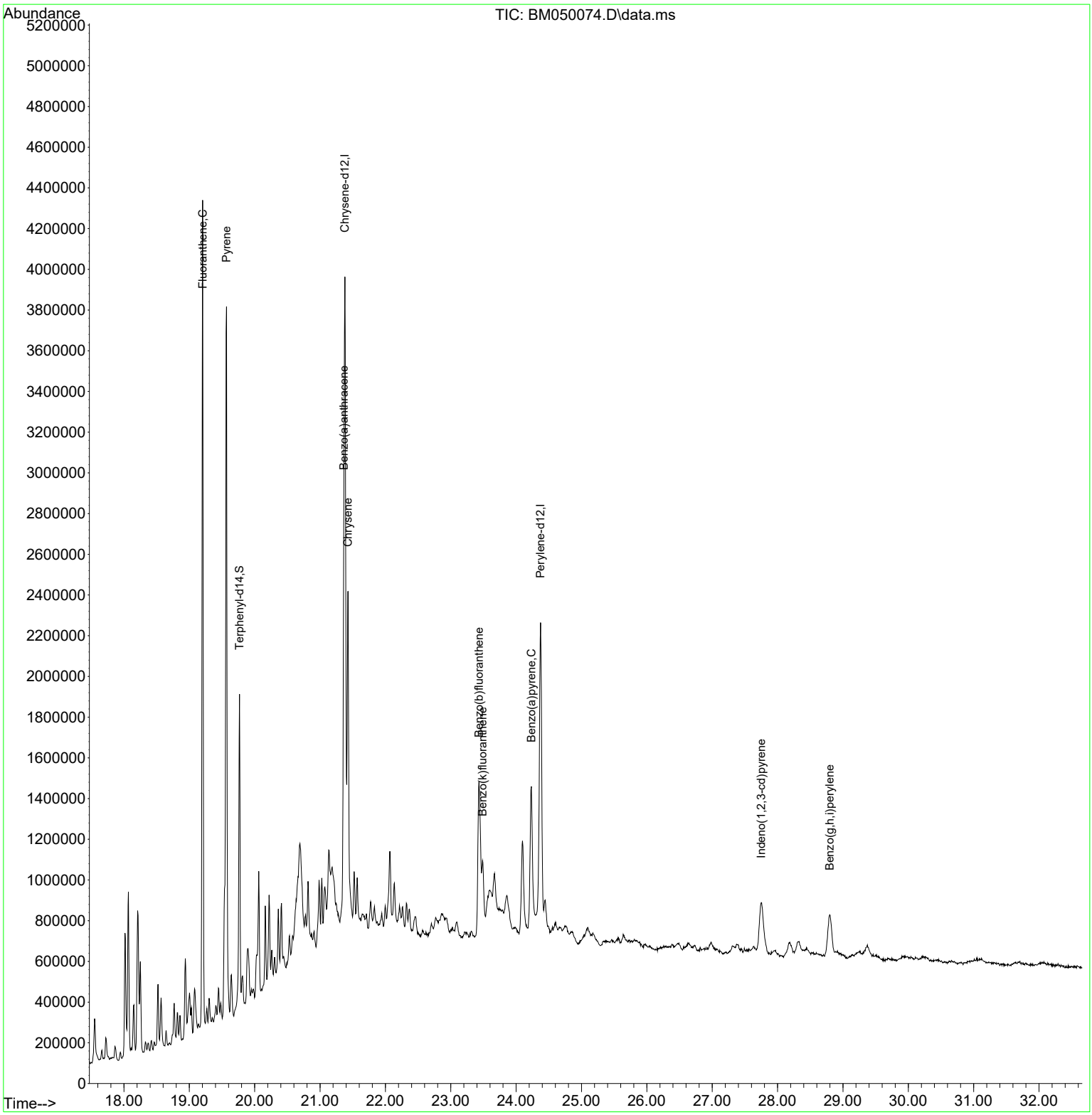
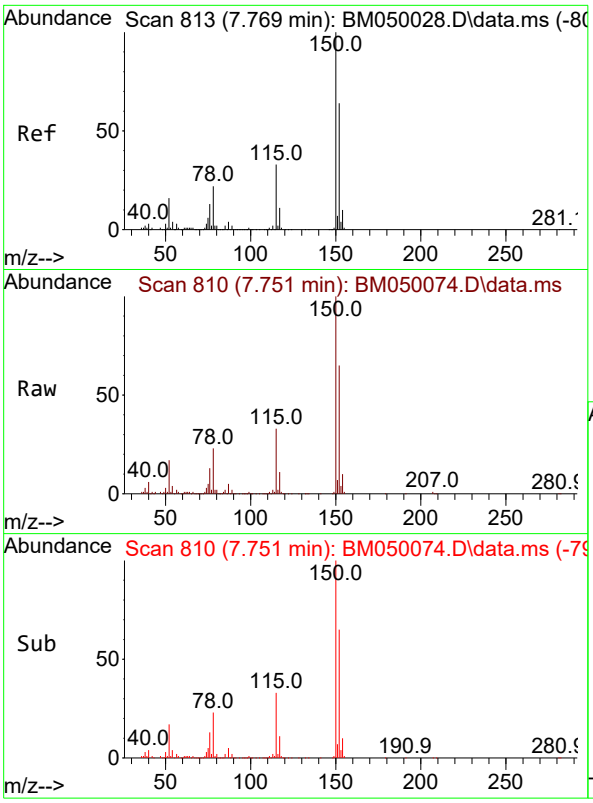
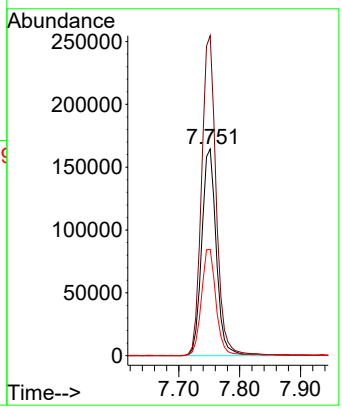




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.751 min Scan# 8
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:152 Resp: 27448

Ion	Ratio	Lower	Upper
152	100		
150	154.8	124.1	186.1
115	51.5	41.2	61.8



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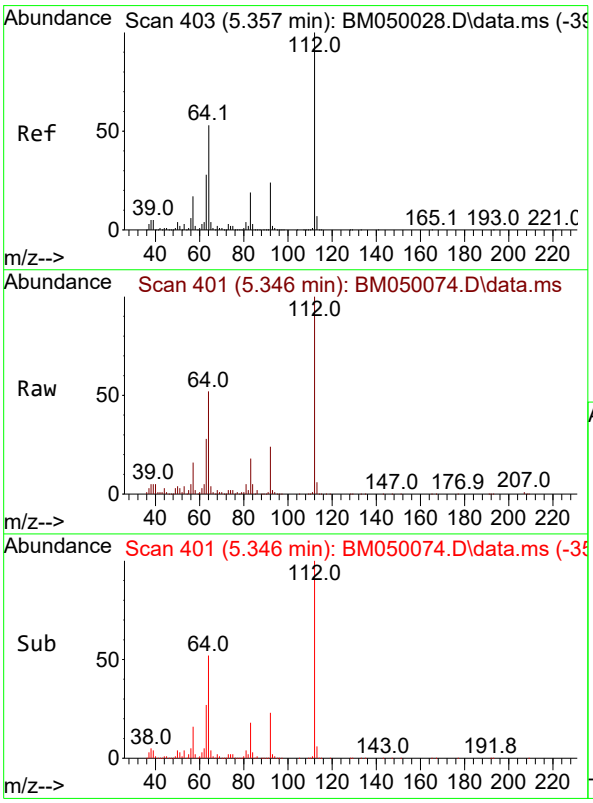
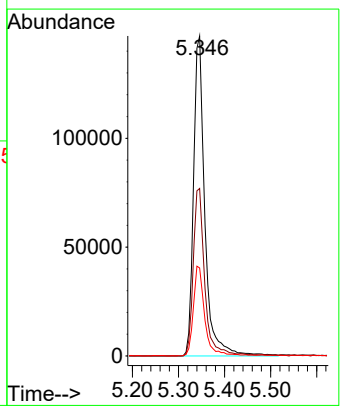
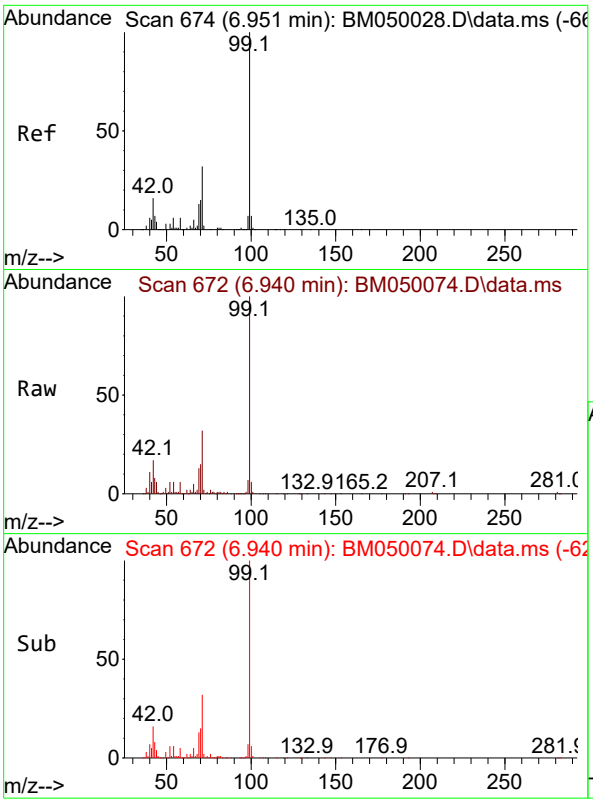


#5
2-Fluorophenol
Concen: 15.996 ng
RT: 5.346 min Scan# 401
Delta R.T. -0.012 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:112 Resp: 250744

Ion	Ratio	Lower	Upper
112	100		
64	52.3	42.6	64.0
63	27.5	22.2	33.4

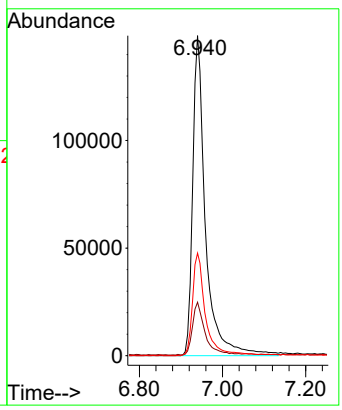




#7
Phenol-d6
Concen: 16.170 ng
RT: 6.940 min Scan# 6
Delta R.T. -0.012 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion: 99 Resp: 31857

Ion	Ratio	Lower	Upper
99	100		
42	16.7	13.0	19.4
71	32.1	25.6	38.4



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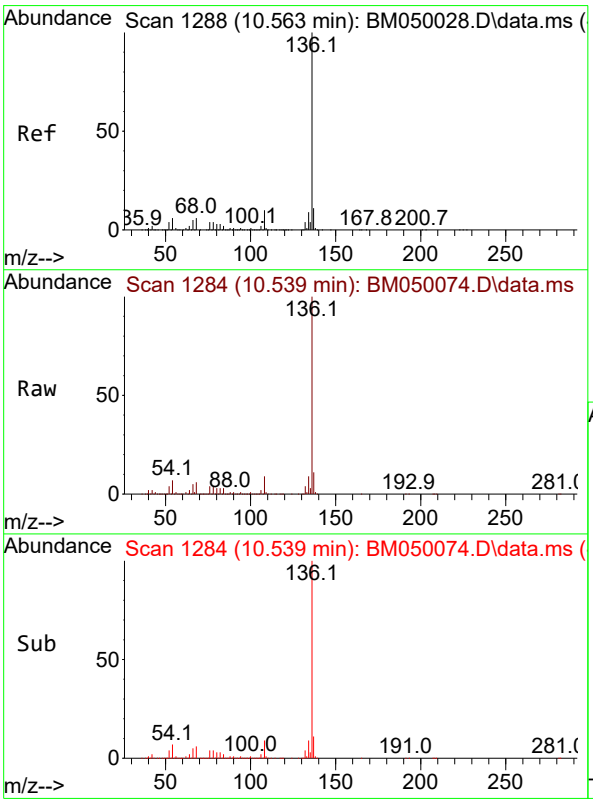
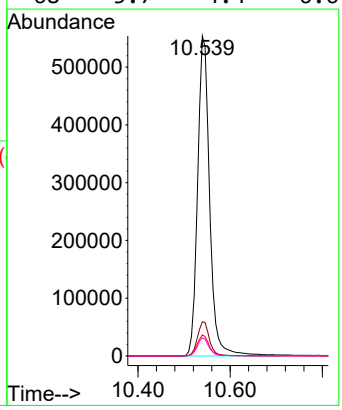
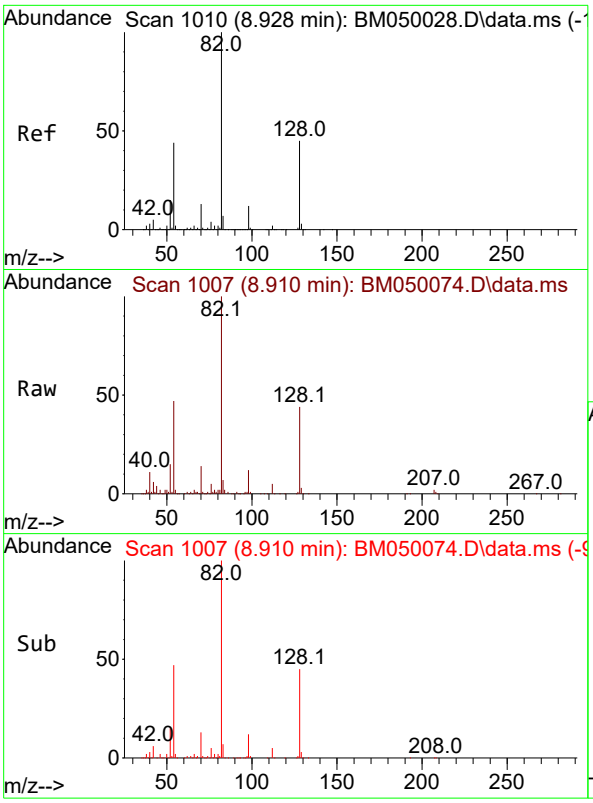


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.539 min Scan# 1284
Delta R.T. -0.023 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:136 Resp: 1008897

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	6.6	5.1	7.7
68	5.7	4.4	6.6

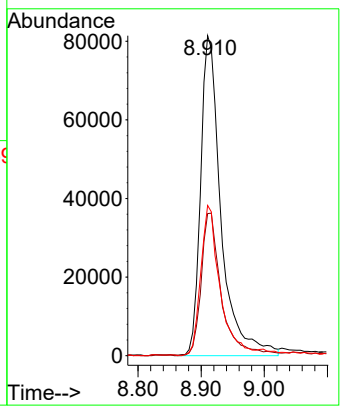




#23
Nitrobenzene-d5
Concen: 8.954 ng
RT: 8.910 min Scan# 1(
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion: 82 Resp: 18332(

Ion	Ratio	Lower	Upper
82	100		
128	44.4	35.7	53.5
54	47.0	35.4	53.2



Instrument :
BNA_M
ClientSampleId :
B-170-SB01

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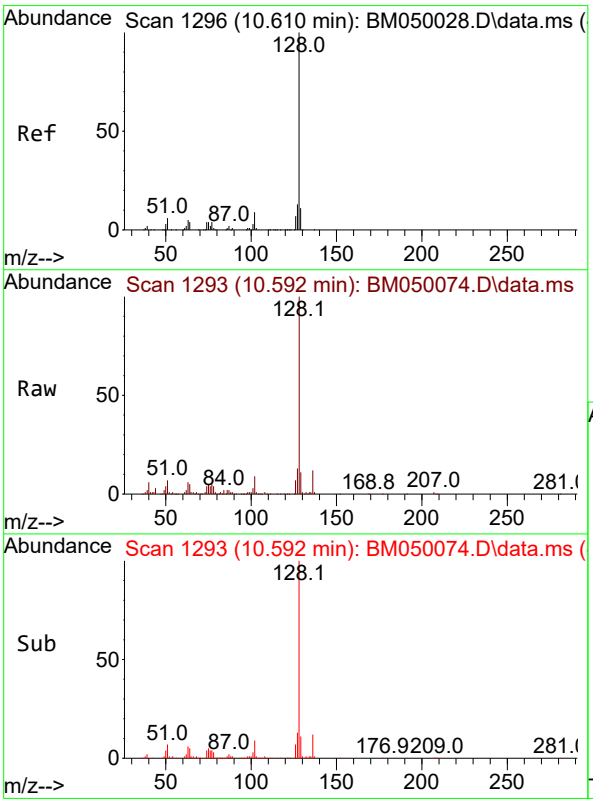
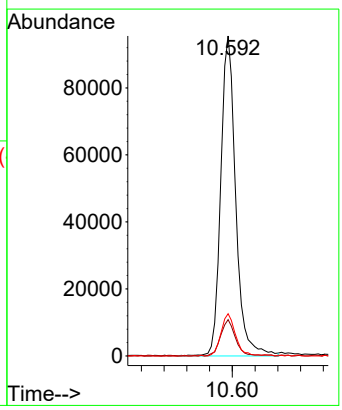
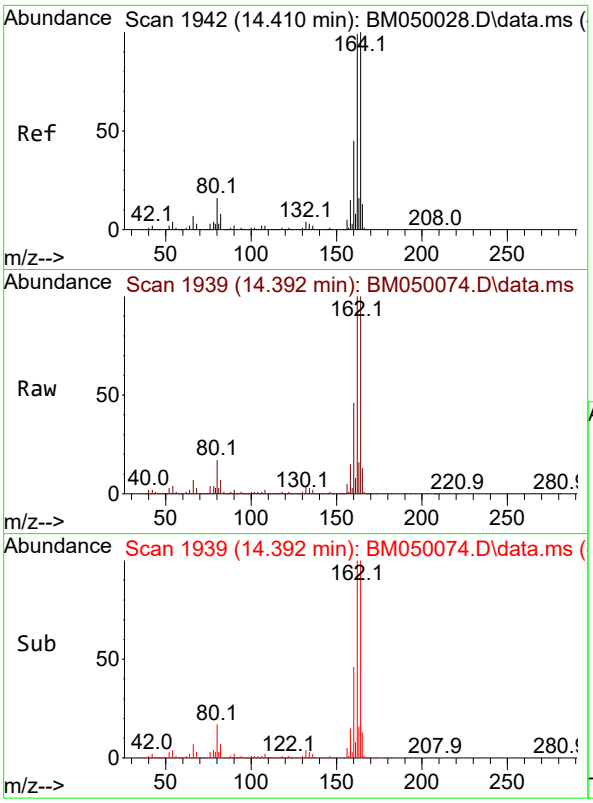


#31
Naphthalene
Concen: 3.431 ng
RT: 10.592 min Scan# 1293
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:128 Resp: 175316

Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.8	13.2
127	13.2	10.4	15.6

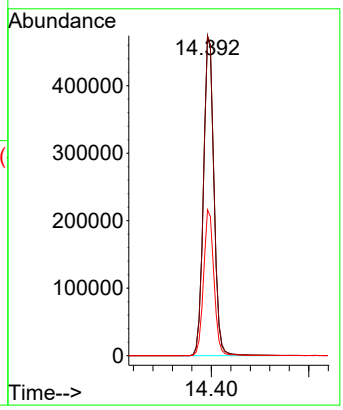




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.392 min Scan# 1
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:164 Resp: 70627

Ion	Ratio	Lower	Upper
164	100		
162	100.1	79.4	119.0
160	45.7	36.2	54.4



Instrument :
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ClientSampleId :
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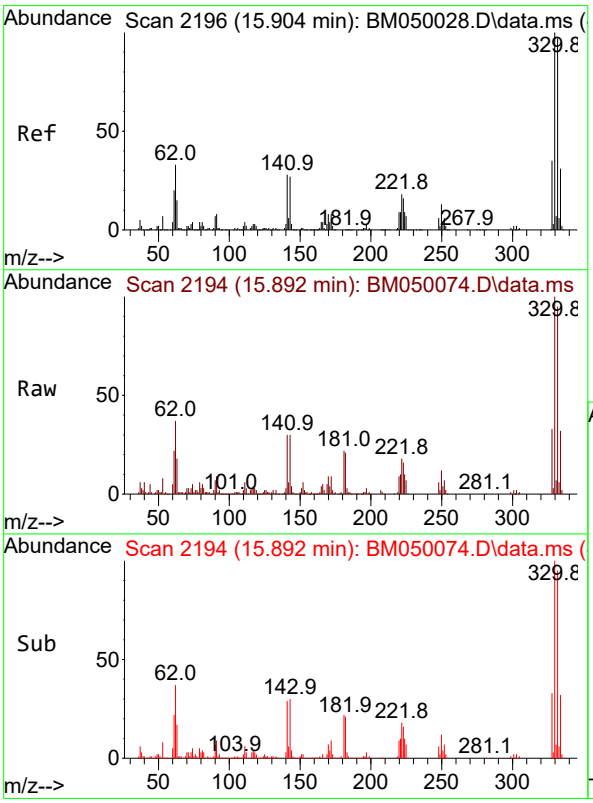
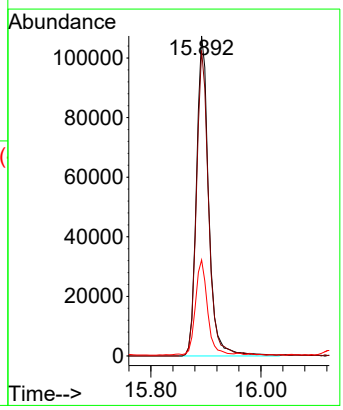
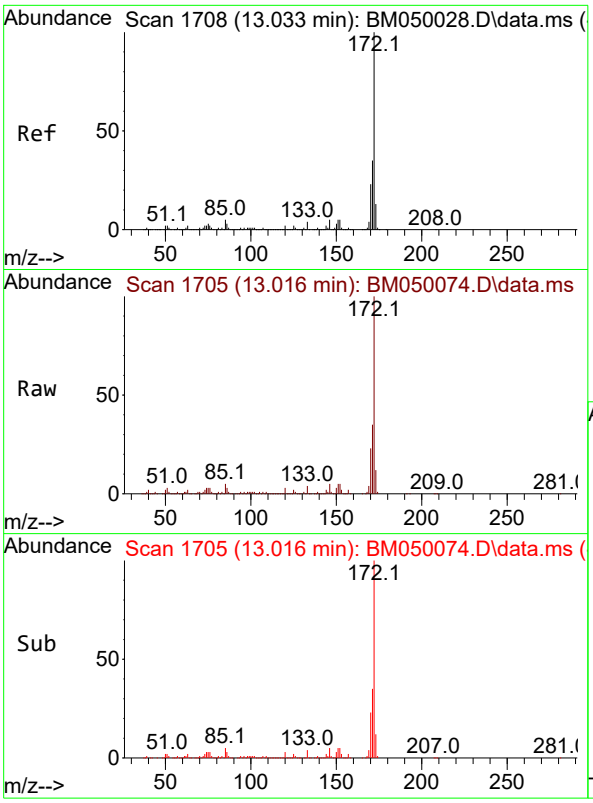


#42
2,4,6-Tribromophenol
Concen: 15.933 ng
RT: 15.892 min Scan# 2194
Delta R.T. -0.012 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:330 Resp: 166388

Ion	Ratio	Lower	Upper
330	100		
332	95.1	77.3	115.9
141	29.5	22.5	33.7

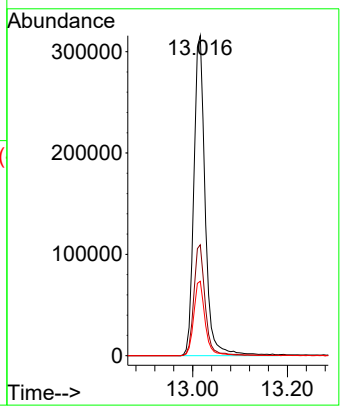




#45
2-Fluorobiphenyl
Concen: 8.808 ng
RT: 13.016 min Scan# 1
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:172 Resp: 52587

Ion	Ratio	Lower	Upper
172	100		
171	34.7	27.8	41.6
170	23.3	18.6	28.0



Instrument :
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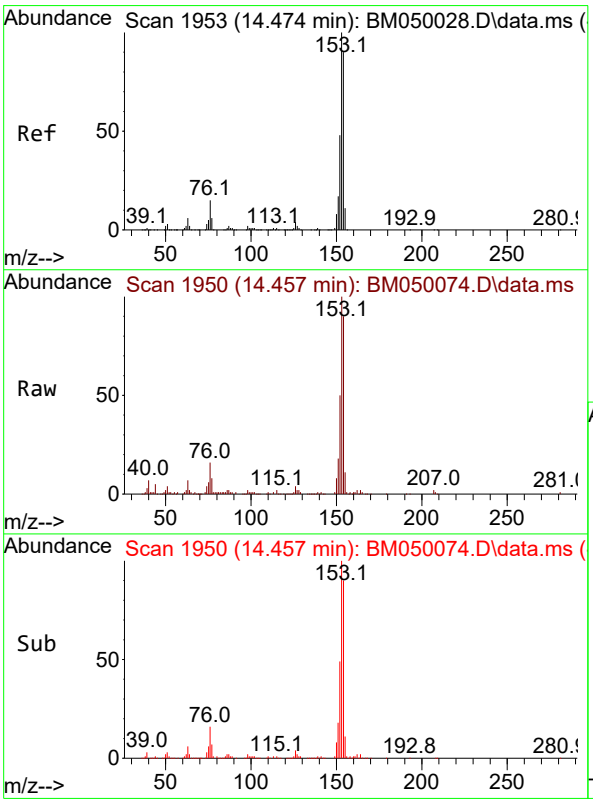
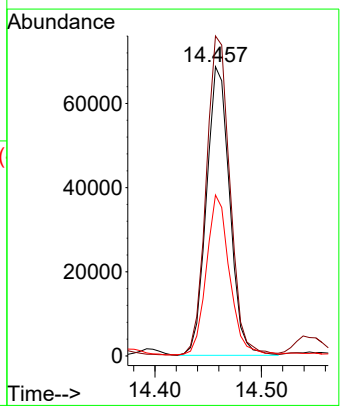
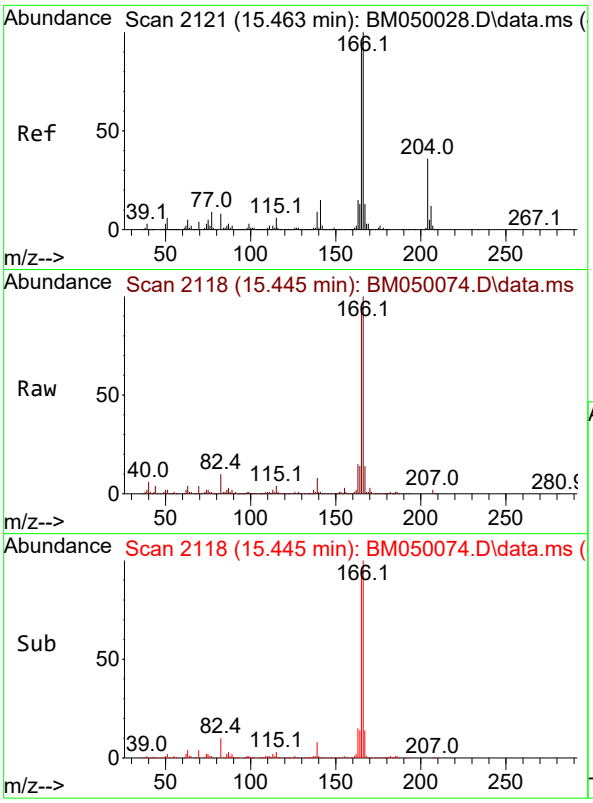


#52
Acenaphthene
Concen: 2.744 ng
RT: 14.457 min Scan# 1950
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:154 Resp: 104131

Ion	Ratio	Lower	Upper
154	100		
153	110.6	89.0	133.4
152	55.6	43.0	64.6





#58
Fluorene
Concen: 2.875 ng
RT: 15.445 min Scan# 2
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:166 Resp: 14856

Ion	Ratio	Lower	Upper
166	100		
165	94.4	76.6	115.0
167	14.4	10.6	16.0

Instrument :
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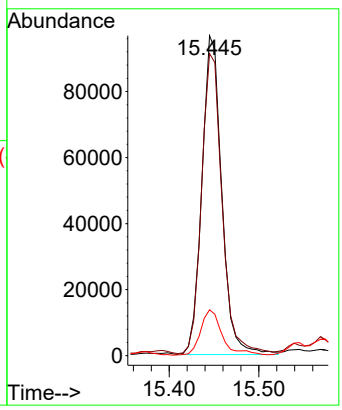
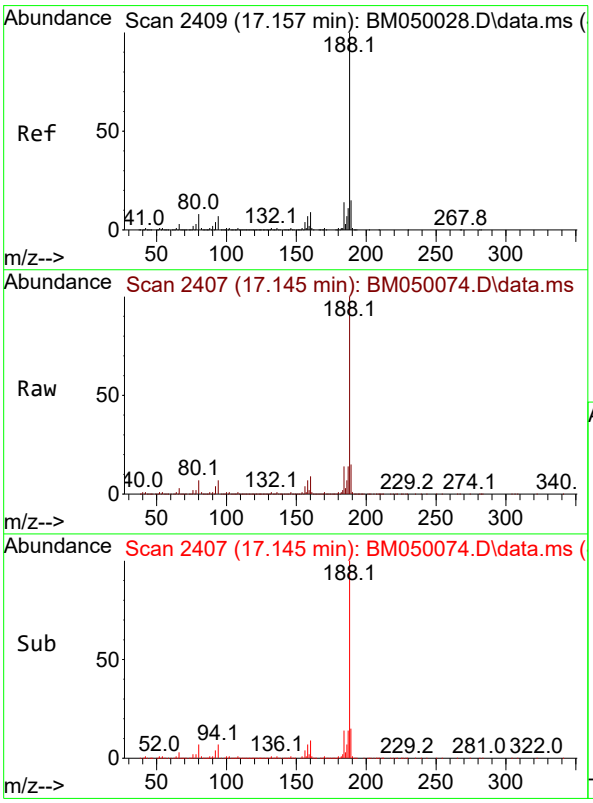
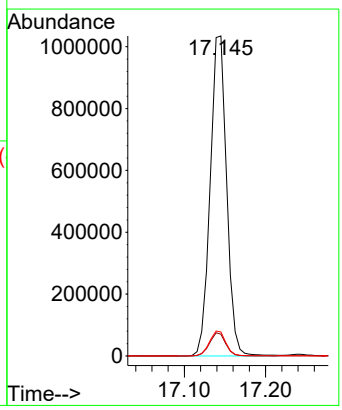


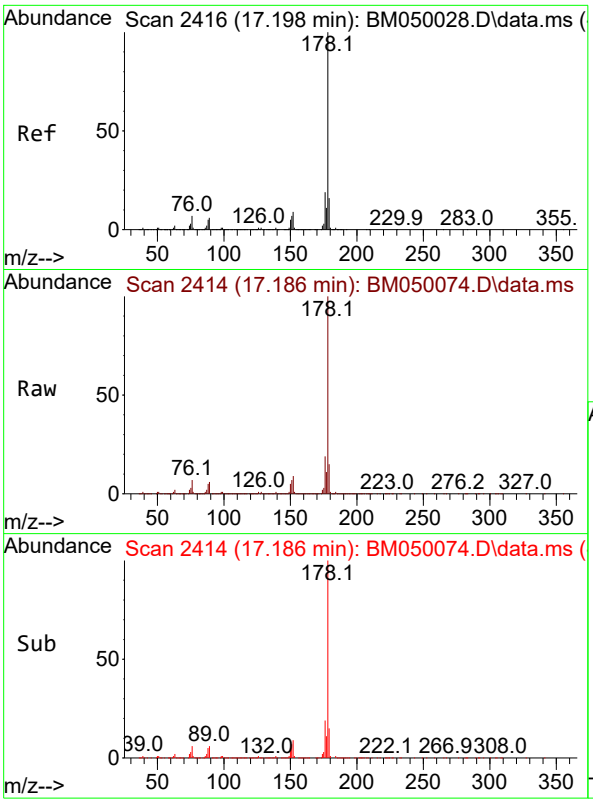


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.145 min Scan# 2407
Delta R.T. -0.012 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:188 Resp: 1455099

Ion	Ratio	Lower	Upper
188	100		
94	6.8	5.7	8.5
80	7.5	6.2	9.4

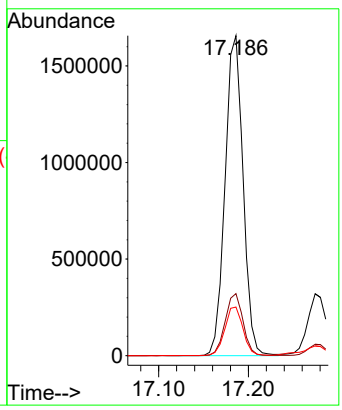




#71
Phenanthrene
Concen: 28.108 ng
RT: 17.186 min Scan# 24
Delta R.T. -0.012 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:178 Resp: 230682

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.3	22.9
179	15.2	12.4	18.6



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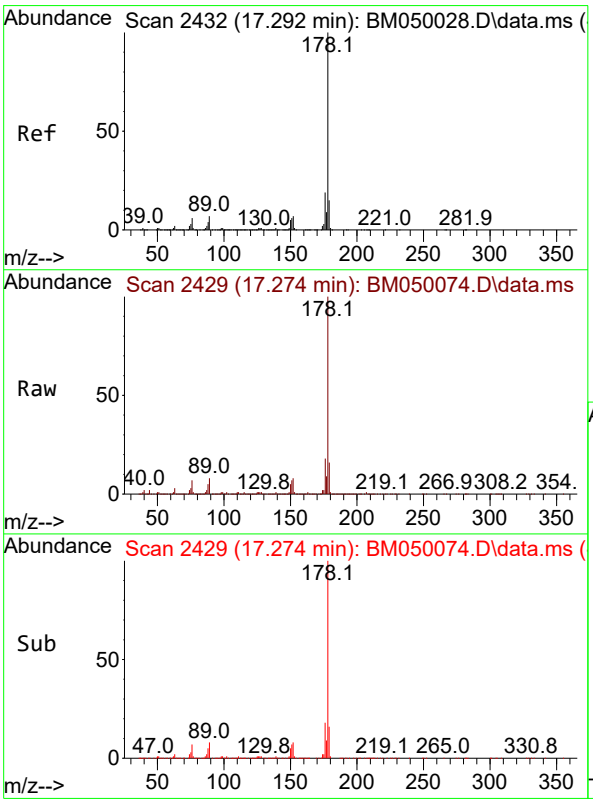
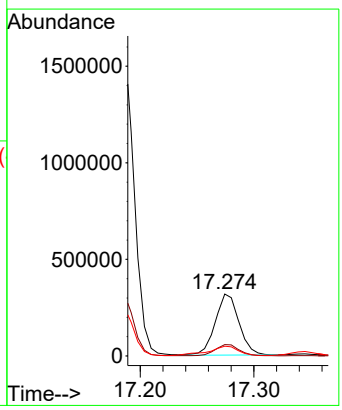
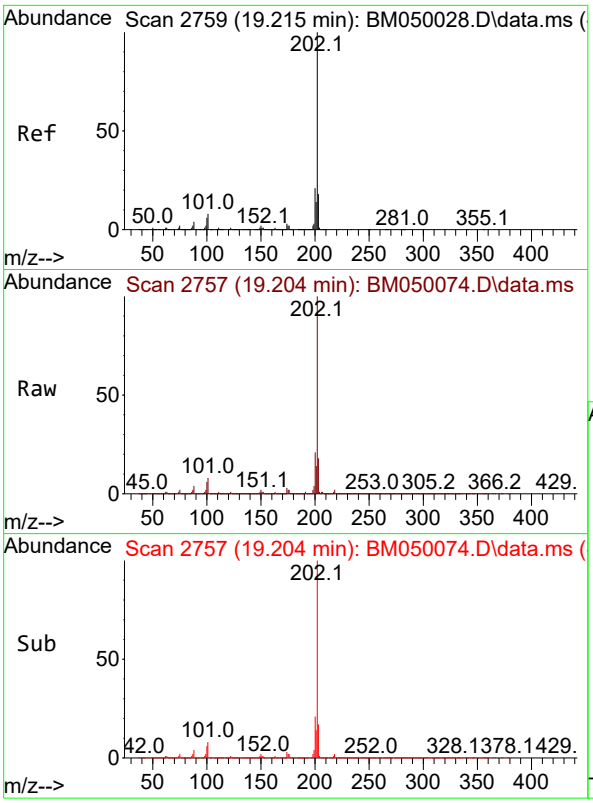


#72
Anthracene
Concen: 5.537 ng
RT: 17.274 min Scan# 2429
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:178 Resp: 459861

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.0	22.4
179	15.8	12.2	18.4

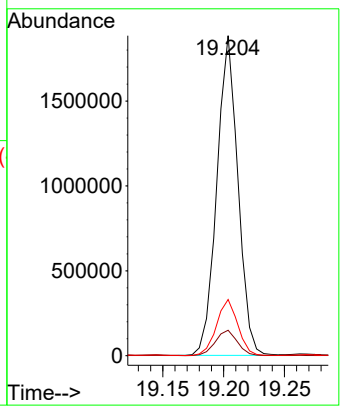




#75
Fluoranthene
Concen: 23.590 ng
RT: 19.204 min Scan# 2
Delta R.T. -0.012 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:202 Resp: 227300

Ion	Ratio	Lower	Upper
202	100		
101	7.9	0.0	28.0
203	17.5	0.0	37.7



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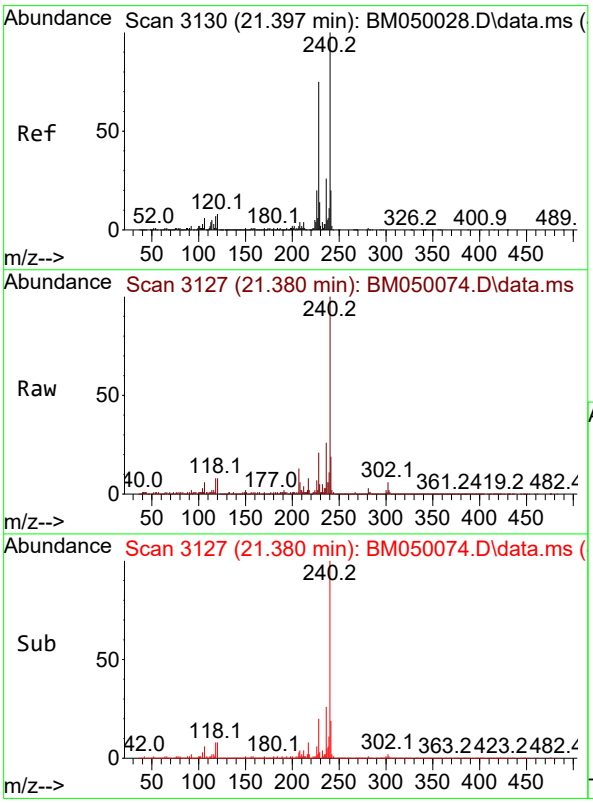
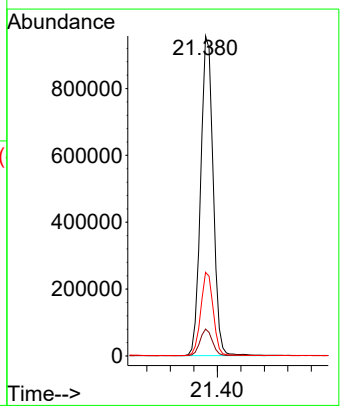
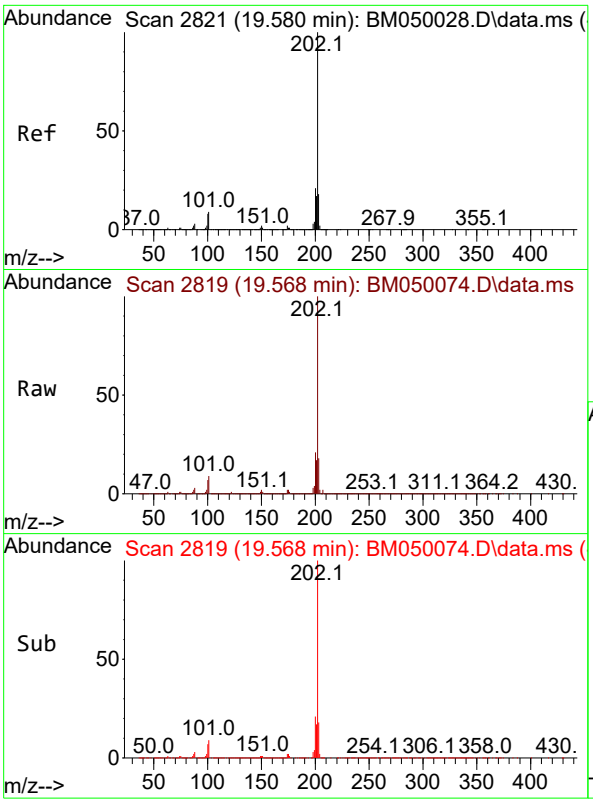


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.380 min Scan# 3127
Delta R.T. -0.017 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:240 Resp: 1407668

Ion	Ratio	Lower	Upper
240	100		
120	8.4	6.5	9.7
236	26.2	20.9	31.3

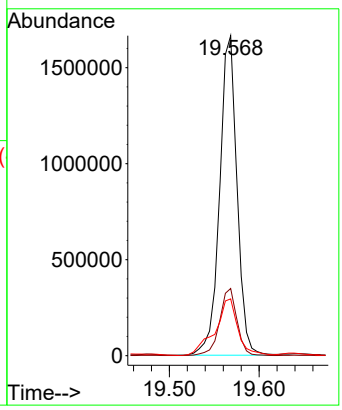




#78
Pyrene
Concen: 22.670 ng
RT: 19.568 min Scan# 2
Delta R.T. -0.012 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:202 Resp: 224096

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.8	14.1	21.1



Instrument :
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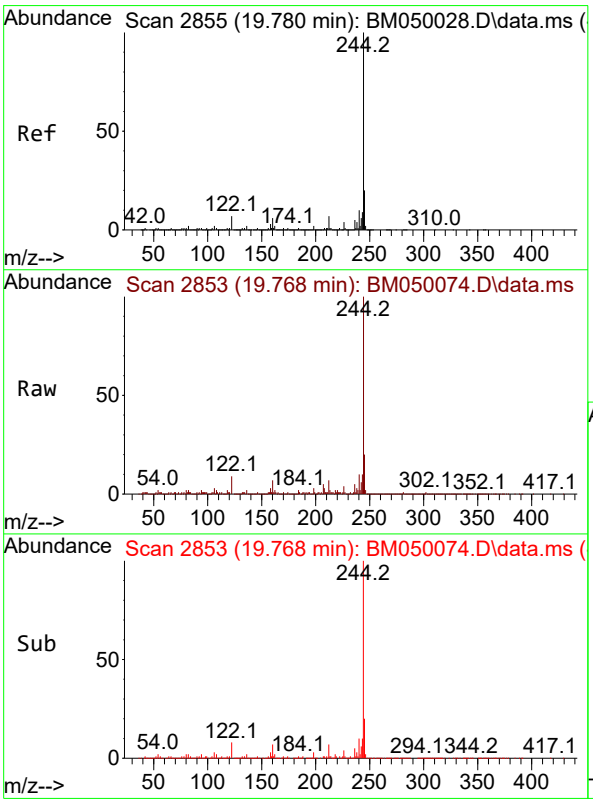
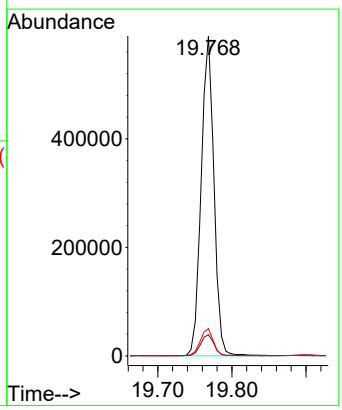
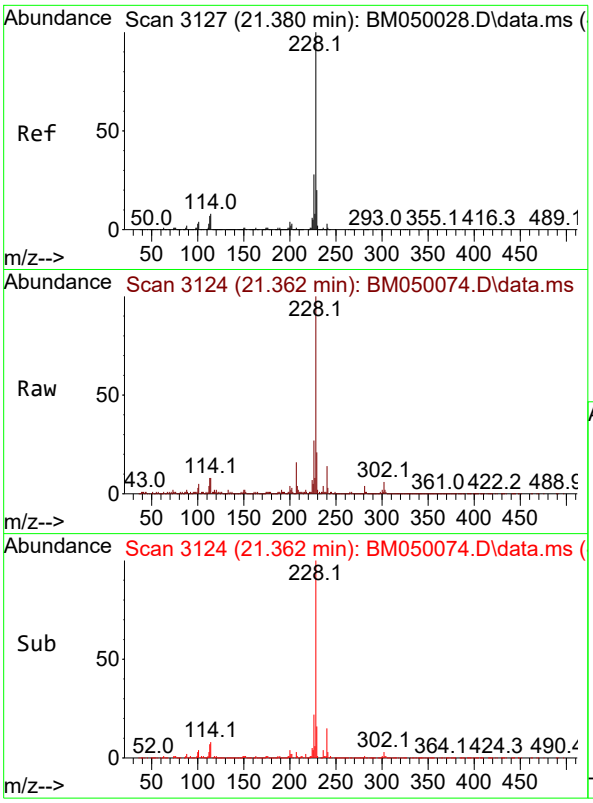


#79
Terphenyl-d14
Concen: 7.392 ng
RT: 19.768 min Scan# 2853
Delta R.T. -0.012 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:244 Resp: 703185

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	8.5	5.6	8.4#

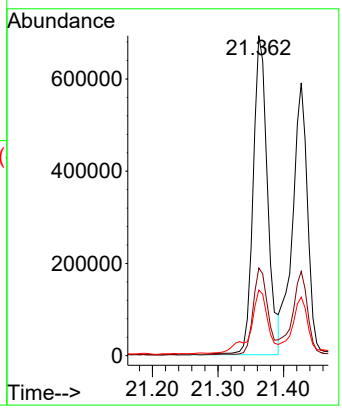




#81
Benzo(a)anthracene
Concen: 10.898 ng
RT: 21.362 min Scan# 3
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:228 Resp: 105644

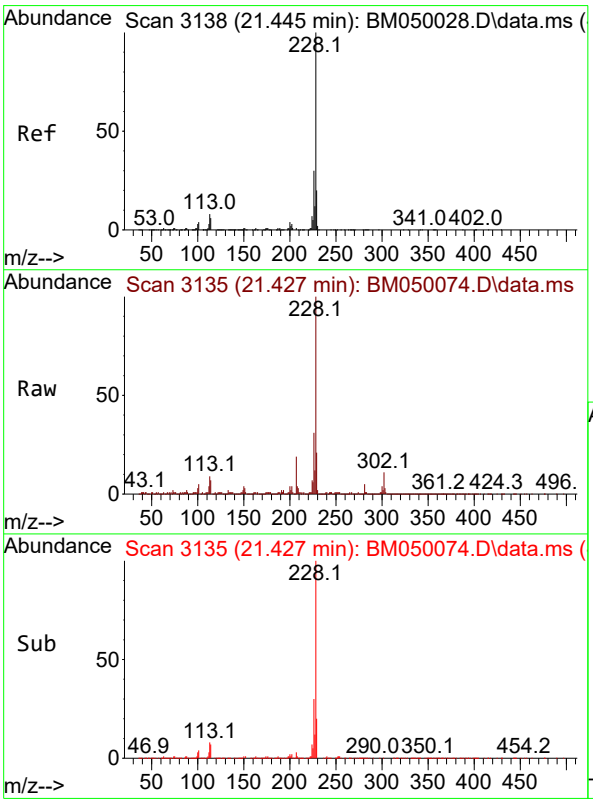
Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.1	33.1
229	20.5	15.7	23.5



Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Manual Integrations
APPROVED

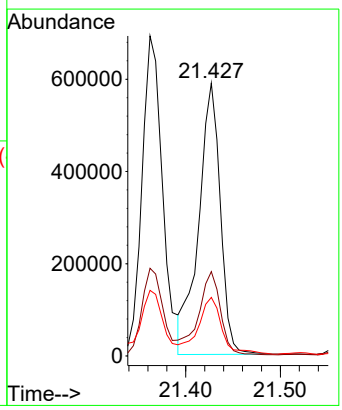
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

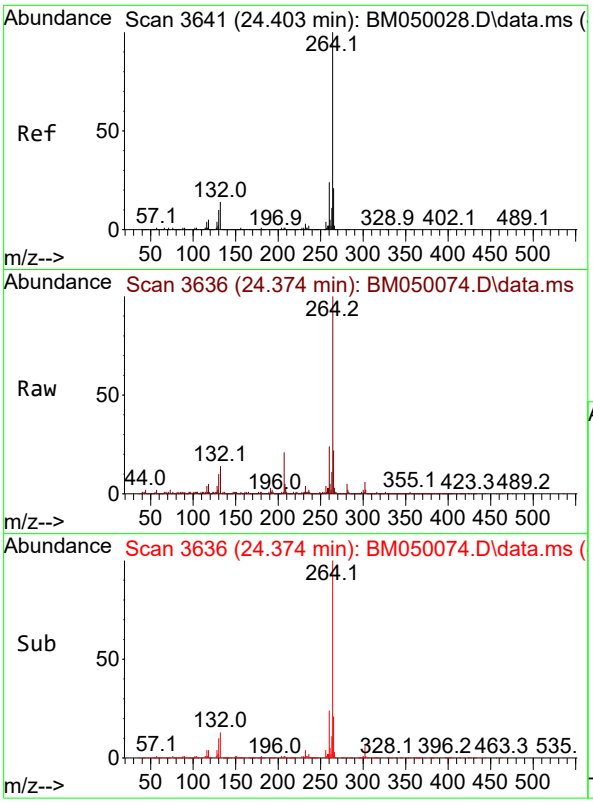


#83
Chrysene
Concen: 10.438 ng
RT: 21.427 min Scan# 3135
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:228 Resp: 936460

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.2	36.2
229	21.5	15.7	23.5

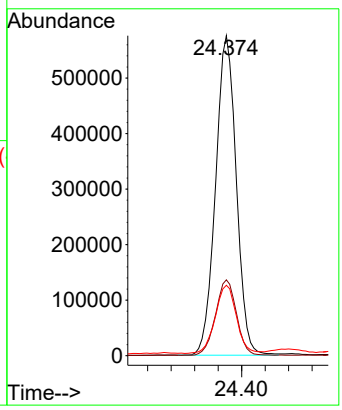




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.374 min Scan# 3
Delta R.T. -0.029 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:264 Resp: 140873

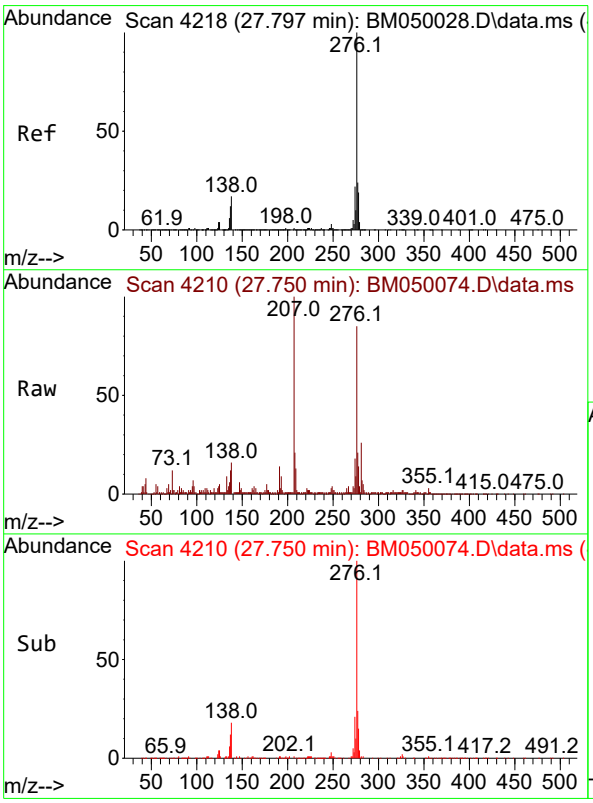
Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.8	28.2
265	22.0	17.0	25.4



Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Manual Integrations
APPROVED

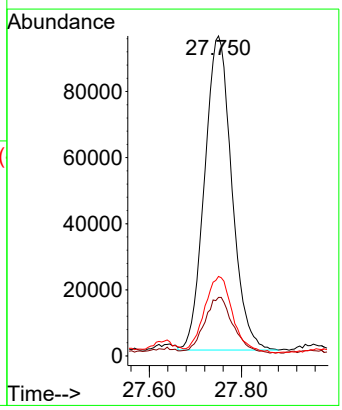
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

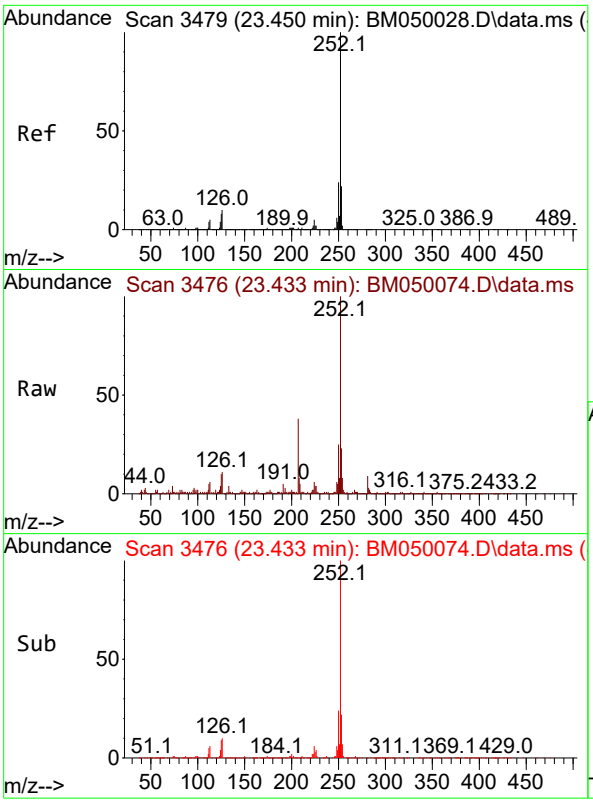


#87
Indeno(1,2,3-cd)pyrene
Concen: 3.704 ng
RT: 27.750 min Scan# 4210
Delta R.T. -0.047 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:276 Resp: 388788

Ion	Ratio	Lower	Upper
276	100		
138	19.1	16.4	24.6
277	25.6	19.8	29.8

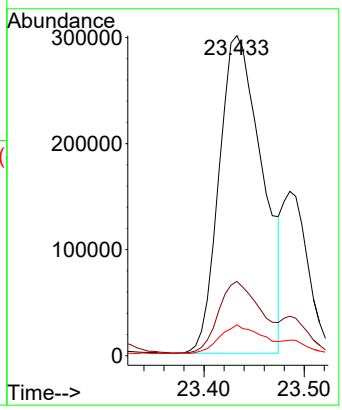




#88
Benzo(b)fluoranthene
Concen: 9.776 ng
RT: 23.433 min Scan# 34
Delta R.T. -0.018 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:252 Resp: 89565

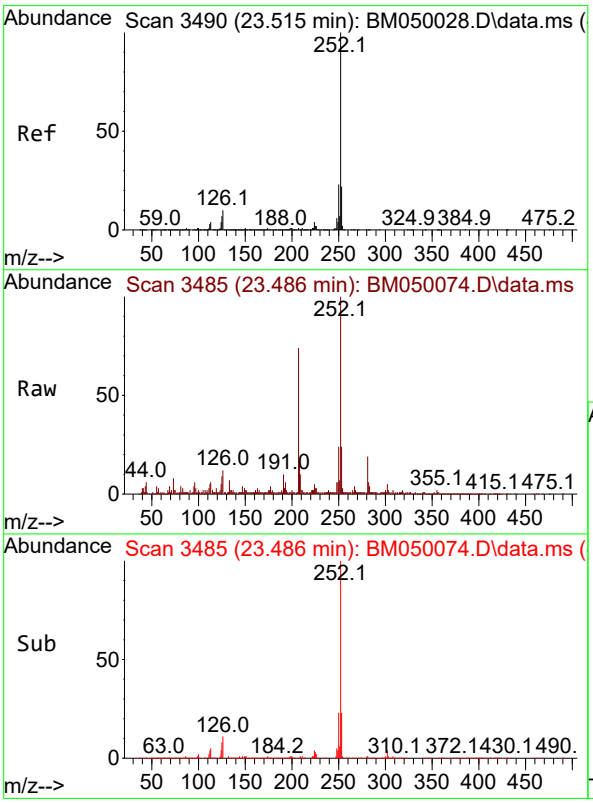
Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.7	26.5
125	9.6	6.1	9.1#



Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Manual Integrations
APPROVED

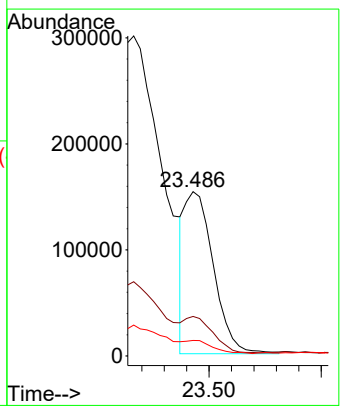
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

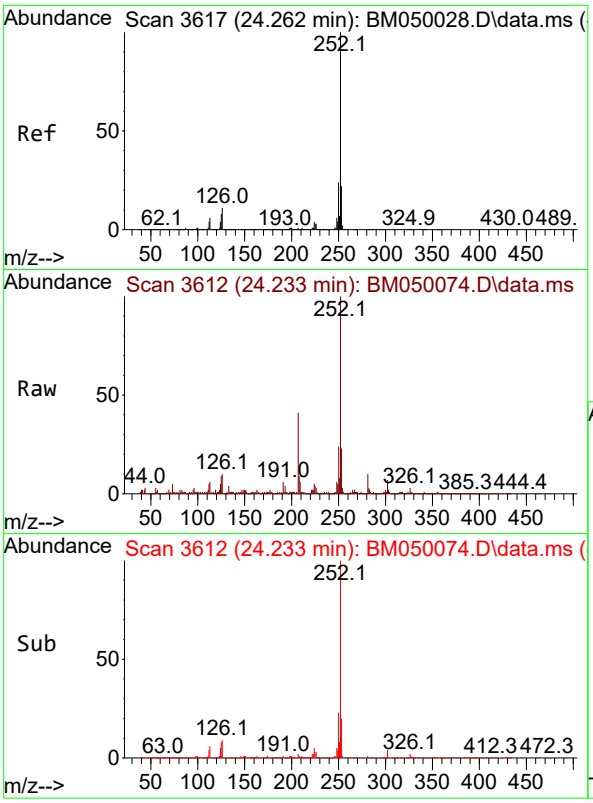


#89
Benzo(k)fluoranthene
Concen: 2.922 ng m
RT: 23.486 min Scan# 3485
Delta R.T. -0.029 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:252 Resp: 270817

Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.4	26.2
125	9.4	5.8	8.8#

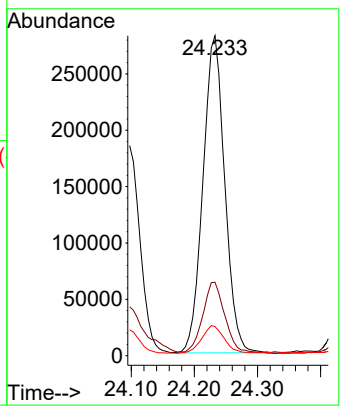




#90
Benzo(a)pyrene
Concen: 7.852 ng
RT: 24.233 min Scan# 3
Delta R.T. -0.029 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:252 Resp: 67377

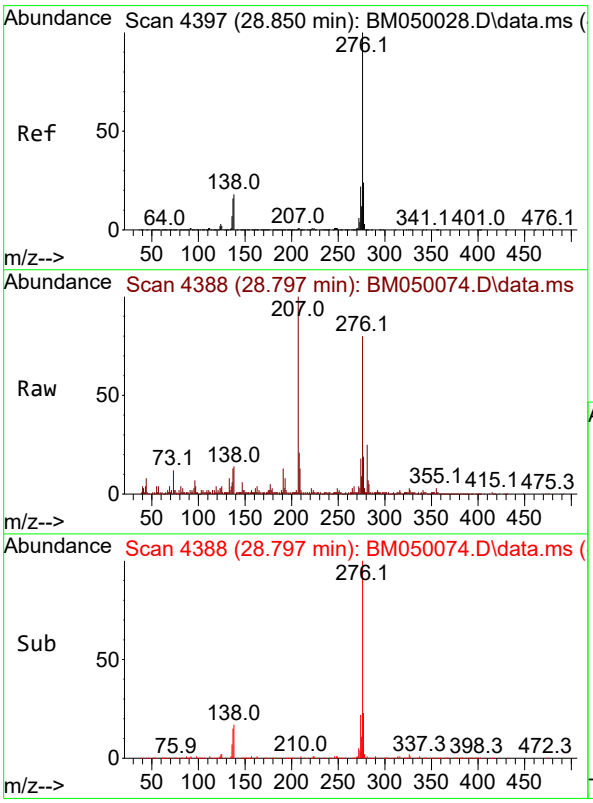
Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.4	26.0
125	9.1	6.6	9.8



Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Manual Integrations
APPROVED

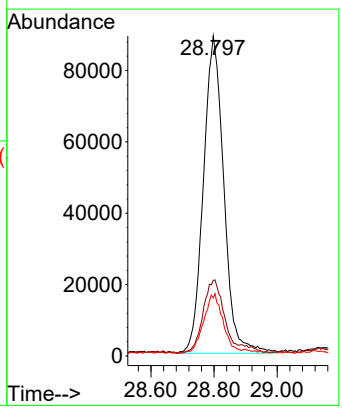
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025



#92
Benzo(g,h,i)perylene
Concen: 4.879 ng
RT: 28.797 min Scan# 4388
Delta R.T. -0.053 min
Lab File: BM050074.D
Acq: 01 May 2025 21:18

Tgt Ion:276 Resp: 399694

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.1	28.7
138	18.1	14.3	21.5



Sample Results: **BM050074.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-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_M\Methods\8270-BM042825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM050074.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.875	316	321	329	rVB	56516	87642	1.31%	0.132%
2	5.346	395	401	415	rBV	473193	800651	11.96%	1.205%
3	6.940	665	672	683	rBV	397156	807770	12.06%	1.215%
4	7.751	802	810	823	rBV	880309	1475970	22.04%	2.221%
5	8.910	1000	1007	1023	rBV	234143	522096	7.80%	0.786%
6	10.539	1273	1284	1290	rBV	1086934	1941892	29.00%	2.922%
7	10.592	1290	1293	1308	rVB	215527	388500	5.80%	0.585%
8	12.216	1562	1569	1580	rBV	87288	173533	2.59%	0.261%
9	12.433	1600	1606	1618	rVB2	76559	143900	2.15%	0.217%
10	13.016	1698	1705	1718	rBV	841792	1407252	21.01%	2.117%
11	13.563	1792	1798	1808	rBV4	34894	101435	1.51%	0.153%
12	13.722	1818	1825	1830	rBV	76010	139559	2.08%	0.210%
13	13.775	1830	1834	1843	rVB	44755	75279	1.12%	0.113%
14	14.122	1884	1893	1899	rVB2	48411	79346	1.18%	0.119%
15	14.392	1932	1939	1946	rBV	1902359	2863921	42.77%	4.309%
16	14.457	1946	1950	1959	rVB	281927	445373	6.65%	0.670%
17	14.704	1984	1992	1998	rBV2	39876	78745	1.18%	0.118%
18	14.798	2003	2008	2015	rVV	185713	301922	4.51%	0.454%
19	15.186	2066	2074	2077	rBV4	35020	76689	1.15%	0.115%
20	15.445	2111	2118	2130	rVB	310028	509385	7.61%	0.766%
21	15.569	2136	2139	2142	rVV	54977	78772	1.18%	0.119%
22	15.610	2142	2146	2151	rVB3	64611	93482	1.40%	0.141%
23	15.757	2164	2171	2177	rVB3	131715	279534	4.17%	0.421%
24	15.892	2188	2194	2203	rBV	823846	1278156	19.09%	1.923%
25	16.127	2229	2234	2239	rVB5	52125	89845	1.34%	0.135%
26	16.427	2278	2285	2286	rBV3	63930	90552	1.35%	0.136%
27	16.451	2286	2289	2294	rVV2	87093	139041	2.08%	0.209%
28	16.498	2294	2297	2303	rVB2	64499	99263	1.48%	0.149%
29	16.598	2311	2314	2319	rVB	57294	83593	1.25%	0.126%
30	16.804	2344	2349	2356	rVB	118853	198991	2.97%	0.299%
31	16.892	2356	2364	2369	rBV4	70850	190197	2.84%	0.286%
32	16.963	2371	2376	2384	rVB	198057	296631	4.43%	0.446%
33	17.145	2400	2407	2410	rBV	2374329	3423432	51.12%	5.151%
34	17.186	2410	2414	2421	rVV	3645905	5052470	75.45%	7.602%
35	17.274	2421	2429	2435	rVV	690163	1065076	15.90%	1.603%
36	17.339	2435	2440	2445	rVV2	59001	114601	1.71%	0.172%

Sample Results: **BM050074.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-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_M\Methods\8270-BM042825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	17.551	2470	2476	2488	rBV	213620	418307	6.25%	0.629%
38	17.721	2501	2505	2515	rVB2	107652	192260	2.87%	0.289%
39	17.863	2526	2529	2538	rVB	68943	116758	1.74%	0.176%
40	18.015	2550	2555	2560	rVV	608382	960993	14.35%	1.446%
41	18.068	2560	2564	2569	rVV	805315	1139408	17.01%	1.714%
42	18.151	2573	2578	2582	rVV	240360	369407	5.52%	0.556%
43	18.210	2583	2588	2592	rVV2	696442	1280905	19.13%	1.927%
44	18.251	2592	2595	2602	rVB	445108	598235	8.93%	0.900%
45	18.327	2605	2608	2612	rBV4	49784	73492	1.10%	0.111%
46	18.421	2620	2624	2628	rBV2	50551	75785	1.13%	0.114%
47	18.521	2636	2641	2645	rBV	298399	401007	5.99%	0.603%
48	18.568	2645	2649	2657	rVB2	235703	359664	5.37%	0.541%
49	18.645	2659	2662	2667	rBV	76313	94727	1.41%	0.143%
50	18.768	2679	2683	2688	rVB	167519	203532	3.04%	0.306%
51	18.821	2688	2692	2695	rBV	121410	153841	2.30%	0.231%
52	18.857	2695	2698	2703	rVB	122200	151971	2.27%	0.229%
53	18.939	2707	2712	2716	rBV	388886	606856	9.06%	0.913%
54	19.080	2731	2736	2744	rBV3	216740	472279	7.05%	0.711%
55	19.204	2752	2757	2764	rVB	4044671	4883340	72.92%	7.348%
56	19.304	2771	2774	2780	rBV3	118120	158439	2.37%	0.238%
57	19.445	2795	2798	2802	rBV	126980	158360	2.36%	0.238%
58	19.568	2809	2819	2827	rBV	3487020	5637936	84.19%	8.483%
59	19.645	2828	2832	2838	rVB2	203856	334977	5.00%	0.504%
60	19.768	2848	2853	2857	rVB	1466269	1765681	26.37%	2.657%
61	19.898	2869	2875	2881	rBV4	262502	649516	9.70%	0.977%
62	20.027	2893	2897	2899	rBV4	202316	321166	4.80%	0.483%
63	20.062	2900	2903	2909	rVB	593518	744341	11.12%	1.120%
64	20.162	2916	2920	2924	rBV	387751	463087	6.92%	0.697%
65	20.221	2926	2930	2934	rVV2	374663	516971	7.72%	0.778%
66	20.362	2951	2954	2958	rBV	264192	292796	4.37%	0.441%
67	20.409	2958	2962	2966	rBV	285092	375025	5.60%	0.564%
68	20.815	3029	3031	3039	rVB	273133	362991	5.42%	0.546%
69	21.027	3064	3067	3070	rBV	227467	248320	3.71%	0.374%
70	21.380	3120	3127	3132	rBV2	3068405	6696712	100.00%	10.077%
71	21.427	3132	3135	3147	rVB	1600657	2478372	37.01%	3.729%
72	23.433	3470	3476	3482	rBV	704415	1877188	28.03%	2.825%
73	24.097	3585	3589	3603	rVB	428967	977947	14.60%	1.472%
74	24.233	3606	3612	3623	rVB	640913	1521834	22.73%	2.290%
75	24.374	3629	3636	3644	rVB	1414495	3329611	49.72%	5.010%

Sample Results: **BM050074.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-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_M\Methods\8270-BM042825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Sum of corrected areas: 66458533

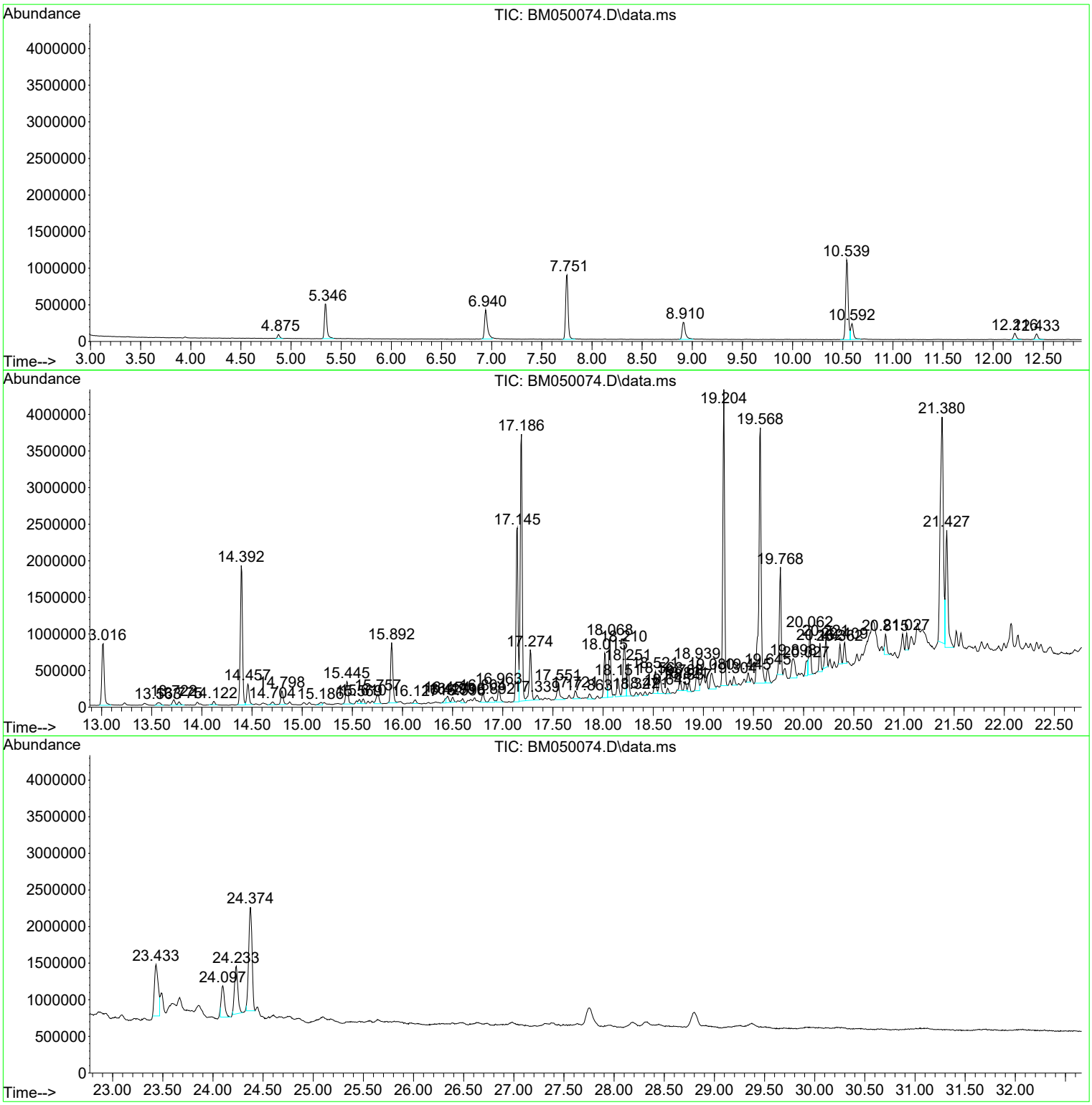
Sample Results: **BM050074.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050074.D
Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-170-SB01

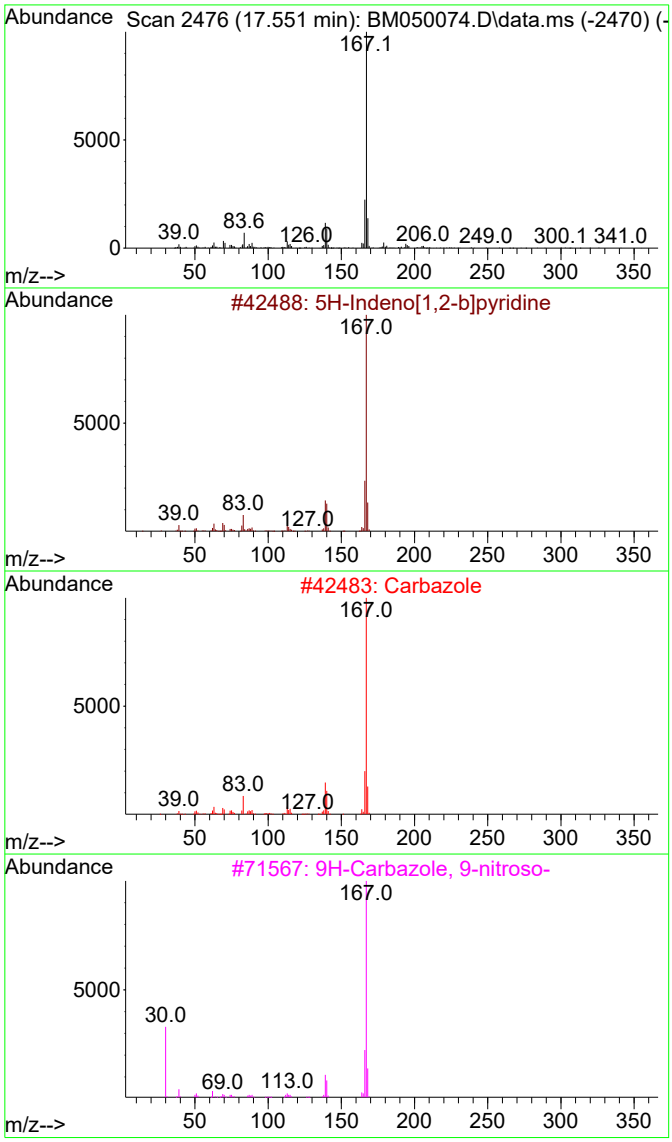
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

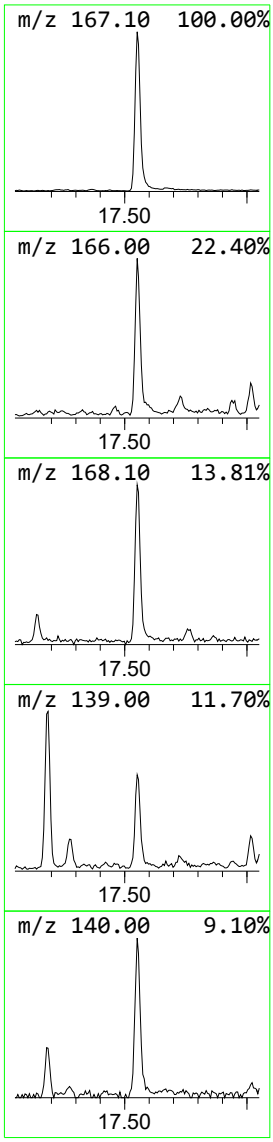
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 5H-Indeno[1,2-b]pyridine Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.551	2.44 ng	418307	Phenanthrene-d10	17.145

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5H-Indeno[1,2-b]pyridine	167	C12H9N	000244-99-5	95
2	Carbazole	167	C12H9N	000086-74-8	90
3	9H-Carbazole, 9-nitroso-	196	C12H8N2O	002788-23-0	86
4	4H-1,3,2-Dioxaborin, 2-ethyl-4-m...	210	C12H23BO2	074421-10-6	80
5	9H-Carbazole-9-methanol	197	C13H11NO	002409-36-1	80





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Acq On : 01 May 2025 21:18
Operator : RC/JU
Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
B-170-SB01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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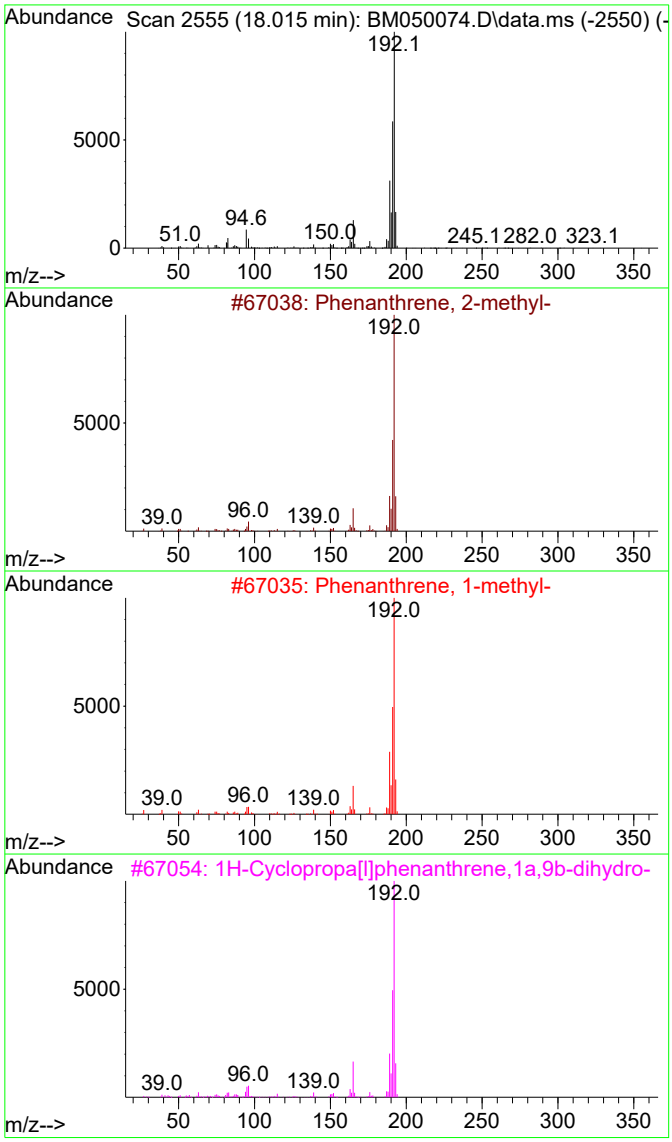
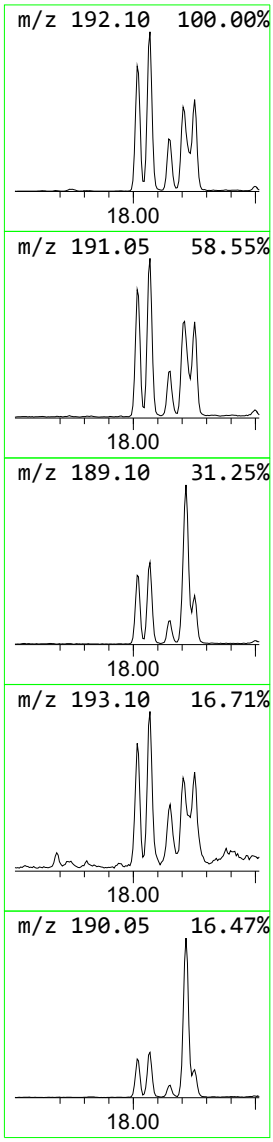
Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.015	5.61 ng	960993	Phenanthrene-d10	17.145

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93





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Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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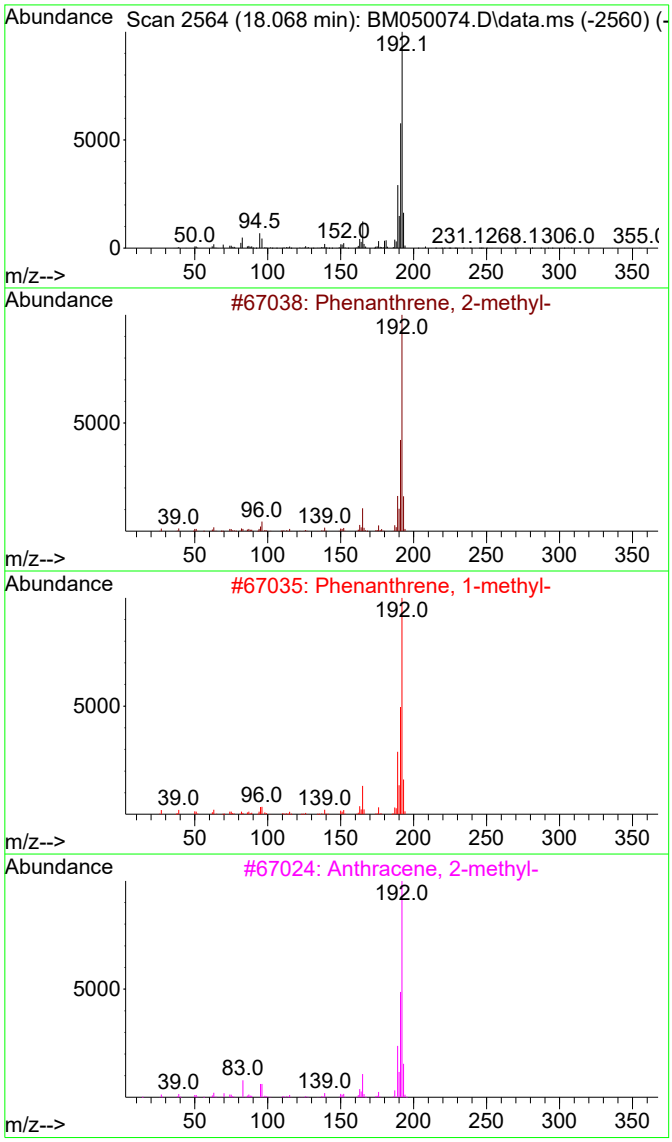
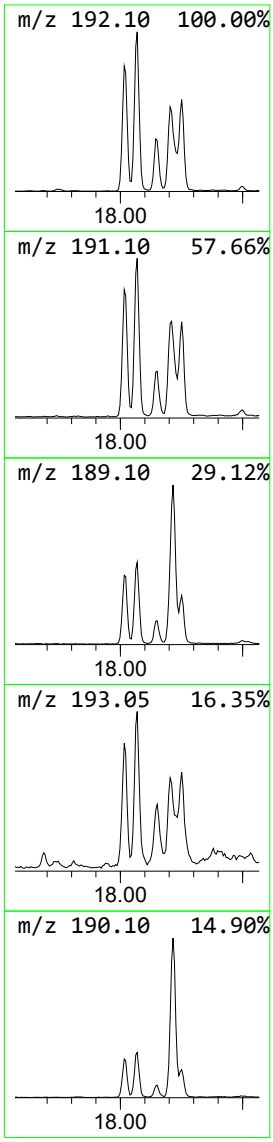
Peak Number 4 Phenanthrene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.068	6.66 ng	1139410	Phenanthrene-d10	17.145

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





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Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

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

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

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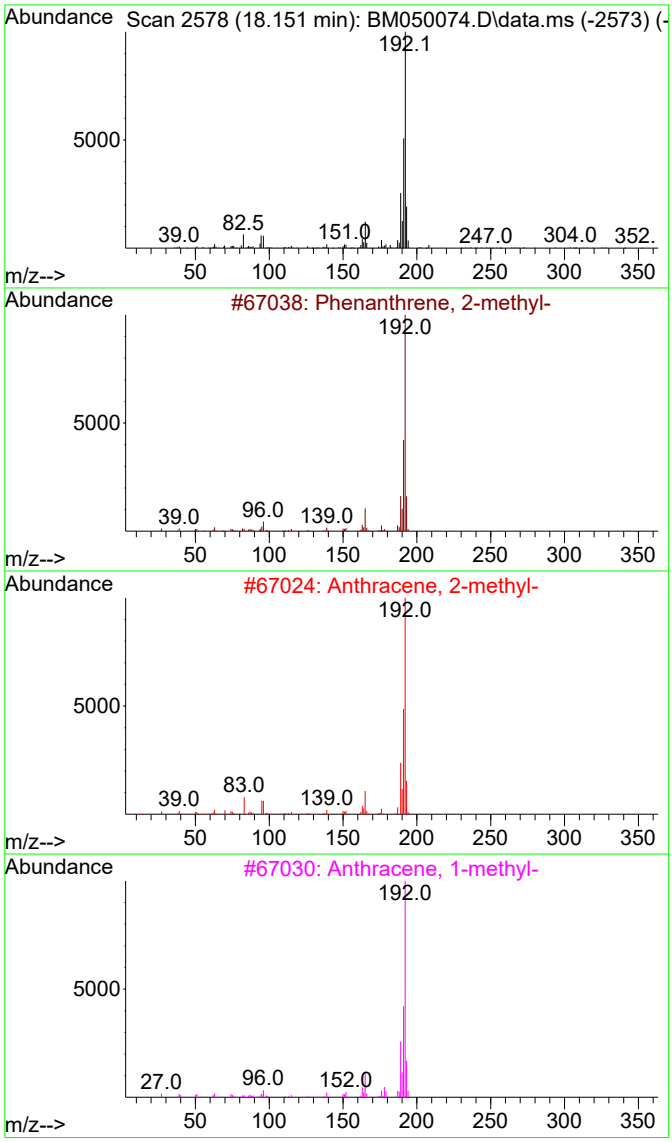
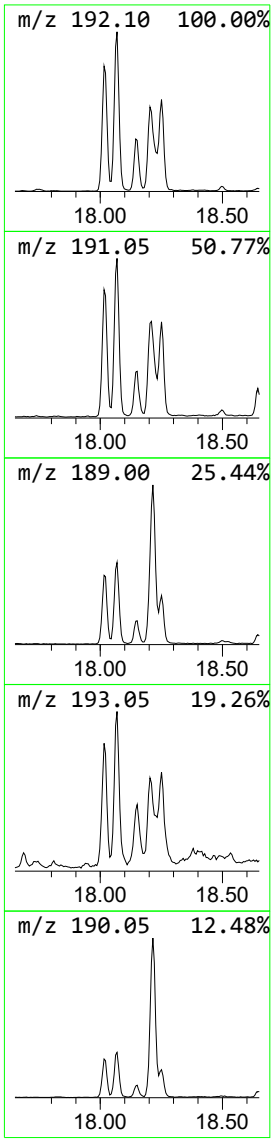
Peak Number 5 Anthracene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.151	2.16 ng	369407	Phenanthrene-d10	17.145

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93





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Sample : Q1901-03 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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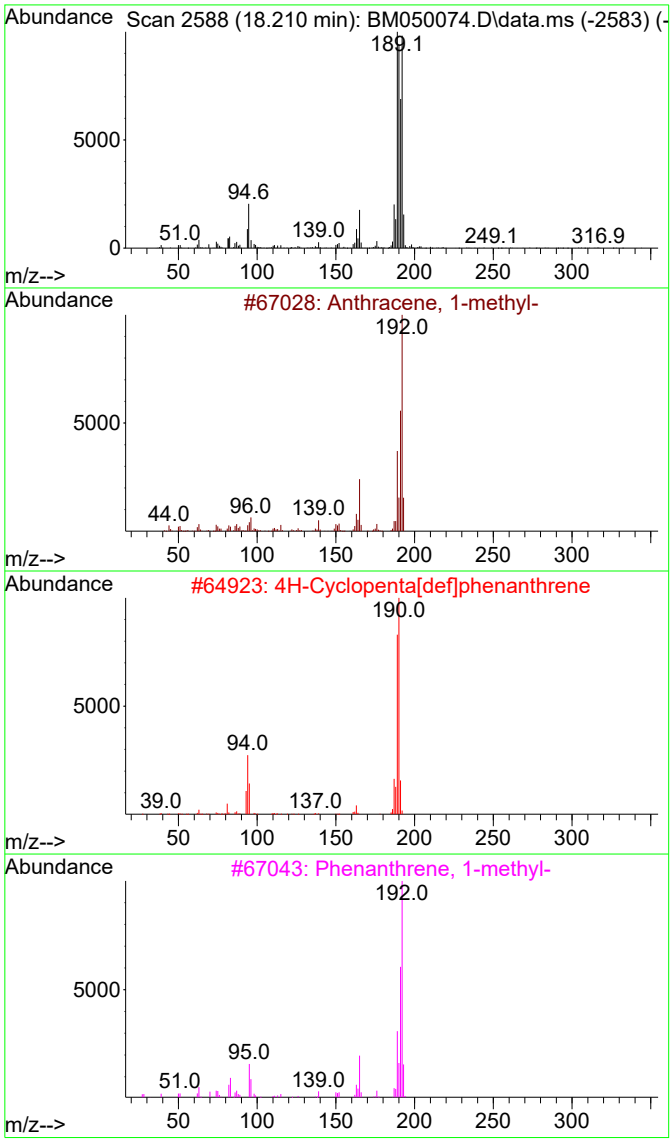
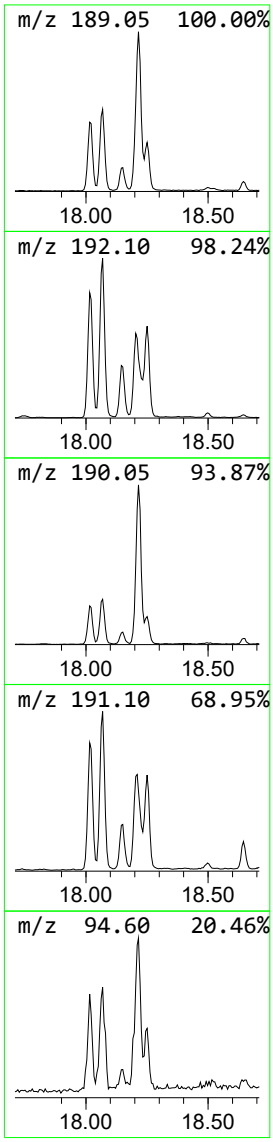
Peak Number 6 Anthracene, 1-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.210	7.48 ng	1280910	Phenanthrene-d10	17.145

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	81
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	55
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	46





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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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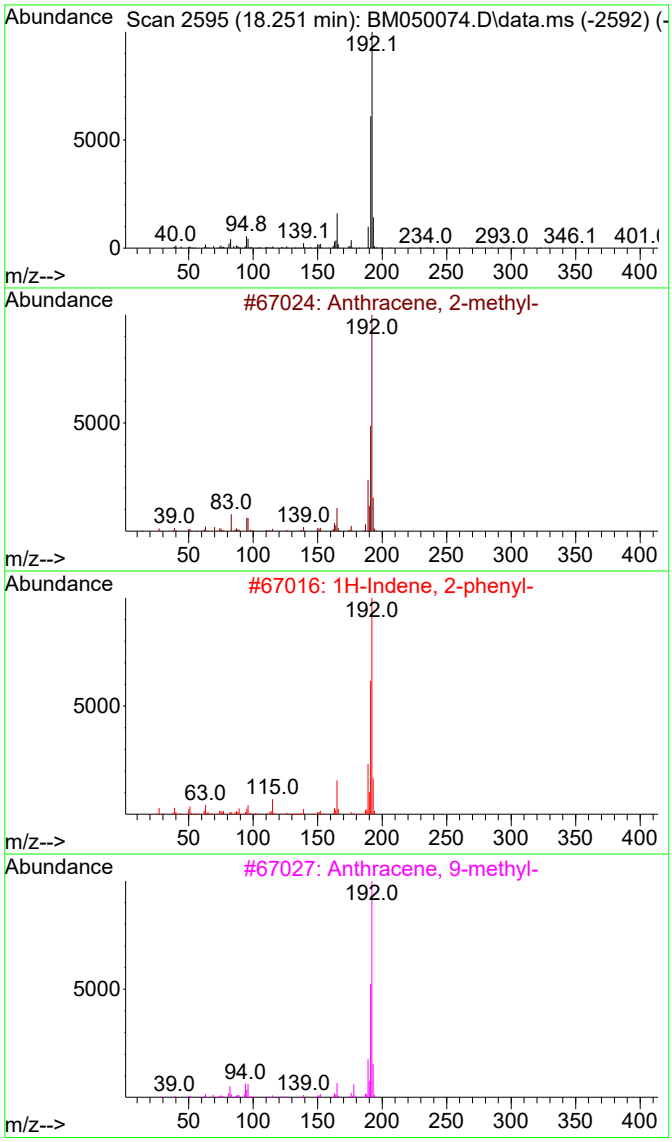
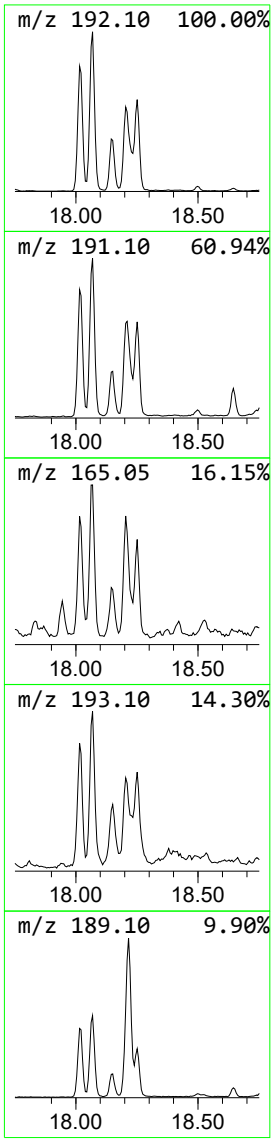
Peak Number 7 1H-Indene, 2-phenyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.251	3.49 ng	598235	Phenanthrene-d10	17.145

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	87
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	87
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	87





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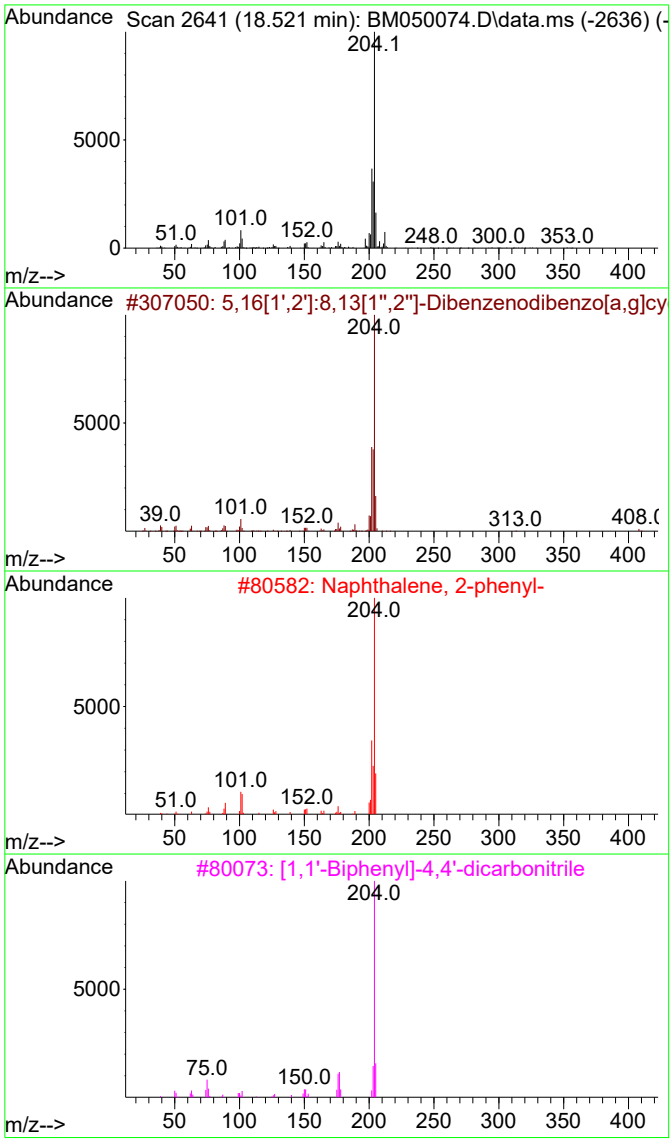
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

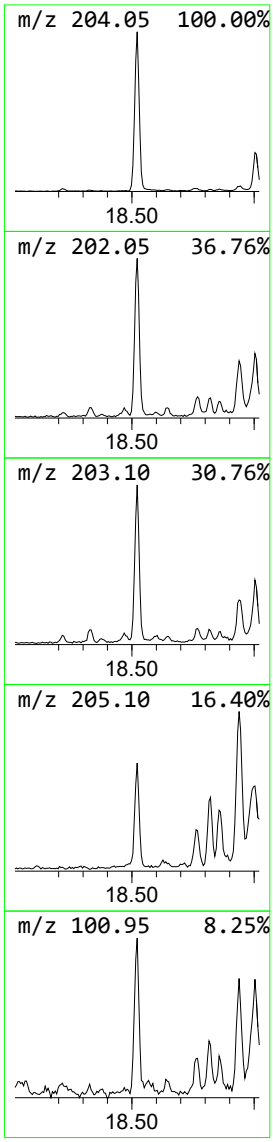
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.521	2.34 ng	401007	Phenanthrene-d10	17.145

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	52
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	52
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	50





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

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

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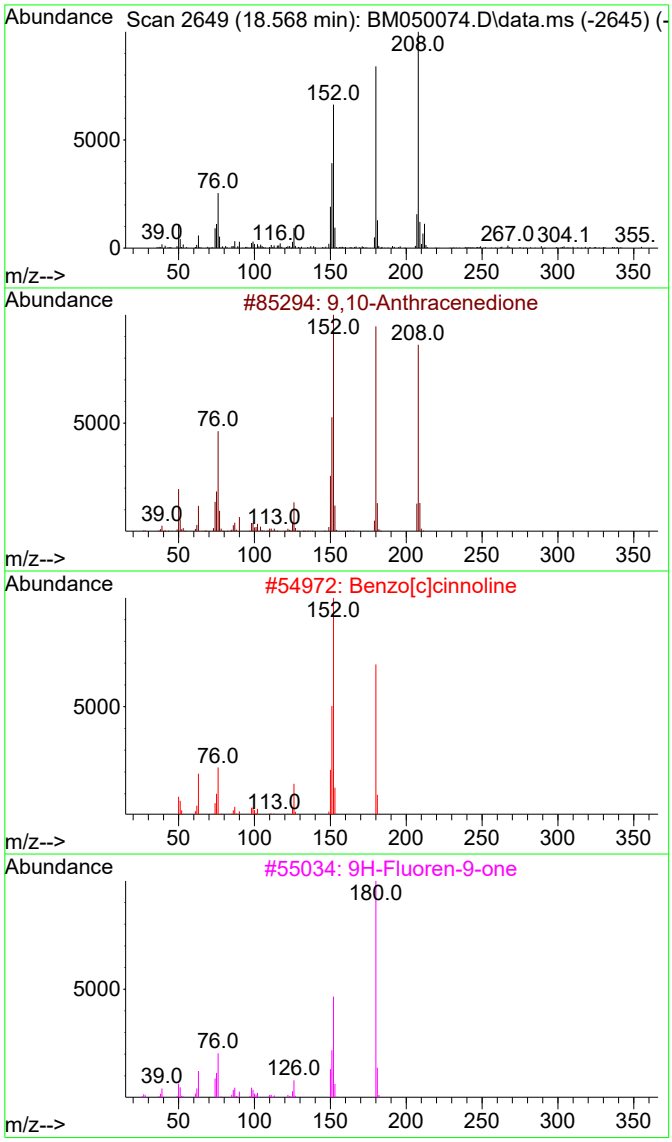
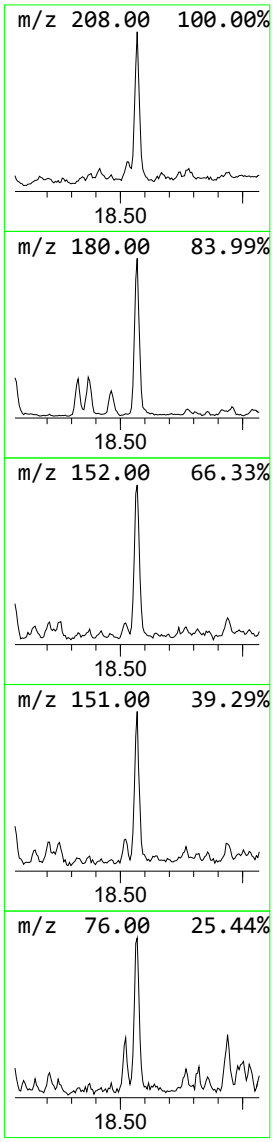
Peak Number 9 9,10-Anthracenedione Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.568	2.10 ng	359664	Phenanthrene-d10	17.145

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	60
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	52
4	1,4-Anthracenedione	208	C14H8O2	000635-12-1	50
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	50





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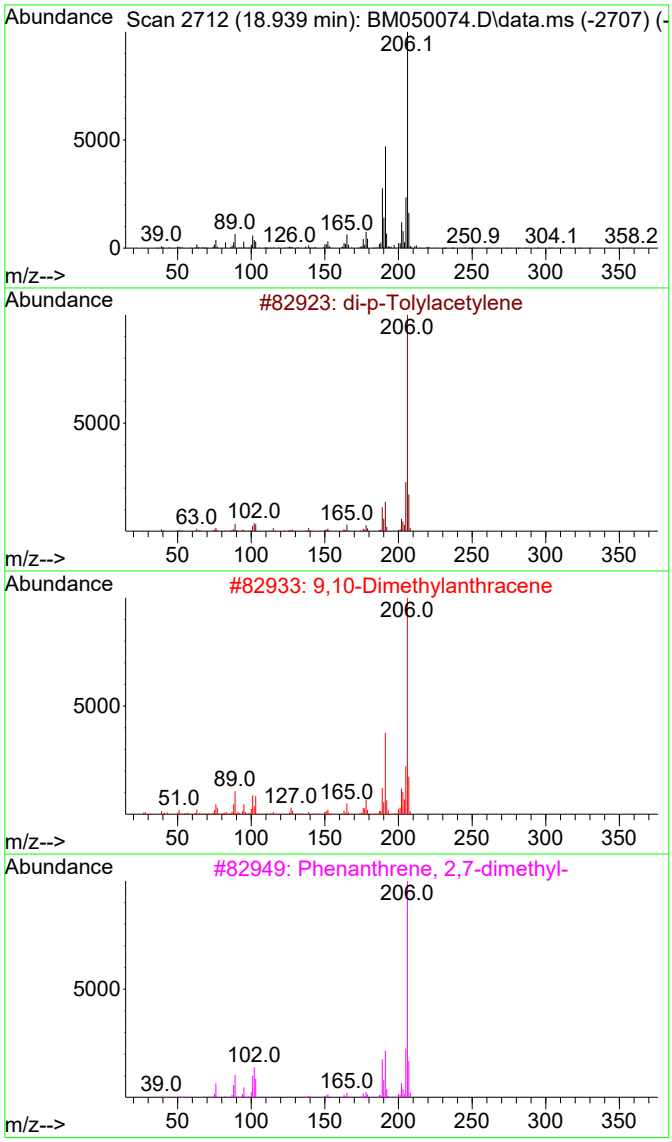
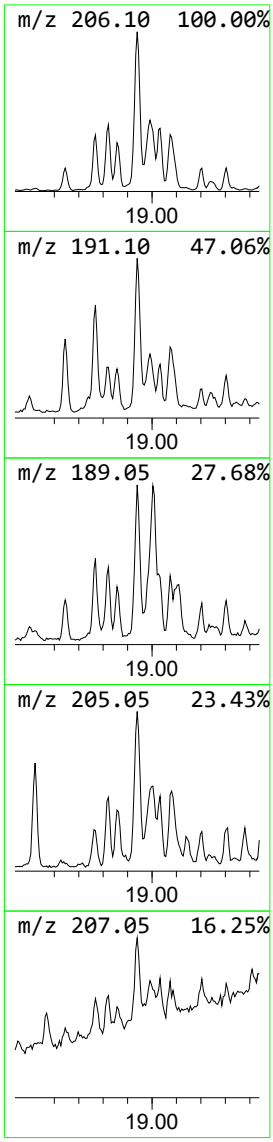
Peak Number 10 di-p-Tolylacetylene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.939	3.55 ng	606856	Phenanthrene-d10	17.145

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90
4	3,4-Dimethylphenanthrene	206	C16H14	1000452-24-5	90
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87





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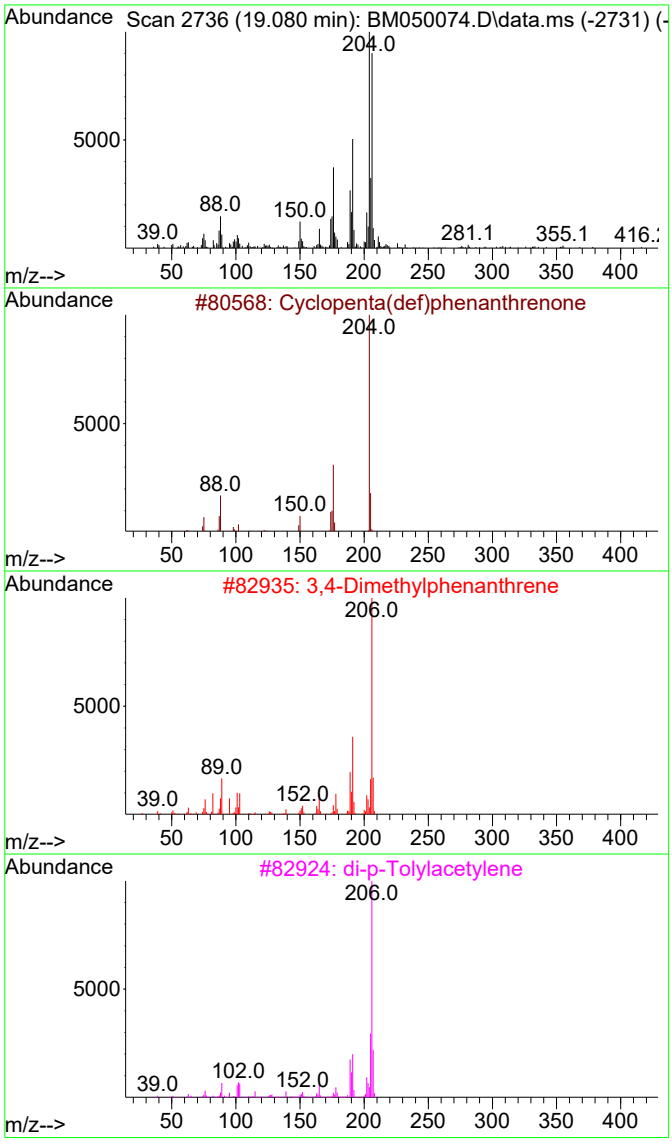
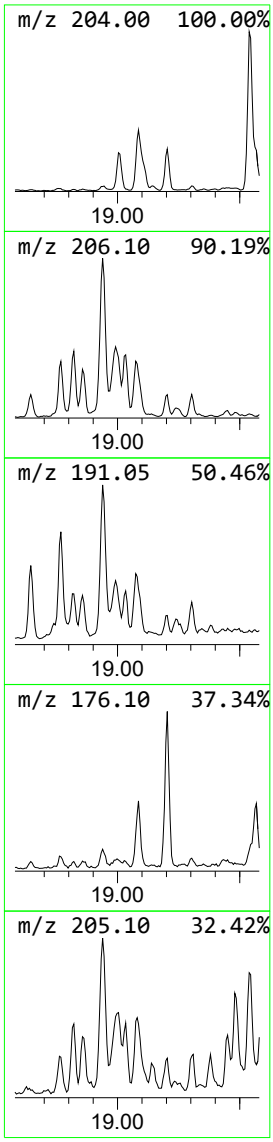
Peak Number 11 Cyclopenta(def)phenanthrenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.080	2.76 ng	472279	Phenanthrene-d10	17.145

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	78
2	3,4-Dimethylphenanthrene	206	C16H14	1000452-24-5	46
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	46
4	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	46
5	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	45





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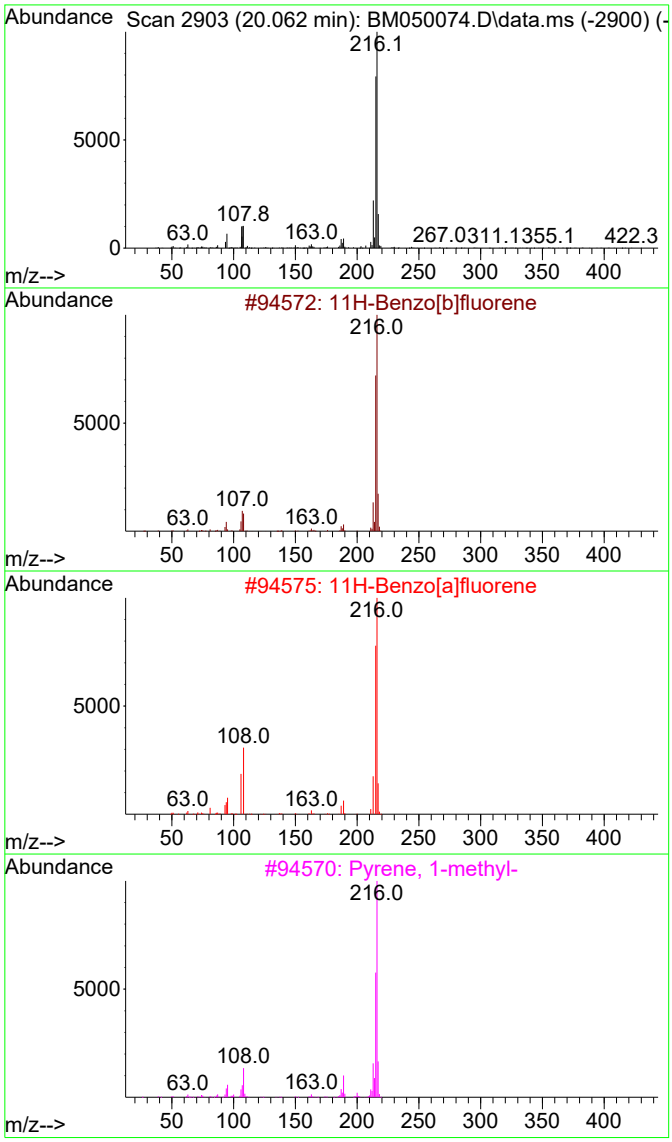
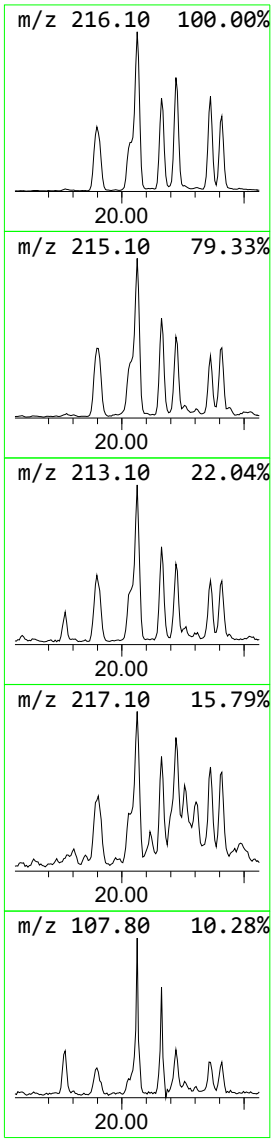
Peak Number 12 11H-Benzo[b]fluorene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.062	2.22 ng	744341	Chrysene-d12	21.380

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	80
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	74
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	58





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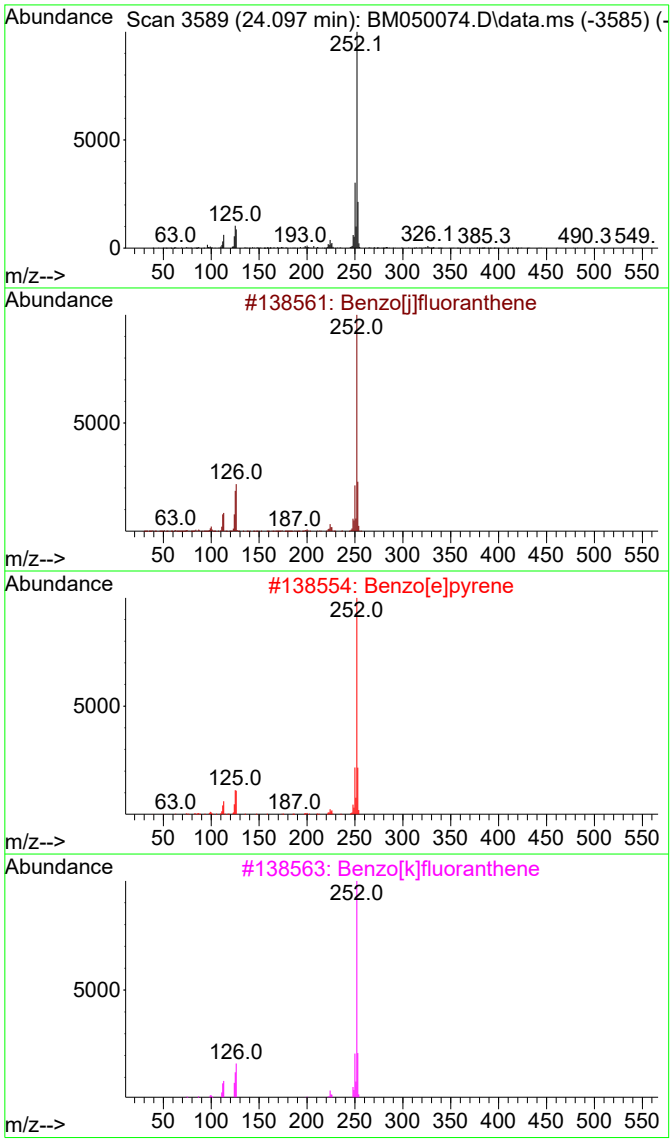
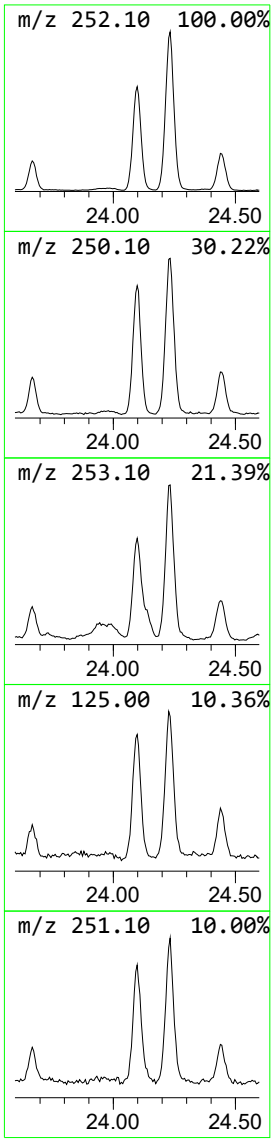
Peak Number 13 Benzo[j]fluoranthene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.097	5.87 ng	977947	Perylene-d12	24.374

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[j]fluoranthene	252	C20H12	000205-82-3	96
2	Benzo[e]pyrene	252	C20H12	000192-97-2	96
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Perylene	252	C20H12	000198-55-0	91





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ALS Vial : 14 Sample Multiplier: 1

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ClientSampleId :
B-170-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.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
5H-Indeno[1,2-b...	17.551	2.4	ng	418307	4	17.145	3423430	20.0
Phenanthrene, 2...	18.015	5.6	ng	960993	4	17.145	3423430	20.0
Phenanthrene, 1...	18.068	6.7	ng	1139410	4	17.145	3423430	20.0
Anthracene, 2-m...	18.151	2.2	ng	369407	4	17.145	3423430	20.0
Anthracene, 1-m...	18.210	7.5	ng	1280910	4	17.145	3423430	20.0
1H-Indene, 2-ph...	18.251	3.5	ng	598235	4	17.145	3423430	20.0
5,16[1',2']:8,1...	18.521	2.3	ng	401007	4	17.145	3423430	20.0
9,10-Anthracene...	18.568	2.1	ng	359664	4	17.145	3423430	20.0
di-p-Tolylacety...	18.939	3.5	ng	606856	4	17.145	3423430	20.0
Cyclopenta(def)...	19.080	2.8	ng	472279	4	17.145	3423430	20.0
11H-Benzo[b]flu...	20.062	2.2	ng	744341	5	21.380	6696710	20.0
Benzo[j]fluoran...	24.097	5.9	ng	977947	6	24.374	3329610	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142271.D
Acq On : 01 May 2025 20:20
Operator : RC/JU
Sample : Q1901-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Quant Time: May 02 01:09:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

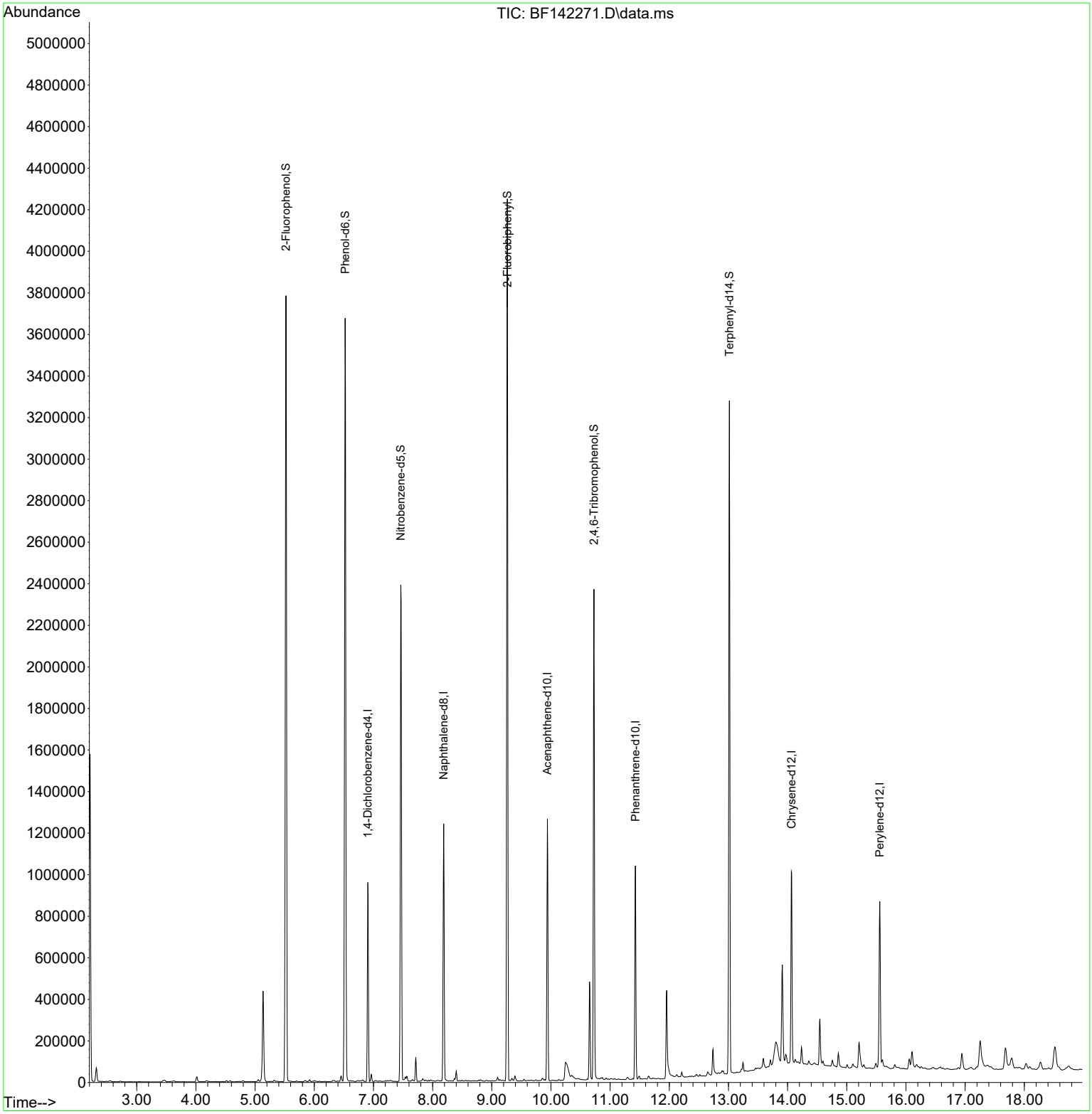
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	201306	20.000	ng	0.00
21) Naphthalene-d8	8.187	136	748548	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	358843	20.000	ng	-0.01
64) Phenanthrene-d10	11.427	188	508457	20.000	ng	0.00
76) Chrysene-d12	14.069	240	449365	20.000	ng	0.00
86) Perylene-d12	15.557	264	455676	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	1499481	118.961	ng	0.00
7) Phenol-d6	6.522	99	1822753	119.751	ng	0.00
23) Nitrobenzene-d5	7.463	82	1039957	91.273	ng	-0.01
42) 2,4,6-Tribromophenol	10.728	330	399389	122.087	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	1870790	73.507	ng	0.00
79) Terphenyl-d14	13.016	244	1540049	49.845	ng	0.00
Target Compounds						Qvalue

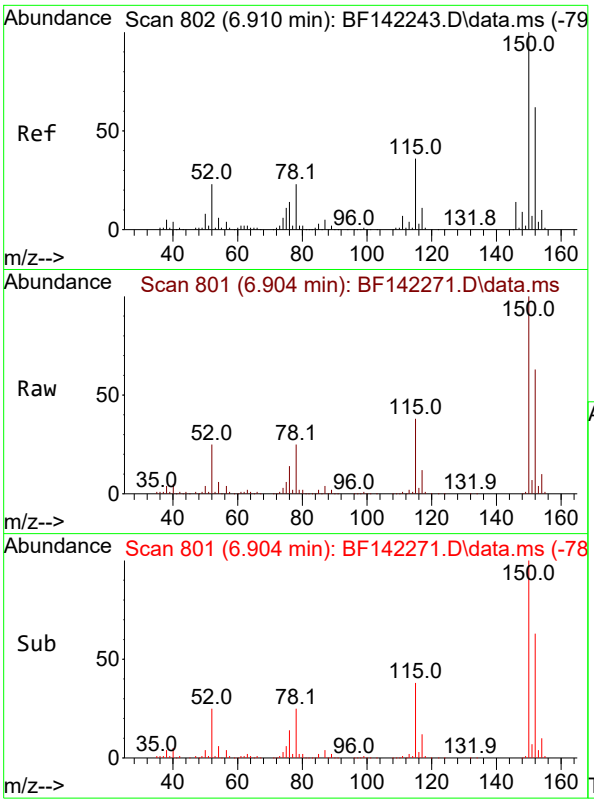
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142271.D
Acq On : 01 May 2025 20:20
Operator : RC/JU
Sample : Q1901-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Quant Time: May 02 01:09:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration



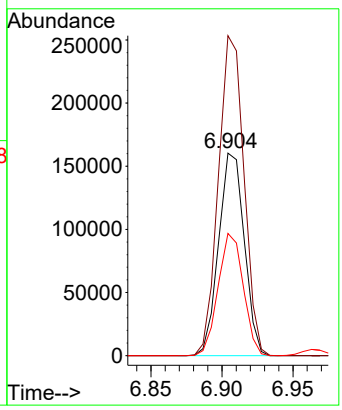


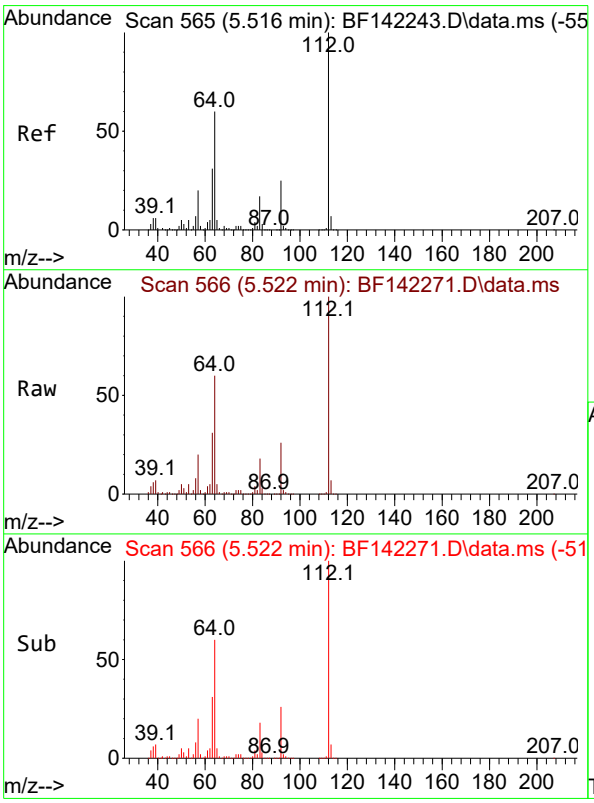
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Tgt Ion:152 Resp: 201306

Ion	Ratio	Lower	Upper
152	100		
150	158.0	130.2	195.2
115	60.3	47.0	70.4

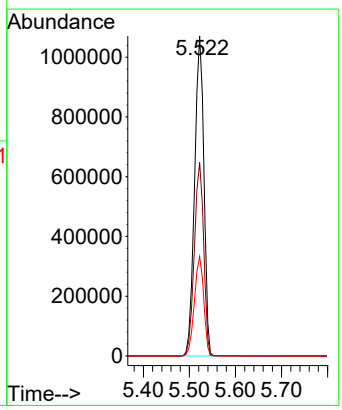


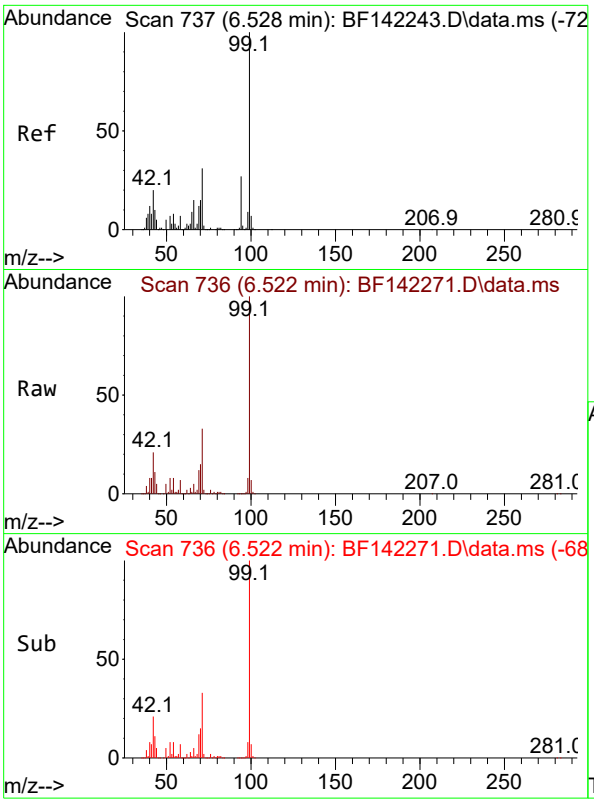


#5
2-Fluorophenol
Concen: 118.961 ng
RT: 5.522 min Scan# 566
Delta R.T. 0.006 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Tgt Ion:112 Resp: 1499481

Ion	Ratio	Lower	Upper
112	100		
64	60.5	48.4	72.6
63	31.0	24.8	37.2



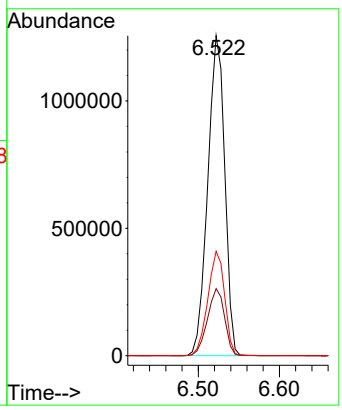


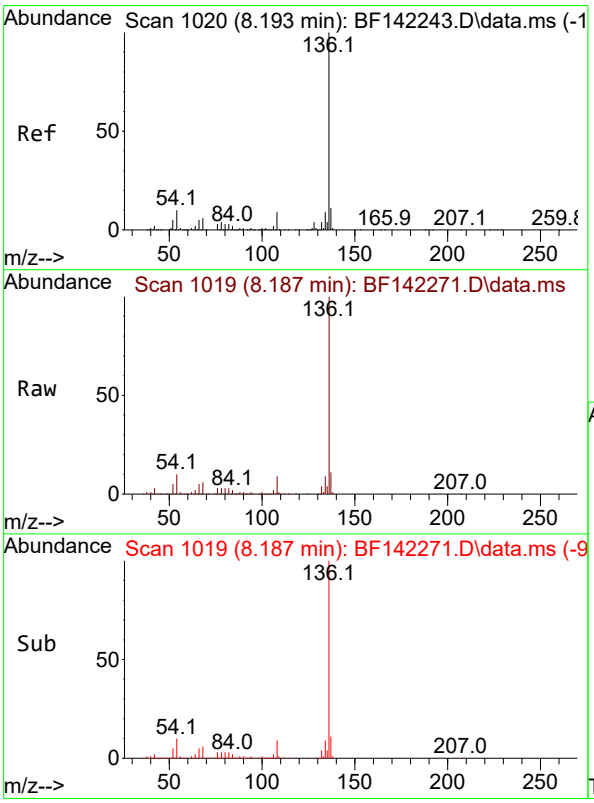
#7
Phenol-d6
Concen: 119.751 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Tgt Ion: 99 Resp: 1822753

Ion	Ratio	Lower	Upper
99	100		
42	21.0	16.3	24.5
71	32.6	25.0	37.4

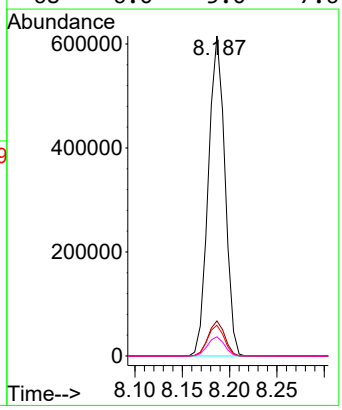


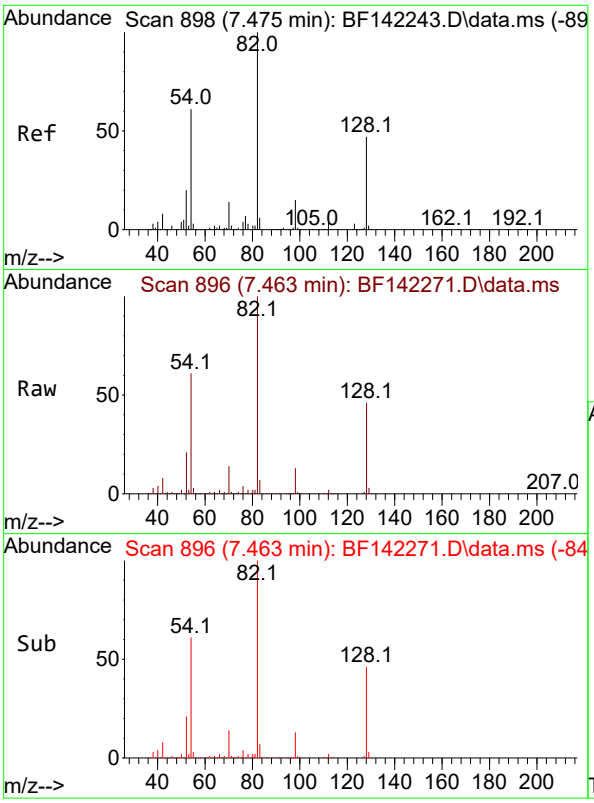


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.187 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Tgt Ion:136 Resp: 748548

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.7	13.1
54	9.6	7.7	11.5
68	6.0	5.0	7.6



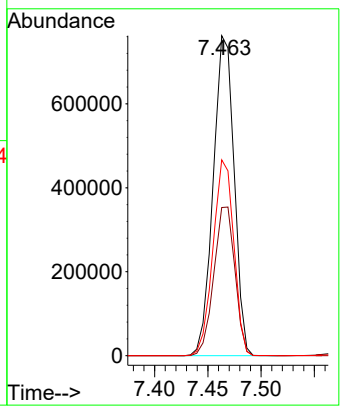


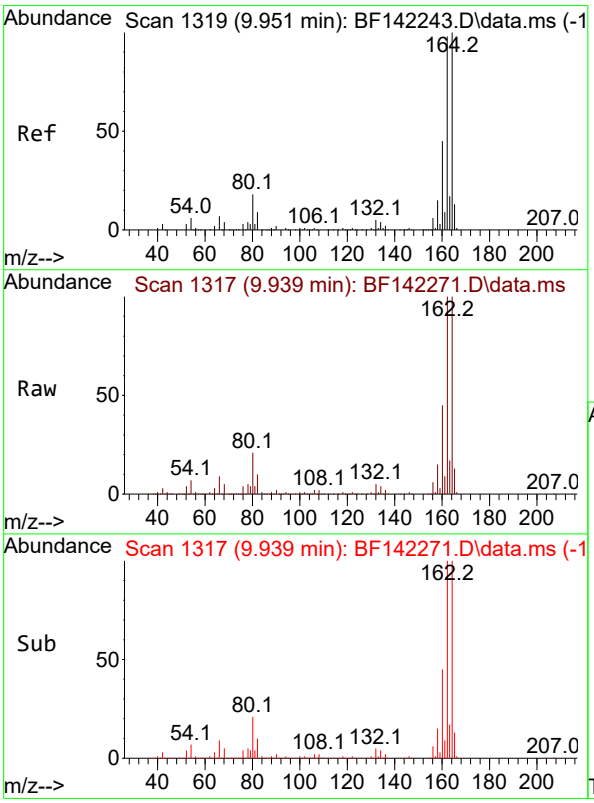
#23
Nitrobenzene-d5
Concen: 91.273 ng
RT: 7.463 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Tgt Ion: 82 Resp: 1039957

Ion	Ratio	Lower	Upper
82	100		
128	46.3	37.0	55.6
54	61.2	48.0	72.0

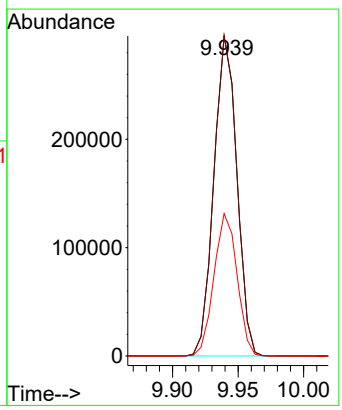


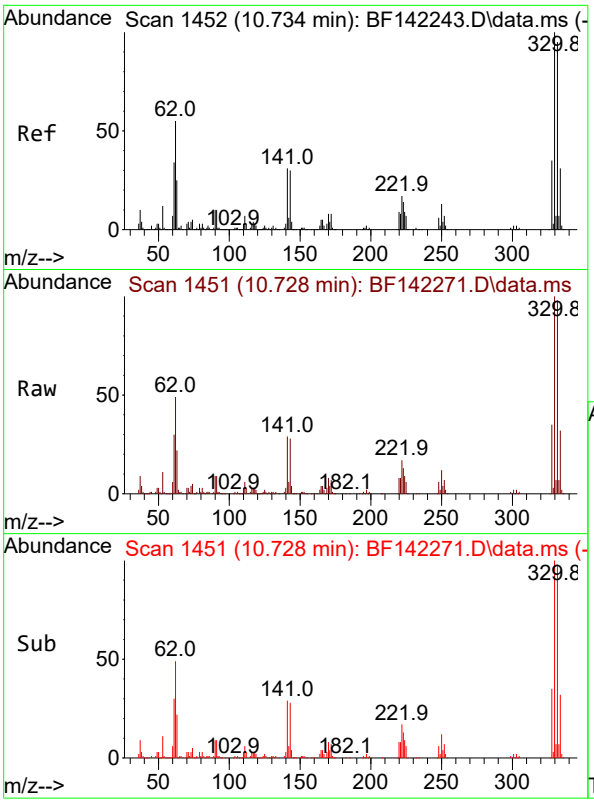


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.012 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Tgt Ion:164 Resp: 358843

Ion	Ratio	Lower	Upper
164	100		
162	99.9	78.6	117.8
160	44.5	35.7	53.5



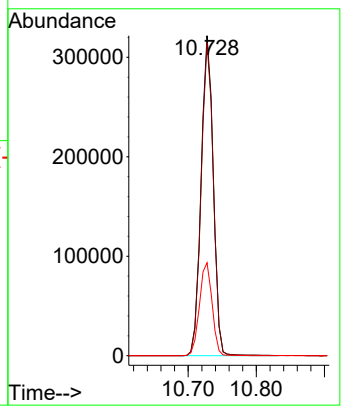


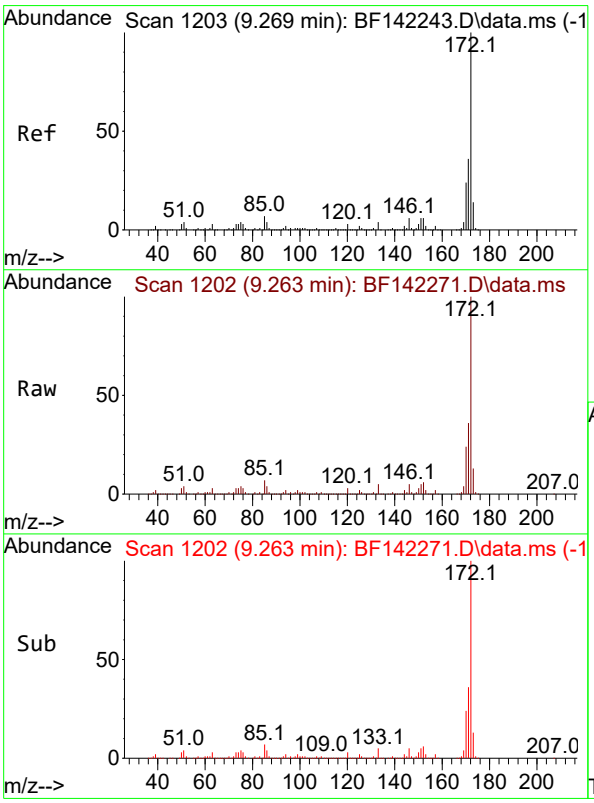
#42
2,4,6-Tribromophenol
Concen: 122.087 ng
RT: 10.728 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Tgt Ion:330 Resp: 399389

Ion	Ratio	Lower	Upper
330	100		
332	97.5	76.5	114.7
141	30.0	24.3	36.5

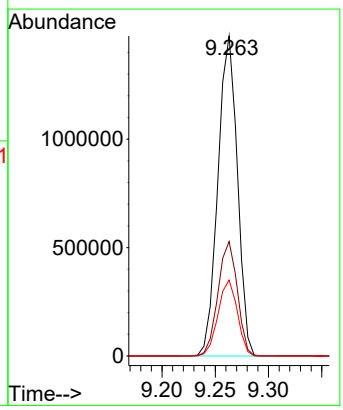


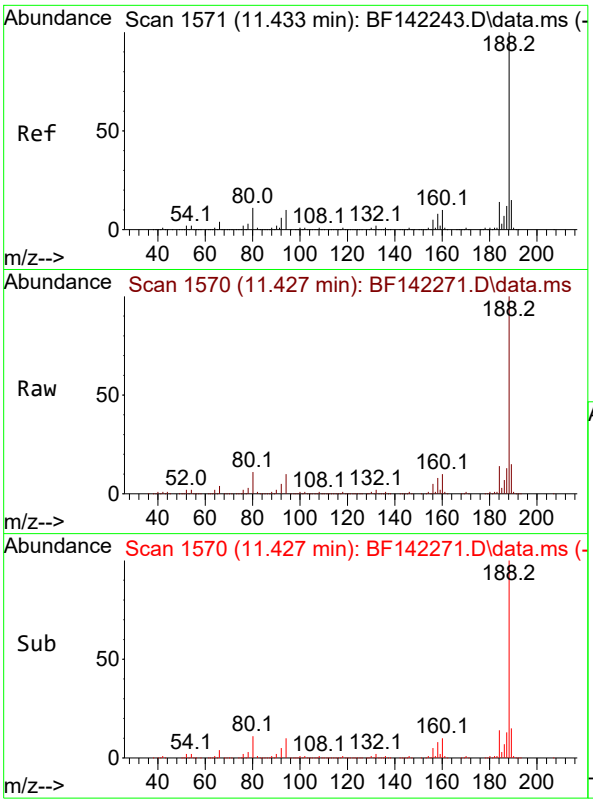


#45
2-Fluorobiphenyl
Concen: 73.507 ng
RT: 9.263 min Scan# 1202
Delta R.T. -0.006 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Tgt Ion:172 Resp: 1870790

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.0	43.4
170	23.7	19.4	29.0



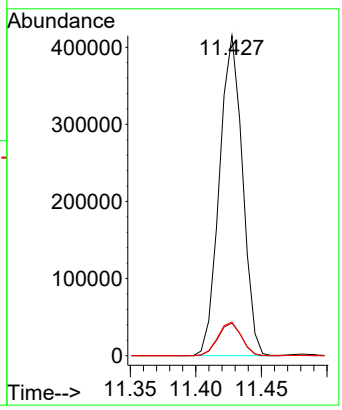


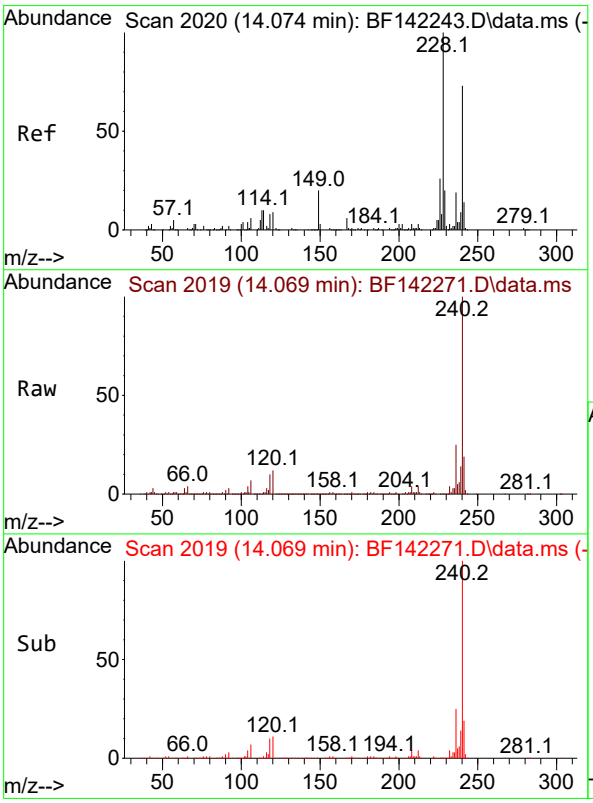
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Tgt Ion:188 Resp: 508457

Ion	Ratio	Lower	Upper
188	100		
94	10.2	8.2	12.2
80	10.5	8.6	12.8

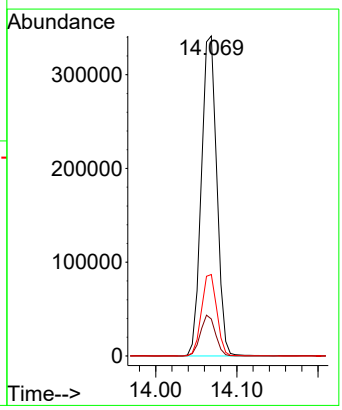


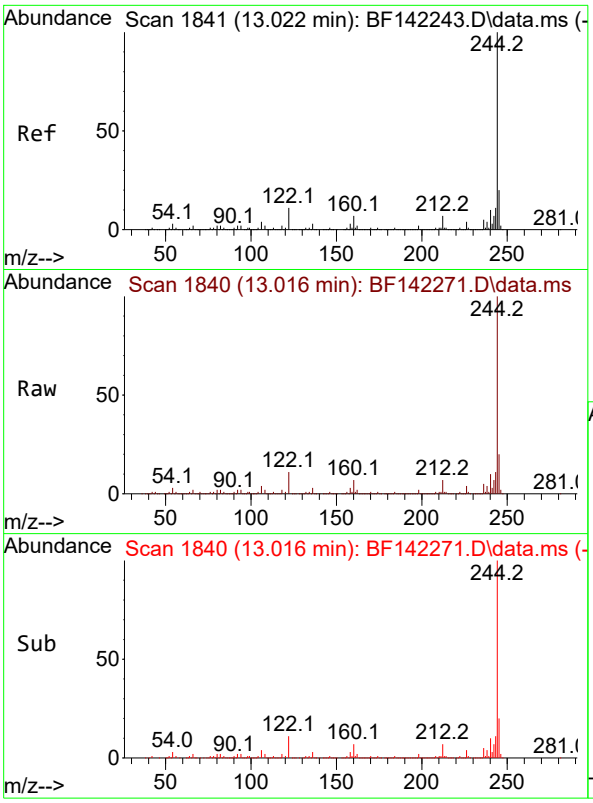


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Tgt Ion:240 Resp: 449365

Ion	Ratio	Lower	Upper
240	100		
120	11.6	10.1	15.1
236	25.5	20.5	30.7



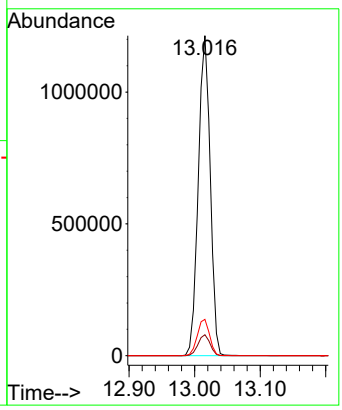


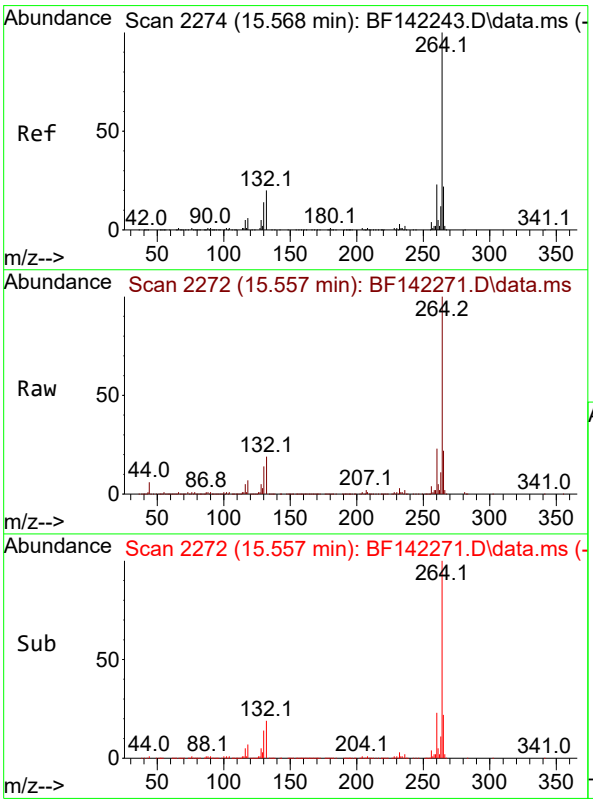
#79
Terphenyl-d14
Concen: 49.845 ng
RT: 13.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Tgt Ion:244 Resp: 1540049

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.3	7.9
122	11.3	9.1	13.7

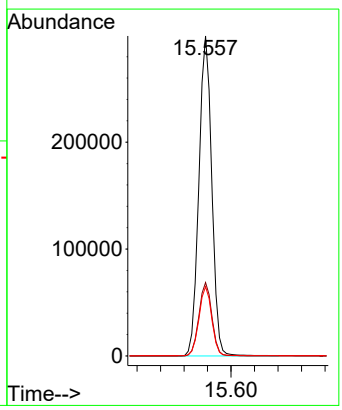




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142271.D
Acq: 01 May 2025 20:20

Tgt Ion:264 Resp: 455676

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.4	27.6
265	21.7	17.3	25.9



LSC Area Percent Report

Sample Results: **BF142271.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142271.D
Acq On : 01 May 2025 20:20
Operator : RC/JU
Sample : Q1901-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-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-BF043025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142271.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.316	15	21	28	rVB2	65584	106918	1.98%	0.262%
2	5.134	490	500	510	rVB	435020	695468	12.88%	1.706%
3	5.522	559	566	571	rBV	3782260	5300428	98.15%	13.001%
4	6.522	729	736	748	rBV	3671180	5400288	100.00%	13.246%
5	6.904	796	801	806	rVV	958484	1188058	22.00%	2.914%
6	7.463	890	896	902	rBV	2389646	3284497	60.82%	8.056%
7	7.716	934	939	944	rVB	116617	138007	2.56%	0.338%
8	8.187	1013	1019	1024	rBV	1237651	1515518	28.06%	3.717%
9	8.398	1052	1055	1060	rVB	46985	55611	1.03%	0.136%
10	9.263	1196	1202	1207	rBV	4244552	5389146	99.79%	13.218%
11	9.939	1312	1317	1322	rVB	1257347	1533208	28.39%	3.761%
12	10.245	1363	1369	1384	rBV	84915	352753	6.53%	0.865%
13	10.651	1434	1438	1443	rBV	469663	585548	10.84%	1.436%
14	10.728	1445	1451	1456	rBV	2356845	2979587	55.17%	7.308%
15	11.427	1565	1570	1575	rBV	1025908	1265312	23.43%	3.103%
16	11.957	1654	1660	1674	rBV2	424298	696667	12.90%	1.709%
17	12.739	1788	1793	1805	rBV	121880	207745	3.85%	0.510%
18	13.016	1834	1840	1845	rBV	3239748	4153061	76.90%	10.186%
19	13.592	1934	1938	1945	rVB	44145	67987	1.26%	0.167%
20	13.804	1966	1974	1987	rVV7	111369	488425	9.04%	1.198%
21	13.910	1987	1992	1999	rVV3	476169	763795	14.14%	1.873%
22	13.969	2000	2002	2008	rVB3	41991	68100	1.26%	0.167%
23	14.063	2013	2018	2026	rVB	919364	1240218	22.97%	3.042%
24	14.233	2043	2047	2054	rVB	80642	111043	2.06%	0.272%
25	14.545	2095	2100	2106	rBV	221979	324391	6.01%	0.796%
26	14.857	2149	2153	2163	rVB	66326	104787	1.94%	0.257%
27	15.210	2208	2213	2223	rBV2	117433	238752	4.42%	0.586%
28	15.557	2266	2272	2277	rBV	796266	1204470	22.30%	2.954%
29	16.057	2353	2357	2360	rBV	42310	66183	1.23%	0.162%
30	16.104	2361	2365	2373	rVB	73920	137330	2.54%	0.337%
31	16.945	2503	2508	2519	rVB2	75580	154810	2.87%	0.380%
32	17.257	2554	2561	2575	rBV6	122365	332162	6.15%	0.815%
33	17.680	2627	2633	2642	rBV4	93532	231831	4.29%	0.569%
34	18.515	2768	2775	2796	rVB4	111445	388401	7.19%	0.953%

Sum of corrected areas: 40770505

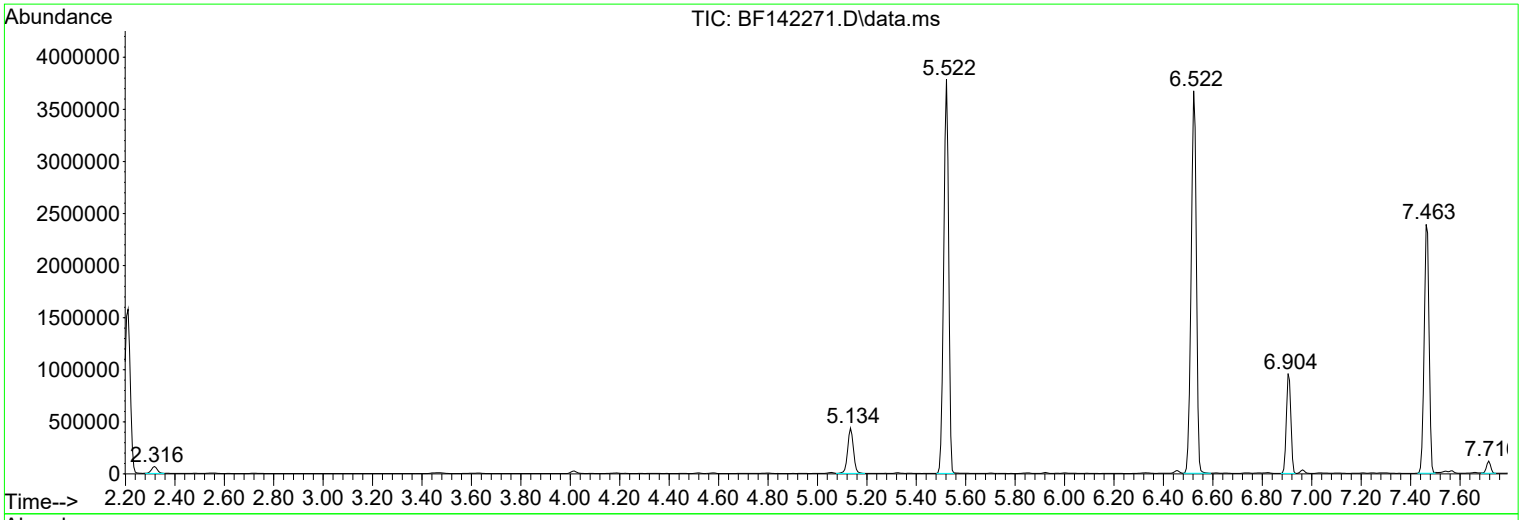
Sample Results: **BF142271.D**

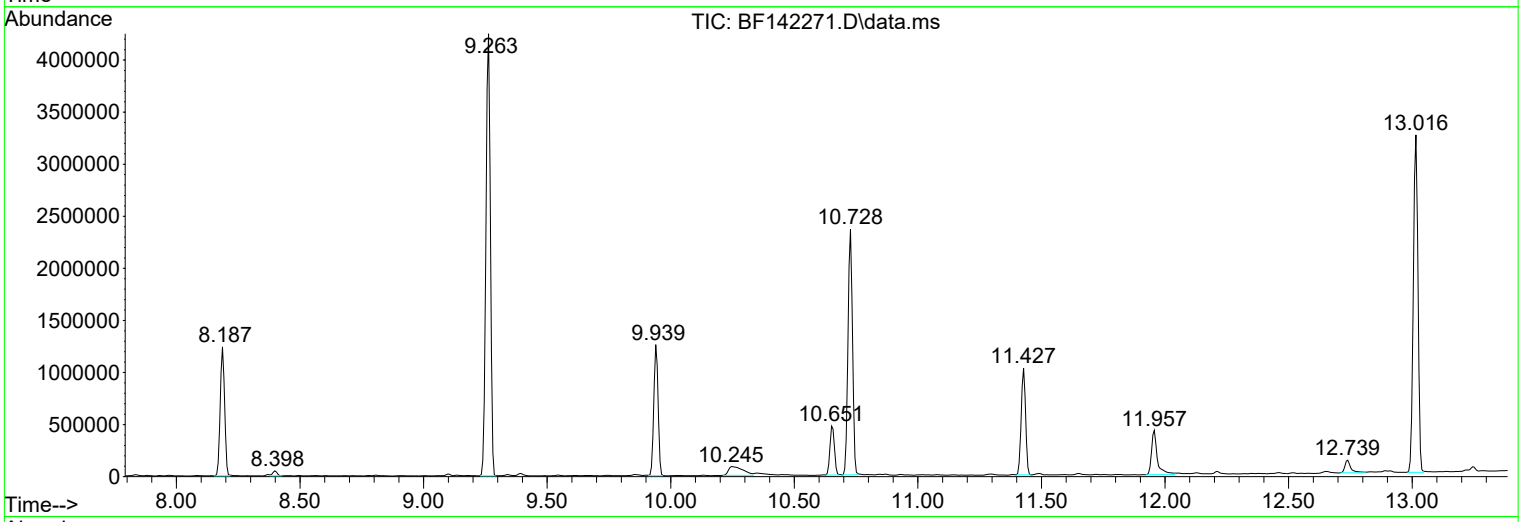
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142271.D
Acq On : 01 May 2025 20:20
Operator : RC/JU
Sample : Q1901-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

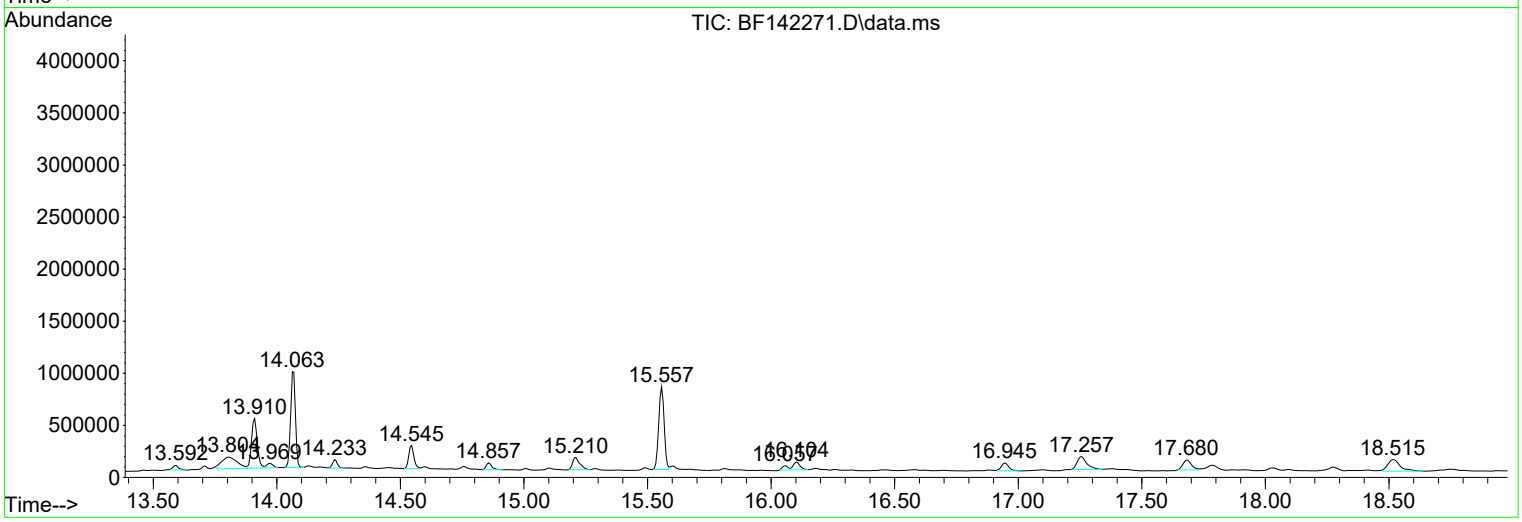
Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







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Operator : RC/JU
Sample : Q1901-04
Misc :
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Instrument :
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ClientSampleId :
B-167-SB02

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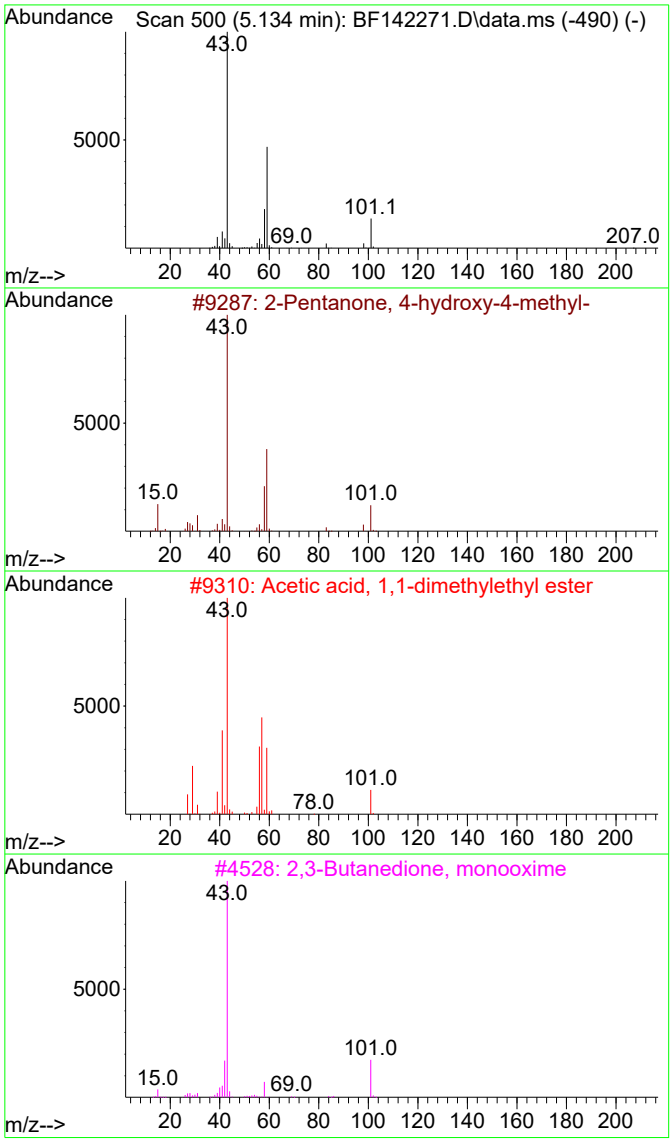
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

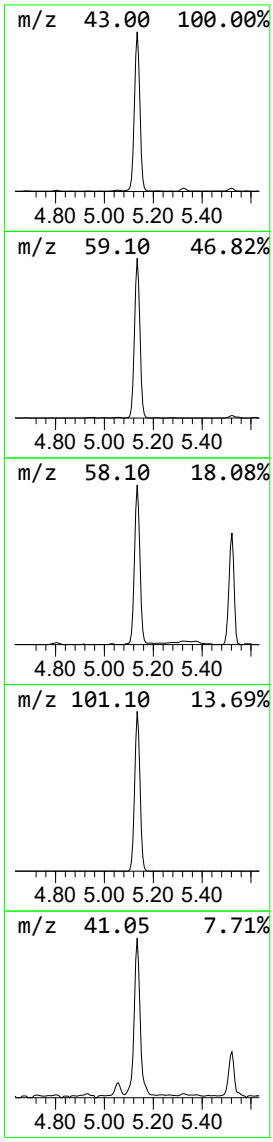
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.134	11.71 ng	695468	1,4-Dichlorobenzene-d4	6.904

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	83
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	23
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Acetone	58	C3H6O	000067-64-1	9





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ClientSampleId :
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TIC Library : C:\Database\NIST20.L
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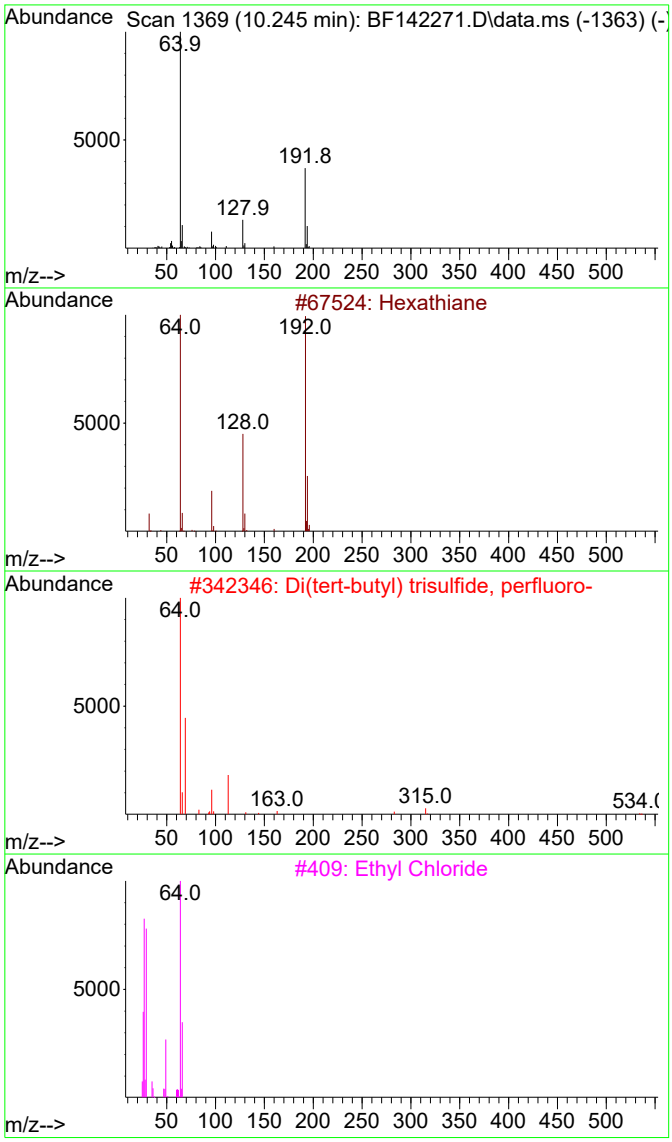
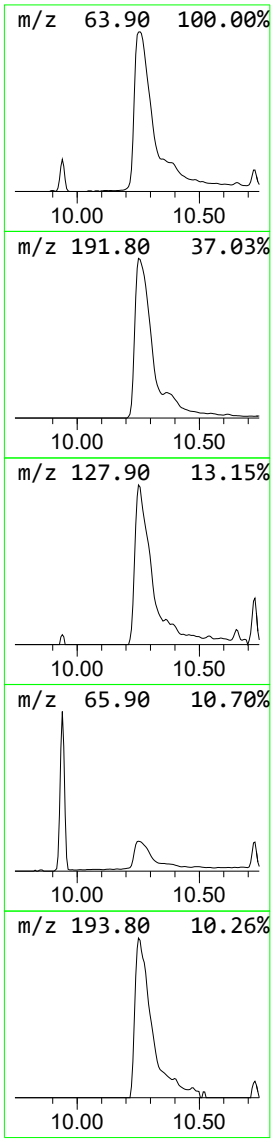
Peak Number 2 Hexathiane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.245	4.60 ng	352753	Acenaphthene-d10	9.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexathiane	192	S6	013798-23-7	91
2	Di(tert-butyl) trisulfide, perfl...	534	C8F18S3	016005-64-4	9
3	Ethyl Chloride	64	C2H5Cl	000075-00-3	5
4	Sulfur dioxide	64	O2S	007446-09-5	4
5	Ethene, 1,1-difluoro-	64	C2H2F2	000075-38-7	4





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TIC Library : C:\Database\NIST20.L
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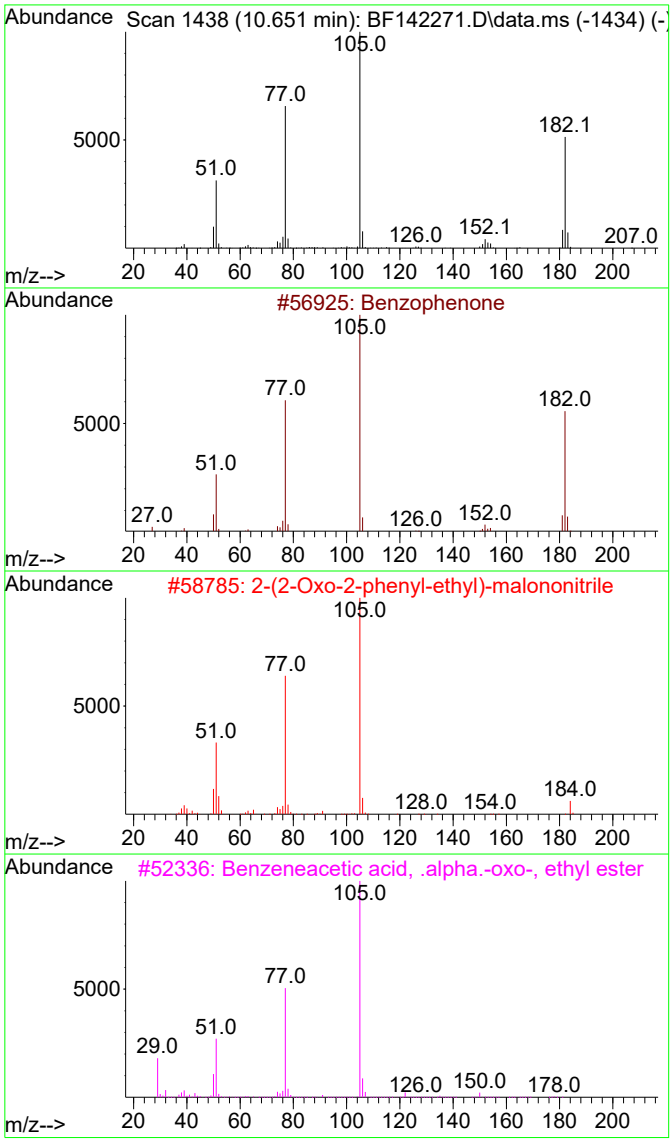
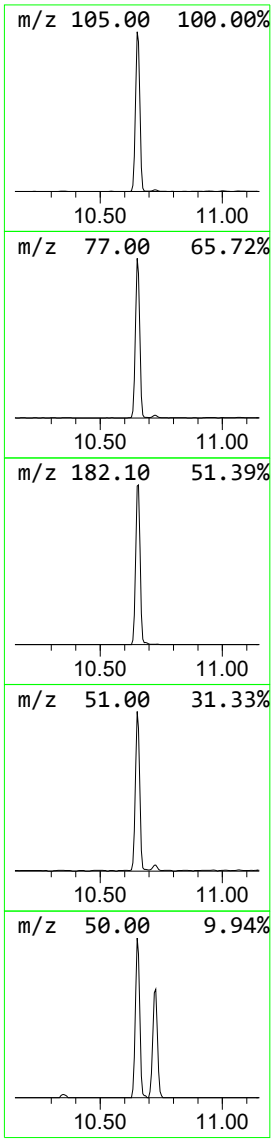
Peak Number 3 Benzophenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	7.64 ng	585548	Acenaphthene-d10	9.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	2-(2-Oxo-2-phenyl-ethyl)-malonon...	184	C11H8N2O	1000296-76-9	58
3	Benzeneacetic acid, .alpha.-oxo-...	178	C10H10O3	001603-79-8	50
4	1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	50
5	2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	50





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TIC Integration Parameters: LSCINT.P

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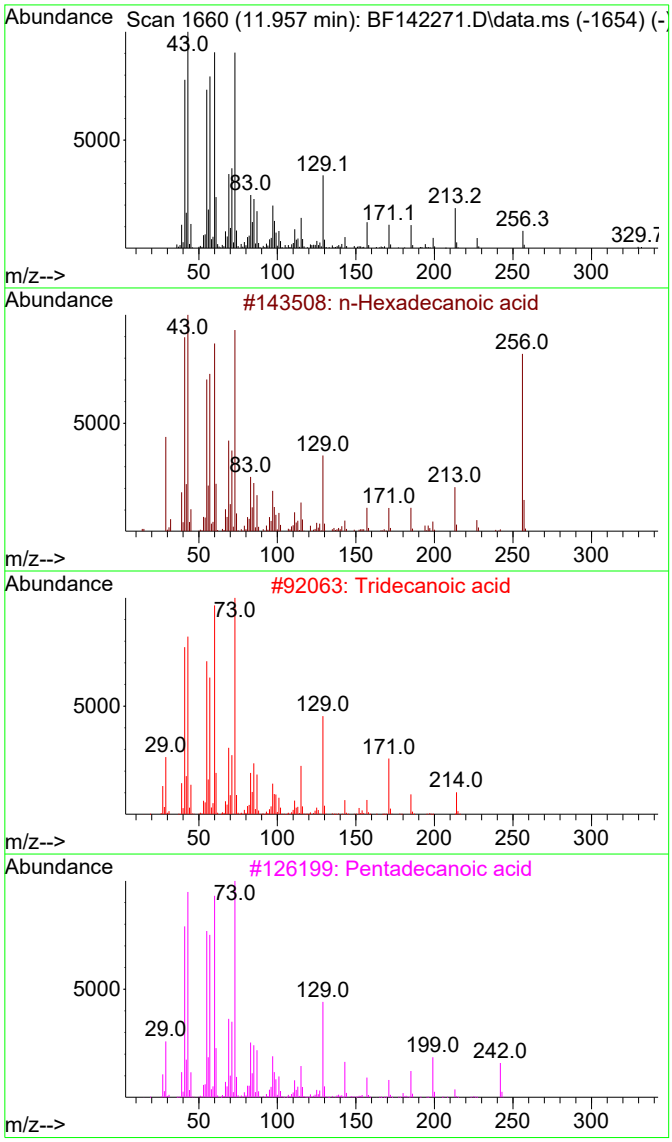
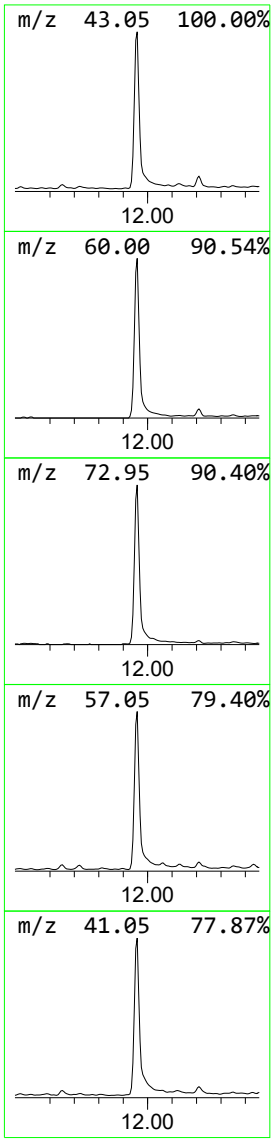
Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.957	11.01 ng	696667	Phenanthrene-d10	11.428

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	74
5	Octadecanoic acid	284	C18H36O2	000057-11-4	64





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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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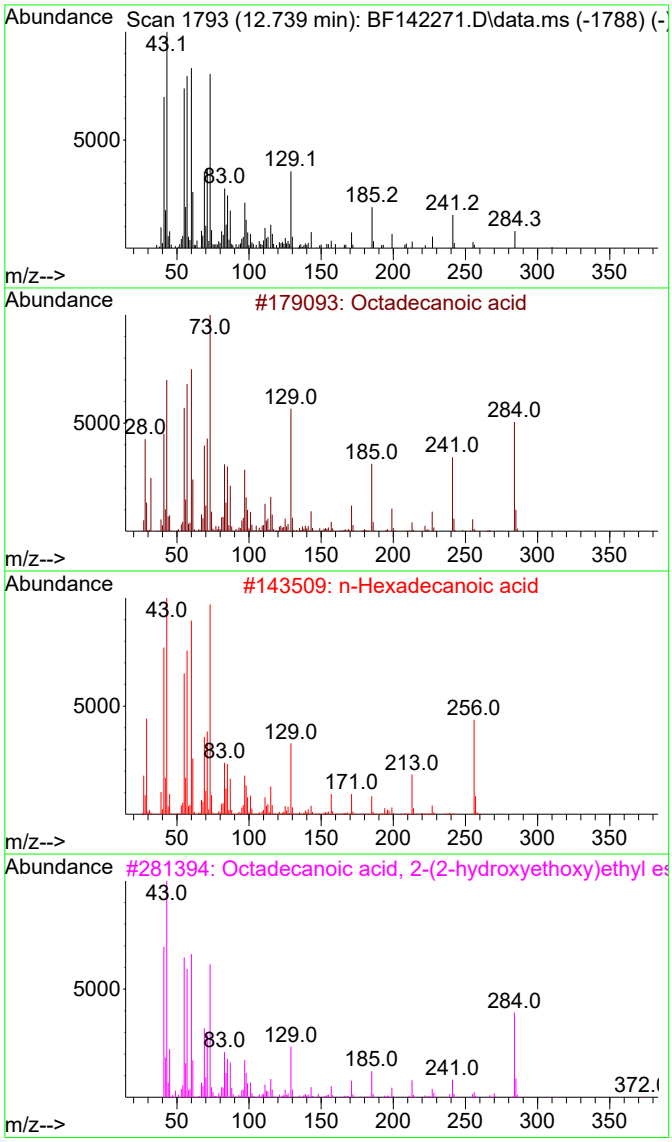
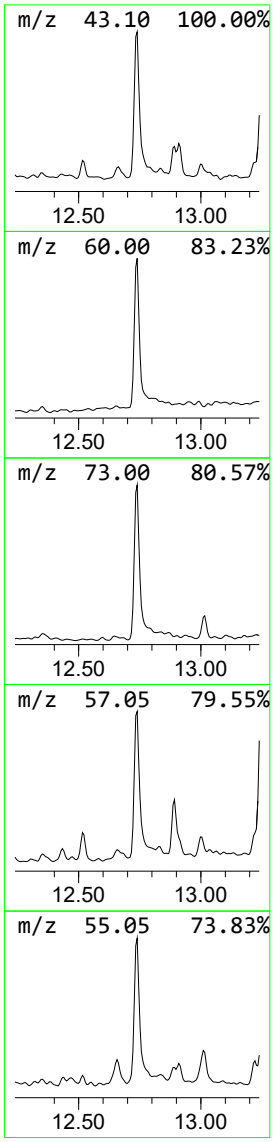
Peak Number 5 Octadecanoic acid Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.739	3.28 ng	207745	Phenanthrene-d10	11.428

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	93
3	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	80
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	74
5	Undecanoic acid	186	C11H22O2	000112-37-8	60





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TIC Library : C:\Database\NIST20.L
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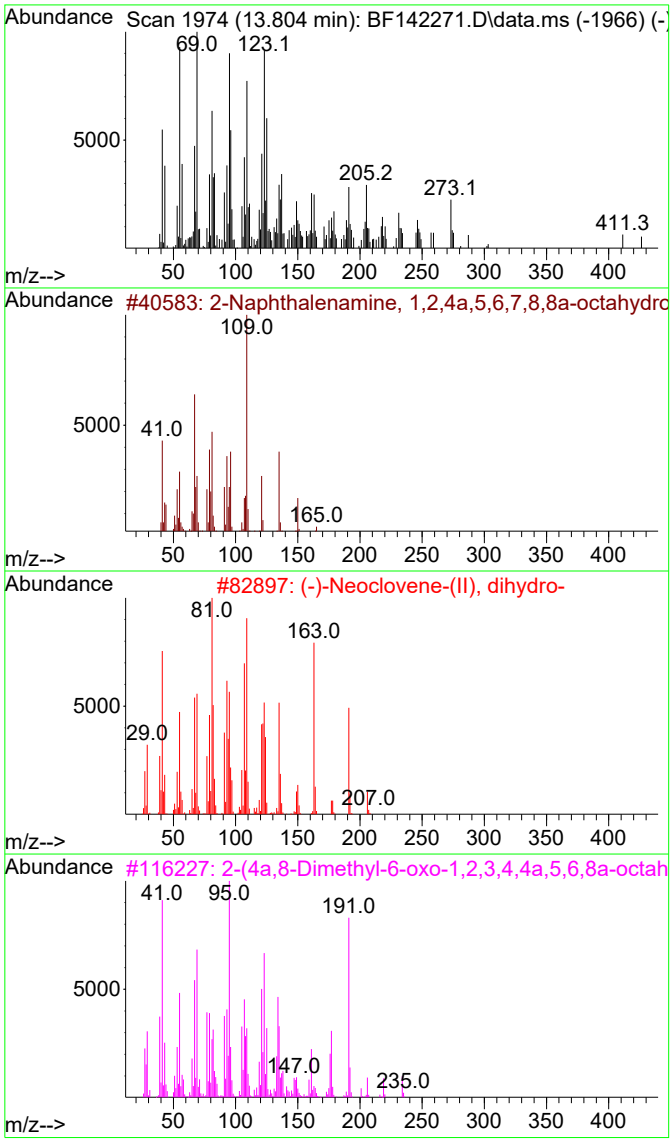
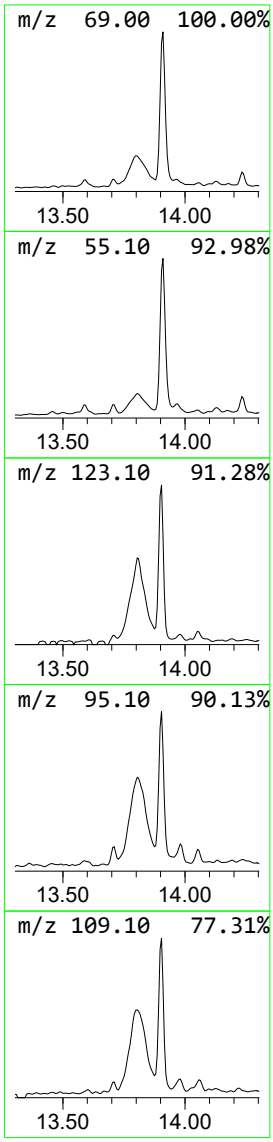
Peak Number 6 unknown13.804 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.804	7.88 ng	488425	Chrysene-d12	14.069

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Naphthalenamine, 1,2,4a,5,6,7,...	165	C11H19N	056053-03-3	41
2	(-)-Neoclovene-(II), dihydro-	206	C15H26	1000152-83-6	38
3	2-(4a,8-Dimethyl-6-oxo-1,2,3,4,4...	234	C15H22O2	1000190-21-8	38
4	(2Z,4E)-3,7,11-Trimethyl-2,4,10-...	206	C15H26	172549-29-0	35
5	1-Formyl-2,2-dimethyl-3-trans-(3...	220	C15H24O	1000144-09-7	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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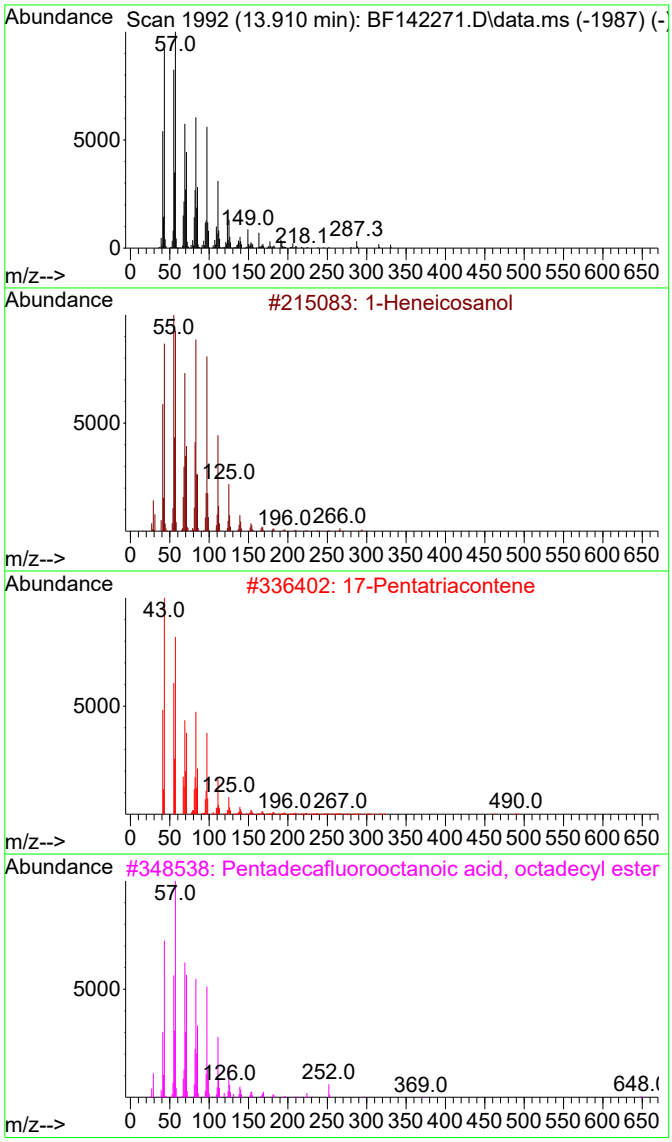
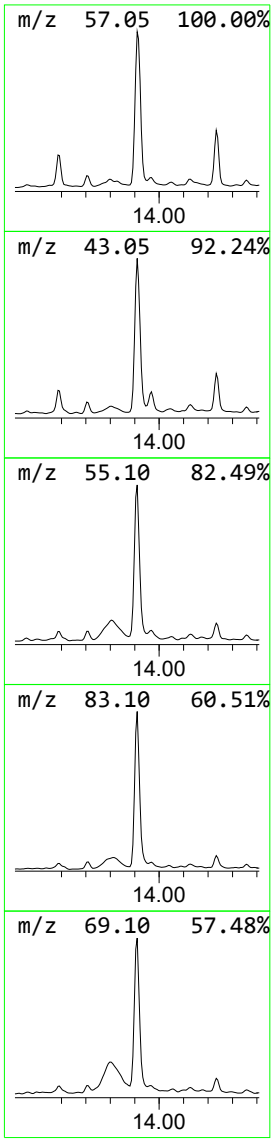
Peak Number 7 1-Heneicosanol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.910	12.32 ng	763795	Chrysene-d12	14.069

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	93
2	17-Pentatriacontene	491	C35H70	006971-40-0	93
3	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	93
4	Heptafluorobutyric acid, hexadec...	438	C20H33F7O2	006385-15-5	93
5	Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	93





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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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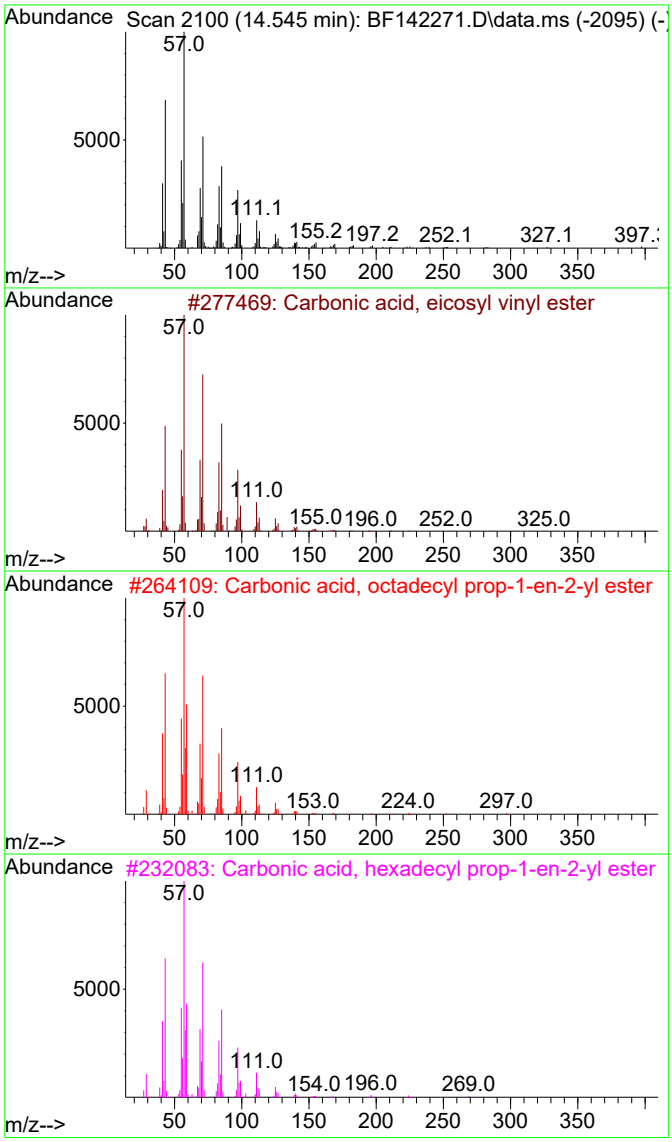
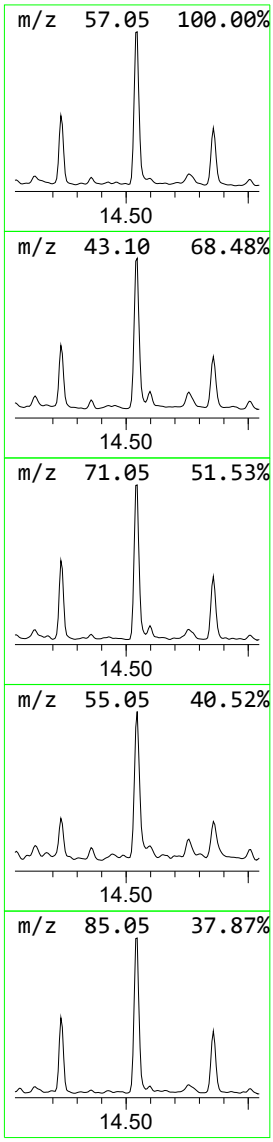
Peak Number 8 Carbonic acid, eicosyl viny... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.545	5.23 ng	324391	Chrysene-d12	14.069

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonic acid, eicosyl vinyl ester	368	C23H44O3	1000382-54-3	91
2	Carbonic acid, octadecyl prop-1-...	354	C22H42O3	1000383-11-5	91
3	Carbonic acid, hexadecyl prop-1-...	326	C20H38O3	1000382-90-3	91
4	Carbonic acid, octadecyl vinyl e...	340	C21H40O3	1000382-54-4	87
5	Sulfurous acid, octadecyl 2-prop...	376	C21H44O3S	1000309-12-7	87





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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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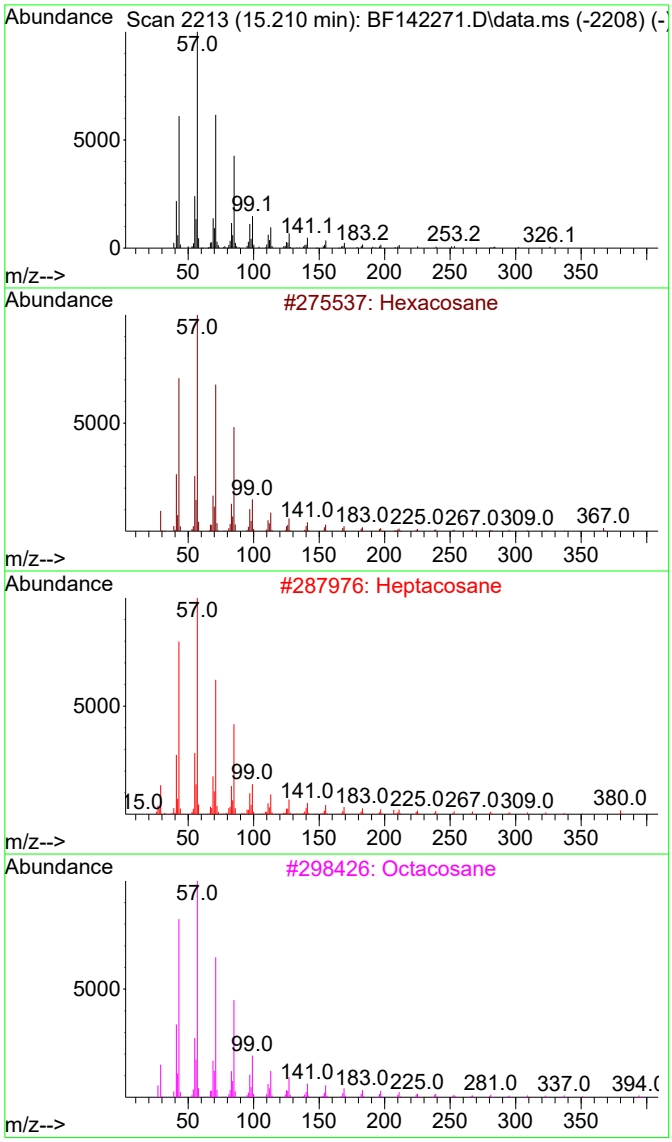
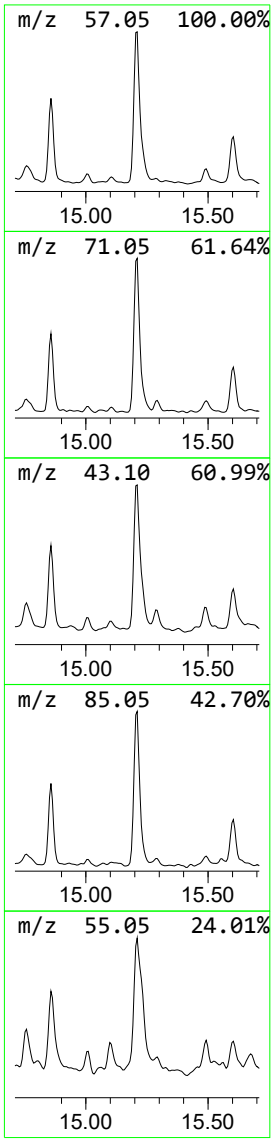
Peak Number 9 Hexacosane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.210	3.96 ng	238752	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexacosane	366	C26H54	000630-01-3	94
2	Heptacosane	380	C27H56	000593-49-7	91
3	Octacosane	394	C28H58	000630-02-4	91
4	Octacosane, 2-methyl-	408	C29H60	001560-98-1	91
5	Heneicosane	296	C21H44	000629-94-7	91





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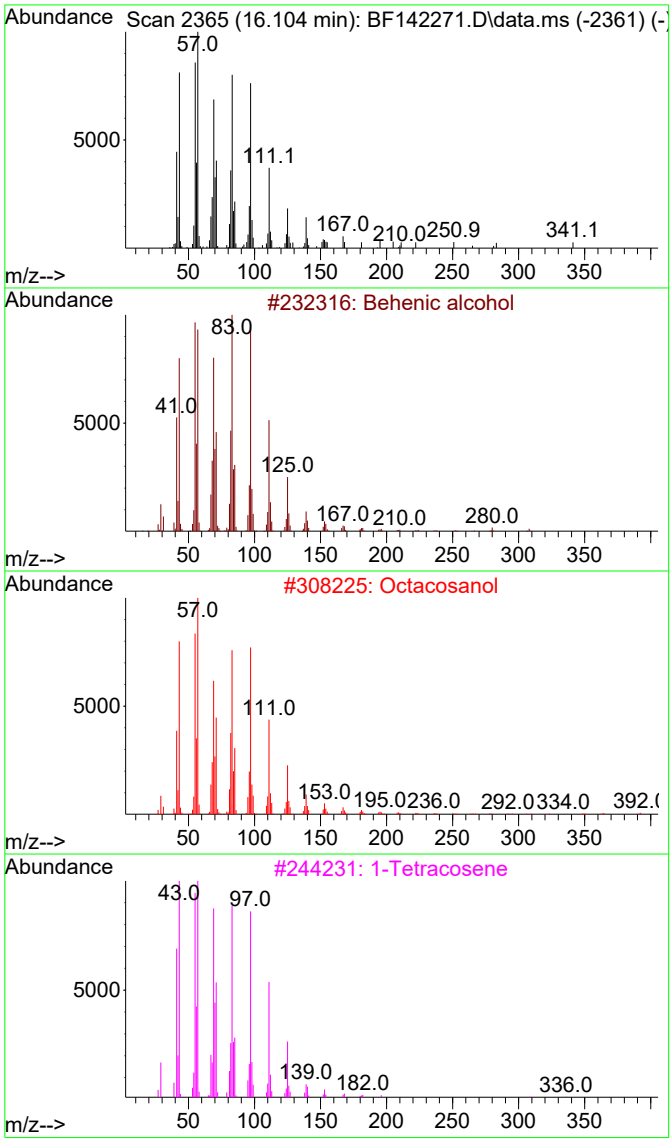
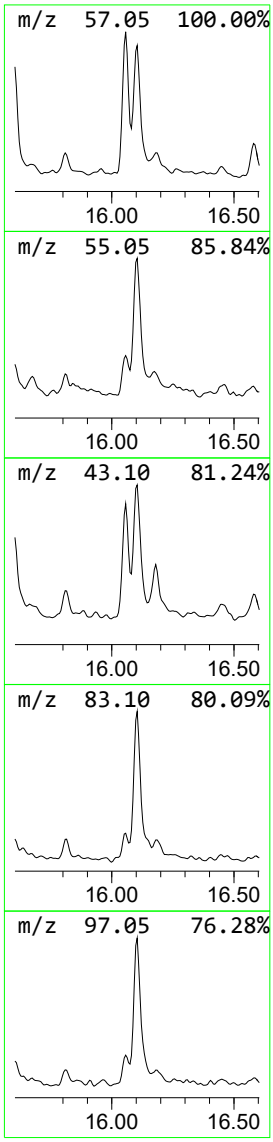
Peak Number 10 Behenic alcohol Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.104	2.28 ng	137330	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Behenic alcohol	326	C22H46O	000661-19-8	91
2	Octacosanol	410	C28H58O	000557-61-9	90
3	1-Tetracosene	336	C24H48	010192-32-2	90
4	n-Tetracosanol-1	354	C24H50O	000506-51-4	90
5	1-Heneicosanol	312	C21H44O	015594-90-8	90





Sample Results: **BF142271.D**

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TIC Library : C:\Database\NIST20.L
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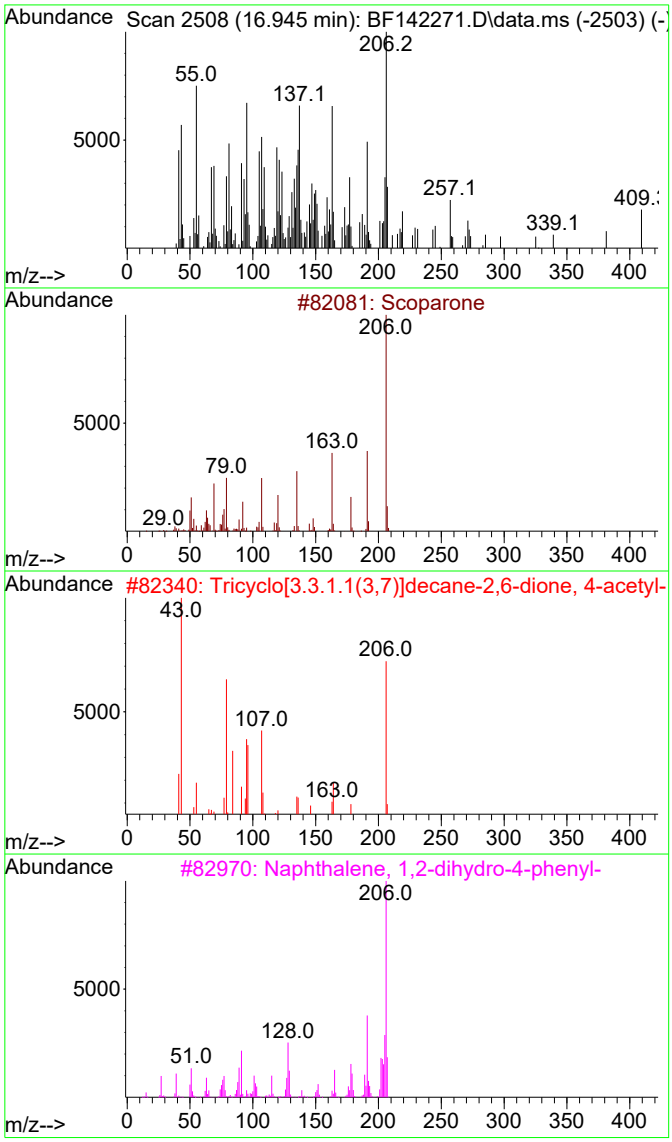
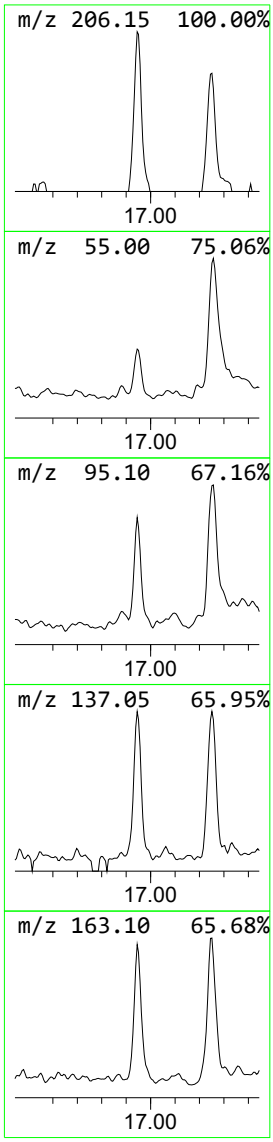
Peak Number 11 unknown16.945 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.945	2.57 ng	154810	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Scoparone	206	C11H10O4	000120-08-1	45
2	Tricyclo[3.3.1.1(3,7)]decane-2,6...	206	C12H14O3	056781-92-1	38
3	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	35
4	2-Hydroxy-3-methoxyphenylacetoni...	163	C9H9NO2	042973-56-8	30
5	1-(2-Hydroxyphenyl)piperazine, N...	206	C12H18N2O	148547-51-7	30





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142271.D
Acq On : 01 May 2025 20:20
Operator : RC/JU
Sample : Q1901-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

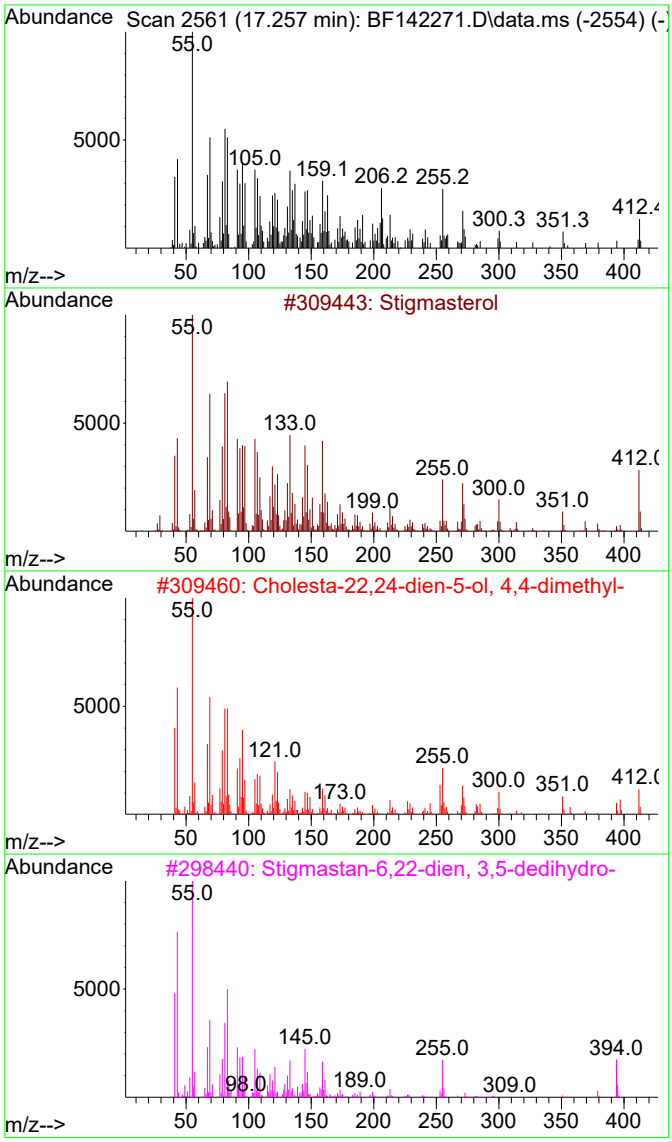
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

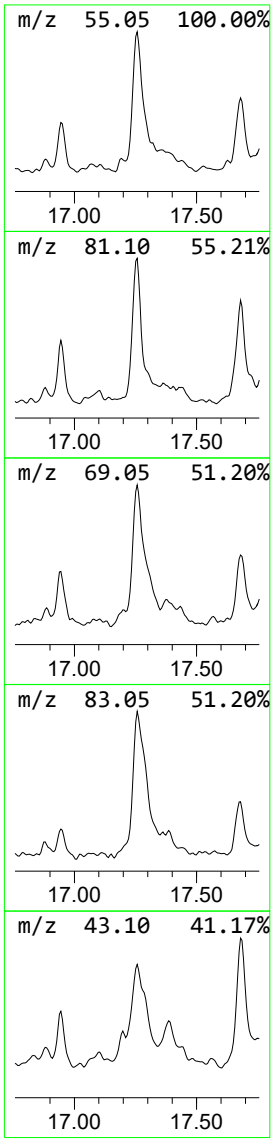
****

Peak Number 12 Stigmasterol Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.256	5.52 ng	332162	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Stigmasterol	412	C29H48O	000083-48-7	96
2	Cholesta-22,24-dien-5-ol, 4,4-di...	412	C29H48O	1000128-66-1	50
3	Stigmastan-6,22-dien, 3,5-dedihy...	394	C29H46	107304-12-1	41
4	Chondrillasterol	412	C29H48O	000481-17-4	38
5	1-Methyl-4-(1-methylethenyl)-3-[...	412	C30H52	1000370-41-5	35





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142271.D
Acq On : 01 May 2025 20:20
Operator : RC/JU
Sample : Q1901-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

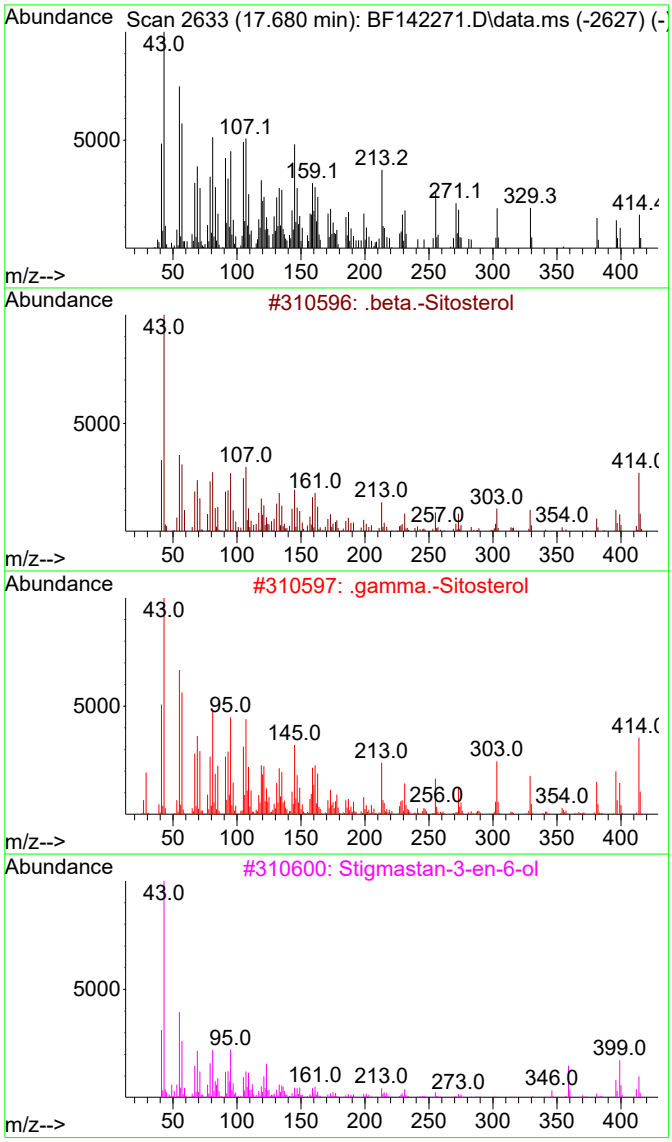
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

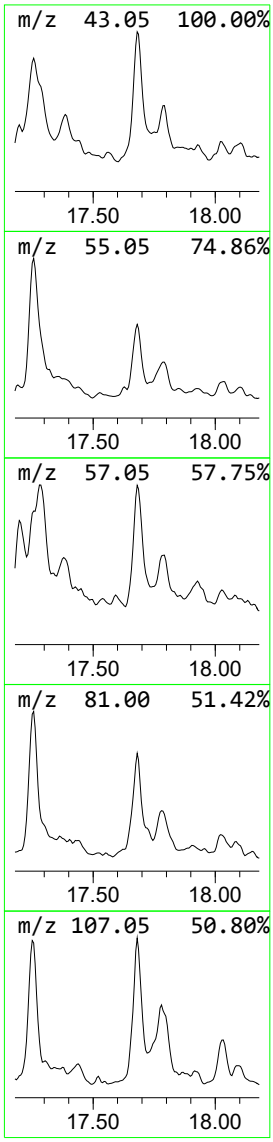
****

Peak Number 13 .beta.-Sitosterol Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.680	3.85 ng	231831	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.beta.-Sitosterol	414	C29H50O	000083-46-5	98
2	.gamma.-Sitosterol	414	C29H50O	000083-47-6	76
3	Stigmastan-3-en-6-ol	414	C29H50O	1000214-19-7	38
4	(1R,4aR,5S)-5-[(E)-5-Hydroxy-3-m...	304	C20H32O2	1214984-94-7	35
5	17-(1,5-Dimethylhexyl)-10,13-dim...	414	C29H50O	1000210-86-9	35





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142271.D
Acq On : 01 May 2025 20:20
Operator : RC/JU
Sample : Q1901-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

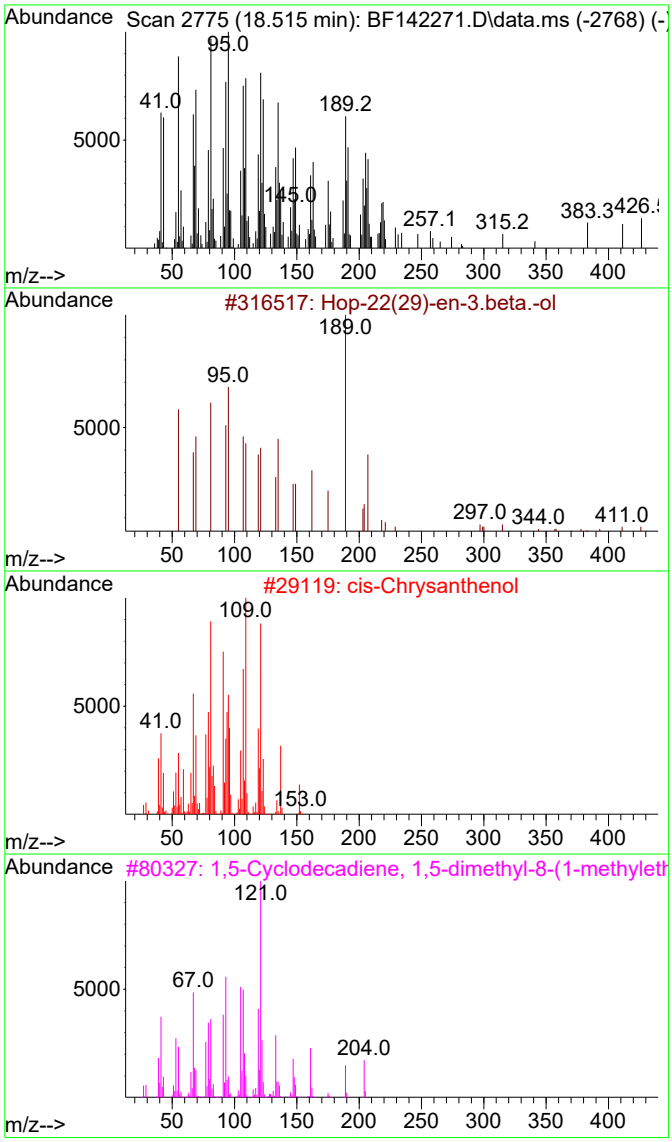
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

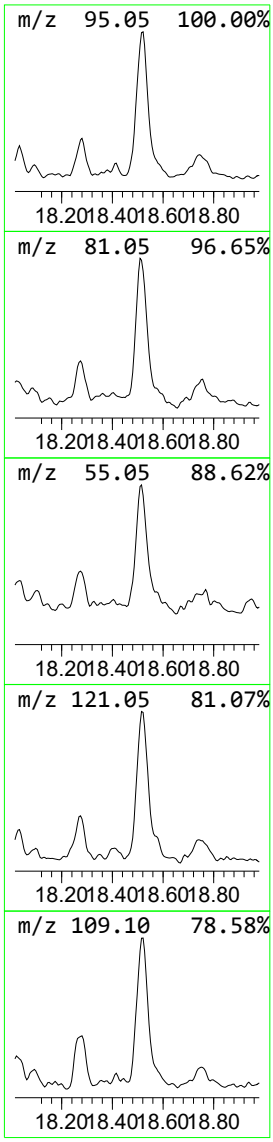
****

Peak Number 14 Hop-22(29)-en-3.beta.-ol Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.515	6.45 ng	388401	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hop-22(29)-en-3.beta.-ol	426	C30H50O	058801-23-3	70
2	cis-Chrysanthenol	152	C10H16O	055722-60-6	55
3	1,5-Cyclodecadiene, 1,5-dimethyl...	204	C15H24	015423-57-1	53
4	Guaia-9,11-diene	204	C15H24	1000374-19-8	53
5	2-Buten-1-ol, 2-ethyl-4-(2,2,3-t...	208	C14H24O	028219-61-6	46





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142271.D
Acq On : 01 May 2025 20:20
Operator : RC/JU
Sample : Q1901-04
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-167-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.134	11.7	ng	695468	1	6.904	1188060	20.0
Hexathiane	10.245	4.6	ng	352753	3	9.939	1533210	20.0
Benzophenone	10.651	7.6	ng	585548	3	9.939	1533210	20.0
n-Hexadecanoic ...	11.957	11.0	ng	696667	4	11.428	1265310	20.0
Octadecanoic acid	12.739	3.3	ng	207745	4	11.428	1265310	20.0
unknown13.804	13.804	7.9	ng	488425	5	14.069	1240220	20.0
1-Heneicosanol	13.910	12.3	ng	763795	5	14.069	1240220	20.0
Carbonic acid, ...	14.545	5.2	ng	324391	5	14.069	1240220	20.0
Hexacosane	15.210	4.0	ng	238752	6	15.557	1204470	20.0
Behenic alcohol	16.104	2.3	ng	137330	6	15.557	1204470	20.0
unknown16.945	16.945	2.6	ng	154810	6	15.557	1204470	20.0
Stigmasterol	17.256	5.5	ng	332162	6	15.557	1204470	20.0
.beta.-Sitosterol	17.680	3.9	ng	231831	6	15.557	1204470	20.0
Hop-22(29)-en-3...	18.515	6.5	ng	388401	6	15.557	1204470	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142272.D
Acq On : 01 May 2025 20:49
Operator : RC/JU
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Quant Time: May 02 01:09:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

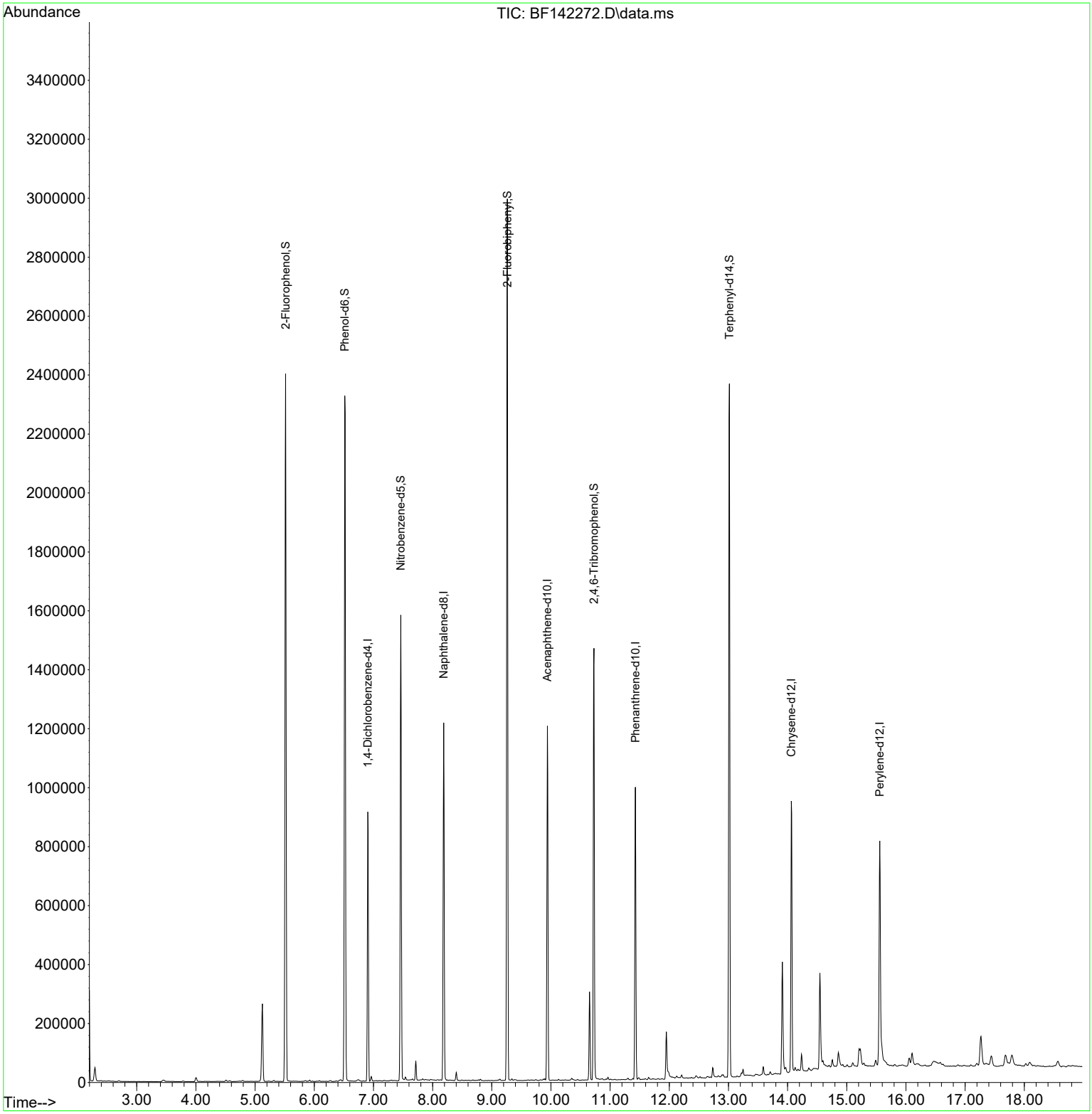
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	191116	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	720969	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	342220	20.000	ng	-0.01
64) Phenanthrene-d10	11.427	188	490996	20.000	ng	0.00
76) Chrysene-d12	14.062	240	440399	20.000	ng	-0.01
86) Perylene-d12	15.557	264	434416	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	885089	73.962	ng	0.00
7) Phenol-d6	6.516	99	1088394	75.318	ng	-0.01
23) Nitrobenzene-d5	7.463	82	624188	56.878	ng	-0.01
42) 2,4,6-Tribromophenol	10.727	330	243819	78.152	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	1306976	53.848	ng	0.00
79) Terphenyl-d14	13.015	244	1131952	37.382	ng	0.00
Target Compounds						Qvalue

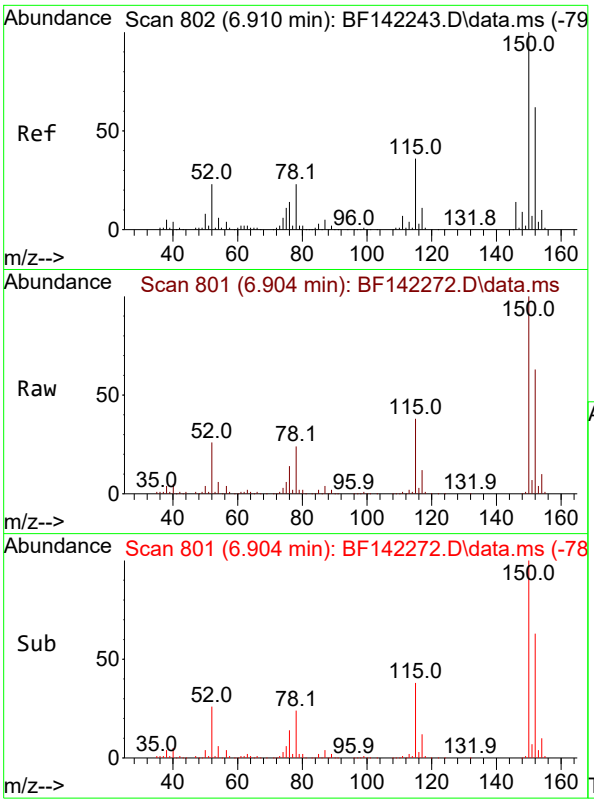
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142272.D
Acq On : 01 May 2025 20:49
Operator : RC/JU
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Quant Time: May 02 01:09:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration



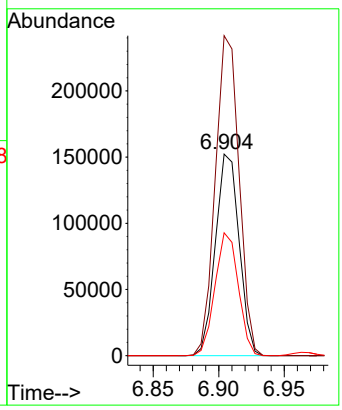


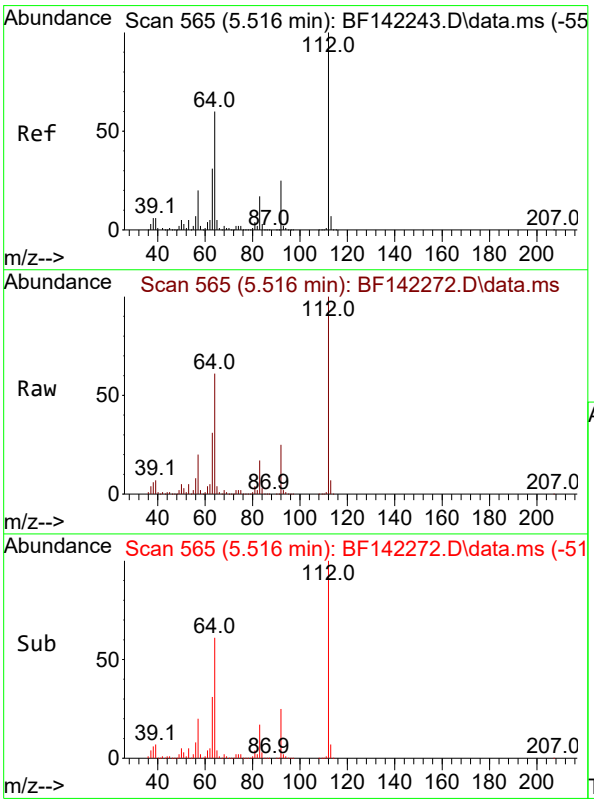
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Tgt Ion:152 Resp: 191116

Ion	Ratio	Lower	Upper
152	100		
150	158.7	130.2	195.2
115	60.9	47.0	70.4

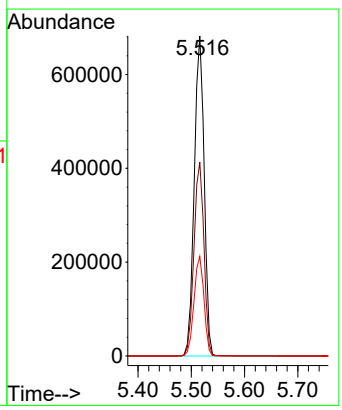


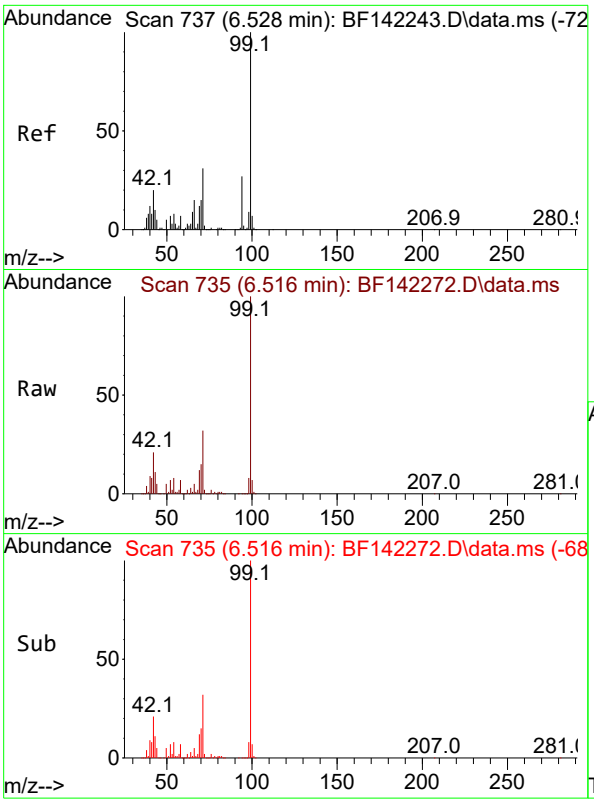


#5
2-Fluorophenol
Concen: 73.962 ng
RT: 5.516 min Scan# 565
Delta R.T. -0.000 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Tgt Ion:112 Resp: 885089

Ion	Ratio	Lower	Upper
112	100		
64	60.6	48.4	72.6
63	31.1	24.8	37.2



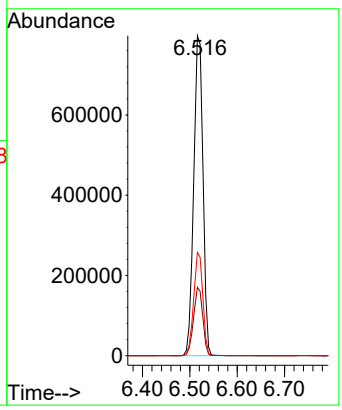


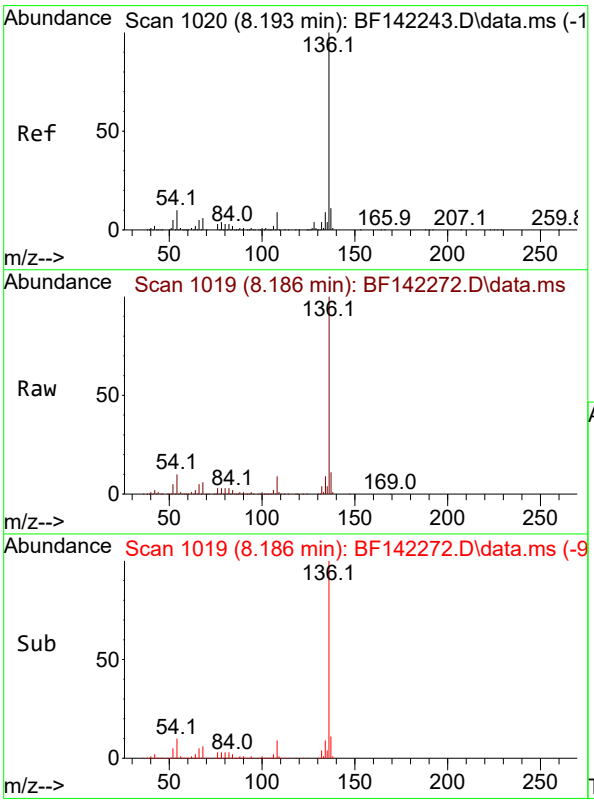
#7
Phenol-d6
Concen: 75.318 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Tgt Ion: 99 Resp: 1088394

Ion	Ratio	Lower	Upper
99	100		
42	21.4	16.3	24.5
71	32.2	25.0	37.4

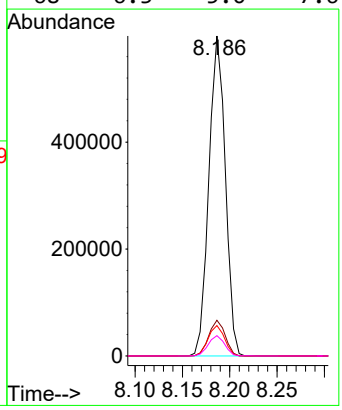


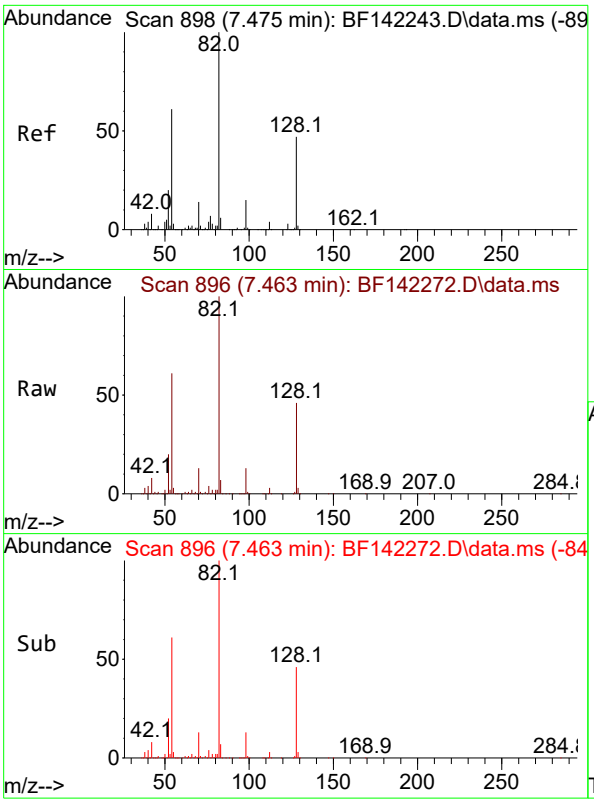


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.186 min Scan# 1019
Delta R.T. -0.007 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Tgt Ion:136 Resp: 720969

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.7	13.1
54	9.5	7.7	11.5
68	6.3	5.0	7.6



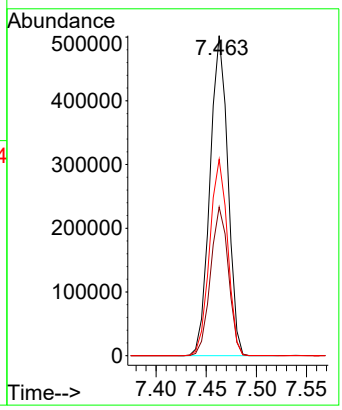


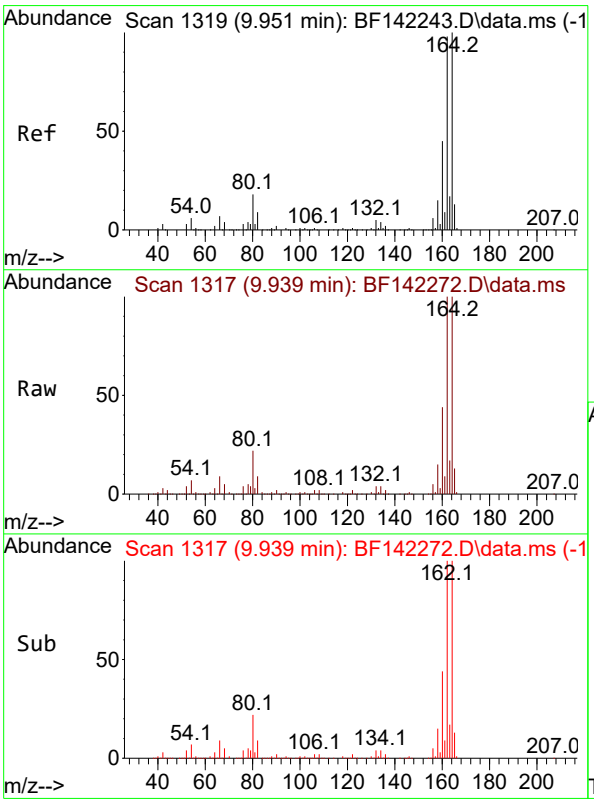
#23
Nitrobenzene-d5
Concen: 56.878 ng
RT: 7.463 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Tgt Ion: 82 Resp: 624188

Ion	Ratio	Lower	Upper
82	100		
128	46.4	37.0	55.6
54	61.4	48.0	72.0

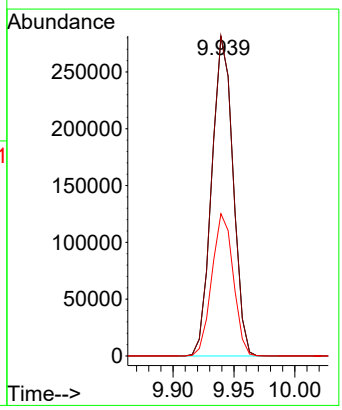


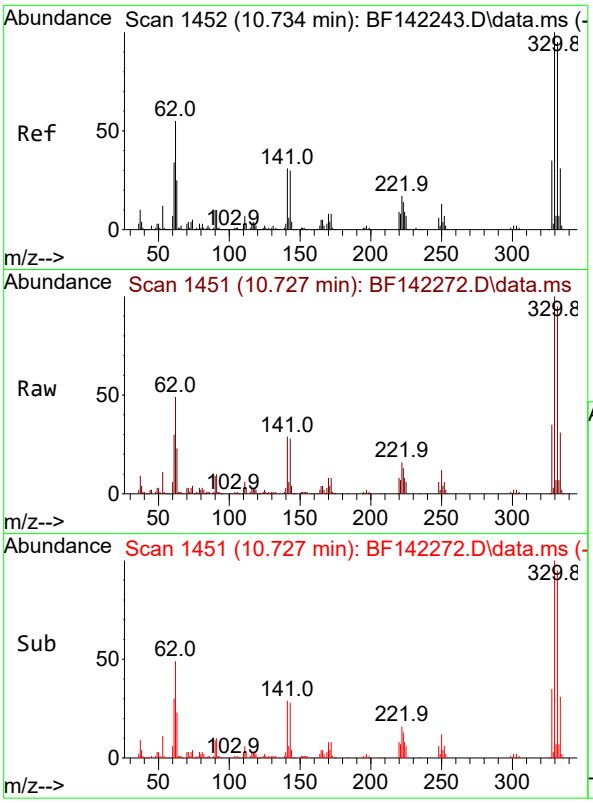


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.012 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Tgt Ion:164 Resp: 342220

Ion	Ratio	Lower	Upper
164	100		
162	100.3	78.6	117.8
160	44.6	35.7	53.5



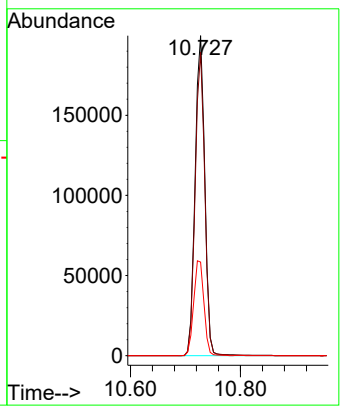


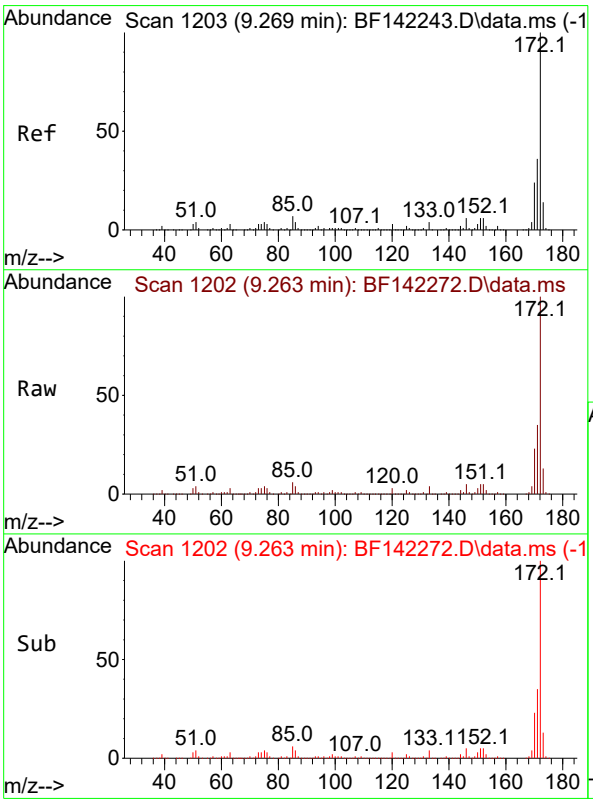
#42
2,4,6-Tribromophenol
Concen: 78.152 ng
RT: 10.727 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Tgt Ion:330 Resp: 243819

Ion	Ratio	Lower	Upper
330	100		
332	94.6	76.5	114.7
141	31.5	24.3	36.5

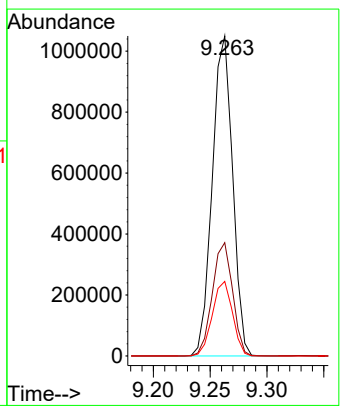


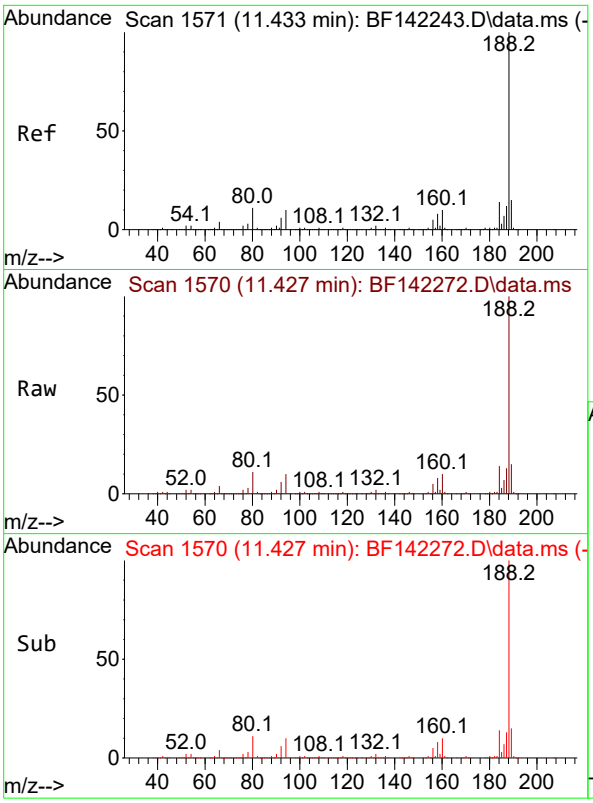


#45
2-Fluorobiphenyl
Concen: 53.848 ng
RT: 9.263 min Scan# 1202
Delta R.T. -0.006 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Tgt Ion:172 Resp: 1306976

Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.0	43.4
170	23.3	19.4	29.0



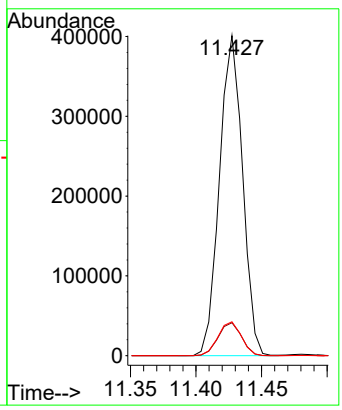


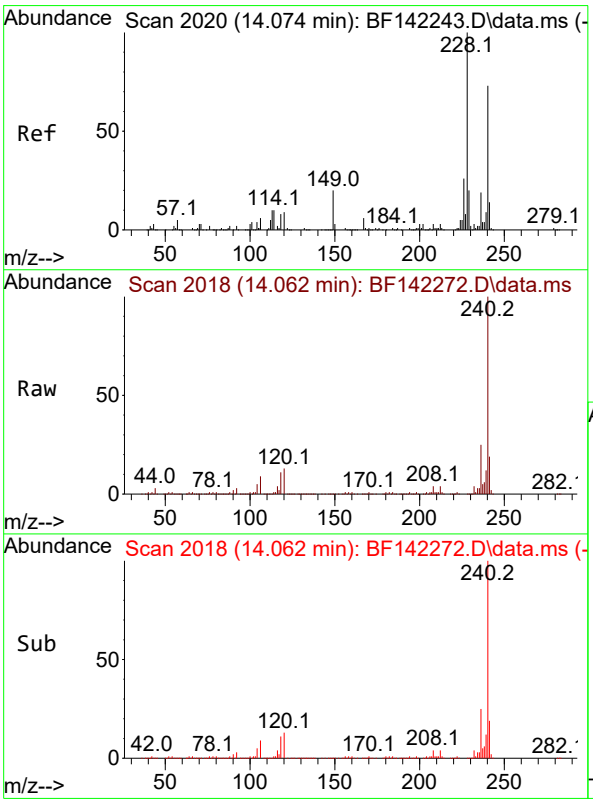
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Tgt Ion:188 Resp: 490996

Ion	Ratio	Lower	Upper
188	100		
94	10.3	8.2	12.2
80	10.6	8.6	12.8

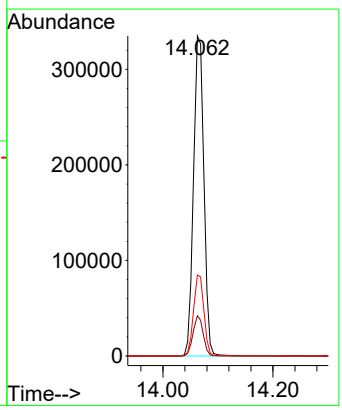


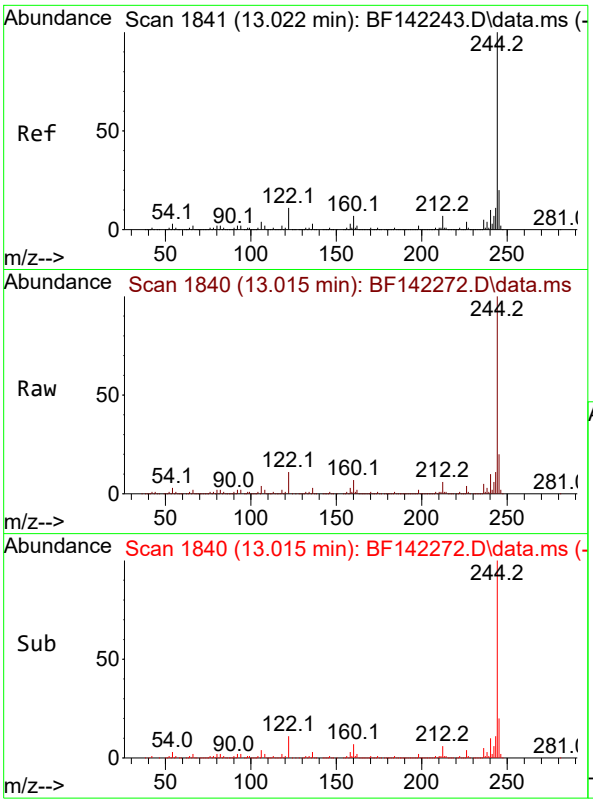


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.062 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Tgt Ion:240 Resp: 440399

Ion	Ratio	Lower	Upper
240	100		
120	12.6	10.1	15.1
236	25.3	20.5	30.7



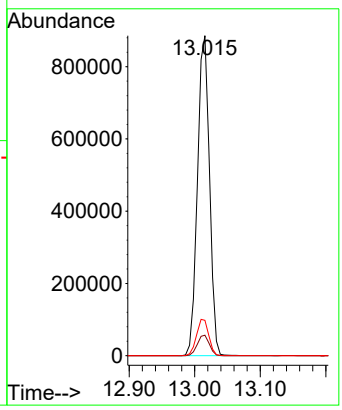


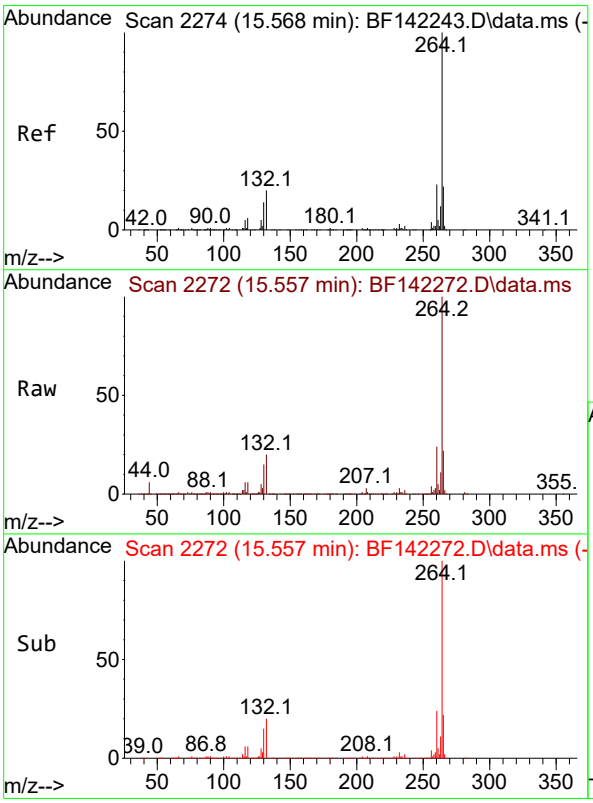
#79
Terphenyl-d14
Concen: 37.382 ng
RT: 13.015 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Tgt Ion:244 Resp: 1131952

Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.3	7.9
122	11.1	9.1	13.7

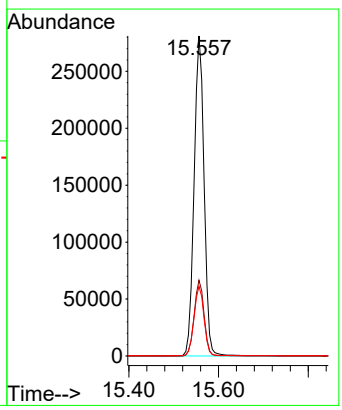




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142272.D
Acq: 01 May 2025 20:49

Tgt Ion:264 Resp: 434416

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.4	27.6
265	21.7	17.3	25.9



Sample Results: **BF142272.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142272.D
Acq On : 01 May 2025 20:49
Operator : RC/JU
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-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-BF043025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142272.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	10	17	24	rBV2	44972	80056	2.13%	0.288%
2	5.122	489	498	507	rVB	263609	386837	10.32%	1.393%
3	5.516	558	565	570	rBV	2400441	3123321	83.29%	11.246%
4	6.516	729	735	741	rBV	2323821	3199775	85.33%	11.521%
5	6.904	796	801	806	rVB	913621	1137200	30.33%	4.095%
6	7.463	890	896	901	rBV	1579476	1979489	52.79%	7.127%
7	7.716	935	939	944	rBV	65469	76034	2.03%	0.274%
8	8.186	1014	1019	1024	rBV	1212533	1467331	39.13%	5.283%
9	9.263	1196	1202	1207	rBV	2990144	3749811	100.00%	13.502%
10	9.939	1312	1317	1322	rBV	1200507	1459537	38.92%	5.255%
11	10.651	1433	1438	1443	rBV	299506	359688	9.59%	1.295%
12	10.727	1445	1451	1461	rBV	1464188	1880841	50.16%	6.772%
13	11.427	1565	1570	1575	rBV	990758	1217066	32.46%	4.382%
14	11.951	1653	1659	1675	rBV2	161001	285002	7.60%	1.026%
15	12.733	1788	1792	1804	rBV3	33324	55424	1.48%	0.200%
16	13.015	1834	1840	1845	rBV	2352375	3042654	81.14%	10.956%
17	13.586	1934	1937	1946	rVB	27813	40223	1.07%	0.145%
18	13.910	1987	1992	1999	rBV	380813	564954	15.07%	2.034%
19	14.062	2013	2018	2026	rBV	917830	1210102	32.27%	4.357%
20	14.233	2043	2047	2054	rVB	55090	75075	2.00%	0.270%
21	14.545	2095	2100	2107	rBV	325517	511110	13.63%	1.840%
22	14.857	2149	2153	2163	rBV3	44879	83356	2.22%	0.300%
23	15.209	2208	2213	2214	rBV	58686	78458	2.09%	0.282%
24	15.557	2266	2272	2295	rBV	759580	1328743	35.43%	4.784%
25	16.104	2361	2365	2373	rVB3	38630	72767	1.94%	0.262%
26	17.268	2556	2563	2572	rBV4	97242	228053	6.08%	0.821%
27	17.680	2628	2633	2640	rBV5	32860	79884	2.13%	0.288%

Sum of corrected areas: 27772791

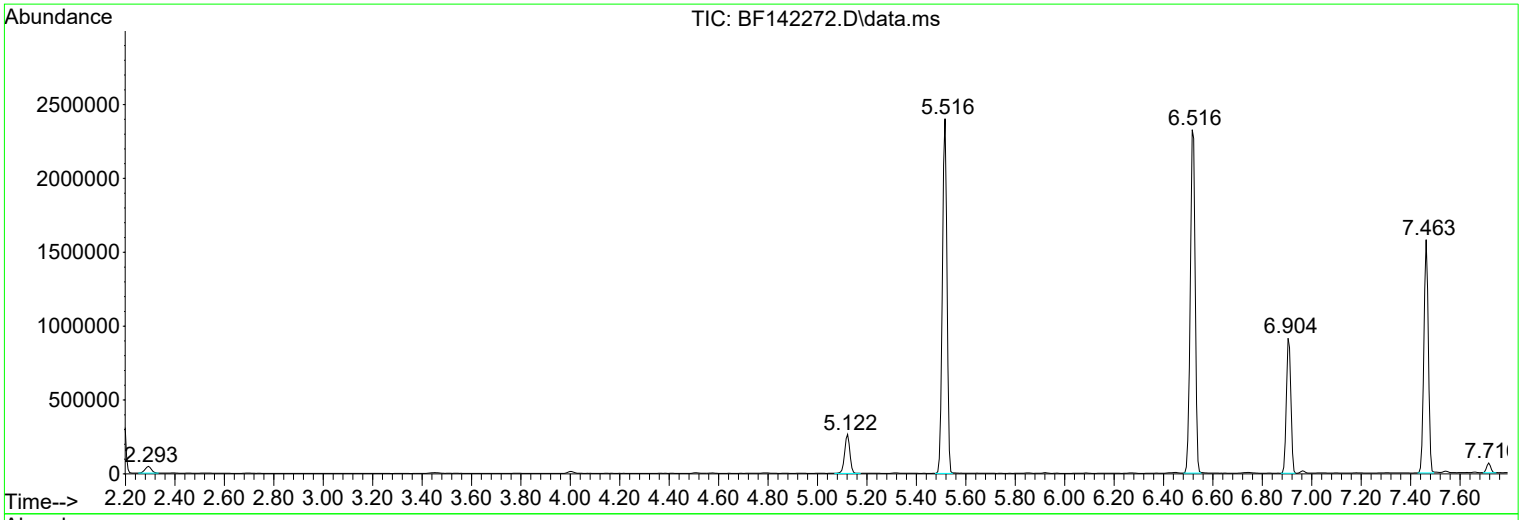
Sample Results: **BF142272.D**

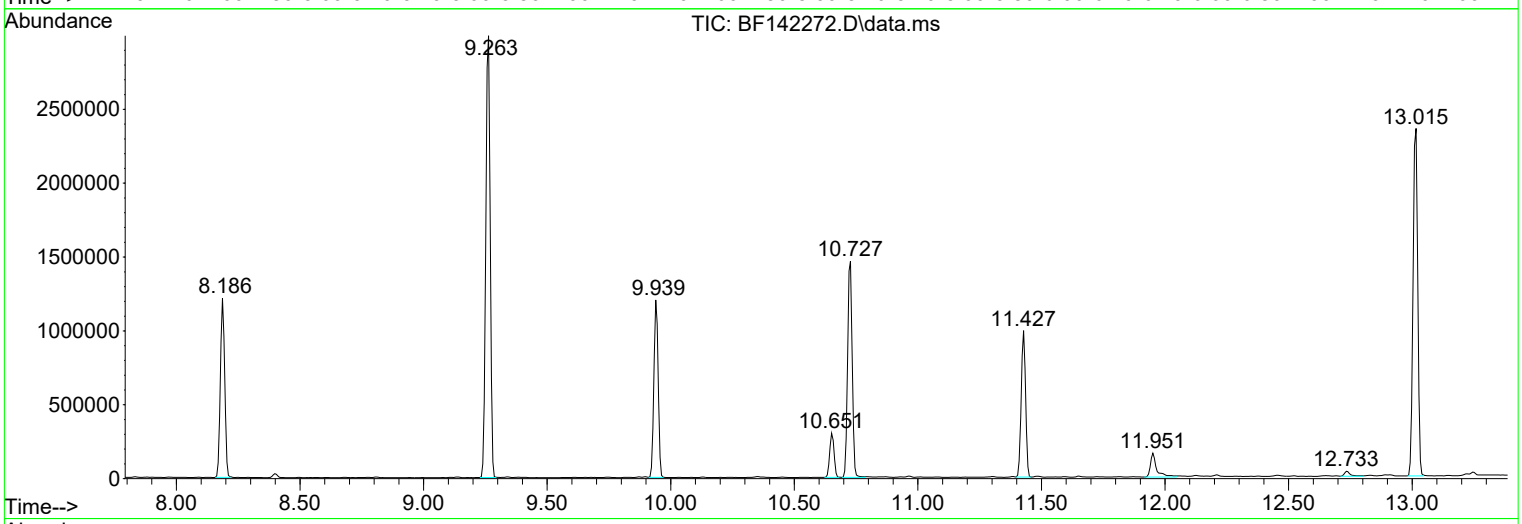
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142272.D
Acq On : 01 May 2025 20:49
Operator : RC/JU
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

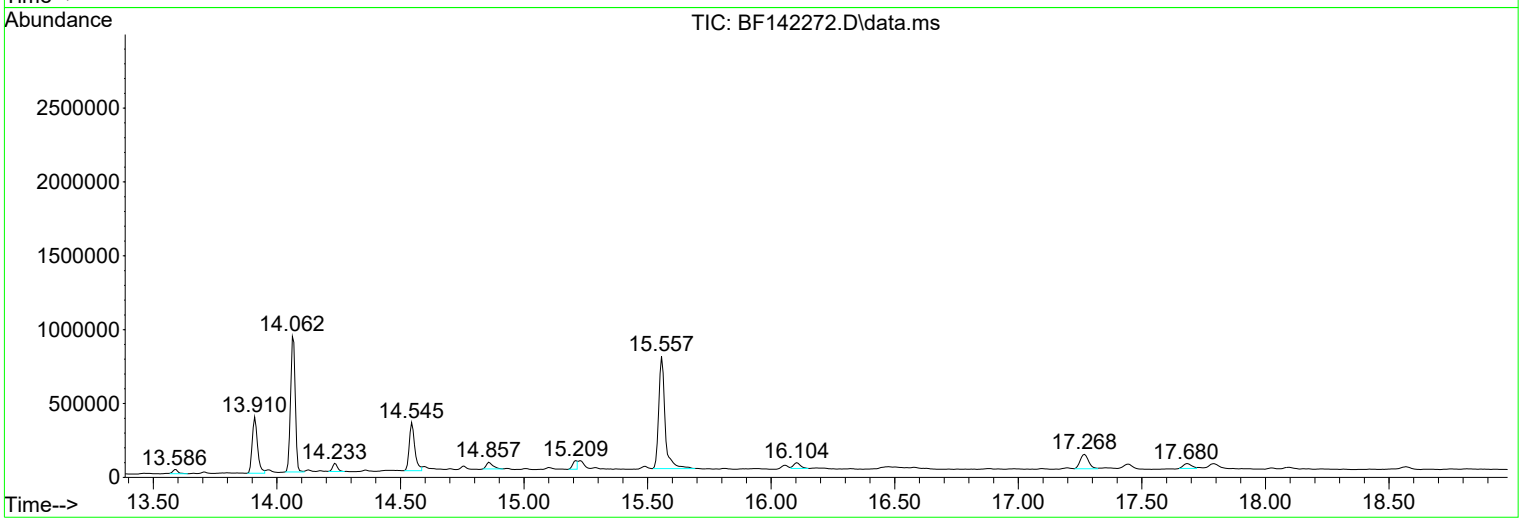
Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.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\BF050125\
Data File : BF142272.D
Acq On : 01 May 2025 20:49
Operator : RC/JU
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

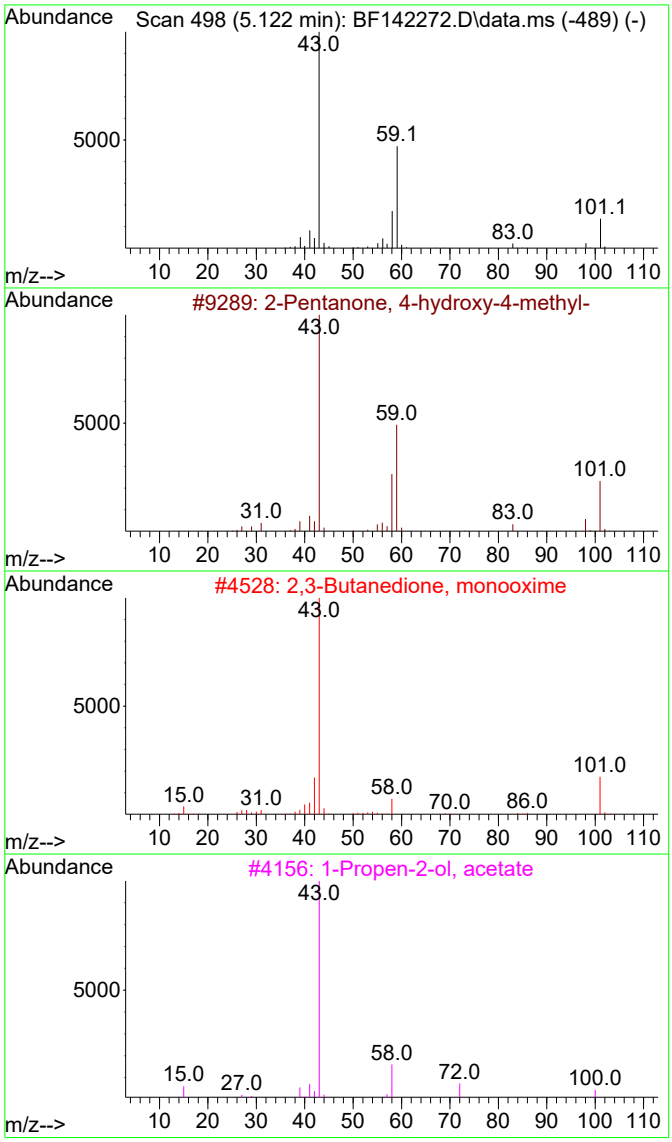
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

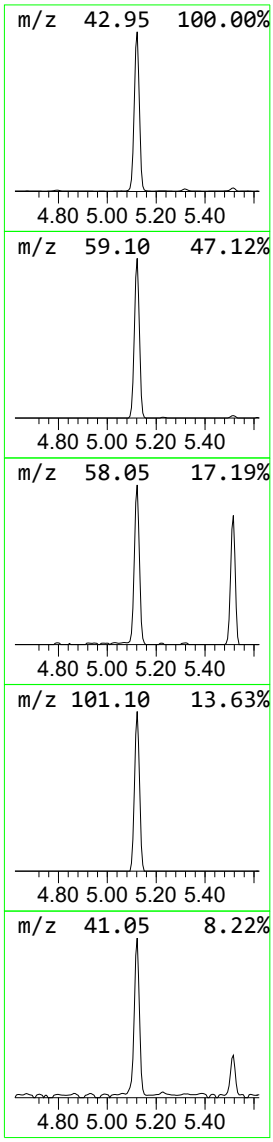
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.122	6.80 ng	386837	1,4-Dichlorobenzene-d4	6.904

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	Allyl acetate	100	C5H8O2	000591-87-7	9
5	Acetone	58	C3H6O	000067-64-1	7





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142272.D
Acq On : 01 May 2025 20:49
Operator : RC/JU
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

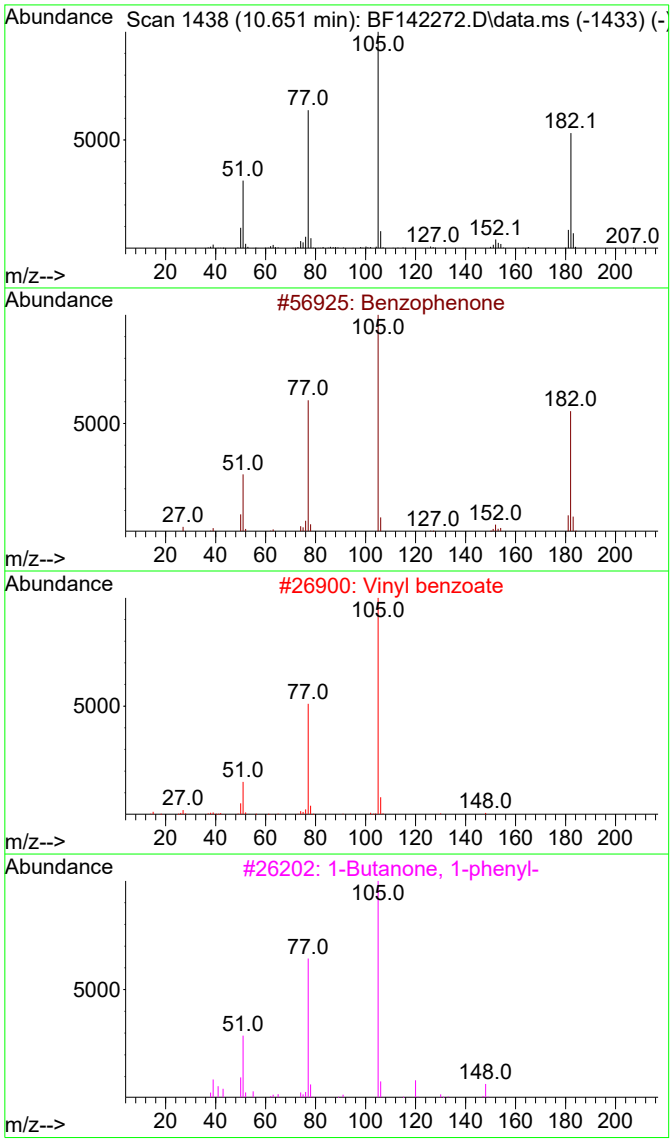
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

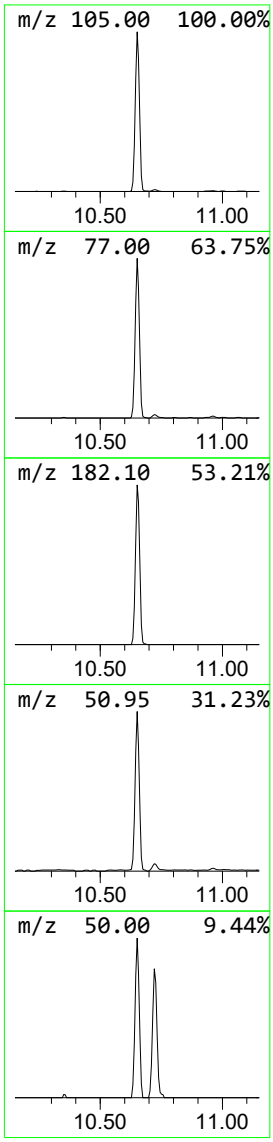
****

Peak Number 2 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	4.93 ng	359688	Acenaphthene-d10	9.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Vinyl benzoate	148	C9H8O2	000769-78-8	50
3	1-Butanone, 1-phenyl-	148	C10H12O	000495-40-9	50
4	Benzenepropanenitrile, .beta.-oxo-	145	C9H7NO	000614-16-4	50
5	1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142272.D
Acq On : 01 May 2025 20:49
Operator : RC/JU
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

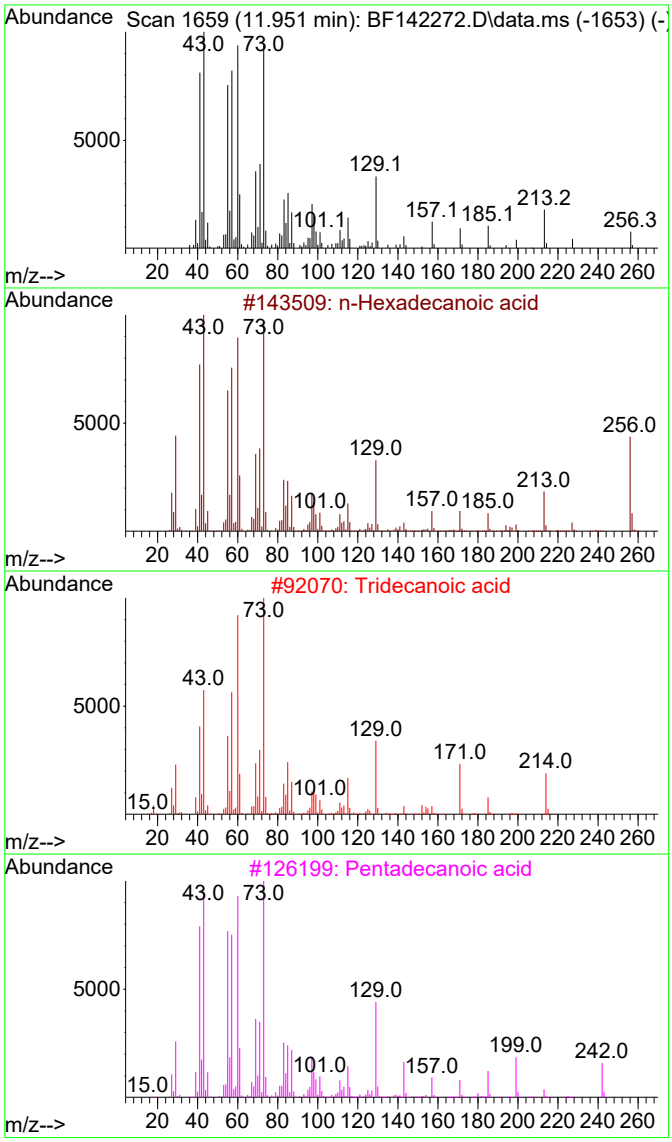
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

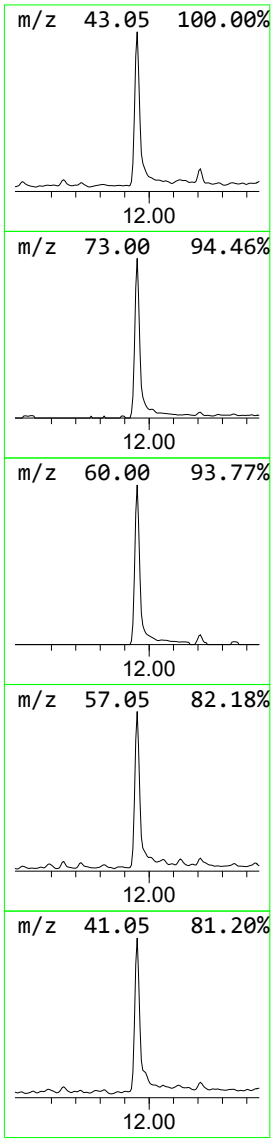
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.951	4.68 ng	285002	Phenanthrene-d10	11.427

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	91
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5	n-Decanoic acid	172	C10H20O2	000334-48-5	62





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142272.D
Acq On : 01 May 2025 20:49
Operator : RC/JU
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

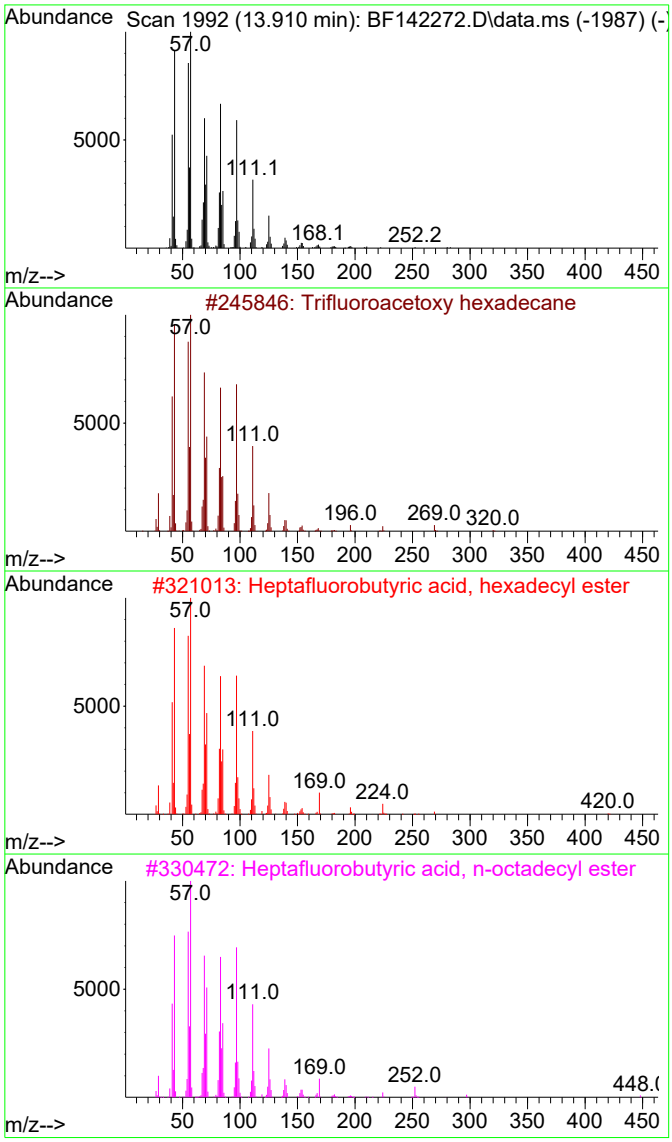
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

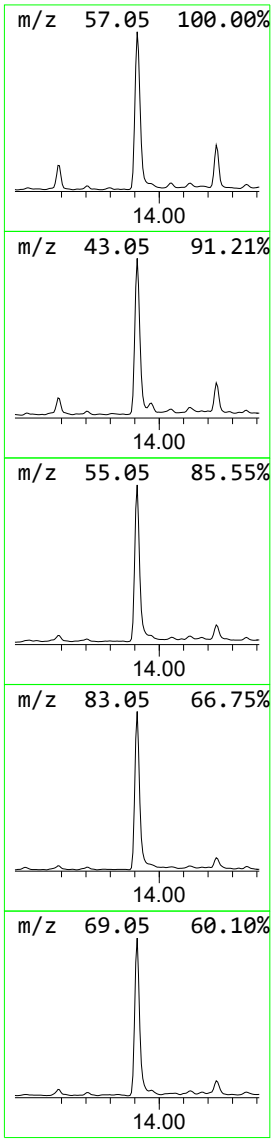
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.910	9.34 ng	564954	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	94
2	Heptafluorobutyric acid, hexadec...	438	C20H33F7O2	006385-15-5	94
3	Heptafluorobutyric acid, n-octad...	466	C22H37F7O2	000400-57-7	94
4	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94
5	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142272.D
Acq On : 01 May 2025 20:49
Operator : RC/JU
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

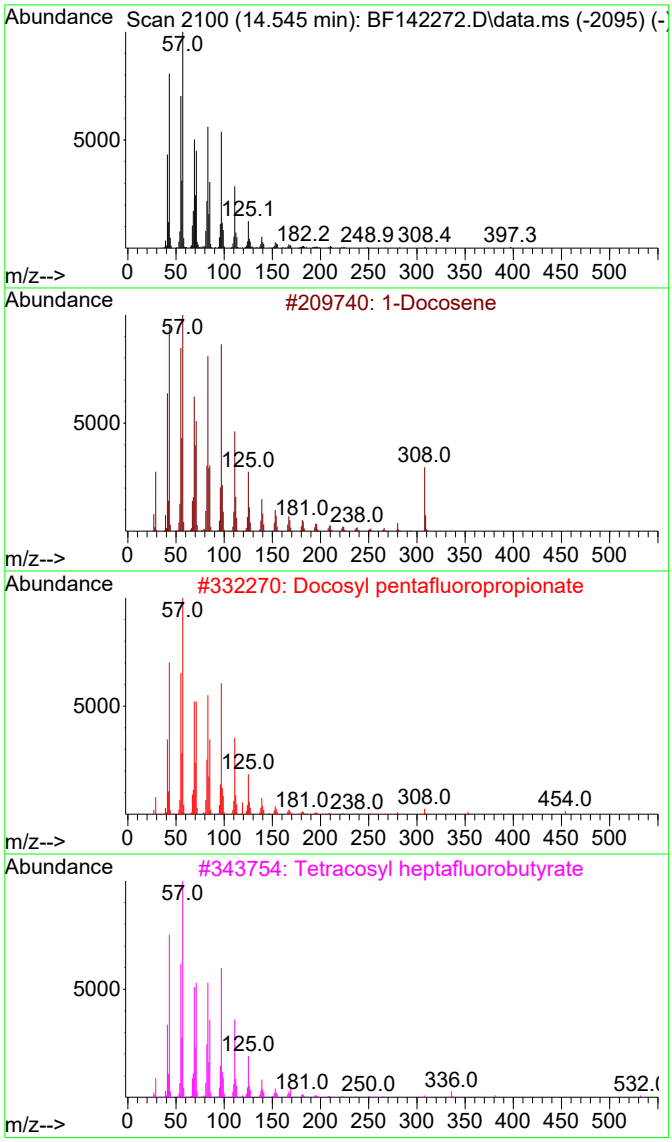
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

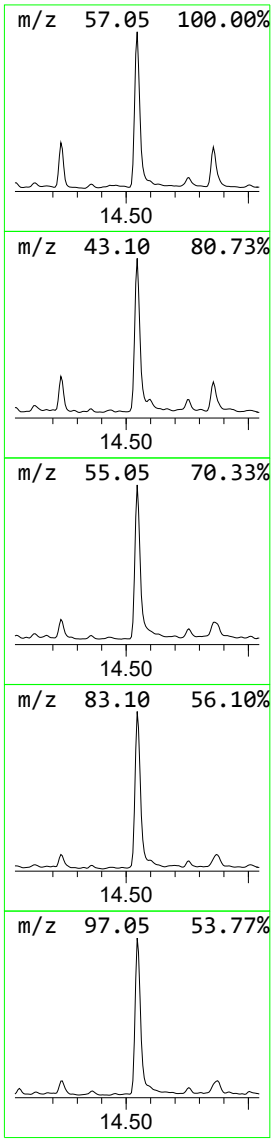
****

Peak Number 5 1-Docosene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.545	8.45 ng	511110	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Docosene	308	C22H44	001599-67-3	98
2	Docosyl pentafluoropropionate	472	C25H45F5O2	1000351-80-9	94
3	Tetracosyl heptafluorobutyrate	550	C28H49F7O2	1000351-83-7	94
4	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	94
5	1-Heneicosanol	312	C21H44O	015594-90-8	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142272.D
Acq On : 01 May 2025 20:49
Operator : RC/JU
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

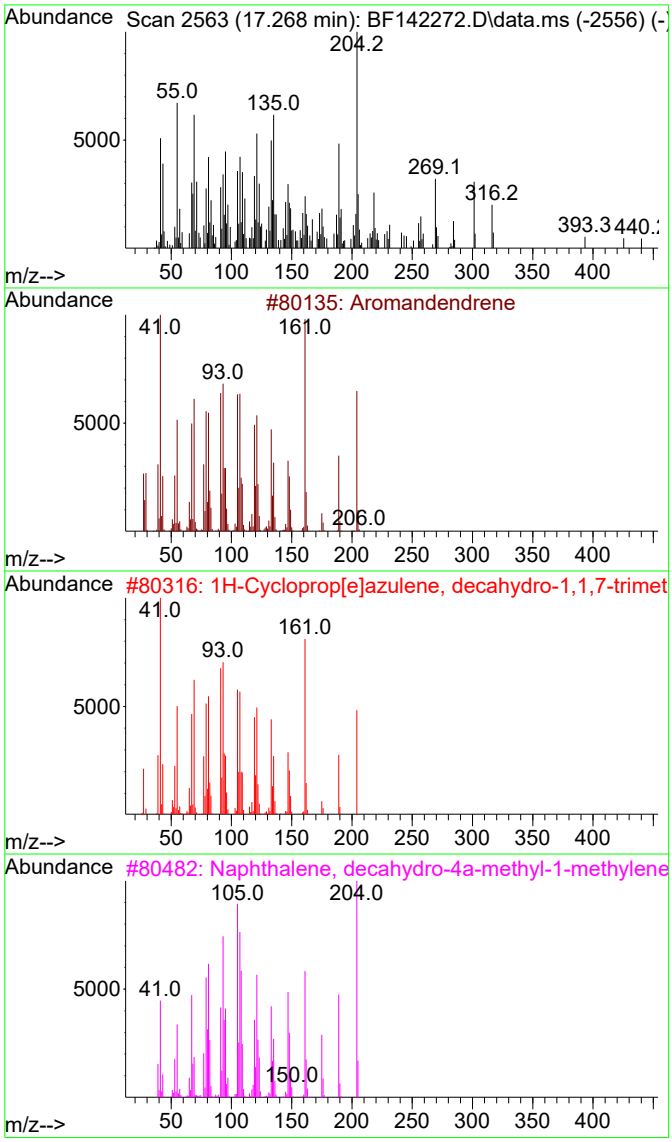
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

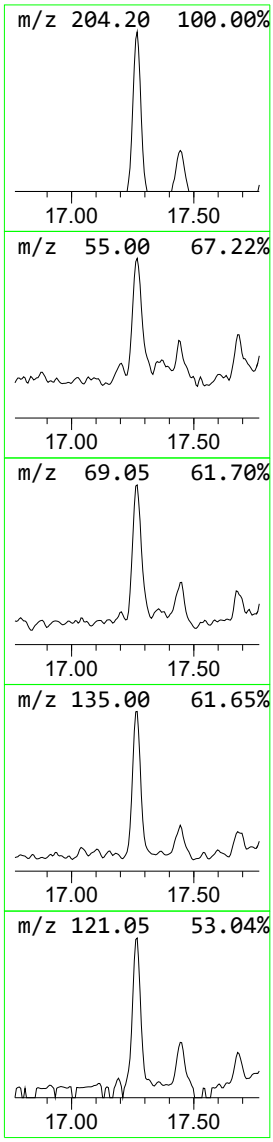
****

Peak Number 6 Aromandendrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.268	3.43 ng	228053	Perylene-d12	15.557

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Aromandendrene	204	C15H24	000489-39-4	90
2	1H-Cycloprop[e]azulene, decahydr...	204	C15H24	072747-25-2	78
3	Naphthalene, decahydro-4a-methyl...	204	C15H24	017066-67-0	60
4	1,1,4a-Trimethyl-5,6-dimethylene...	204	C15H24	1000193-60-8	58
5	1H-3a,7-Methanoazulene, octahydr...	204	C15H24	000508-55-4	58





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142272.D
Acq On : 01 May 2025 20:49
Operator : RC/JU
Sample : Q1901-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-170-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.122	6.8	ng	386837	1	6.904	1137200	20.0
Benzophenone	10.651	4.9	ng	359688	3	9.939	1459540	20.0
n-Hexadecanoic ...	11.951	4.7	ng	285002	4	11.427	1217070	20.0
Trifluoroacetox...	13.910	9.3	ng	564954	5	14.063	1210100	20.0
1-Docosene	14.545	8.4	ng	511110	5	14.063	1210100	20.0
Aromandendrene	17.268	3.4	ng	228053	6	15.557	1328740	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142267.D
Acq On : 01 May 2025 18:26
Operator : RC/JU
Sample : Q1901-06
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB04262025

Quant Time: May 02 01:07:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

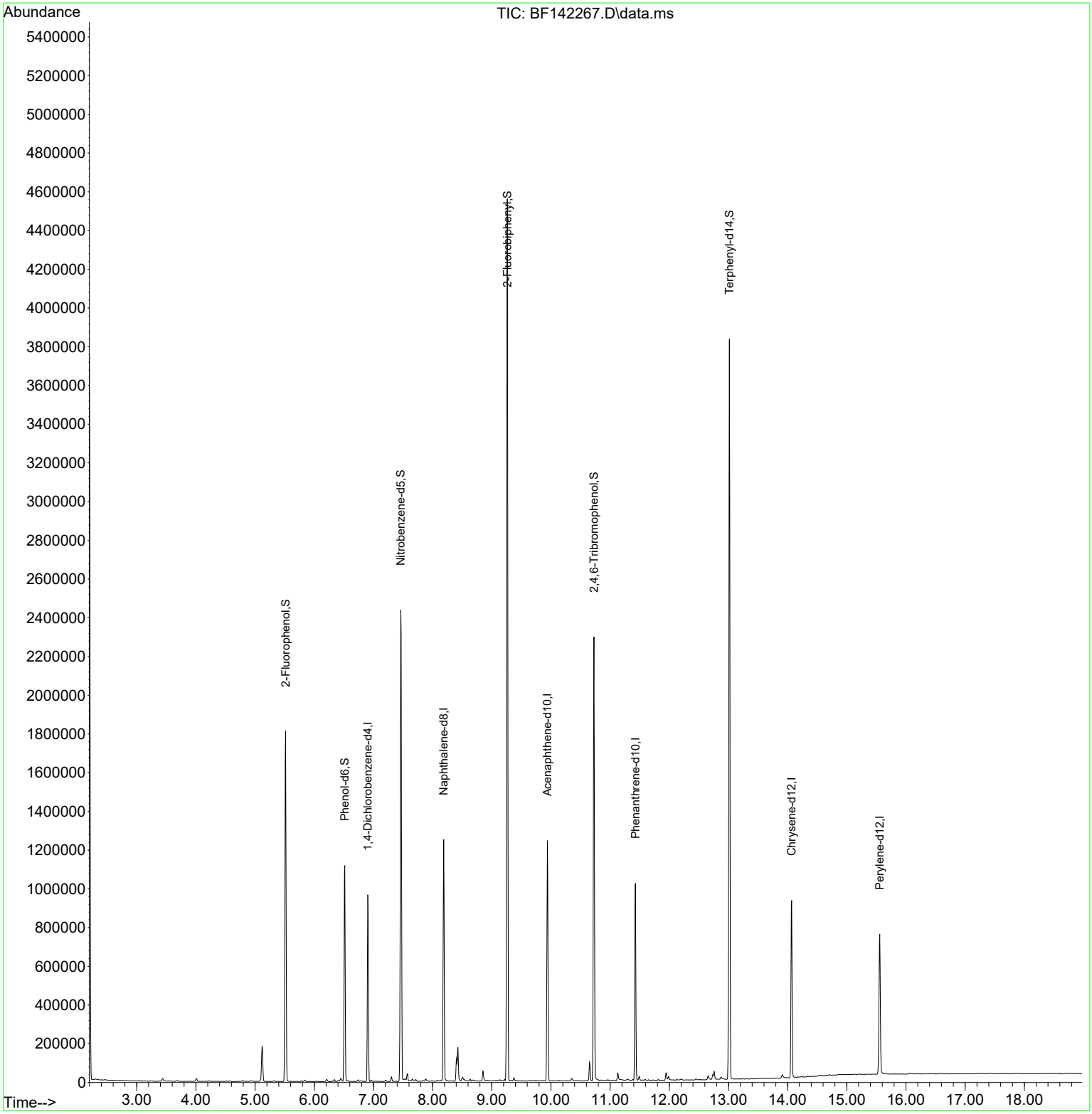
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	201475	20.000	ng	0.00
21) Naphthalene-d8	8.187	136	750141	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	355308	20.000	ng	-0.01
64) Phenanthrene-d10	11.428	188	506536	20.000	ng	0.00
76) Chrysene-d12	14.069	240	447799	20.000	ng	0.00
86) Perylene-d12	15.557	264	425092	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	671365	53.218	ng	0.00
7) Phenol-d6	6.516	99	488672	32.078	ng	-0.01
23) Nitrobenzene-d5	7.463	82	1036374	90.766	ng	-0.01
42) 2,4,6-Tribromophenol	10.728	330	387463	119.620	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	2015860	79.995	ng	0.00
79) Terphenyl-d14	13.016	244	1820619	59.132	ng	0.00
Target Compounds						Qvalue

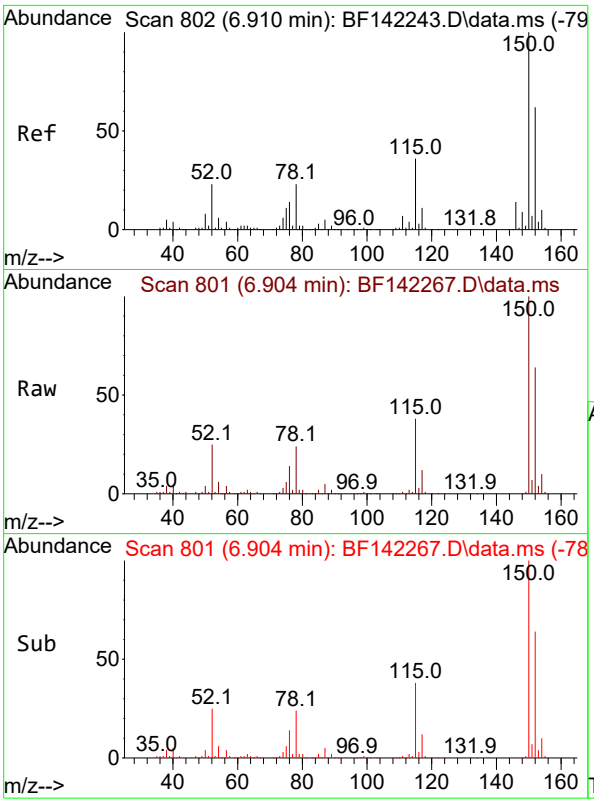
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142267.D
Acq On : 01 May 2025 18:26
Operator : RC/JU
Sample : Q1901-06
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB04262025

Quant Time: May 02 01:07:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration



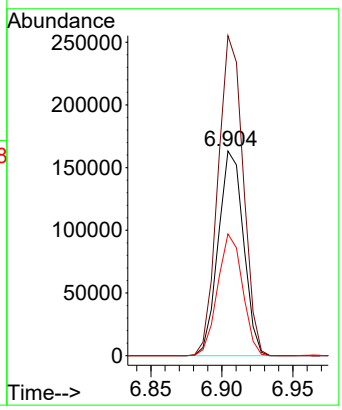


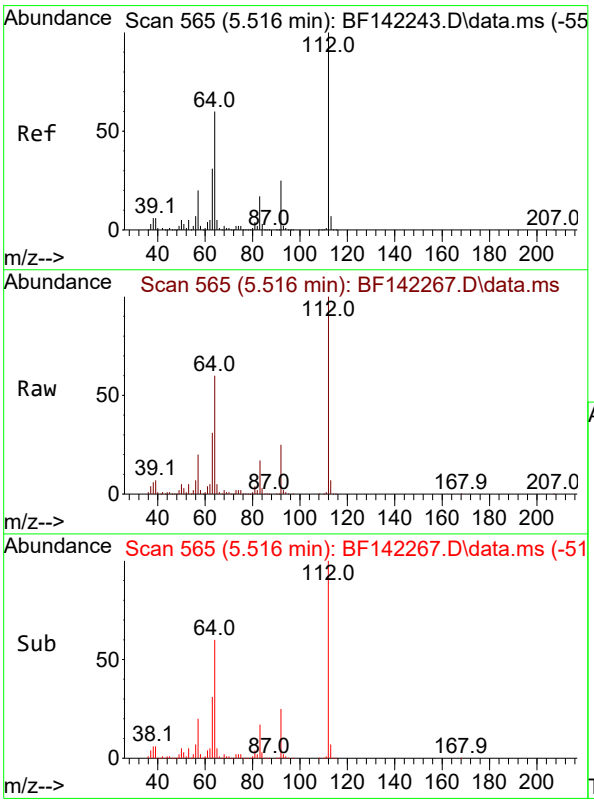
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Instrument :
BNA_F
ClientSampleId :
FB04262025

Tgt Ion:152 Resp: 201475

Ion	Ratio	Lower	Upper
152	100		
150	156.4	130.2	195.2
115	59.5	47.0	70.4

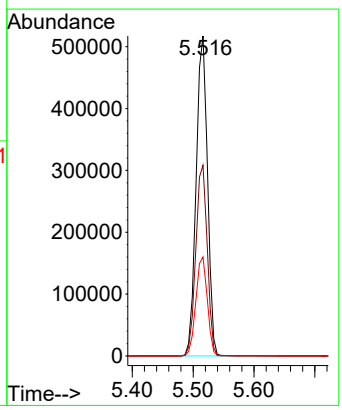


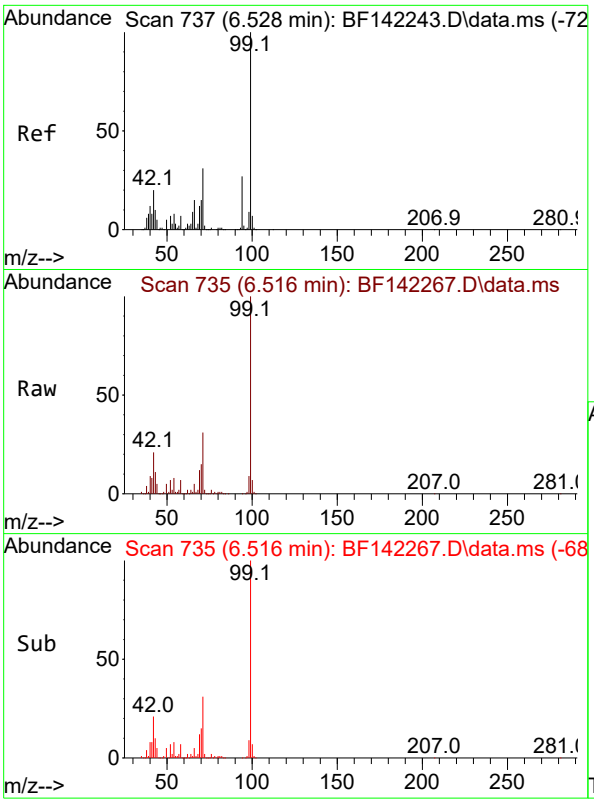


#5
2-Fluorophenol
Concen: 53.218 ng
RT: 5.516 min Scan# 565
Delta R.T. -0.000 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Tgt Ion:112 Resp: 671365

Ion	Ratio	Lower	Upper
112	100		
64	59.6	48.4	72.6
63	31.0	24.8	37.2



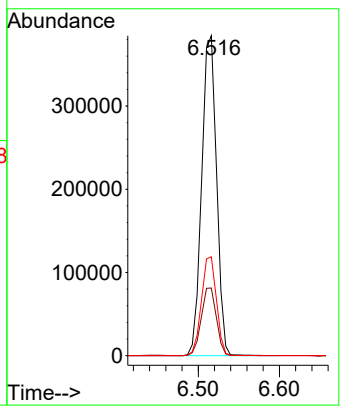


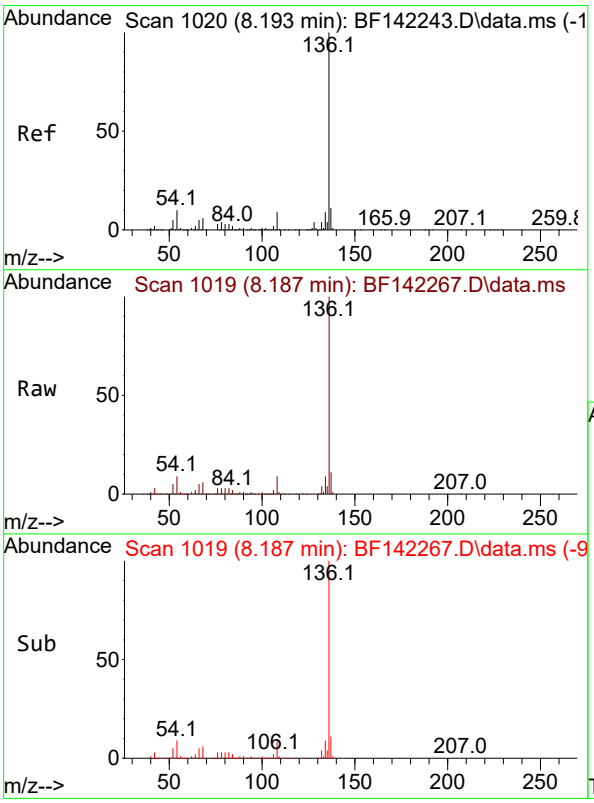
#7
Phenol-d6
Concen: 32.078 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Instrument :
BNA_F
ClientSampleId :
FB04262025

Tgt Ion: 99 Resp: 488672

Ion	Ratio	Lower	Upper
99	100		
42	21.1	16.3	24.5
71	30.9	25.0	37.4

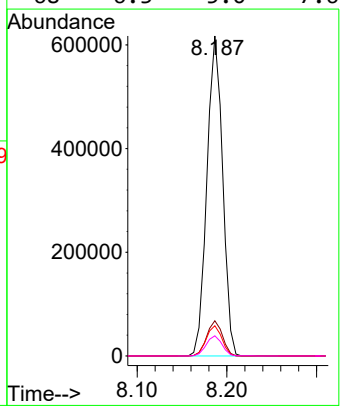


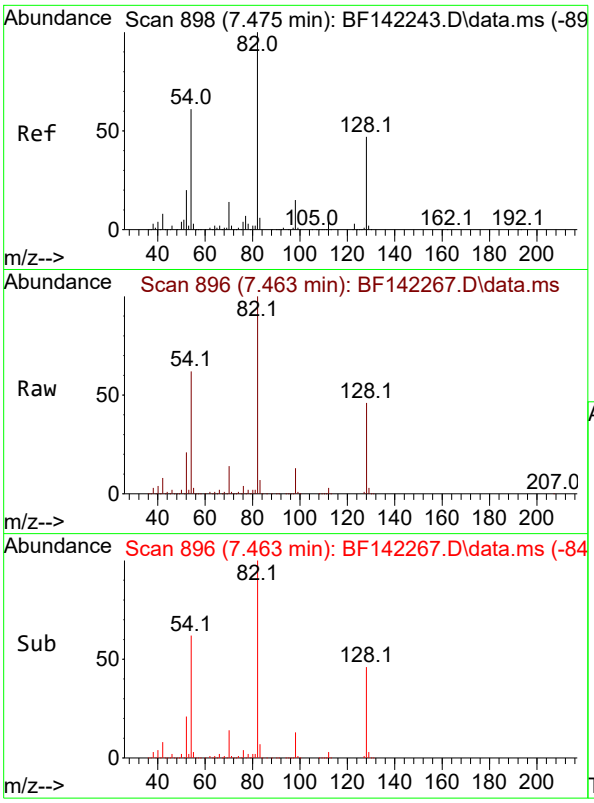


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.187 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Tgt Ion:136 Resp: 750141

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	9.4	7.7	11.5
68	6.3	5.0	7.6



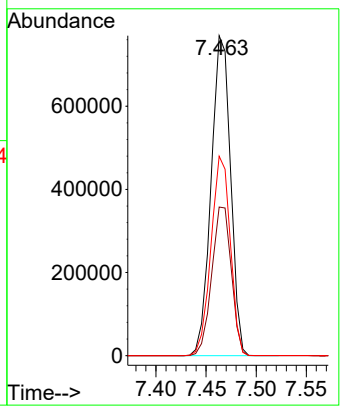


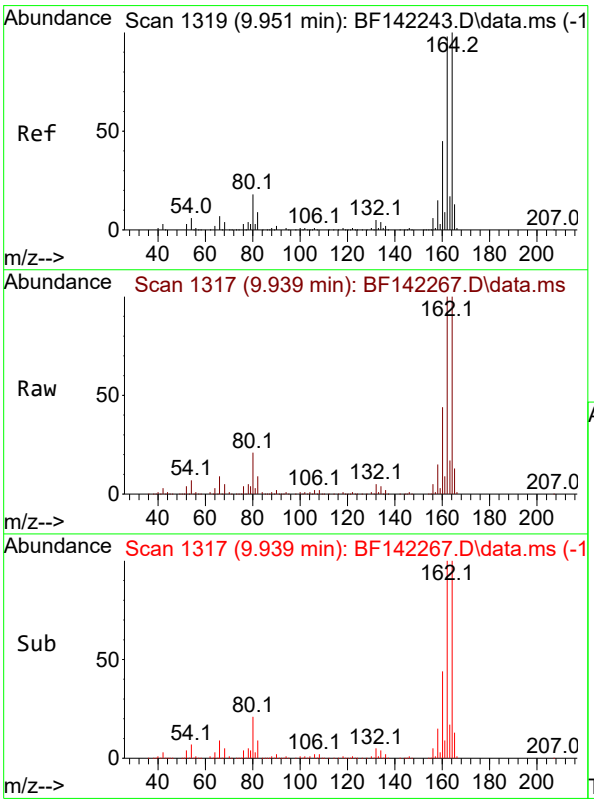
#23
Nitrobenzene-d5
Concen: 90.766 ng
RT: 7.463 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Instrument :
BNA_F
ClientSampleId :
FB04262025

Tgt Ion: 82 Resp: 1036374

Ion	Ratio	Lower	Upper
82	100		
128	46.4	37.0	55.6
54	62.4	48.0	72.0

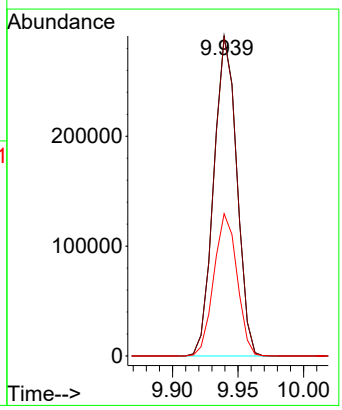


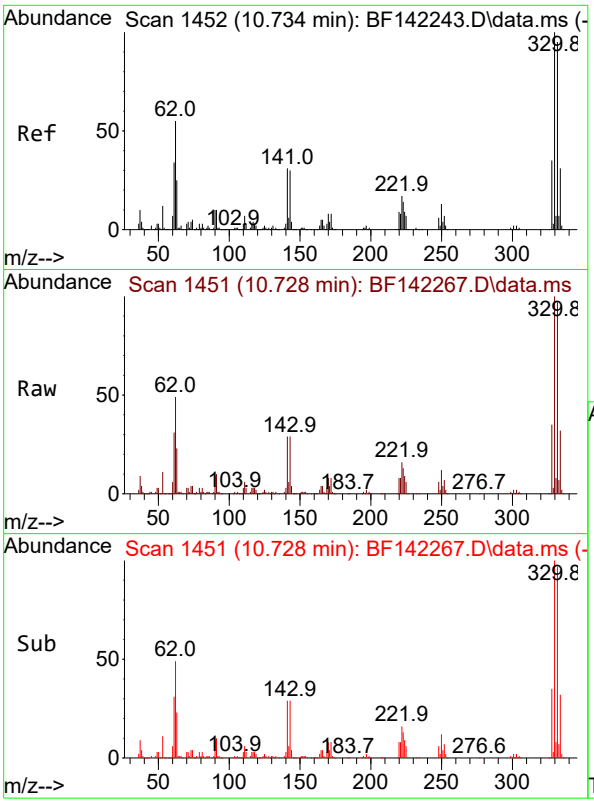


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.012 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Tgt Ion:164 Resp: 355308

Ion	Ratio	Lower	Upper
164	100		
162	99.5	78.6	117.8
160	44.5	35.7	53.5



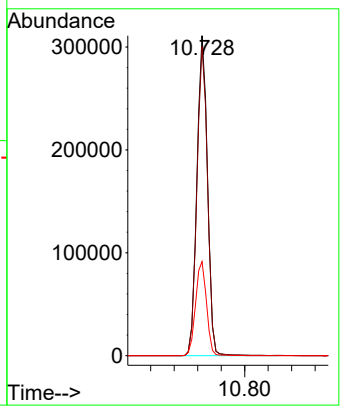


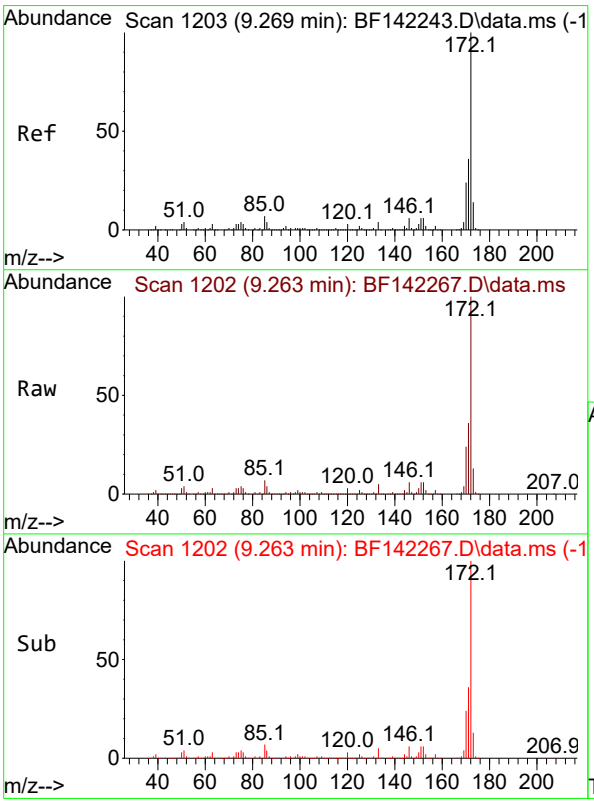
#42
2,4,6-Tribromophenol
Concen: 119.620 ng
RT: 10.728 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Instrument :
BNA_F
ClientSampleId :
FB04262025

Tgt Ion:330 Resp: 387463

Ion	Ratio	Lower	Upper
330	100		
332	97.0	76.5	114.7
141	30.6	24.3	36.5

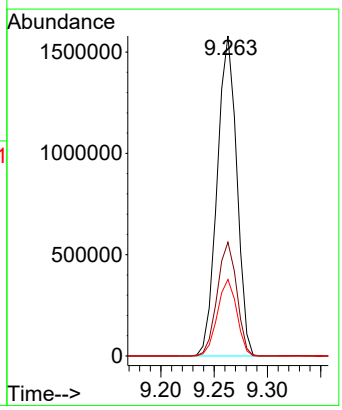


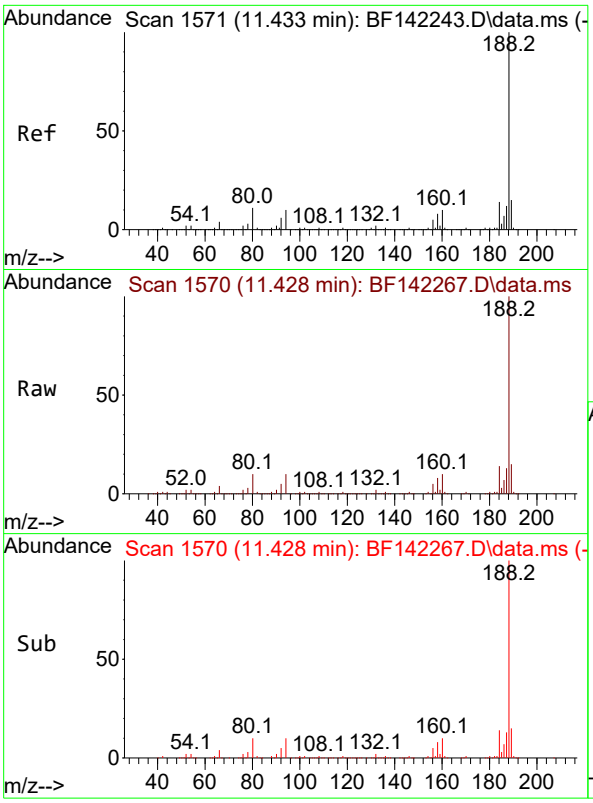


#45
2-Fluorobiphenyl
Concen: 79.995 ng
RT: 9.263 min Scan# 1202
Delta R.T. -0.006 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Tgt Ion:172 Resp: 2015860

Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.0	43.4
170	23.9	19.4	29.0



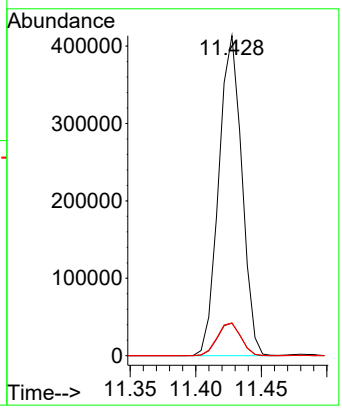


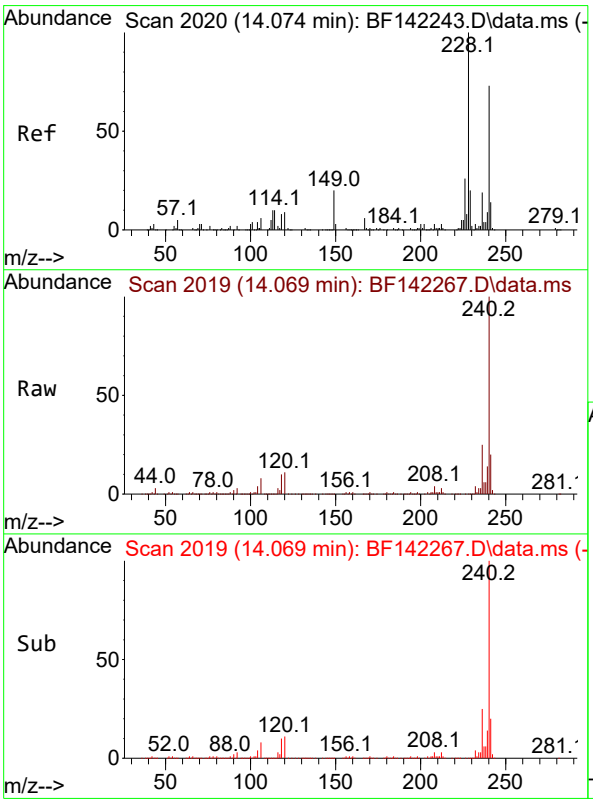
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Instrument :
BNA_F
ClientSampleId :
FB04262025

Tgt Ion:188 Resp: 506536

Ion	Ratio	Lower	Upper
188	100		
94	10.1	8.2	12.2
80	10.3	8.6	12.8

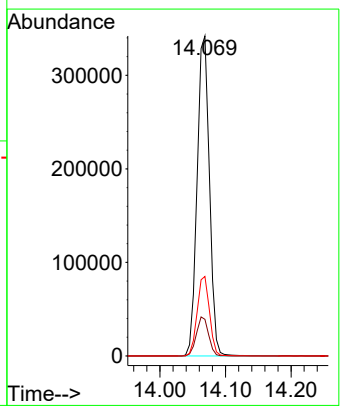


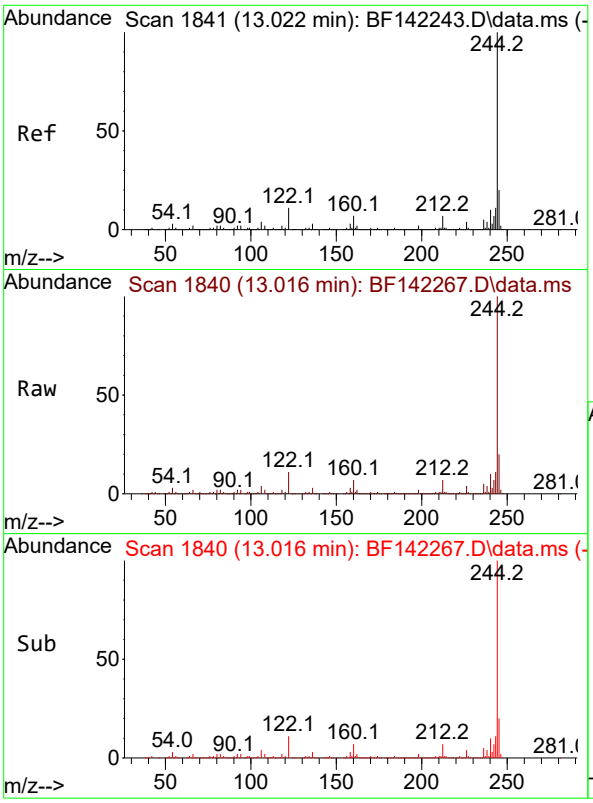


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Tgt Ion:240 Resp: 447799

Ion	Ratio	Lower	Upper
240	100		
120	11.4	10.1	15.1
236	24.9	20.5	30.7



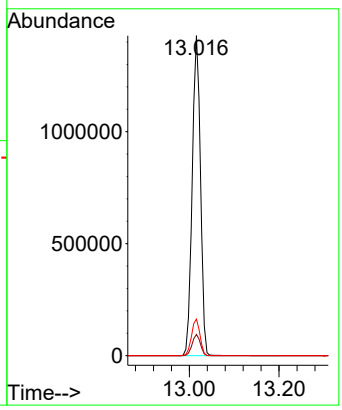


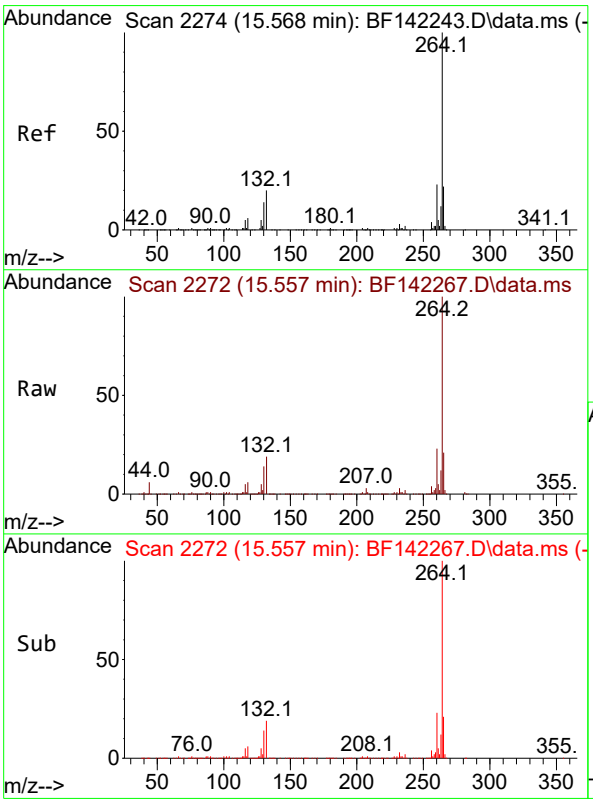
#79
Terphenyl-d14
Concen: 59.132 ng
RT: 13.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Instrument :
BNA_F
ClientSampleId :
FB04262025

Tgt Ion:244 Resp: 1820619

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.3	7.9
122	11.5	9.1	13.7

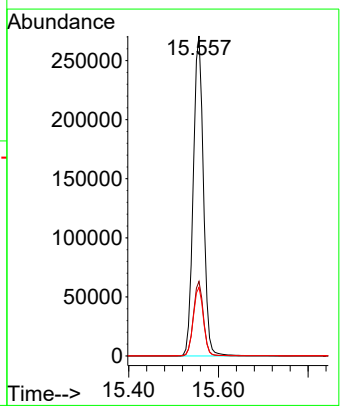




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.012 min
Lab File: BF142267.D
Acq: 01 May 2025 18:26

Tgt Ion:264 Resp: 425092

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.4	27.6
265	21.5	17.3	25.9



Sample Results: **BF142267.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142267.D
Acq On : 01 May 2025 18:26
Operator : RC/JU
Sample : Q1901-06
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB04262025

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-BF043025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142267.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.116	487	497	504	rVB	178676	268667	4.62%	0.914%
2	5.516	559	565	570	rBV	1809341	2362210	40.64%	8.034%
3	6.516	729	735	740	rBV	1114459	1428083	24.57%	4.857%
4	6.904	796	801	806	rBV	964357	1179363	20.29%	4.011%
5	7.463	890	896	901	rBV	2434953	3301525	56.80%	11.228%
6	8.187	1014	1019	1024	rBV	1245615	1516234	26.09%	5.157%
7	8.404	1051	1056	1057	rBV	116729	135922	2.34%	0.462%
8	8.428	1057	1060	1068	rVB	172837	220515	3.79%	0.750%
9	8.851	1127	1132	1141	rBV	49152	74664	1.28%	0.254%
10	9.263	1196	1202	1207	rVB	4554455	5812474	100.00%	19.768%
11	9.939	1312	1317	1322	rBV	1239659	1516361	26.09%	5.157%
12	10.651	1433	1438	1445	rVB	93247	116058	2.00%	0.395%
13	10.728	1445	1451	1456	rBV	2292327	2924219	50.31%	9.945%
14	11.128	1515	1519	1526	rBV	39600	62616	1.08%	0.213%
15	11.428	1565	1570	1575	rBV	1016846	1249501	21.50%	4.249%
16	13.016	1834	1840	1845	rBV	3822611	4879893	83.96%	16.596%
17	14.069	2013	2019	2027	rBV	915794	1217833	20.95%	4.142%
18	15.557	2265	2272	2286	rBV	722425	1137521	19.57%	3.869%

Sum of corrected areas: 29403659

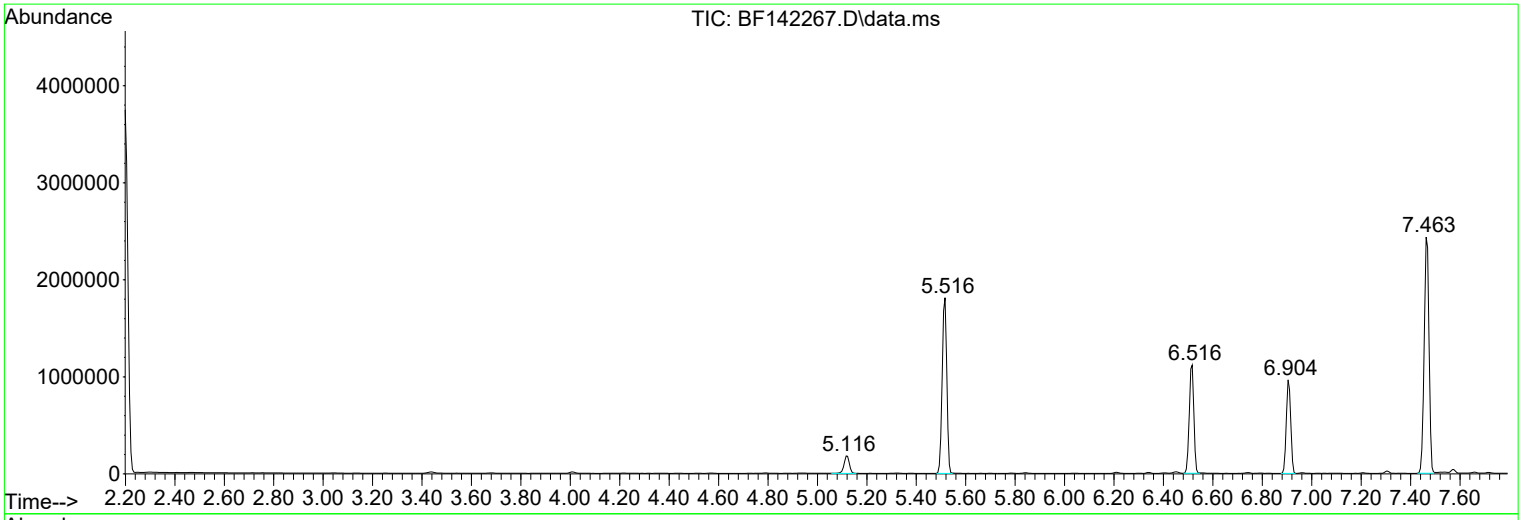
Sample Results: **BF142267.D**

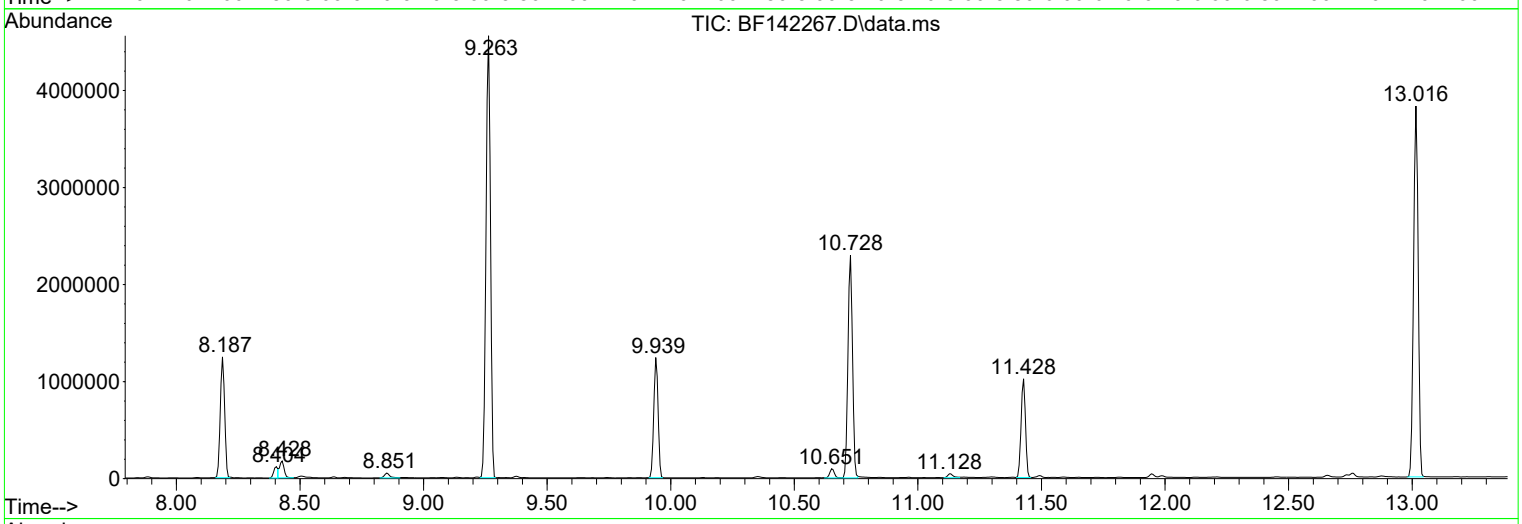
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142267.D
Acq On : 01 May 2025 18:26
Operator : RC/JU
Sample : Q1901-06
Misc :
ALS Vial : 19 Sample Multiplier: 1

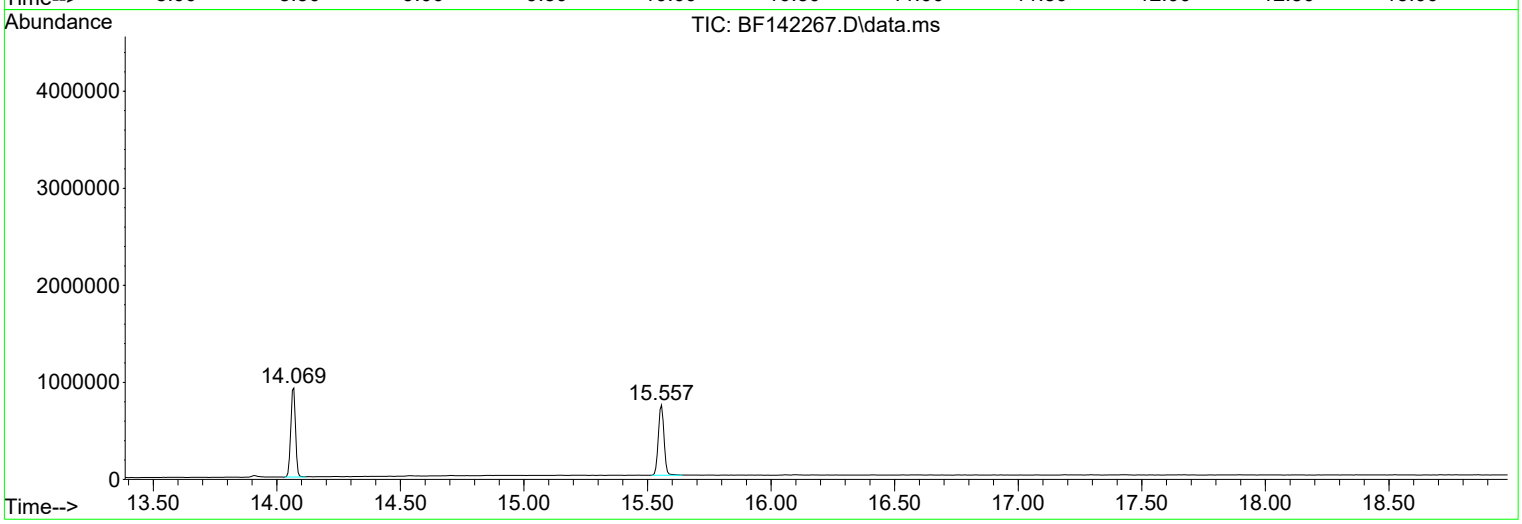
Instrument :
BNA_F
ClientSampleId :
FB04262025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.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\BF050125\
Data File : BF142267.D
Acq On : 01 May 2025 18:26
Operator : RC/JU
Sample : Q1901-06
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB04262025

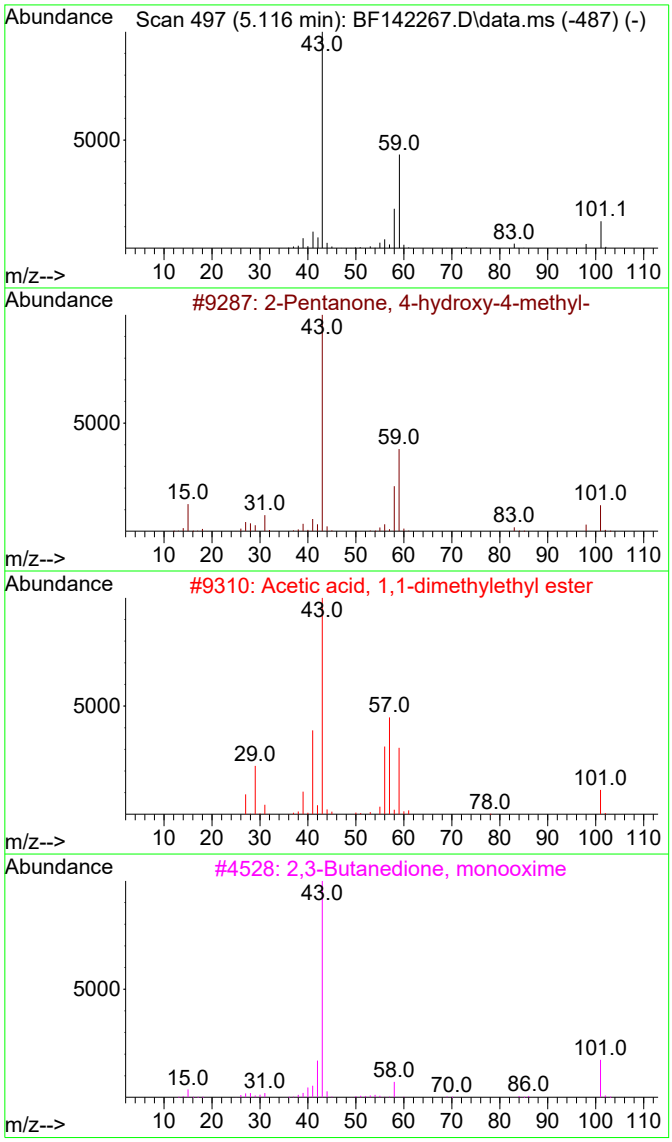
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

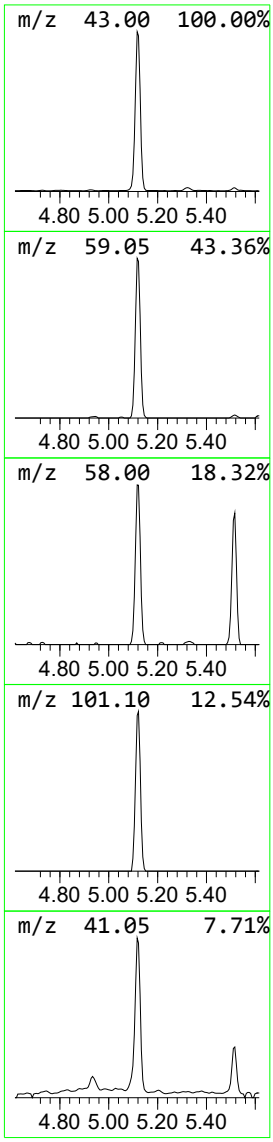
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	4.56 ng	268667	1,4-Dichlorobenzene-d4	6.904

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	78
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	28
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Acetone	58	C3H6O	000067-64-1	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142267.D
Acq On : 01 May 2025 18:26
Operator : RC/JU
Sample : Q1901-06
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB04262025

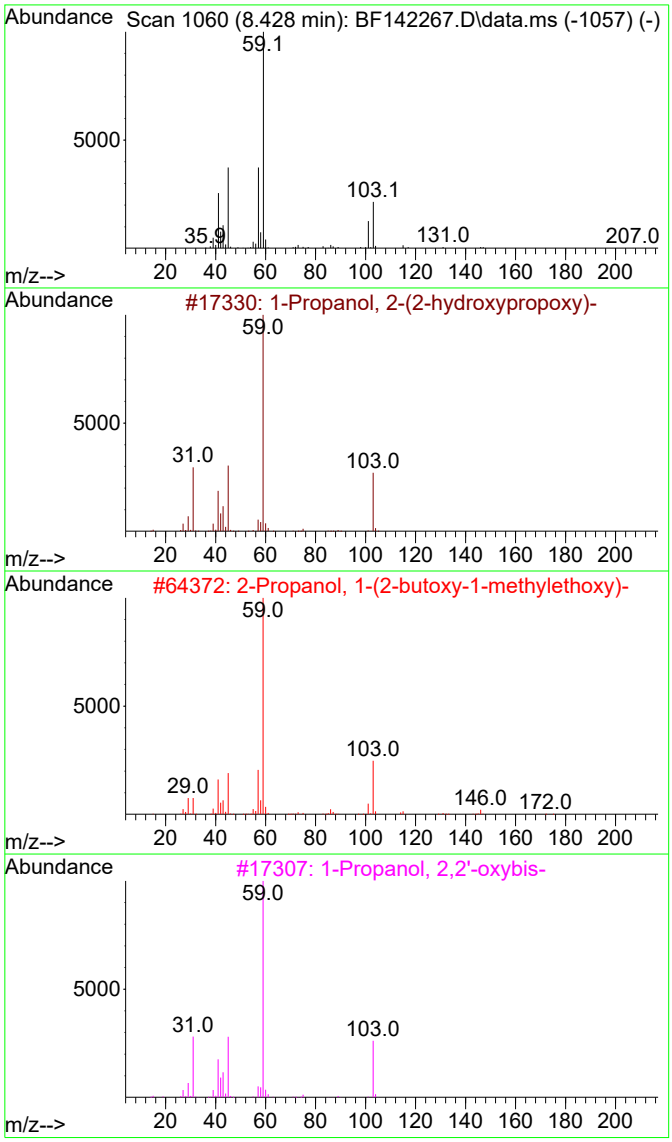
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

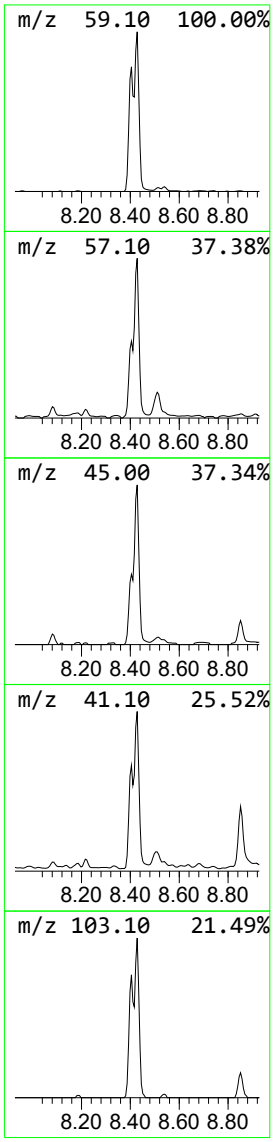
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 1-Propanol, 2-(2-hydroxypro... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.428	2.91 ng	220515	Naphthalene-d8	8.187

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol, 2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	78
2	2-Propanol, 1-(2-butoxy-1-methyl...	190	C10H22O3	029911-28-2	78
3	1-Propanol, 2,2'-oxybis-	134	C6H14O3	000108-61-2	78
4	1-(1-tert-Butoxypropan-2-yloxy)p...	190	C10H22O3	132739-31-2	64
5	Dipropylene glycol (isomer 3)	134	C6H14O3	1000506-25-5	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142267.D
Acq On : 01 May 2025 18:26
Operator : RC/JU
Sample : Q1901-06
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB04262025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.116	4.6	ng	268667	1	6.904	1179360	20.0
1-Propanol, 2-(...	8.428	2.9	ng	220515	2	8.187	1516230	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050063.D
Acq On : 01 May 2025 14:04
Operator : RC/JU
Sample : PB167779BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167779BL

Quant Time: May 01 14:50:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration

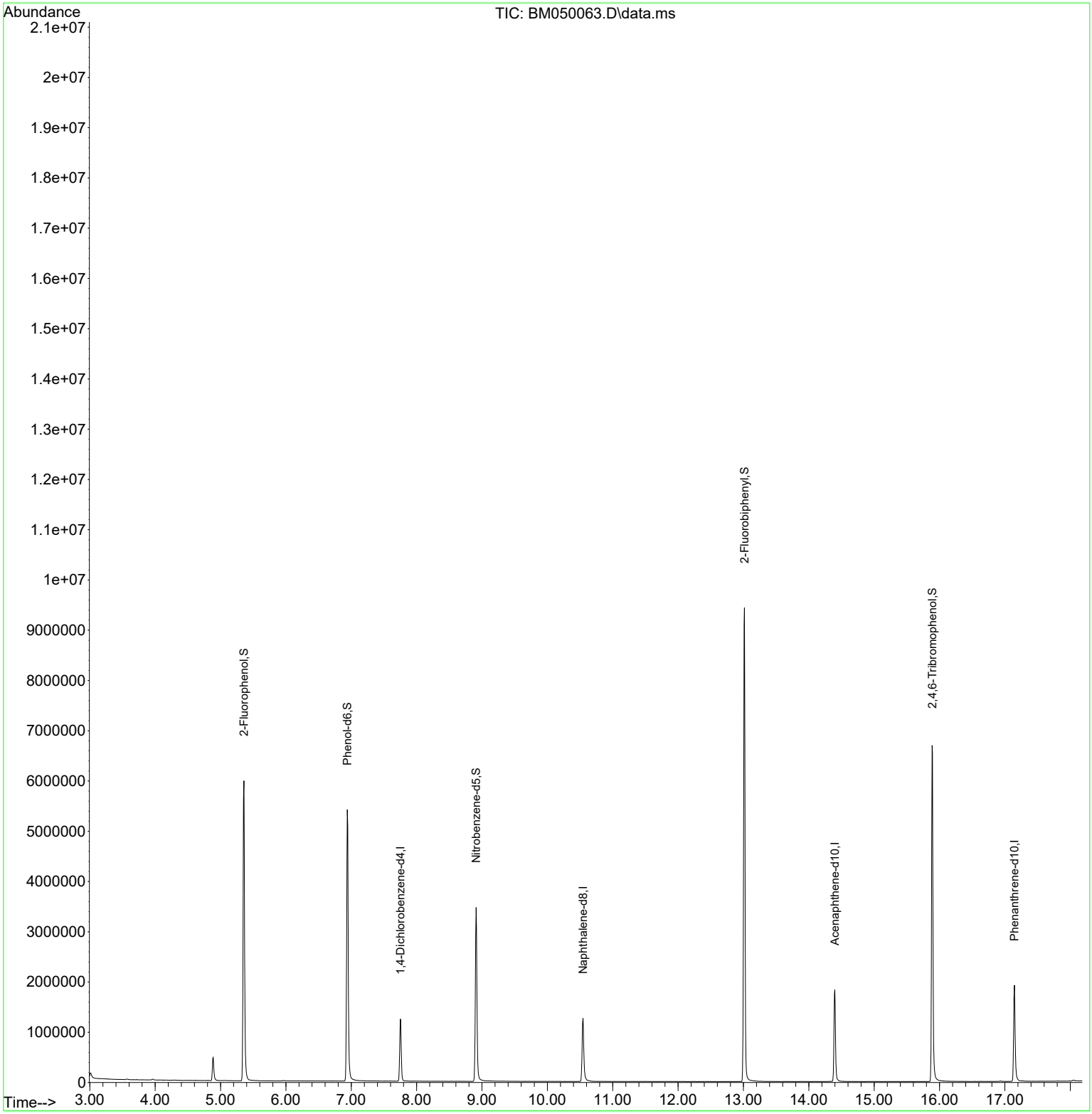
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.751	152	362102	20.000	ng	-0.02
21) Naphthalene-d8	10.545	136	1207361	20.000	ng	-0.02
39) Acenaphthene-d10	14.398	164	720688	20.000	ng	-0.01
64) Phenanthrene-d10	17.145	188	1342353	20.000	ng	-0.01
76) Chrysene-d12	21.386	240	1132572	20.000	ng	-0.01
86) Perylene-d12	24.374	264	1130011	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	2945826	142.456	ng	0.00
7) Phenol-d6	6.940	99	3469180	133.478	ng	-0.01
23) Nitrobenzene-d5	8.910	82	2142058	87.425	ng	-0.02
42) 2,4,6-Tribromophenol	15.892	330	1478724	138.765	ng	-0.01
45) 2-Fluorobiphenyl	13.016	172	5379270	88.299	ng	-0.02
79) Terphenyl-d14	19.768	244	8132476	106.253	ng	-0.01
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050063.D
Acq On : 01 May 2025 14:04
Operator : RC/JU
Sample : PB167779BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167779BL

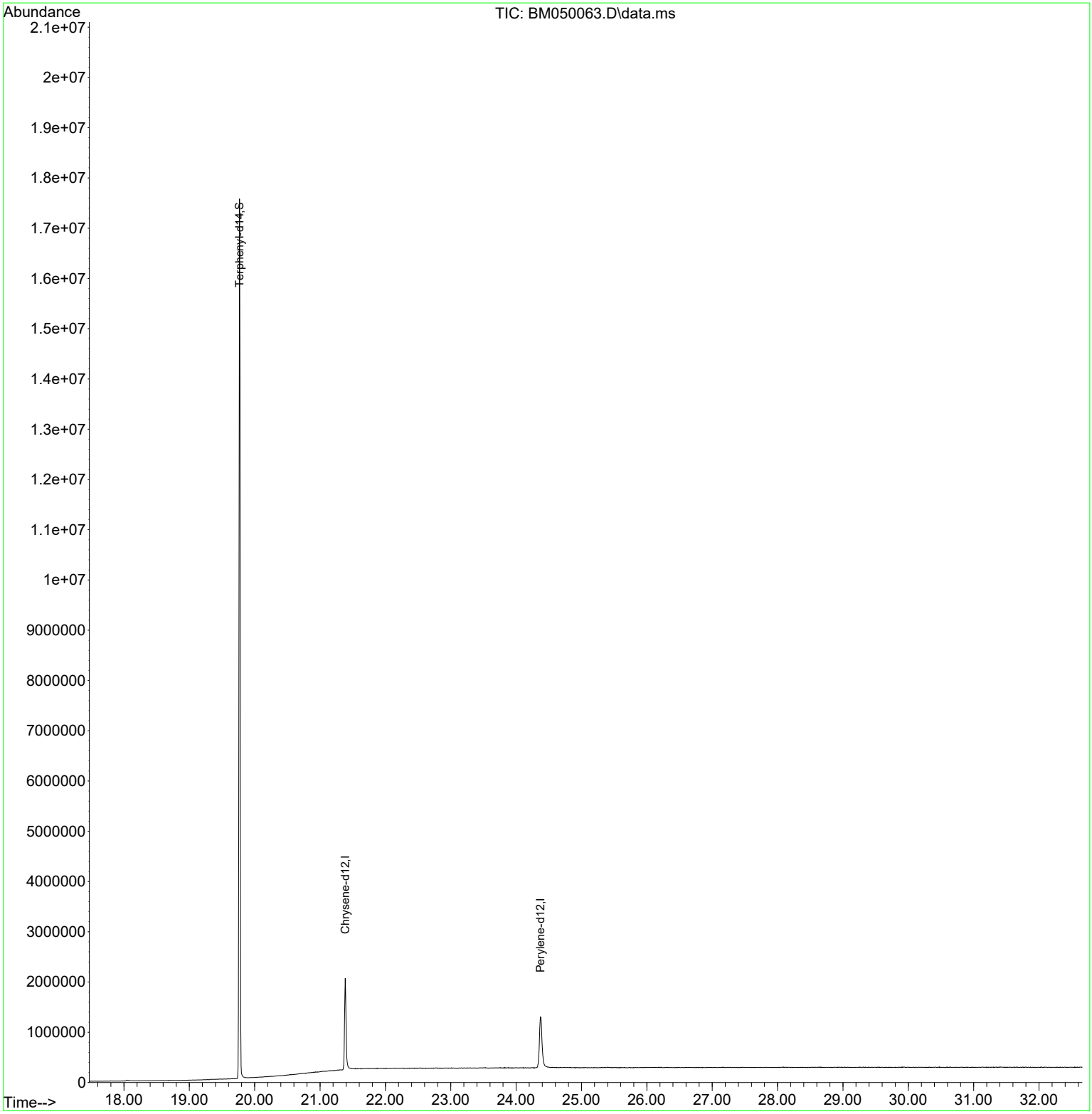
Quant Time: May 01 14:50:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration

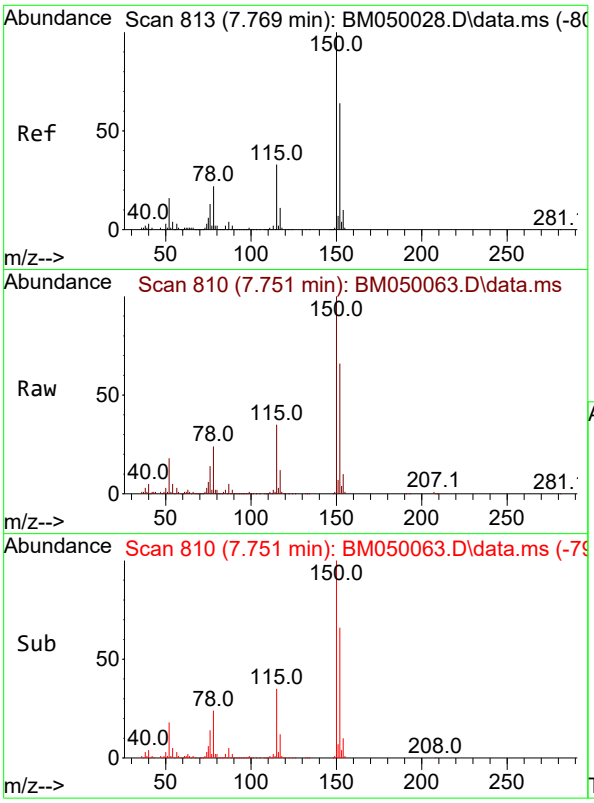


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050063.D
Acq On : 01 May 2025 14:04
Operator : RC/JU
Sample : PB167779BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167779BL

Quant Time: May 01 14:50:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration



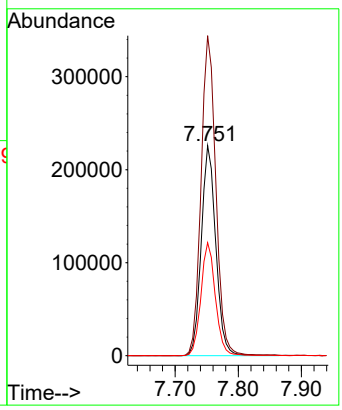


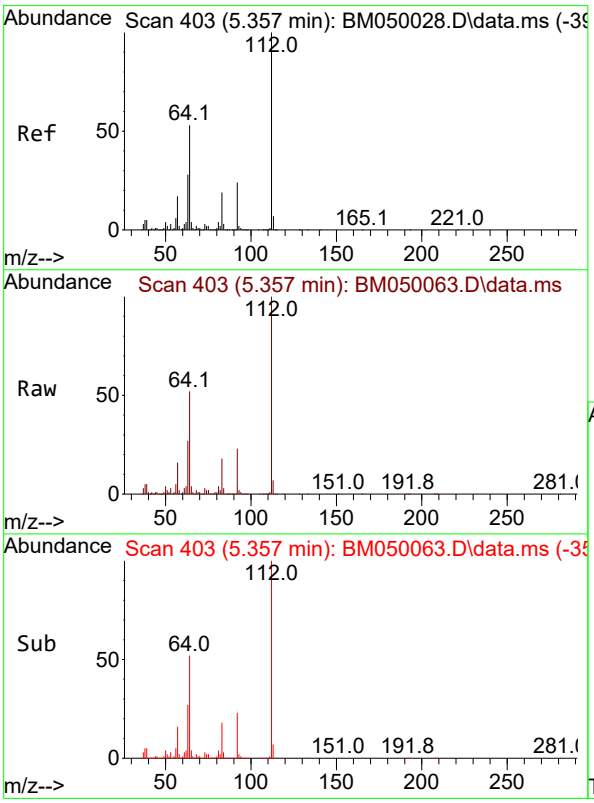
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.751 min Scan# 8
Delta R.T. -0.018 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Instrument :
BNA_M
ClientSampleId :
PB167779BL

Tgt Ion:152 Resp: 362102

Ion	Ratio	Lower	Upper
152	100		
150	152.4	124.1	186.1
115	53.8	41.2	61.8

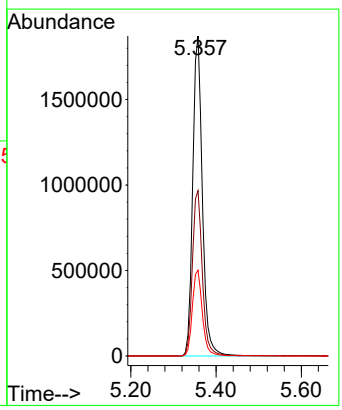


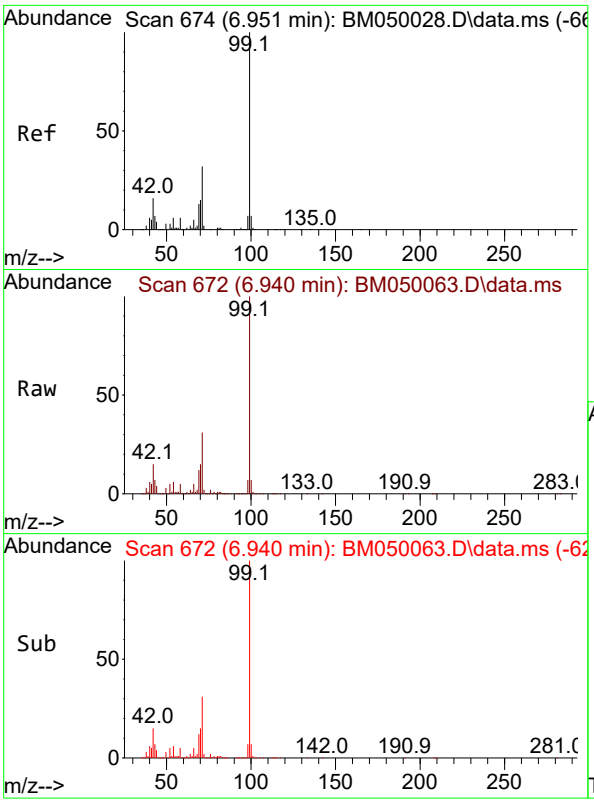


#5
2-Fluorophenol
Concen: 142.456 ng
RT: 5.357 min Scan# 403
Delta R.T. 0.000 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Tgt Ion:112 Resp: 2945826

Ion	Ratio	Lower	Upper
112	100		
64	51.7	42.6	64.0
63	26.8	22.2	33.4



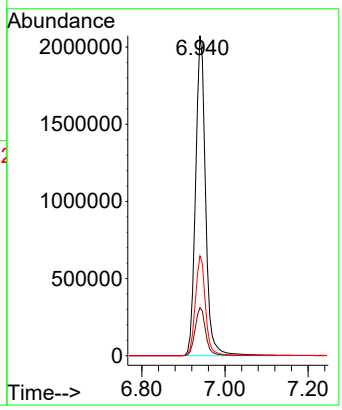


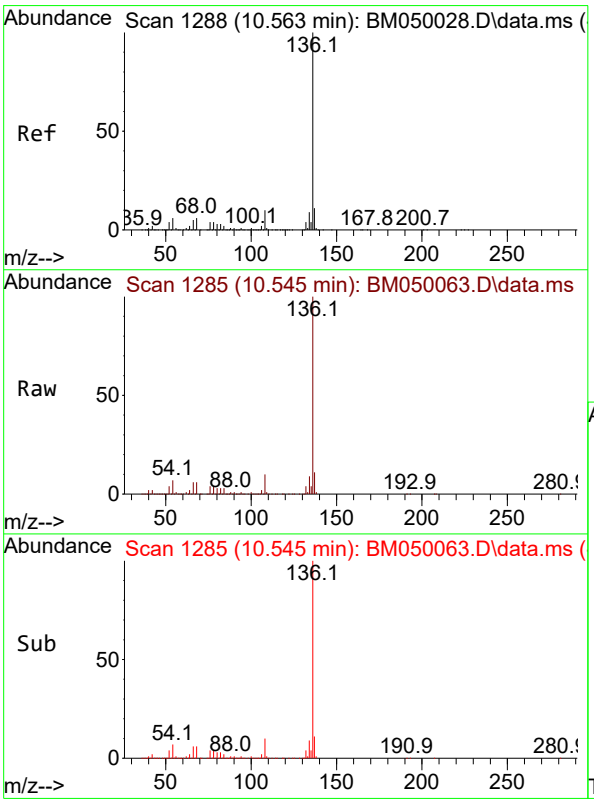
#7
Phenol-d6
Concen: 133.478 ng
RT: 6.940 min Scan# 6
Delta R.T. -0.012 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Instrument :
BNA_M
ClientSampleId :
PB167779BL

Tgt Ion: 99 Resp: 3469180

Ion	Ratio	Lower	Upper
99	100		
42	15.0	13.0	19.4
71	31.2	25.6	38.4

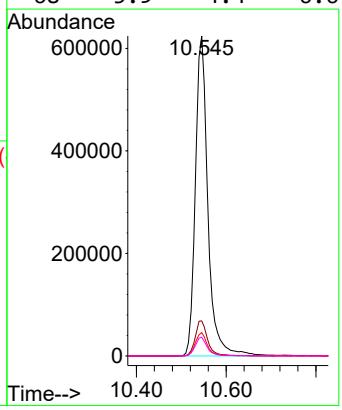


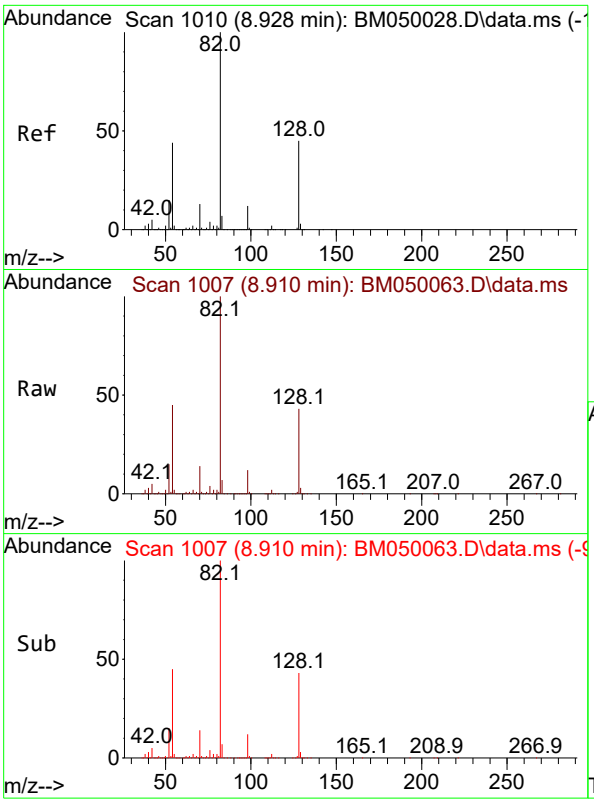


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.545 min Scan# 1285
Delta R.T. -0.018 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Tgt Ion:136 Resp: 1207361

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	7.3	5.1	7.7
68	5.9	4.4	6.6



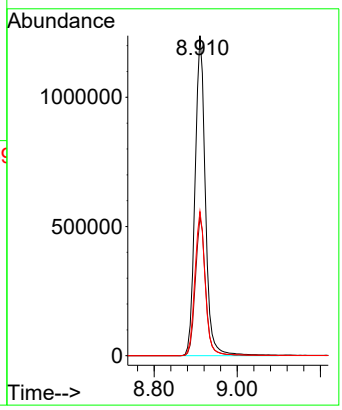


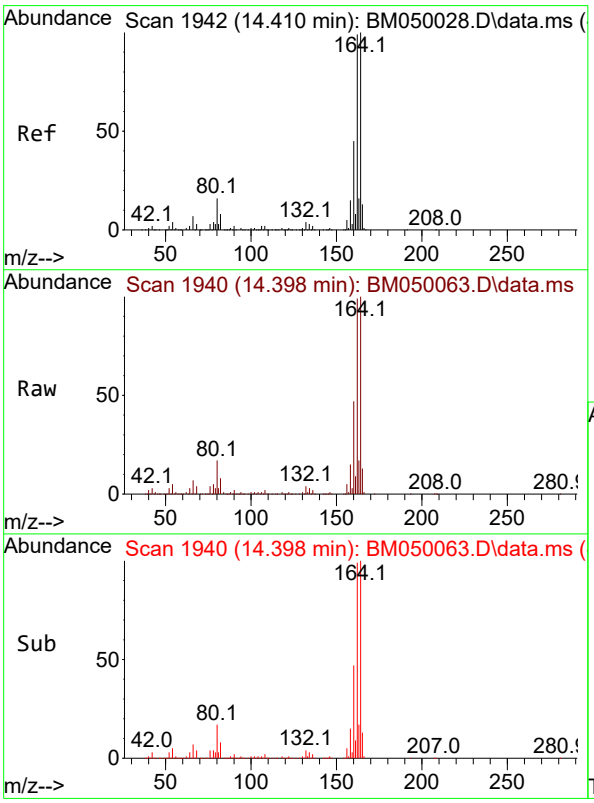
#23
Nitrobenzene-d5
Concen: 87.425 ng
RT: 8.910 min Scan# 1
Delta R.T. -0.018 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Instrument :
BNA_M
ClientSampleId :
PB167779BL

Tgt Ion: 82 Resp: 2142058

Ion	Ratio	Lower	Upper
82	100		
128	43.3	35.7	53.5
54	45.0	35.4	53.2

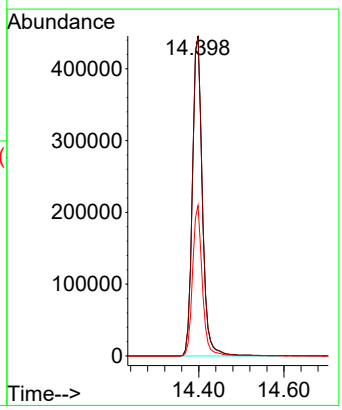


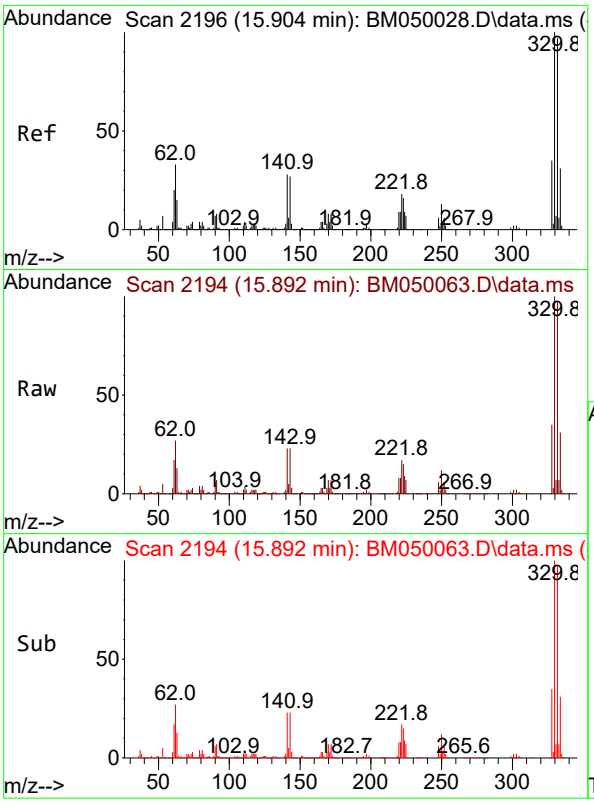


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.398 min Scan# 1940
Delta R.T. -0.012 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Tgt Ion:164 Resp: 720688

Ion	Ratio	Lower	Upper
164	100		
162	99.3	79.4	119.0
160	47.0	36.2	54.4



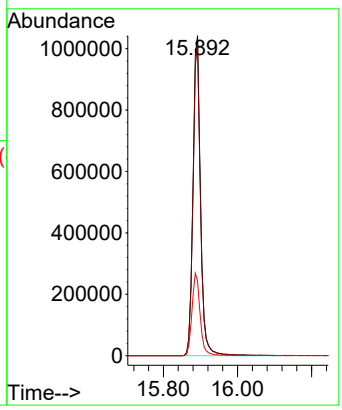


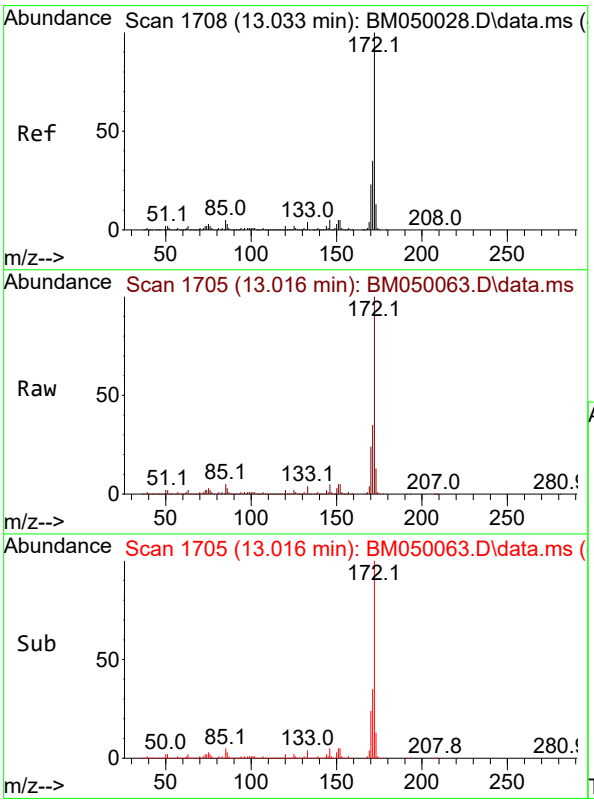
#42
2,4,6-Tribromophenol
Concen: 138.765 ng
RT: 15.892 min Scan# 2
Delta R.T. -0.012 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Instrument :
BNA_M
ClientSampleId :
PB167779BL

Tgt Ion:330 Resp: 1478724

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.3	115.9
141	27.8	22.5	33.7

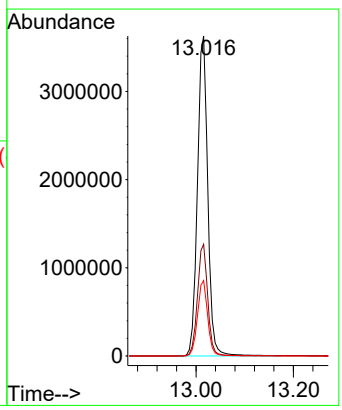


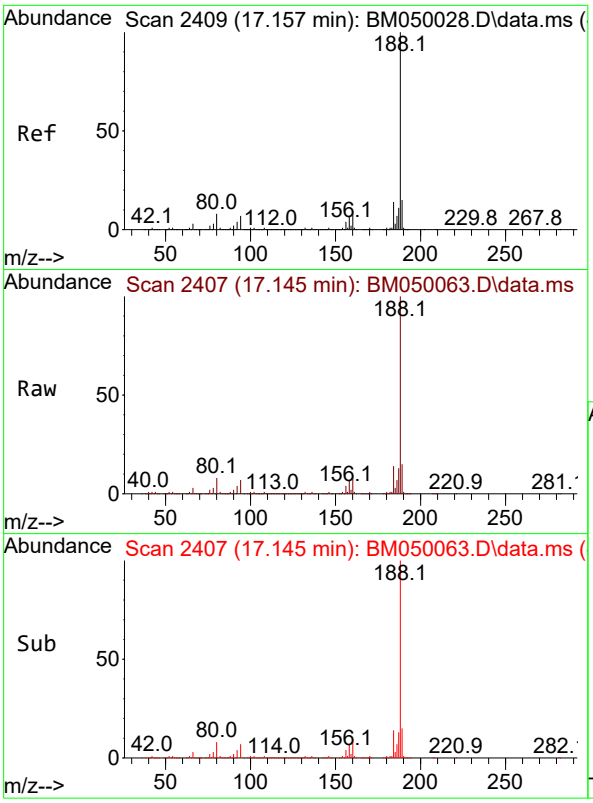


#45
2-Fluorobiphenyl
Concen: 88.299 ng
RT: 13.016 min Scan# 1705
Delta R.T. -0.018 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Tgt Ion:172 Resp: 5379270

Ion	Ratio	Lower	Upper
172	100		
171	34.9	27.8	41.6
170	23.6	18.6	28.0



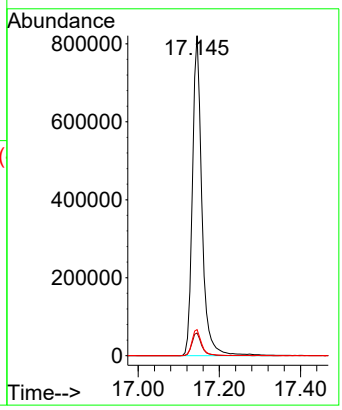


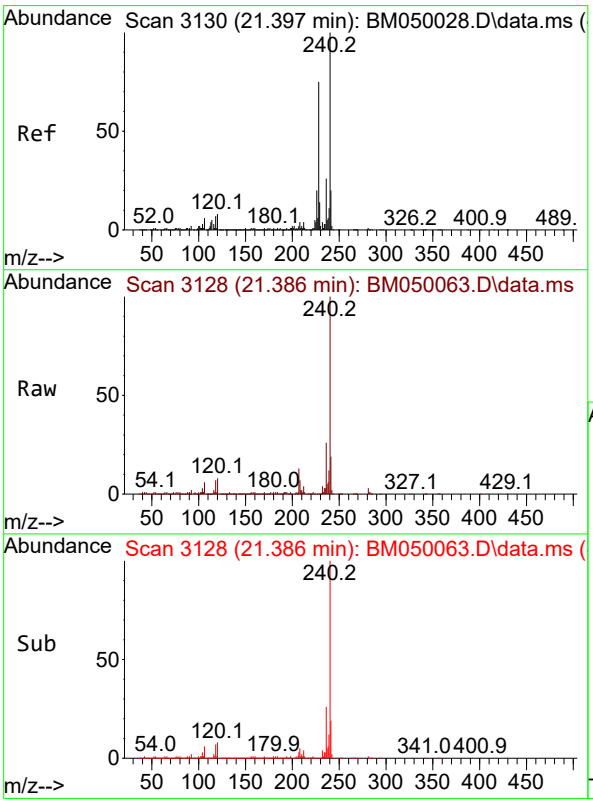
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.145 min Scan# 24
Delta R.T. -0.012 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Instrument :
BNA_M
ClientSampleId :
PB167779BL

Tgt Ion:188 Resp: 1342353

Ion	Ratio	Lower	Upper
188	100		
94	7.1	5.7	8.5
80	8.2	6.2	9.4

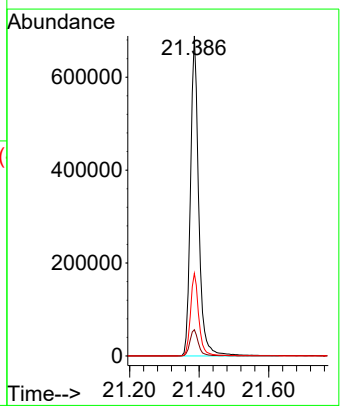


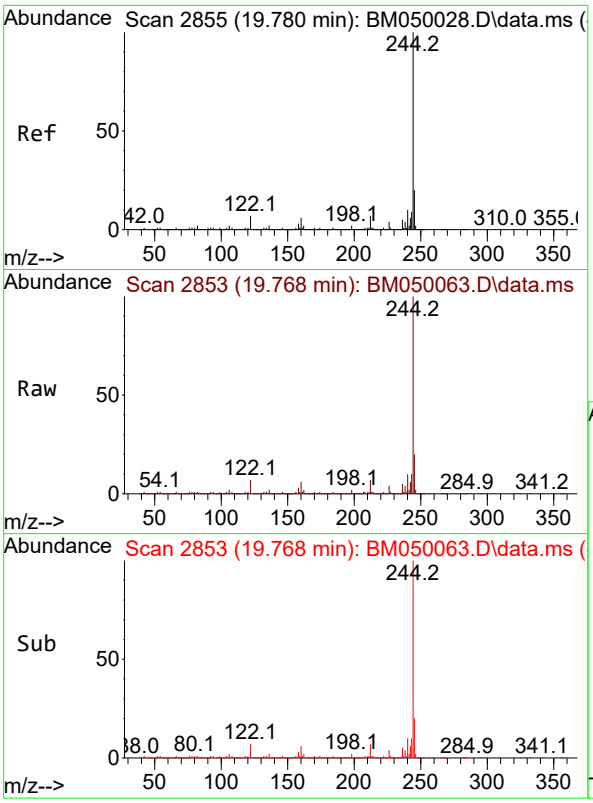


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.386 min Scan# 3128
Delta R.T. -0.011 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Tgt Ion:240 Resp: 1132572

Ion	Ratio	Lower	Upper
240	100		
120	8.2	6.5	9.7
236	25.8	20.9	31.3



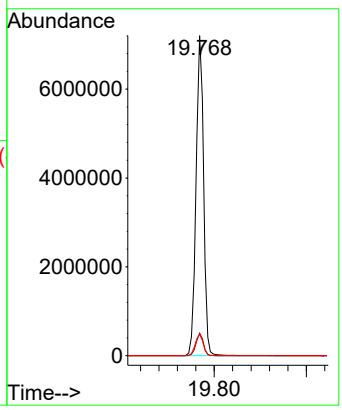


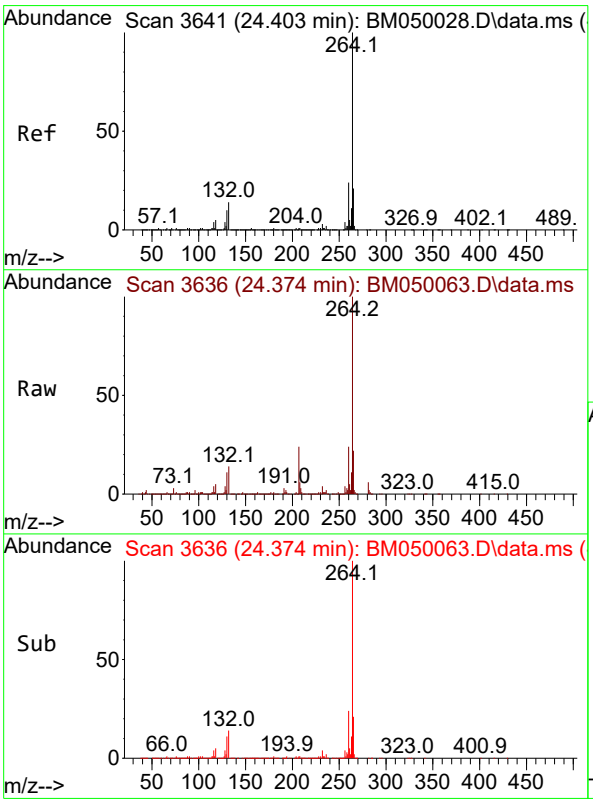
#79
Terphenyl-d14
Concen: 106.253 ng
RT: 19.768 min Scan# 2
Delta R.T. -0.012 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Instrument :
BNA_M
ClientSampleId :
PB167779BL

Tgt Ion:244 Resp: 8132476

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.6	8.4
122	6.7	5.6	8.4

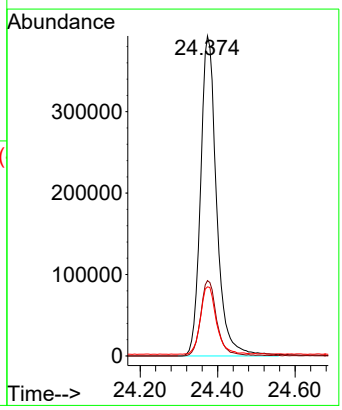




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.374 min Scan# 3636
Delta R.T. -0.029 min
Lab File: BM050063.D
Acq: 01 May 2025 14:04

Tgt Ion:264 Resp: 1130011

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.8	28.2
265	21.6	17.0	25.4



Sample Results: **BM050063.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050063.D
Acq On : 01 May 2025 14:04
Operator : RC/JU
Sample : PB167779BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167779BL

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM050063.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.887	317	323	334	rBV	459799	758641	3.77%	0.876%
2	5.357	396	403	425	rBV	5969687	9594842	47.74%	11.079%
3	6.940	663	672	700	rBV	5402362	9347783	46.51%	10.794%
4	7.751	803	810	822	rBV	1234998	1998520	9.94%	2.308%
5	8.910	998	1007	1029	rBV	3459132	6011582	29.91%	6.941%
6	10.545	1278	1285	1309	rBV	1253618	2408398	11.98%	2.781%
7	13.016	1697	1705	1723	rBV	9432172	14265690	70.98%	16.472%
8	14.398	1933	1940	1953	rBV	1827170	2956725	14.71%	3.414%
9	15.886	2186	2193	2215	rBV	6688411	10207325	50.79%	11.786%
10	17.145	2399	2407	2425	rBV	1914784	3145791	15.65%	3.632%
11	19.768	2847	2853	2864	rBV	17505231	20097125	100.00%	23.206%
12	21.386	3122	3128	3143	rBV	1815201	2996517	14.91%	3.460%
13	24.374	3628	3636	3655	rVB	996721	2814993	14.01%	3.250%

Sum of corrected areas: 86603932

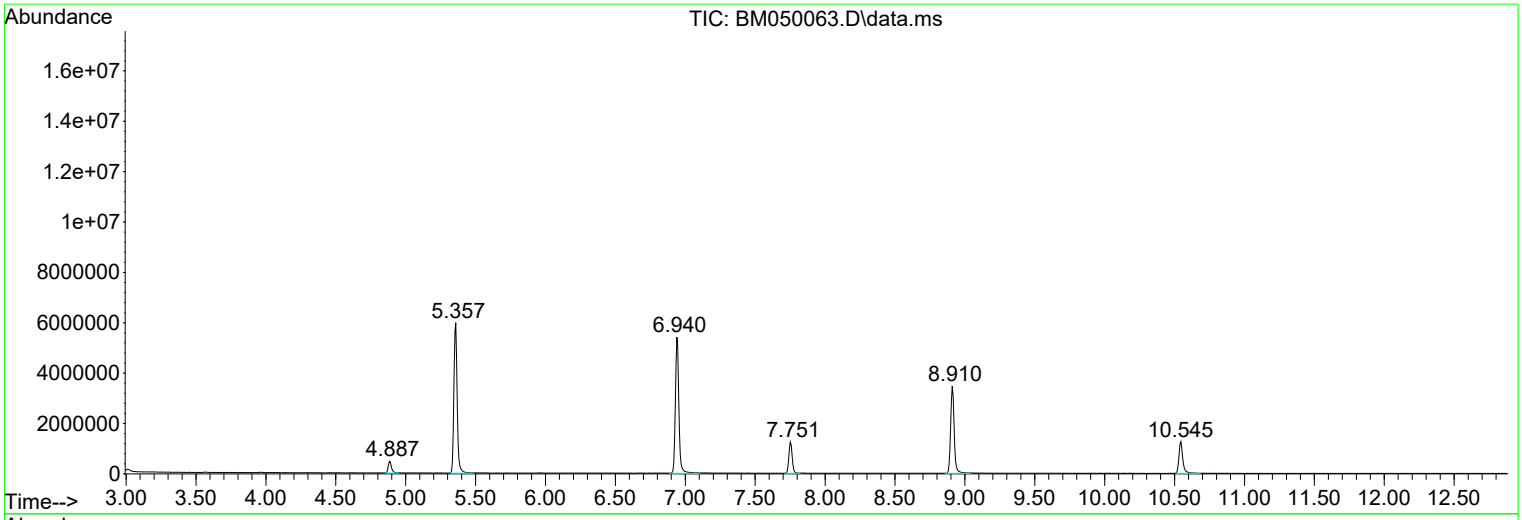
Sample Results: **BM050063.D**

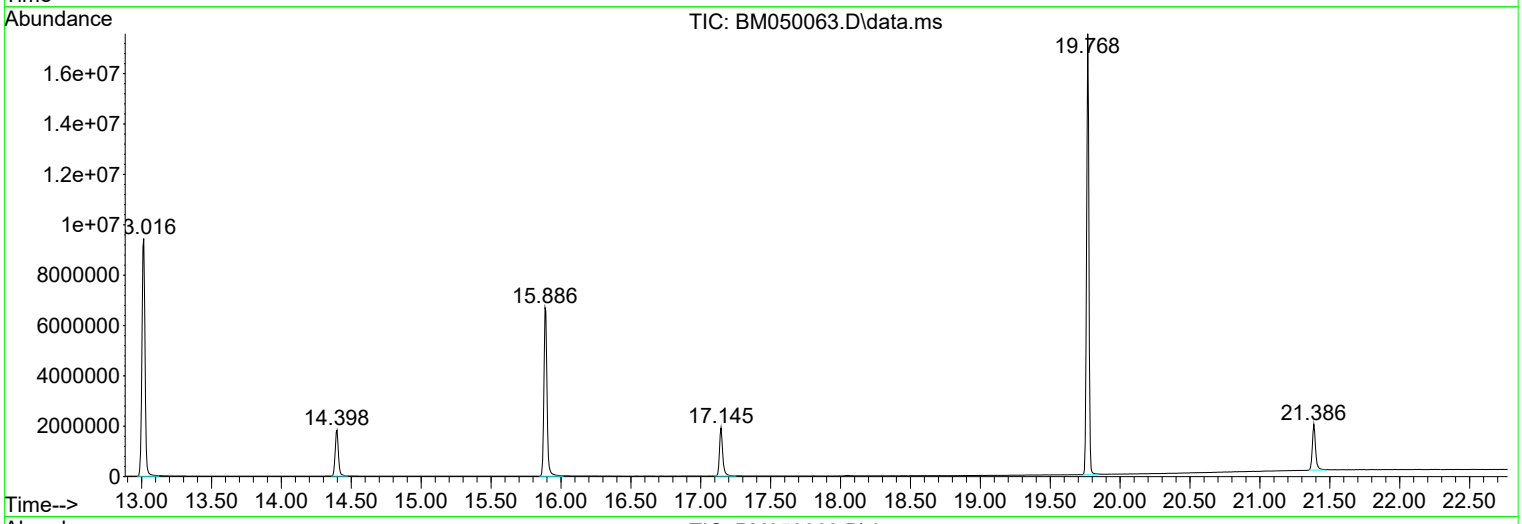
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050063.D
Acq On : 01 May 2025 14:04
Operator : RC/JU
Sample : PB167779BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

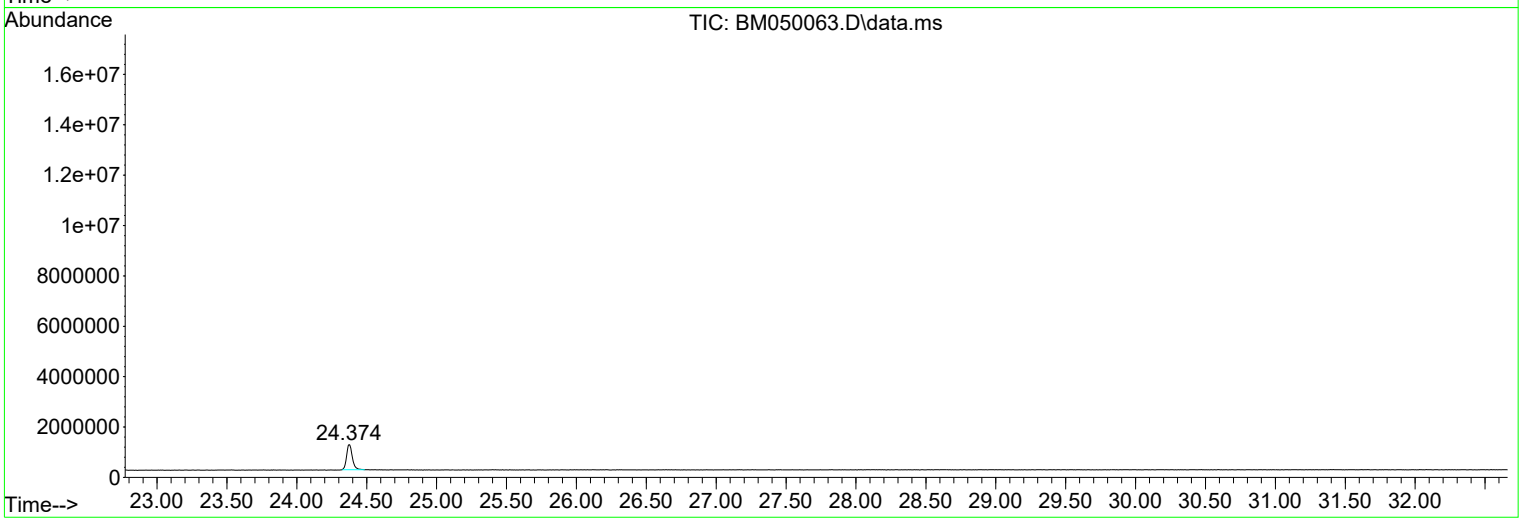
Instrument :
BNA_M
ClientSampleId :
PB167779BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050063.D
Acq On : 01 May 2025 14:04
Operator : RC/JU
Sample : PB167779BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167779BL

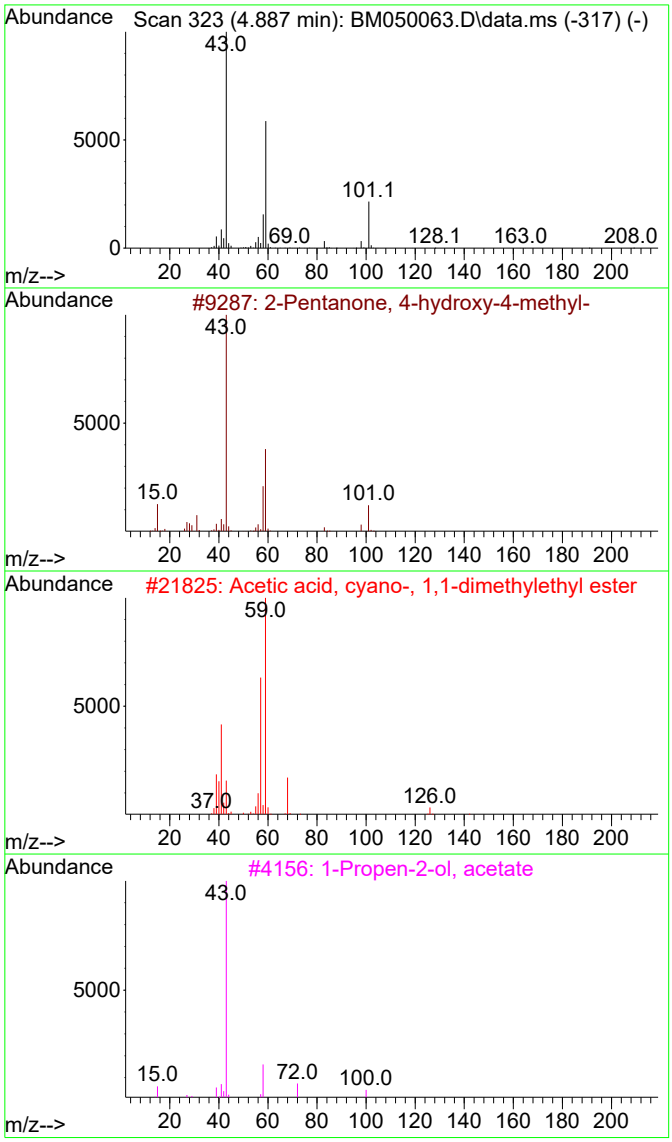
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

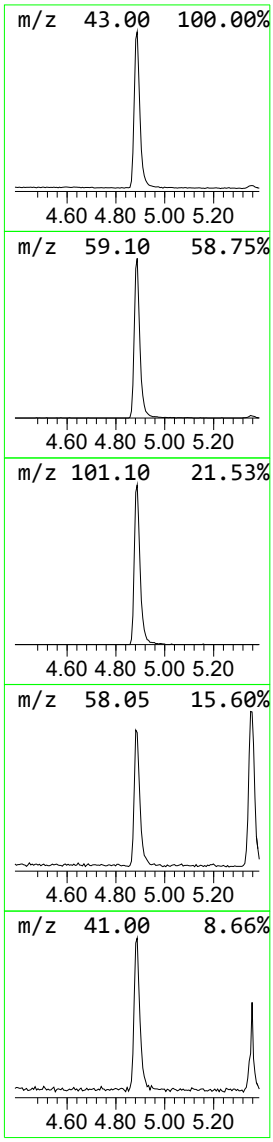
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.887	7.59 ng	758641	1,4-Dichlorobenzene-d4	7.751

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
4	5-Hexen-2-one	98	C6H10O	000109-49-9	9
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050063.D
Acq On : 01 May 2025 14:04
Operator : RC/JU
Sample : PB167779BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167779BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	4.887	7.6	ng	758641	1	7.751	1998520	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142251.D
Acq On : 01 May 2025 10:45
Operator : RC/JU
Sample : PB167798BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167798BL

Quant Time: May 01 11:47:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

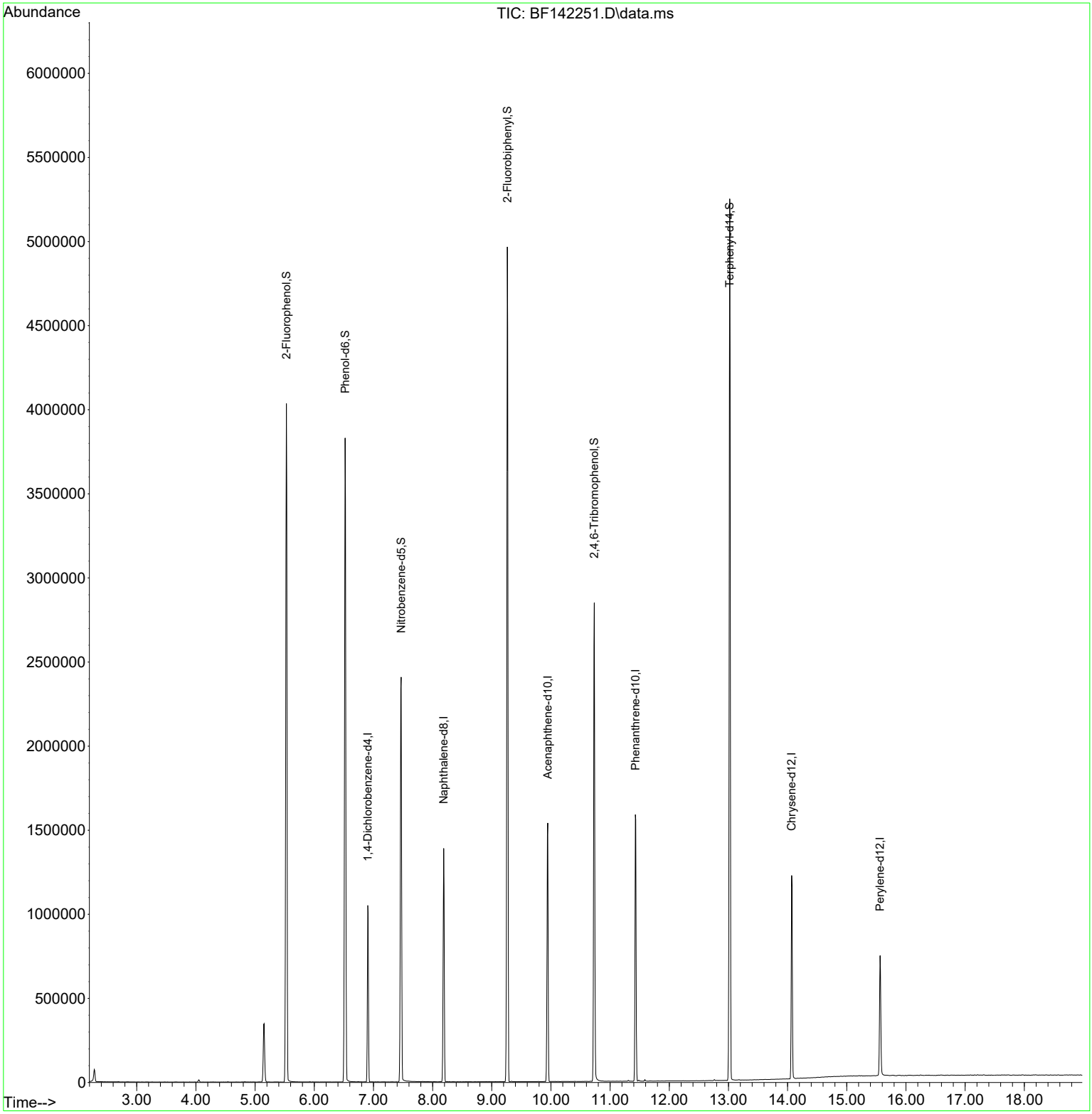
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	227901	20.000	ng	0.00
21) Naphthalene-d8	8.187	136	877397	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	467254	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	826787	20.000	ng	0.00
76) Chrysene-d12	14.069	240	587490	20.000	ng	0.00
86) Perylene-d12	15.563	264	406867	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.528	112	1618858	113.445	ng	0.01
7) Phenol-d6	6.522	99	1952554	113.309	ng	0.00
23) Nitrobenzene-d5	7.469	82	1072746	80.325	ng	0.00
42) 2,4,6-Tribromophenol	10.733	330	504593	118.458	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	2332756	70.392	ng	0.00
79) Terphenyl-d14	13.022	244	2599136	64.345	ng	0.00
Target Compounds						Qvalue

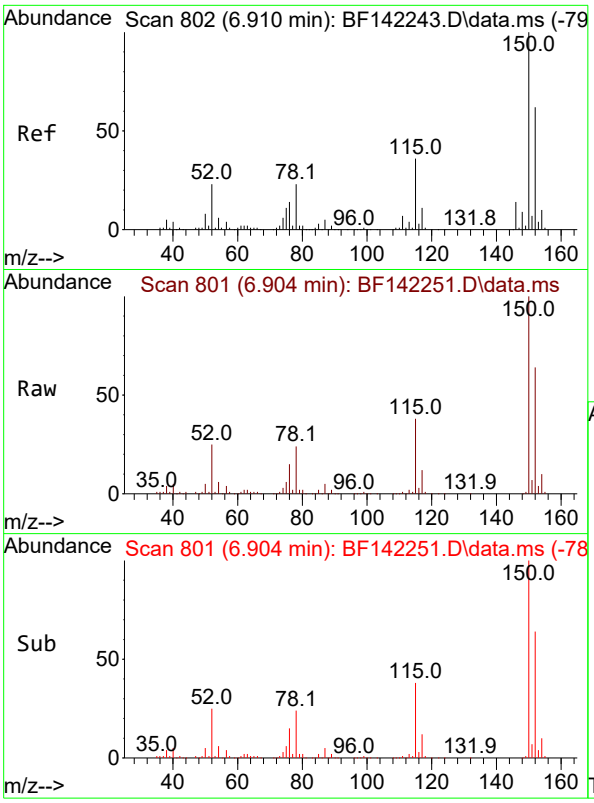
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142251.D
Acq On : 01 May 2025 10:45
Operator : RC/JU
Sample : PB167798BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167798BL

Quant Time: May 01 11:47:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration



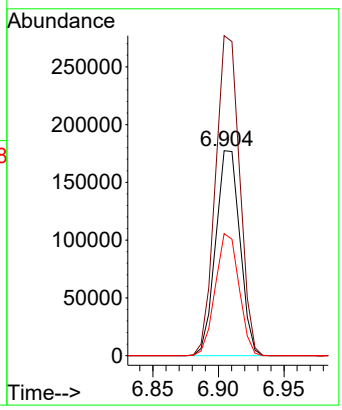


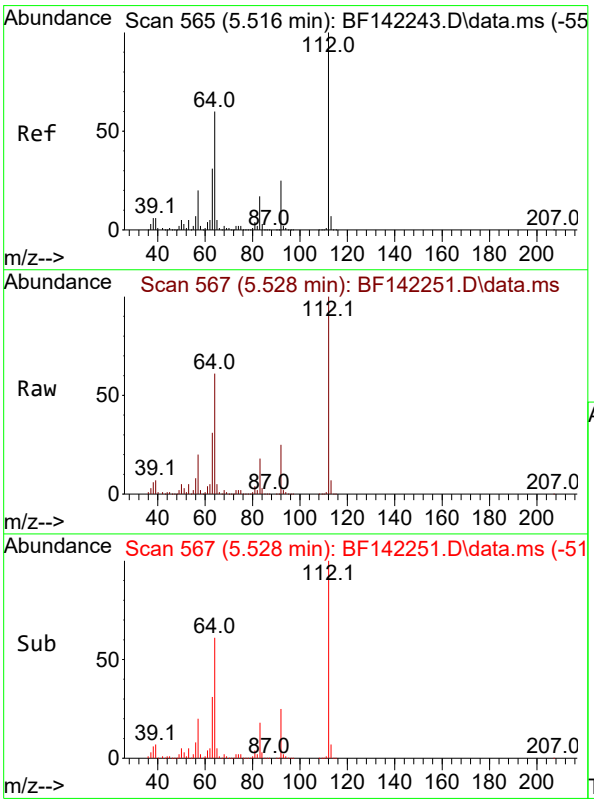
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Instrument :
BNA_F
ClientSampleId :
PB167798BL

Tgt Ion:152 Resp: 227901

Ion	Ratio	Lower	Upper
152	100		
150	156.2	130.2	195.2
115	59.6	47.0	70.4

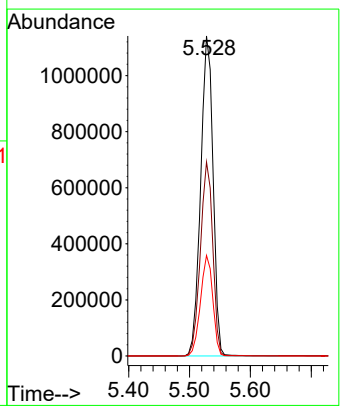




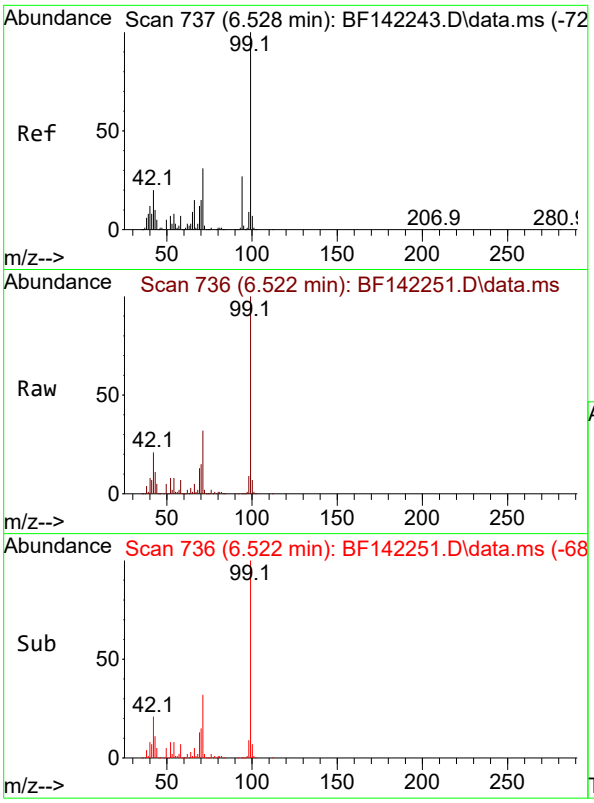
#5
2-Fluorophenol
Concen: 113.445 ng
RT: 5.528 min Scan# 567
Delta R.T. 0.012 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Tgt Ion:112 Resp: 1618858

Ion	Ratio	Lower	Upper
112	100		
64	60.6	48.4	72.6
63	31.4	24.8	37.2



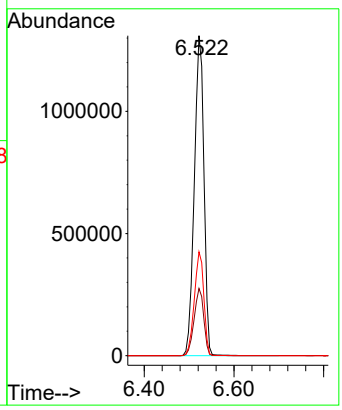
Instrument :
BNA_F
ClientSampleId :
PB167798BL

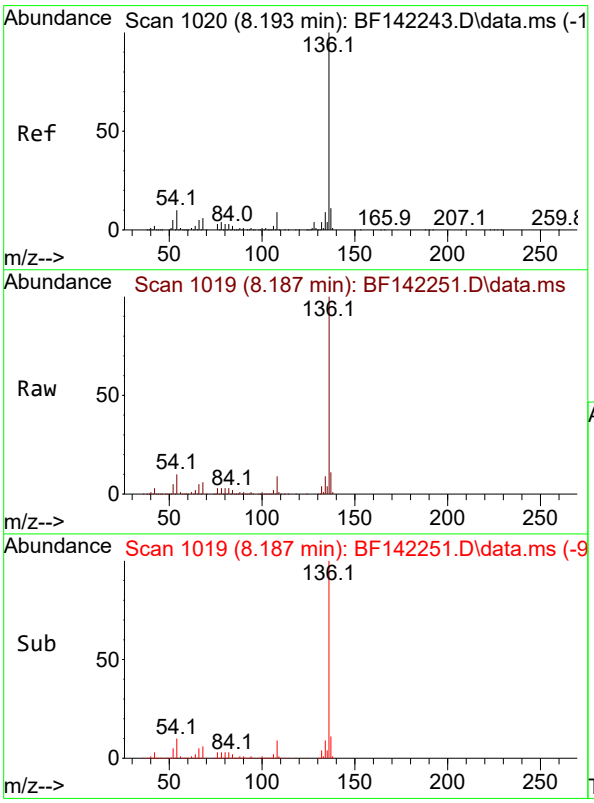


#7
Phenol-d6
Concen: 113.309 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Tgt Ion: 99 Resp: 1952554

Ion	Ratio	Lower	Upper
99	100		
42	21.0	16.3	24.5
71	32.4	25.0	37.4

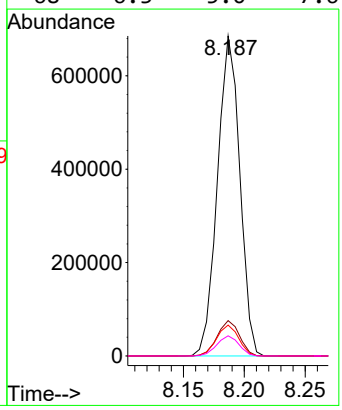


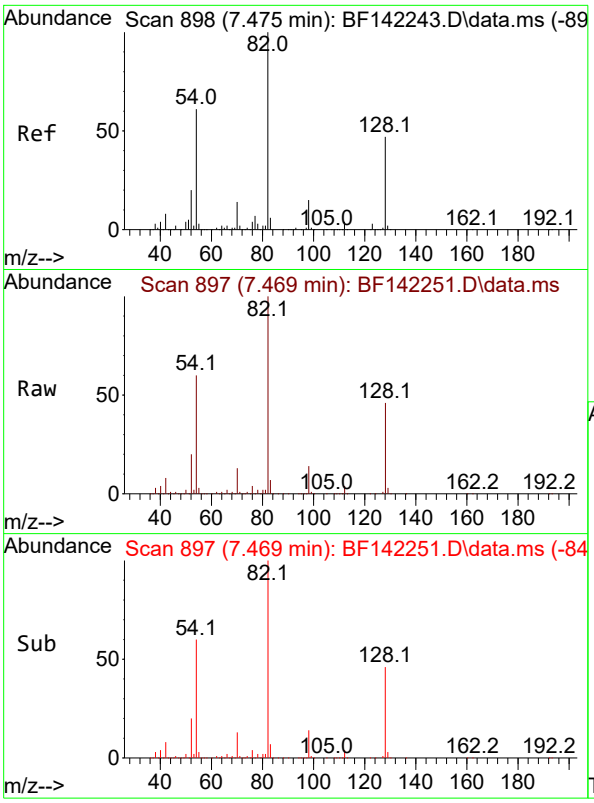


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.187 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Tgt Ion:136 Resp: 877397

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.7	13.1
54	9.7	7.7	11.5
68	6.3	5.0	7.6



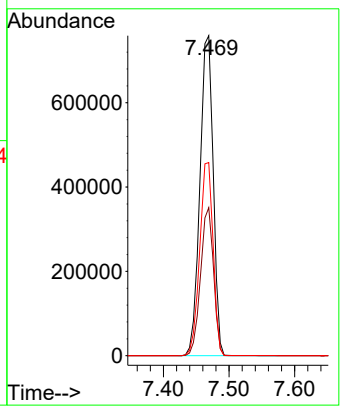


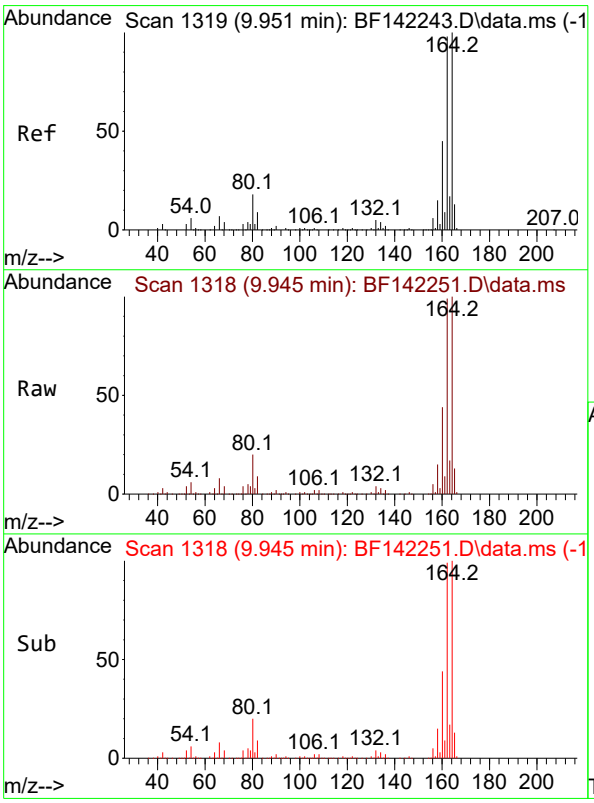
#23
Nitrobenzene-d5
Concen: 80.325 ng
RT: 7.469 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Instrument :
BNA_F
ClientSampleId :
PB167798BL

Tgt Ion: 82 Resp: 1072746

Ion	Ratio	Lower	Upper
82	100		
128	46.3	37.0	55.6
54	60.4	48.0	72.0

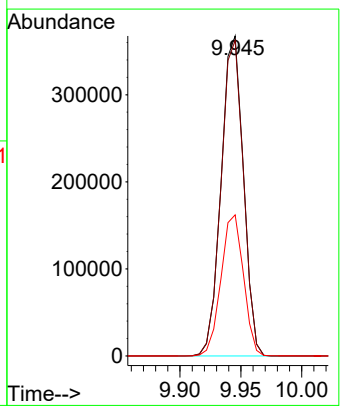


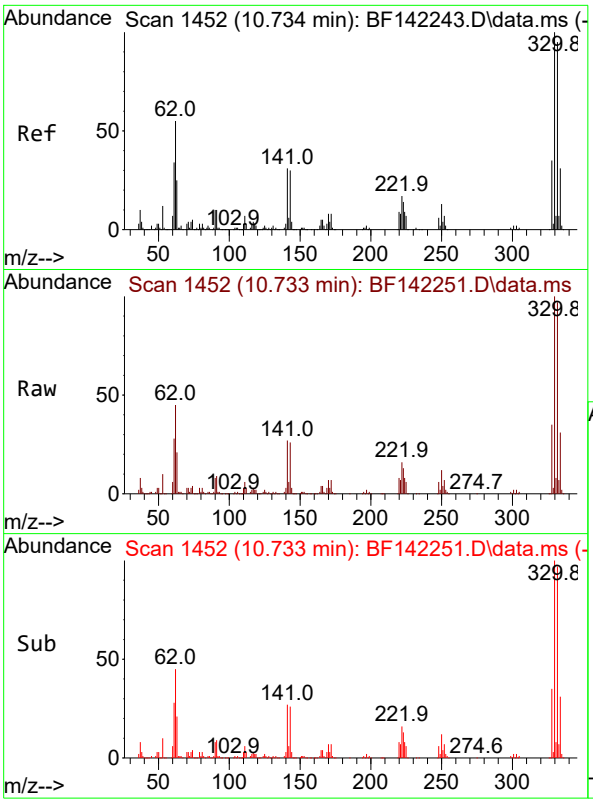


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.945 min Scan# 1318
Delta R.T. -0.006 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Tgt Ion:164 Resp: 467254

Ion	Ratio	Lower	Upper
164	100		
162	98.6	78.6	117.8
160	44.1	35.7	53.5



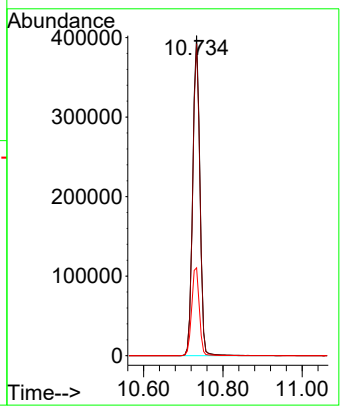


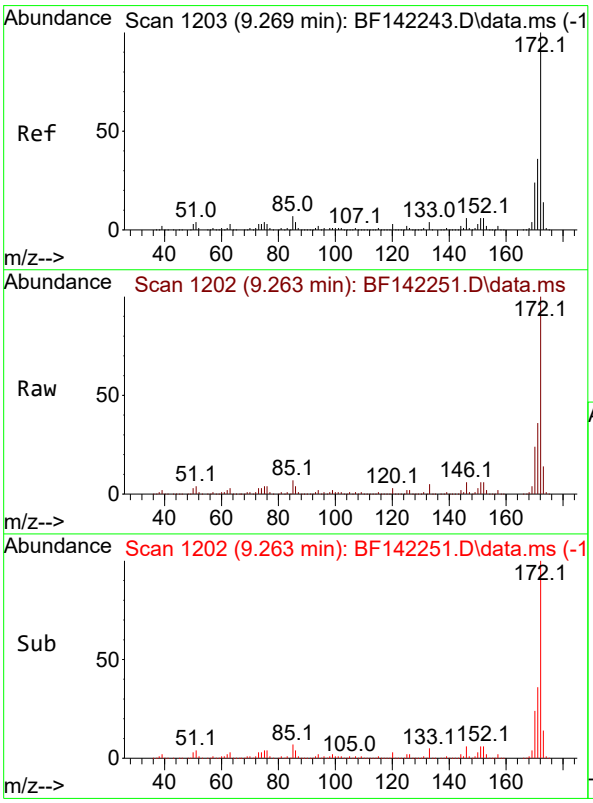
#42
2,4,6-Tribromophenol
Concen: 118.458 ng
RT: 10.733 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Instrument :
BNA_F
ClientSampleId :
PB167798BL

Tgt Ion:330 Resp: 504593

Ion	Ratio	Lower	Upper
330	100		
332	97.3	76.5	114.7
141	29.4	24.3	36.5

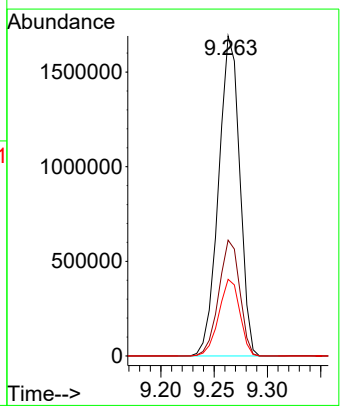


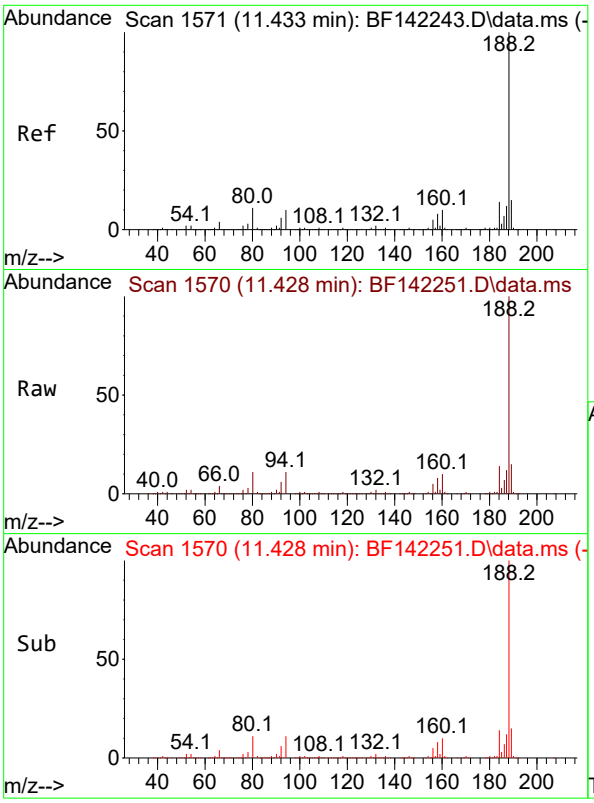


#45
2-Fluorobiphenyl
Concen: 70.392 ng
RT: 9.263 min Scan# 1202
Delta R.T. -0.006 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Tgt Ion:172 Resp: 2332756

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.0	43.4
170	23.9	19.4	29.0



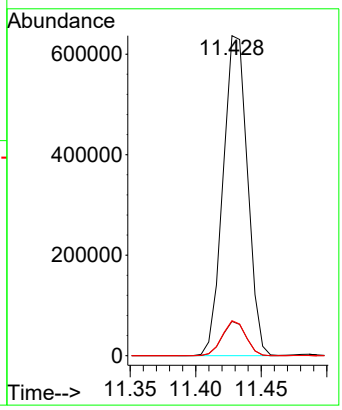


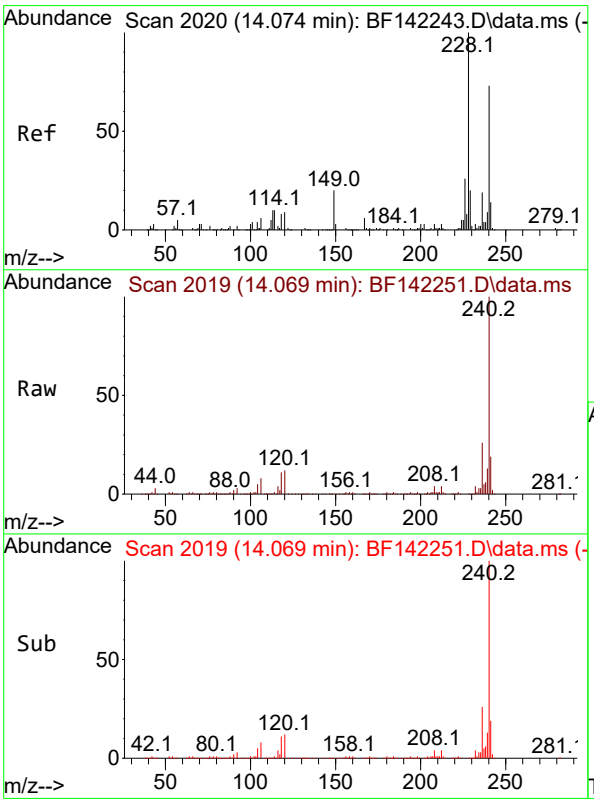
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Instrument :
BNA_F
ClientSampleId :
PB167798BL

Tgt Ion:188 Resp: 826787

Ion	Ratio	Lower	Upper
188	100		
94	10.7	8.2	12.2
80	11.0	8.6	12.8

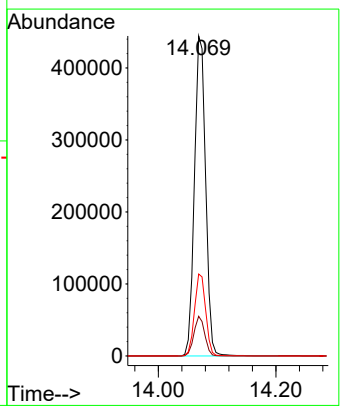


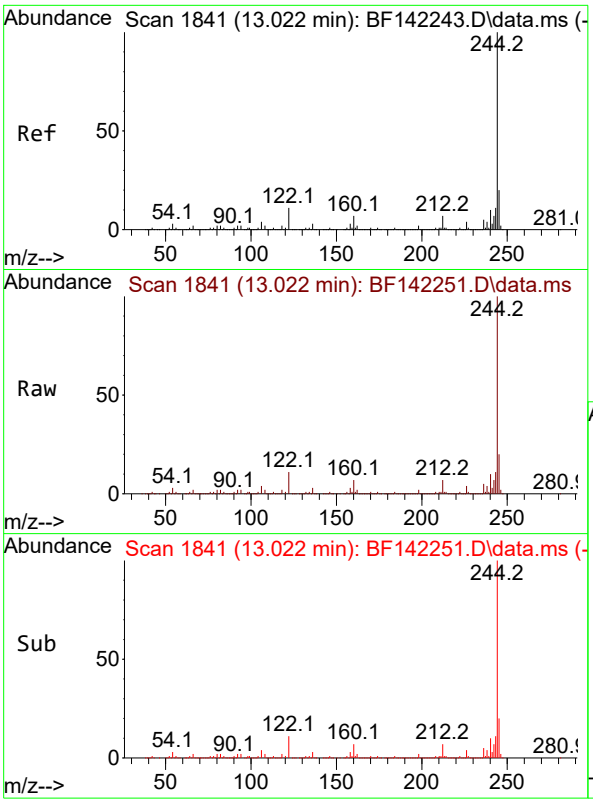


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Tgt Ion:240 Resp: 587490

Ion	Ratio	Lower	Upper
240	100		
120	12.4	10.1	15.1
236	25.6	20.5	30.7



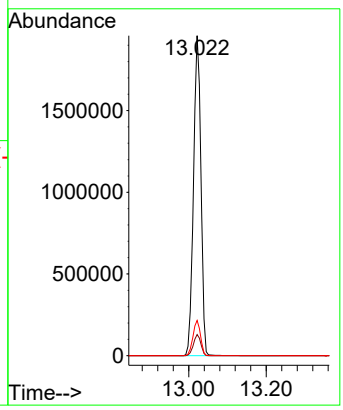


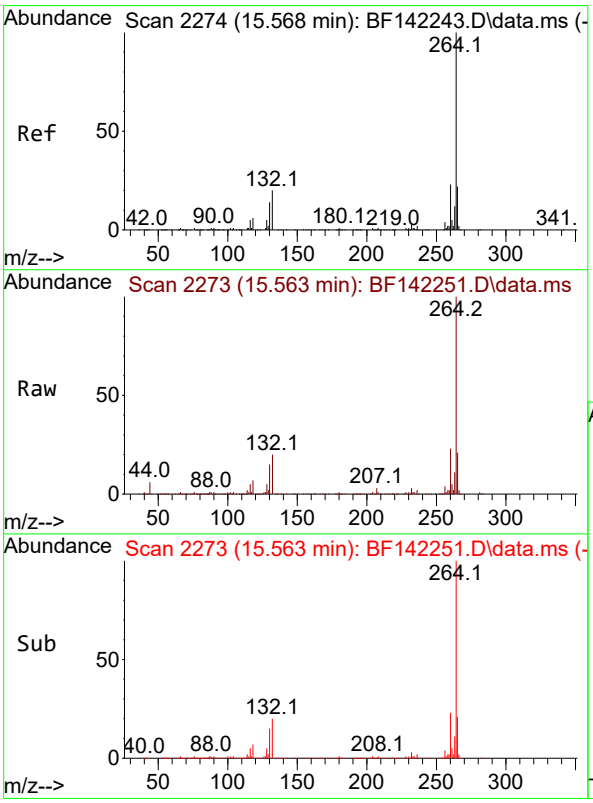
#79
Terphenyl-d14
Concen: 64.345 ng
RT: 13.022 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Instrument :
BNA_F
ClientSampleId :
PB167798BL

Tgt Ion:244 Resp: 2599136

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.3	7.9
122	11.0	9.1	13.7

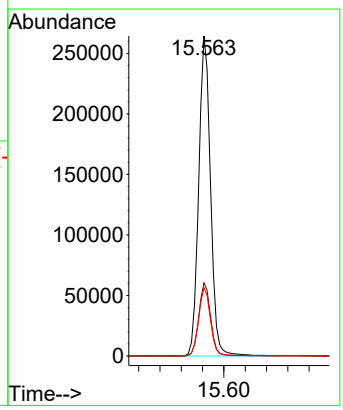




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142251.D
Acq: 01 May 2025 10:45

Tgt Ion:264 Resp: 406867

Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.4	27.6
265	21.3	17.3	25.9



Sample Results: **BF142251.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142251.D
Acq On : 01 May 2025 10:45
Operator : RC/JU
Sample : PB167798BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167798BL

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-BF043025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142251.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.281	3	15	21	rVB	72528	129743	1.87%	0.303%
2	5.152	495	503	512	rBV	346717	578202	8.32%	1.351%
3	5.528	560	567	572	rBV	4034216	5689345	81.87%	13.298%
4	6.522	729	736	742	rBV	3828941	5699010	82.00%	13.321%
5	6.904	796	801	807	rBV	1049000	1327795	19.11%	3.104%
6	7.469	890	897	902	rBV	2406535	3425359	49.29%	8.006%
7	8.187	1013	1019	1024	rBV	1387508	1773134	25.51%	4.144%
8	9.263	1195	1202	1207	rBV	4963685	6782793	97.60%	15.854%
9	9.945	1311	1318	1323	rBV	1537216	1976183	28.44%	4.619%
10	10.734	1446	1452	1472	rBV	2844457	3734766	53.74%	8.730%
11	11.428	1565	1570	1576	rBV	1584811	2051812	29.52%	4.796%
12	13.022	1835	1841	1846	rBV	5241158	6949651	100.00%	16.244%
13	14.069	2014	2019	2031	rBV	1209373	1585462	22.81%	3.706%
14	15.563	2267	2273	2285	rBV	711927	1079782	15.54%	2.524%

Sum of corrected areas: 42783037

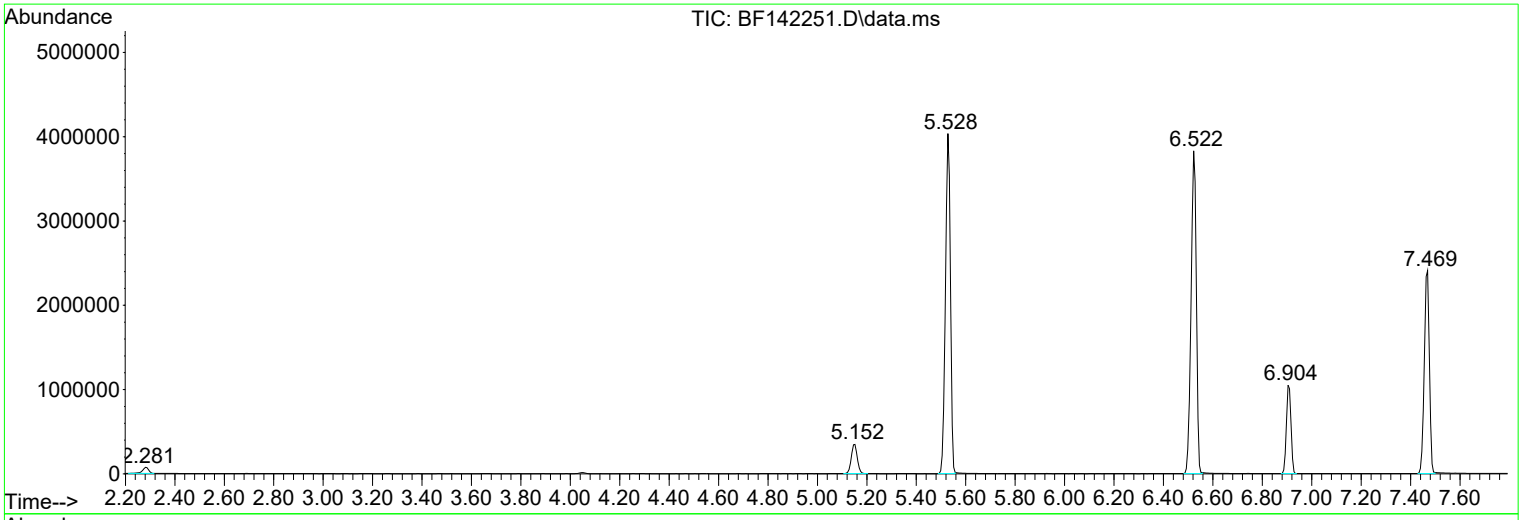
Sample Results: **BF142251.D**

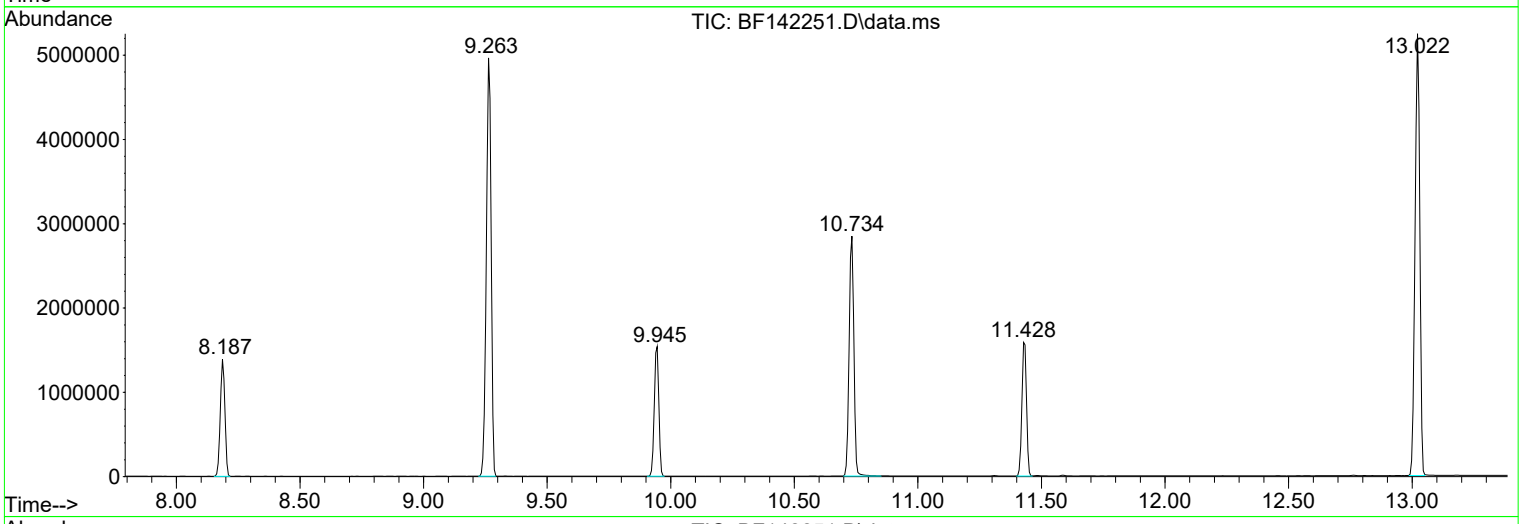
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142251.D
Acq On : 01 May 2025 10:45
Operator : RC/JU
Sample : PB167798BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

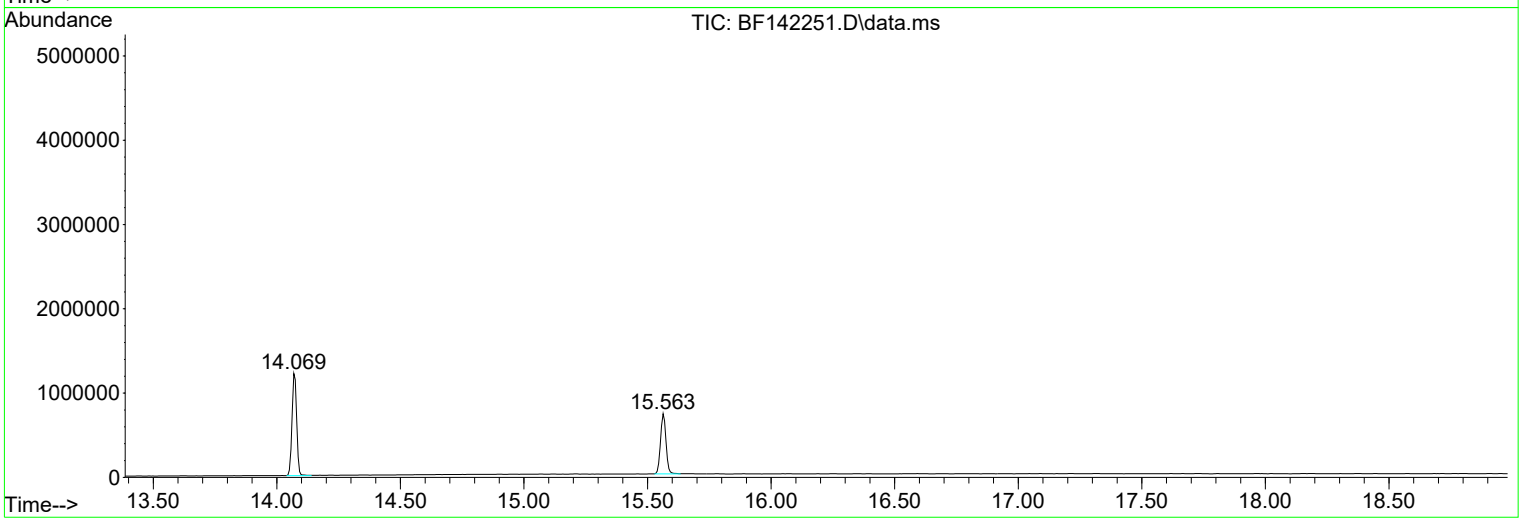
Instrument :
BNA_F
ClientSampleId :
PB167798BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.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\BF050125\
Data File : BF142251.D
Acq On : 01 May 2025 10:45
Operator : RC/JU
Sample : PB167798BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167798BL

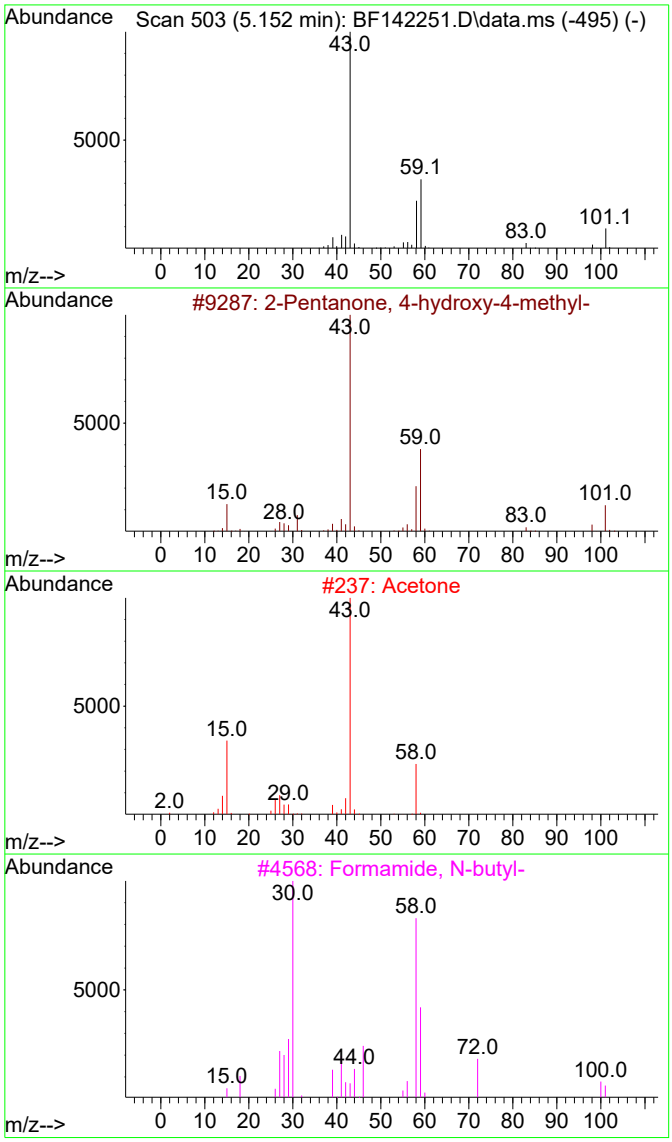
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

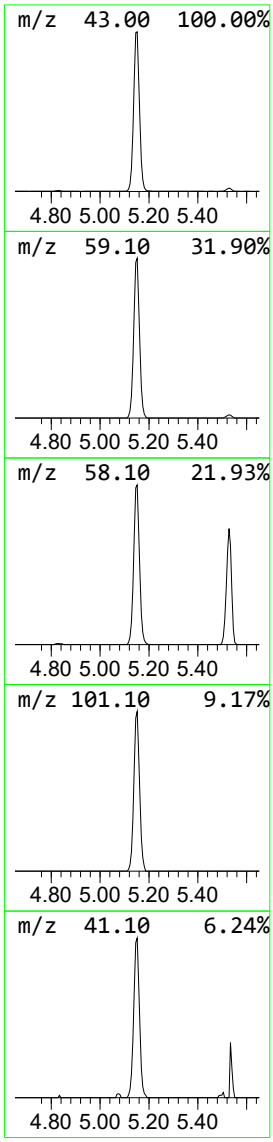
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.152	8.71 ng	578202	1,4-Dichlorobenzene-d4	6.904

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	78
2	Acetone	58	C3H6O	000067-64-1	32
3	Formamide, N-butyl-	101	C5H11NO	000871-71-6	9
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	9
5	Oxirane, (propoxymethyl)-	116	C6H12O2	003126-95-2	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142251.D
Acq On : 01 May 2025 10:45
Operator : RC/JU
Sample : PB167798BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167798BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.152	8.7	ng	578202	1	6.904	1327800	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050064.D
Acq On : 01 May 2025 14:43
Operator : RC/JU
Sample : PB167779BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167779BS

Quant Time: May 01 15:24:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.751	152	339452	20.000	ng		-0.02
21) Naphthalene-d8	10.545	136	1125326	20.000	ng		-0.02
39) Acenaphthene-d10	14.392	164	664515	20.000	ng		-0.02
64) Phenanthrene-d10	17.139	188	1227379	20.000	ng		-0.02
76) Chrysene-d12	21.380	240	1219126	20.000	ng		-0.02
86) Perylene-d12	24.374	264	1104893	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.357	112	2750867	141.904	ng		0.00
7) Phenol-d6	6.945	99	3291918	135.109	ng		0.00
23) Nitrobenzene-d5	8.910	82	1972634	86.379	ng		-0.02
42) 2,4,6-Tribromophenol	15.892	330	1401142	142.599	ng		-0.01
45) 2-Fluorobiphenyl	13.016	172	4900655	87.243	ng		-0.02
79) Terphenyl-d14	19.768	244	7315200	88.790	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.263	88	324106	38.993	ng		96
3) Pyridine	3.657	79	906904	42.466	ng		96
4) n-Nitrosodimethylamine	3.575	42	376694	44.973	ng		98
6) Aniline	7.087	93	675837	21.967	ng		99
8) 2-Chlorophenol	7.328	128	919150	43.853	ng		98
9) Benzaldehyde	6.898	77	434002	26.618	ng		96
10) Phenol	6.969	94	1124630	45.595	ng		99
11) bis(2-Chloroethyl)ether	7.181	93	902546	43.821	ng		98
12) 1,3-Dichlorobenzene	7.645	146	1101376	43.500	ng		100
13) 1,4-Dichlorobenzene	7.787	146	1110518	43.660	ng		99
14) 1,2-Dichlorobenzene	8.104	146	1056435	42.997	ng		99
15) Benzyl Alcohol	7.998	79	729976	43.202	ng		96
16) 2,2'-oxybis(1-Chloropr...	8.275	45	1110403	44.352	ng		99
17) 2-Methylphenol	8.210	107	698651	42.996	ng		99
18) Hexachloroethane	8.828	117	399371	44.169	ng		98
19) n-Nitroso-di-n-propyla...	8.563	70	598312	38.288	ng		99
20) 3+4-Methylphenols	8.539	107	929313	42.350	ng		98
22) Acetophenone	8.575	105	1305356	46.657	ng	#	98
24) Nitrobenzene	8.951	77	942517	47.731	ng		97
25) Isophorone	9.481	82	1687587	43.352	ng		98
26) 2-Nitrophenol	9.663	139	465611	46.156	ng		97
27) 2,4-Dimethylphenol	9.733	122	749898	44.825	ng		98
28) bis(2-Chloroethoxy)met...	9.957	93	1082910	45.008	ng		100
29) 2,4-Dichlorophenol	10.210	162	843978	45.032	ng		100
30) 1,2,4-Trichlorobenzene	10.410	180	1032540	45.219	ng		100
31) Naphthalene	10.592	128	2566661	45.037	ng		100
32) Benzoic acid	9.910	122	450544	42.109	ng		99
33) 4-Chloroaniline	10.716	127	427099	18.284	ng		99
34) Hexachlorobutadiene	10.880	225	660379	45.561	ng		99
35) Caprolactam	11.510	113	210388	38.500	ng		87
36) 4-Chloro-3-methylphenol	11.851	107	726282	41.945	ng		98
37) 2-Methylnaphthalene	12.210	142	1639055	42.898	ng		99
38) 1-Methylnaphthalene	12.427	142	1716193	42.443	ng		99
40) 1,2,4,5-Tetrachloroben...	12.580	216	1141673	49.630	ng		99
41) Hexachlorocyclopentadiene	12.563	237	1541222	109.633	ng		99
43) 2,4,6-Trichlorophenol	12.833	196	691076	47.365	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050064.D
Acq On : 01 May 2025 14:43
Operator : RC/JU
Sample : PB167779BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167779BS

Quant Time: May 01 15:24:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration

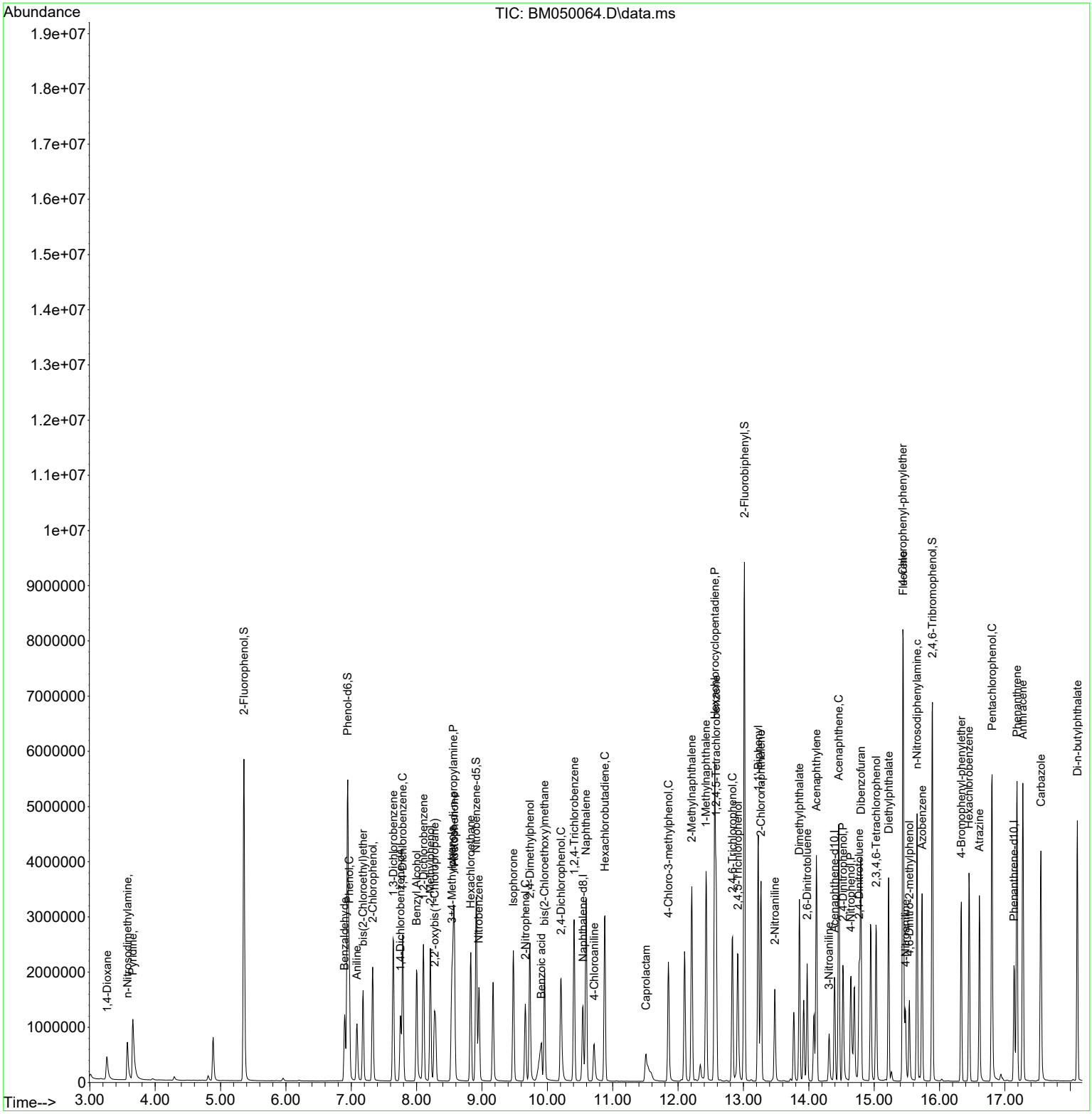
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.916	196	737586	46.880	ng	98
46) 1,1'-Biphenyl	13.227	154	2329469	47.158	ng	99
47) 2-Chloronaphthalene	13.269	162	1832486	46.840	ng	100
48) 2-Nitroaniline	13.480	65	446033	48.577	ng	95
49) Acenaphthylene	14.116	152	2817647	45.679	ng	99
50) Dimethylphthalate	13.857	163	2112431	43.498	ng	100
51) 2,6-Dinitrotoluene	13.974	165	450148	44.769	ng	94
52) Acenaphthene	14.457	154	1642526	46.003	ng	100
53) 3-Nitroaniline	14.310	138	231684	24.135	ng	96
54) 2,4-Dinitrophenol	14.521	184	552700	85.470	ng	96
55) Dibenzofuran	14.798	168	2676911	45.062	ng	100
56) 4-Nitrophenol	14.645	139	707032	89.936	ng	95
57) 2,4-Dinitrotoluene	14.768	165	637054	45.852	ng	96
58) Fluorene	15.445	166	2269556	46.675	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.033	232	608729	44.697	ng	99
60) Diethylphthalate	15.221	149	1964047	42.921	ng	100
61) 4-Chlorophenyl-phenyle...	15.439	204	1254179	46.960	ng	100
62) 4-Nitroaniline	15.480	138	399199	43.102	ng	97
63) Azobenzene	15.733	77	1802713	47.006	ng	99
65) 4,6-Dinitro-2-methylph...	15.539	198	354286	46.113	ng	96
66) n-Nitrosodiphenylamine	15.657	169	1798532	47.719	ng	99
67) 4-Bromophenyl-phenylether	16.333	248	695088	46.831	ng	97
68) Hexachlorobenzene	16.451	284	797047	46.587	ng	100
69) Atrazine	16.609	200	629300	46.289	ng	100
70) Pentachlorophenol	16.804	266	1076855	111.818	ng	99
71) Phenanthrene	17.186	178	3261083	47.108	ng	100
72) Anthracene	17.274	178	3324709	47.458	ng	100
73) Carbazole	17.551	167	2833553	46.612	ng	100
74) Di-n-butylphthalate	18.109	149	3296858	45.540	ng	100
75) Fluoranthene	19.203	202	3901183	48.000	ng	99
77) Benzidine	19.392	184	1303939	30.111	ng	100
78) Pyrene	19.568	202	4023852	47.002	ng	100
80) Butylbenzylphthalate	20.462	149	1409106	43.946	ng	91
81) Benzo(a)anthracene	21.368	228	3955177	47.112	ng	100
82) 3,3'-Dichlorobenzidine	21.292	252	796508	24.784	ng	100
83) Chrysene	21.427	228	3605282	46.400	ng	99
84) Bis(2-ethylhexyl)phtha...	21.286	149	2099844	43.844	ng	99
85) Di-n-octyl phthalate	22.409	149	3361210	42.556	ng	99
87) Indeno(1,2,3-cd)pyrene	27.756	276	3980042	48.344	ng	99
88) Benzo(b)fluoranthene	23.433	252	3519712	48.984	ng	100
89) Benzo(k)fluoranthene	23.491	252	3516759	48.385	ng	100
90) Benzo(a)pyrene	24.233	252	3256786	48.393	ng	99
91) Dibenzo(a,h)anthracene	27.797	278	3276826	48.827	ng	99
92) Benzo(g,h,i)perylene	28.797	276	3068716	47.762	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050064.D
Acq On : 01 May 2025 14:43
Operator : RC/JU
Sample : PB167779BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167779BS

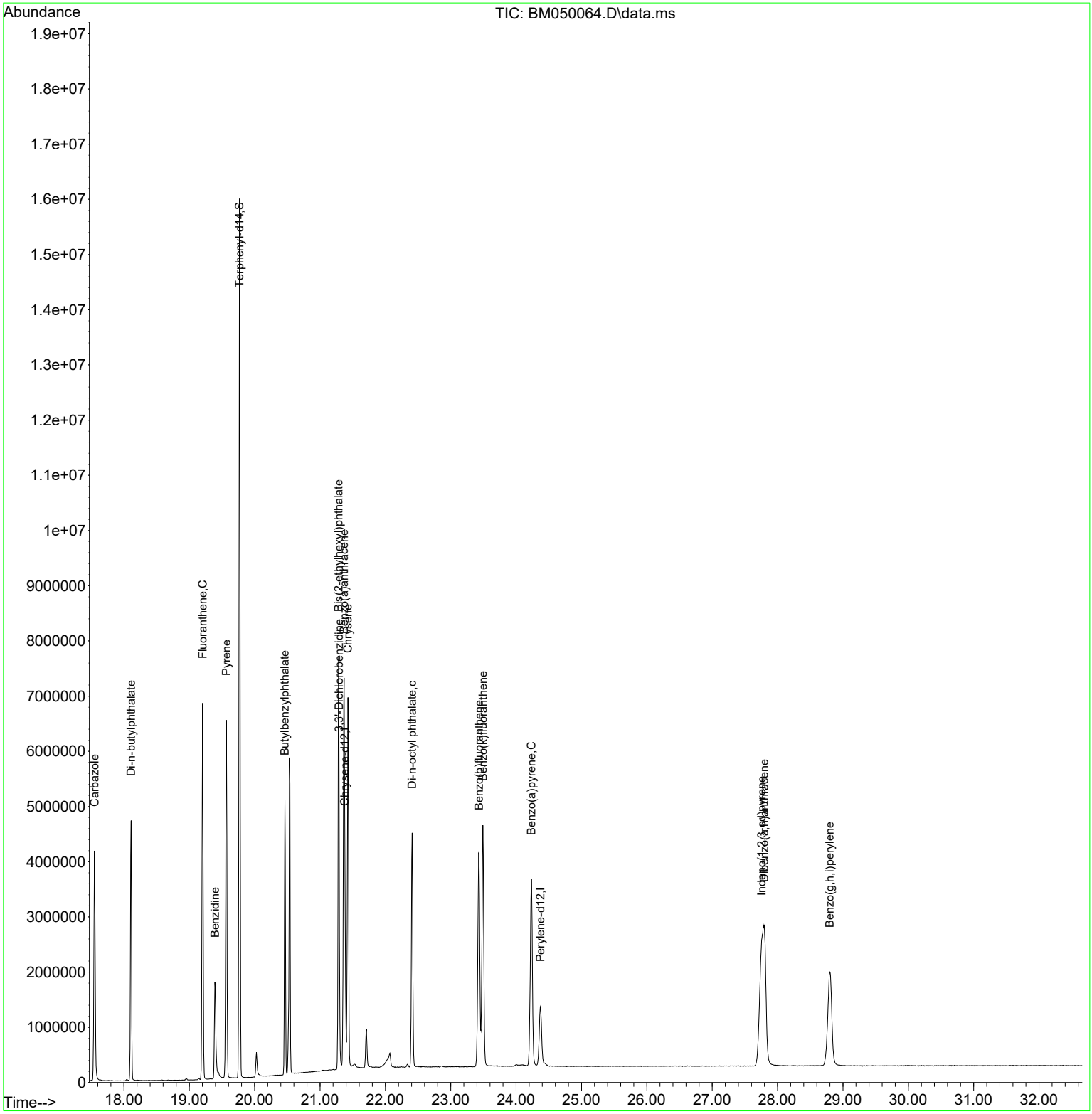
Quant Time: May 01 15:24:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050125\
Data File : BM050064.D
Acq On : 01 May 2025 14:43
Operator : RC/JU
Sample : PB167779BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB167779BS

Quant Time: May 01 15:24:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 18:09:16 2025
Response via : Initial Calibration



Sample Results: **BF142252.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142252.D
Acq On : 01 May 2025 11:13
Operator : RC/JU
Sample : PB167798BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 01 12:23:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB167798BS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.910	152	225762	20.000	ng	0.00
21) Naphthalene-d8	8.192	136	889454	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	464234	20.000	ng	0.00
64) Phenanthrene-d10	11.433	188	800889	20.000	ng	0.00
76) Chrysene-d12	14.074	240	447227	20.000	ng	0.00
86) Perylene-d12	15.563	264	448663	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.534	112	1573800	111.332	ng	0.02
7) Phenol-d6	6.528	99	1923984	112.709	ng	0.00
23) Nitrobenzene-d5	7.469	82	1064921	78.658	ng	0.00
42) 2,4,6-Tribromophenol	10.739	330	553053	130.679	ng	0.00
45) 2-Fluorobiphenyl	9.269	172	2279117	69.221	ng	0.00
79) Terphenyl-d14	13.022	244	2260338	73.507	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.799	88	214857	34.032	ng	99
3) Pyridine	3.546	79	612102	37.305	ng	99
4) n-Nitrosodimethylamine	3.499	42	354189	41.713	ng	99
6) Aniline	6.569	93	595232	24.635	ng	99
8) 2-Chlorophenol	6.693	128	621899	42.575	ng	100
9) Benzaldehyde	6.457	77	303059	25.401	ng	99
10) Phenol	6.546	94	757157m	41.200	ng	
11) bis(2-Chloroethyl)ether	6.646	93	582688	40.916	ng	100
12) 1,3-Dichlorobenzene	6.851	146	670657	40.585	ng	100
13) 1,4-Dichlorobenzene	6.928	146	672151	40.372	ng	99
14) 1,2-Dichlorobenzene	7.081	146	647246	40.722	ng	100
15) Benzyl Alcohol	7.045	79	513138	42.384	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.181	45	1068891	41.566	ng	99
17) 2-Methylphenol	7.151	107	501113	41.877	ng	98
18) Hexachloroethane	7.422	117	228628	41.957	ng	96
19) n-Nitroso-di-n-propyla...	7.322	70	430394	40.801	ng	99
20) 3+4-Methylphenols	7.304	107	621160	41.509	ng	94
22) Acetophenone	7.316	105	826074	40.145	ng	100
24) Nitrobenzene	7.493	77	591218	44.506	ng	100
25) Isophorone	7.728	82	1178770	41.486	ng	100
26) 2-Nitrophenol	7.804	139	225734	41.847	ng	99
27) 2,4-Dimethylphenol	7.840	122	602922	42.086	ng	99
28) bis(2-Chloroethoxy)met...	7.940	93	734626	40.995	ng	99
29) 2,4-Dichlorophenol	8.040	162	512350	42.777	ng	99
30) 1,2,4-Trichlorobenzene	8.128	180	547350	40.953	ng	100
31) Naphthalene	8.216	128	1792007	40.399	ng	100
32) Benzoic acid	7.945	122	282191m	42.883	ng	
33) 4-Chloroaniline	8.251	127	121514	6.579	ng	99
34) Hexachlorobutadiene	8.328	225	323243	41.453	ng	99
35) Caprolactam	8.622	113	164045m	45.568	ng	
36) 4-Chloro-3-methylphenol	8.734	107	532722	43.315	ng	98
37) 2-Methylnaphthalene	8.904	142	1105725	40.544	ng	99
38) 1-Methylnaphthalene	9.004	142	1159466	41.039	ng	99
40) 1,2,4,5-Tetrachloroben...	9.069	216	523019	40.032	ng	99
41) Hexachlorocyclopentadiene	9.057	237	659241	88.906	ng	99
43) 2,4,6-Trichlorophenol	9.175	196	354948	43.843	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142252.D
Acq On : 01 May 2025 11:13
Operator : RC/JU
Sample : PB167798BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 01 12:23:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB167798BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.216	196	386474	45.404	ng		98
46) 1,1'-Biphenyl	9.369	154	1475397	40.881	ng		100
47) 2-Chloronaphthalene	9.392	162	1092692	40.695	ng		99
48) 2-Nitroaniline	9.487	65	301543	43.124	ng		99
49) Acenaphthylene	9.810	152	1868315	41.234	ng		100
50) Dimethylphthalate	9.669	163	1278203	43.038	ng		100
51) 2,6-Dinitrotoluene	9.728	165	247512	43.832	ng		98
52) Acenaphthene	9.981	154	1161277	43.895	ng		100
53) 3-Nitroaniline	9.892	138	120832	19.467	ng		97
54) 2,4-Dinitrophenol	9.998	184	173600	84.535	ng	#	23
55) Dibenzofuran	10.157	168	1619144	40.827	ng		100
56) 4-Nitrophenol	10.045	139	471700	101.045	ng		98
57) 2,4-Dinitrotoluene	10.134	165	334335	48.433	ng		99
58) Fluorene	10.498	166	1240639	41.143	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.269	232	316821	44.934	ng		99
60) Diethylphthalate	10.369	149	1280368	43.657	ng		99
61) 4-Chlorophenyl-phenyle...	10.486	204	583485	40.745	ng		99
62) 4-Nitroaniline	10.510	138	278877	44.489	ng		99
63) Azobenzene	10.651	77	1225283	42.308	ng		100
65) 4,6-Dinitro-2-methylph...	10.539	198	114521	44.424	ng		95
66) n-Nitrosodiphenylamine	10.610	169	1120137	40.934	ng		100
67) 4-Bromophenyl-phenylether	10.981	248	374442	41.981	ng		99
68) Hexachlorobenzene	11.045	284	416999	41.744	ng		99
69) Atrazine	11.133	200	327822	45.449	ng		98
70) Pentachlorophenol	11.233	266	491588	93.152	ng		98
71) Phenanthrene	11.463	178	1729683	39.983	ng		99
72) Anthracene	11.510	178	1809920	40.920	ng		100
73) Carbazole	11.663	167	1673738	41.482	ng		100
74) Di-n-butylphthalate	11.998	149	1832830	45.166	ng		100
75) Fluoranthene	12.645	202	1790811	41.876	ng		99
77) Benzidine	12.769	184	427420	22.492	ng		98
78) Pyrene	12.875	202	1769704	42.897	ng		99
80) Butylbenzylphthalate	13.498	149	508489	45.305	ng		98
81) Benzo(a)anthracene	14.063	228	1236291	41.178	ng		100
82) 3,3'-Dichlorobenzidine	14.027	252	102802	11.657	ng		99
83) Chrysene	14.104	228	1191462	43.597	ng		100
84) Bis(2-ethylhexyl)phtha...	14.057	149	629446	40.842	ng		100
85) Di-n-octyl phthalate	14.674	149	1146731	41.045	ng		100
87) Indeno(1,2,3-cd)pyrene	17.080	276	1385292	42.153	ng		100
88) Benzo(b)fluoranthene	15.127	252	1230162	44.141	ng		99
89) Benzo(k)fluoranthene	15.157	252	1011794	39.692	ng		99
90) Benzo(a)pyrene	15.504	252	1085464	42.542	ng		100
91) Dibenzo(a,h)anthracene	17.098	278	1127475	42.272	ng		100
92) Benzo(g,h,i)perylene	17.539	276	1126050	41.996	ng		99

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

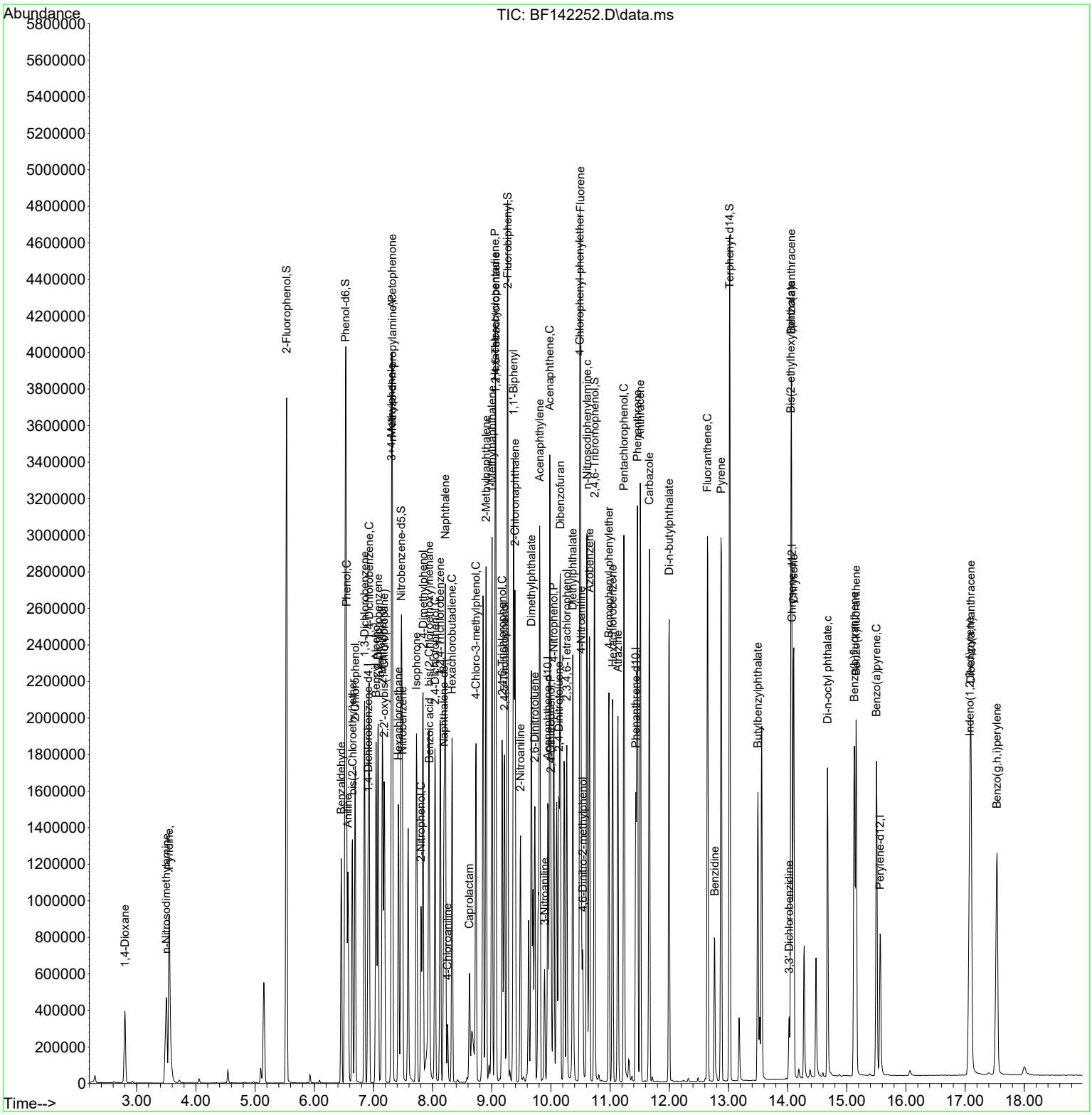
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142252.D
Acq On : 01 May 2025 11:13
Operator : RC/JU
Sample : PB167798BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 01 12:23:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB167798BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142253.D
Acq On : 01 May 2025 11:42
Operator : RC/JU
Sample : PB167798BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 01 12:24:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB167798BSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.910	152	228844	20.000	ng	0.00
21) Naphthalene-d8	8.192	136	895505	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	472033	20.000	ng	0.00
64) Phenanthrene-d10	11.433	188	796412	20.000	ng	0.00
76) Chrysene-d12	14.074	240	445019	20.000	ng	0.00
86) Perylene-d12	15.563	264	441873	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.528	112	1544251	107.770	ng	0.01
7) Phenol-d6	6.528	99	1910888	110.435	ng	0.00
23) Nitrobenzene-d5	7.469	82	1094804	80.319	ng	0.00
42) 2,4,6-Tribromophenol	10.739	330	558926	129.885	ng	0.00
45) 2-Fluorobiphenyl	9.269	172	2284570	68.240	ng	0.00
79) Terphenyl-d14	13.022	244	2257765	73.788	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.799	88	214363	33.497	ng	99
3) Pyridine	3.546	79	604462	36.343	ng	100
4) n-Nitrosodimethylamine	3.499	42	350276	40.697	ng	99
6) Aniline	6.569	93	664275	27.123	ng	99
8) 2-Chlorophenol	6.693	128	628695	42.460	ng	99
9) Benzaldehyde	6.457	77	294023	24.312	ng	99
10) Phenol	6.545	94	750967m	40.313	ng	
11) bis(2-Chloroethyl)ether	6.645	93	580502	40.214	ng	99
12) 1,3-Dichlorobenzene	6.851	146	662064	39.525	ng	100
13) 1,4-Dichlorobenzene	6.928	146	661045	39.170	ng	100
14) 1,2-Dichlorobenzene	7.081	146	646447	40.124	ng	99
15) Benzyl Alcohol	7.045	79	522603	42.584	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.181	45	1068395	40.987	ng	99
17) 2-Methylphenol	7.151	107	506643	41.769	ng	99
18) Hexachloroethane	7.422	117	227904	41.260	ng	97
19) n-Nitroso-di-n-propyla...	7.322	70	433820	40.572	ng	99
20) 3+4-Methylphenols	7.304	107	625731	41.251	ng	94
22) Acetophenone	7.316	105	822300	39.692	ng	100
24) Nitrobenzene	7.492	77	605776	45.294	ng	98
25) Isophorone	7.728	82	1175652	41.096	ng	100
26) 2-Nitrophenol	7.804	139	258365	46.327	ng	98
27) 2,4-Dimethylphenol	7.840	122	612593	42.472	ng	99
28) bis(2-Chloroethoxy)met...	7.940	93	740492	41.043	ng	99
29) 2,4-Dichlorophenol	8.040	162	521645	43.259	ng	99
30) 1,2,4-Trichlorobenzene	8.128	180	546079	40.582	ng	99
31) Naphthalene	8.216	128	1778327	39.820	ng	100
32) Benzoic acid	7.951	122	331051m	48.183	ng	
33) 4-Chloroaniline	8.251	127	168046	9.036	ng	99
34) Hexachlorobutadiene	8.328	225	322773	41.113	ng	99
35) Caprolactam	8.622	113	168204m	46.407	ng	
36) 4-Chloro-3-methylphenol	8.734	107	537952	43.445	ng	98
37) 2-Methylnaphthalene	8.904	142	1104930	40.241	ng	100
38) 1-Methylnaphthalene	9.004	142	1150453	40.445	ng	100
40) 1,2,4,5-Tetrachloroben...	9.069	216	524934	39.515	ng	99
41) Hexachlorocyclopentadiene	9.057	237	671988	89.128	ng	100
43) 2,4,6-Trichlorophenol	9.175	196	372452	45.244	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142253.D
Acq On : 01 May 2025 11:42
Operator : RC/JU
Sample : PB167798BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 01 12:24:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB167798BSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.216	196	387830	44.810	ng		98
46) 1,1'-Biphenyl	9.369	154	1480347	40.340	ng		100
47) 2-Chloronaphthalene	9.392	162	1105087	40.476	ng		99
48) 2-Nitroaniline	9.486	65	324508	45.363	ng		98
49) Acenaphthylene	9.810	152	1879452	40.794	ng		100
50) Dimethylphthalate	9.669	163	1290455	42.733	ng		100
51) 2,6-Dinitrotoluene	9.728	165	262585	45.558	ng		100
52) Acenaphthene	9.981	154	1183957	44.012	ng		99
53) 3-Nitroaniline	9.892	138	144830	22.378	ng		98
54) 2,4-Dinitrophenol	9.998	184	199878	91.584	ng	#	17
55) Dibenzofuran	10.157	168	1639725	40.663	ng		100
56) 4-Nitrophenol	10.045	139	489174	103.057	ng		98
57) 2,4-Dinitrotoluene	10.134	165	346883	49.318	ng		99
58) Fluorene	10.498	166	1248146	40.708	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.269	232	331140	46.189	ng		100
60) Diethylphthalate	10.369	149	1287411	43.172	ng		100
61) 4-Chlorophenyl-phenyle...	10.486	204	601502	41.309	ng		99
62) 4-Nitroaniline	10.510	138	288950	45.282	ng		99
63) Azobenzene	10.651	77	1233889	41.902	ng		100
65) 4,6-Dinitro-2-methylph...	10.539	198	128388	48.731	ng		94
66) n-Nitrosodiphenylamine	10.610	169	1124320	41.318	ng		99
67) 4-Bromophenyl-phenylether	10.980	248	376385	42.436	ng		99
68) Hexachlorobenzene	11.045	284	419316	42.212	ng		99
69) Atrazine	11.133	200	337532	47.058	ng		99
70) Pentachlorophenol	11.233	266	496901	94.688	ng		98
71) Phenanthrene	11.463	178	1750559	40.693	ng		99
72) Anthracene	11.510	178	1816790	41.306	ng		100
73) Carbazole	11.663	167	1689119	42.099	ng		100
74) Di-n-butylphthalate	11.998	149	1825873	45.248	ng		100
75) Fluoranthene	12.645	202	1777492	41.799	ng		99
77) Benzidine	12.769	184	483783	25.584	ng		98
78) Pyrene	12.880	202	1763648	42.962	ng		99
80) Butylbenzylphthalate	13.498	149	510891	45.709	ng		99
81) Benzo(a)anthracene	14.063	228	1233563	41.291	ng		100
82) 3,3'-Dichlorobenzidine	14.027	252	124446	14.182	ng		99
83) Chrysene	14.104	228	1170165	43.030	ng		100
84) Bis(2-ethylhexyl)phtha...	14.057	149	622700	40.625	ng		100
85) Di-n-octyl phthalate	14.674	149	1156711	41.525	ng		100
87) Indeno(1,2,3-cd)pyrene	17.080	276	1384791	42.786	ng		100
88) Benzo(b)fluoranthene	15.127	252	1077406	39.254	ng		99
89) Benzo(k)fluoranthene	15.157	252	1118010	44.533	ng		99
90) Benzo(a)pyrene	15.504	252	1070836	42.614	ng		100
91) Dibenzo(a,h)anthracene	17.098	278	1128281	42.952	ng		99
92) Benzo(g,h,i)perylene	17.533	276	1137552	43.077	ng		99

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

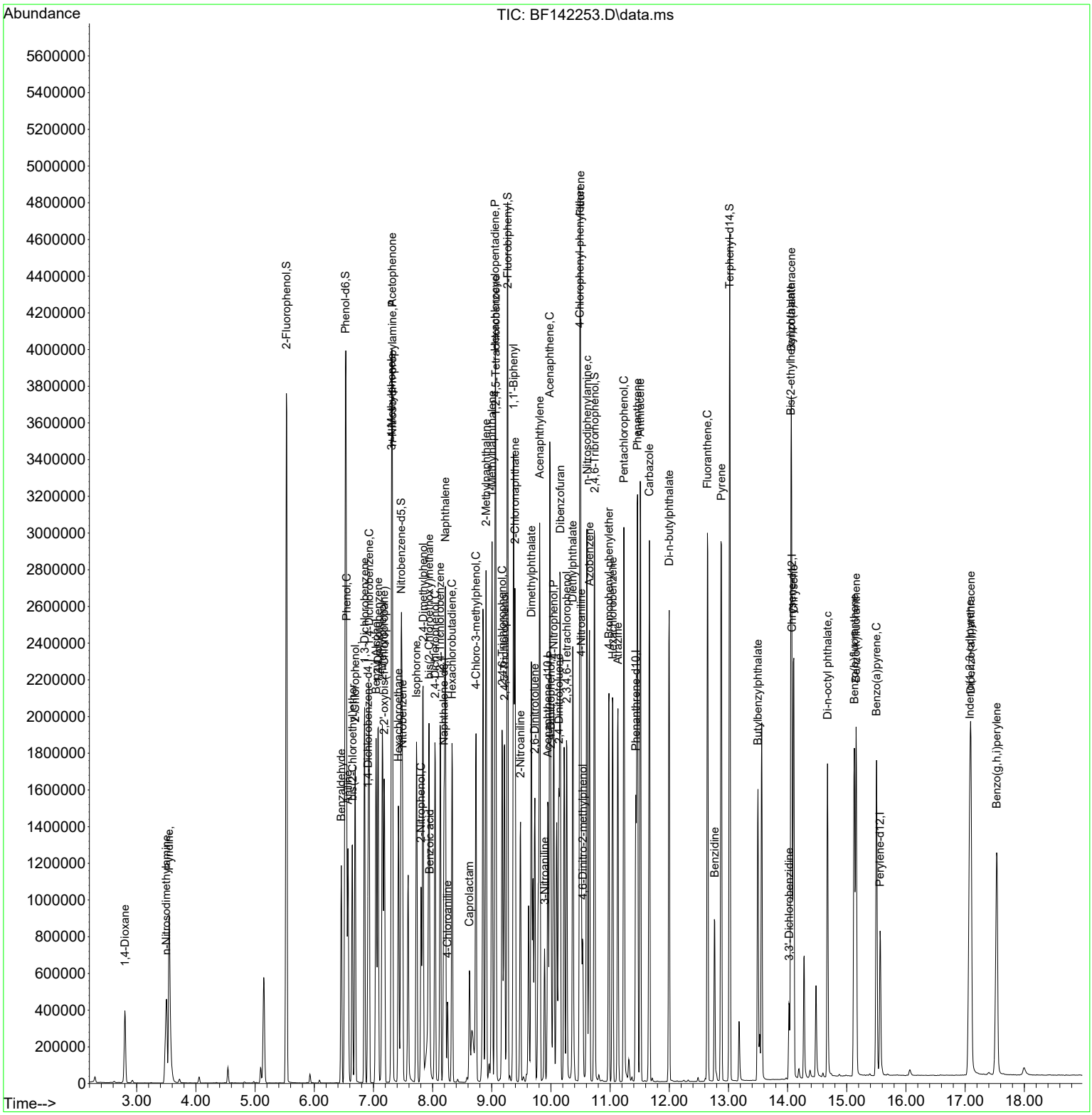
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142253.D
Acq On : 01 May 2025 11:42
Operator : RC/JU
Sample : PB167798BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 01 12:24:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB167798BSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142269.D
Acq On : 01 May 2025 19:24
Operator : RC/JU
Sample : Q1901-02MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 02 01:08:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
B-167-SB01MS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.910	152	207729	20.000	ng	0.00
21) Naphthalene-d8	8.192	136	776941	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	359640	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	495470	20.000	ng	0.00
76) Chrysene-d12	14.074	240	427878	20.000	ng	0.00
86) Perylene-d12	15.562	264	472653	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	1135655	87.311	ng	0.00
7) Phenol-d6	6.528	99	1416560	90.188	ng	0.00
23) Nitrobenzene-d5	7.469	82	805120	68.080	ng	0.00
42) 2,4,6-Tribromophenol	10.733	330	297829	90.840	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	1610323	63.132	ng	0.00
79) Terphenyl-d14	13.015	244	1290400	43.862	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.757	88	227396	39.145	ng	99
3) Pyridine	3.516	79	610565	40.441	ng	100
4) n-Nitrosodimethylamine	3.469	42	354637	45.391	ng	100
6) Aniline	6.569	93	670525	30.161	ng	100
8) 2-Chlorophenol	6.692	128	603690	44.916	ng	100
9) Benzaldehyde	6.457	77	303867	27.680	ng	99
10) Phenol	6.539	94	746973m	44.175	ng	
11) bis(2-Chloroethyl)ether	6.639	93	585375	44.673	ng	98
12) 1,3-Dichlorobenzene	6.851	146	664859	43.727	ng	99
13) 1,4-Dichlorobenzene	6.928	146	668597	43.645	ng	100
14) 1,2-Dichlorobenzene	7.081	146	646554	44.210	ng	100
15) Benzyl Alcohol	7.045	79	489425	43.935	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.181	45	1075078	45.436	ng	99
17) 2-Methylphenol	7.151	107	477055	43.327	ng	99
18) Hexachloroethane	7.422	117	236235	47.116	ng	97
19) n-Nitroso-di-n-propyla...	7.316	70	416439	42.906	ng	98
20) 3+4-Methylphenols	7.304	107	589920	42.844	ng	92
22) Acetophenone	7.316	105	790127	43.959	ng	98
24) Nitrobenzene	7.486	77	591434	50.970	ng	100
25) Isophorone	7.728	82	1114078	44.887	ng	99
26) 2-Nitrophenol	7.804	139	273106	54.190	ng	97
27) 2,4-Dimethylphenol	7.833	122	550527	43.994	ng	100
28) bis(2-Chloroethoxy)met...	7.933	93	701365	44.807	ng	99
29) 2,4-Dichlorophenol	8.039	162	476870	45.581	ng	99
30) 1,2,4-Trichlorobenzene	8.128	180	532603	45.620	ng	100
31) Naphthalene	8.210	128	1700955	43.900	ng	100
32) Benzoic acid	7.933	122	283194	47.659	ng	98
33) 4-Chloroaniline	8.251	127	170132	10.545	ng	100
34) Hexachlorobutadiene	8.328	225	319589	46.920	ng	99
35) Caprolactam	8.622	113	132868m	42.252	ng	
36) 4-Chloro-3-methylphenol	8.728	107	452691	42.138	ng	99
37) 2-Methylnaphthalene	8.904	142	1023582	42.967	ng	100
38) 1-Methylnaphthalene	9.004	142	1068100	43.280	ng	99
40) 1,2,4,5-Tetrachloroben...	9.069	216	495043	48.910	ng	99
41) Hexachlorocyclopentadiene	9.057	237	577255	100.490	ng	99
43) 2,4,6-Trichlorophenol	9.175	196	321539	51.266	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142269.D
Acq On : 01 May 2025 19:24
Operator : RC/JU
Sample : Q1901-02MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 02 01:08:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
B-167-SB01MS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	318776	48.342	ng		99
46) 1,1'-Biphenyl	9.363	154	1334117	47.717	ng		99
47) 2-Chloronaphthalene	9.392	162	976038	46.922	ng		99
48) 2-Nitroaniline	9.480	65	259849	47.433	ng		99
49) Acenaphthylene	9.804	152	1594521	45.426	ng		100
50) Dimethylphthalate	9.663	163	1066261	46.343	ng		100
51) 2,6-Dinitrotoluene	9.722	165	215101	48.680	ng		99
52) Acenaphthene	9.980	154	982506	47.938	ng		98
53) 3-Nitroaniline	9.886	138	127102	25.292	ng		98
54) 2,4-Dinitrophenol	9.992	184	128668	82.147	ng	#	53
55) Dibenzofuran	10.151	168	1363907	44.394	ng		99
56) 4-Nitrophenol	10.039	139	331460	91.654	ng		98
57) 2,4-Dinitrotoluene	10.127	165	257086	48.111	ng		95
58) Fluorene	10.492	166	997907	42.717	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.263	232	246538	45.135	ng		99
60) Diethylphthalate	10.363	149	1031674	45.408	ng		100
61) 4-Chlorophenyl-phenyle...	10.486	204	491200	44.277	ng		97
62) 4-Nitroaniline	10.504	138	193314	40.097	ng		95
63) Azobenzene	10.645	77	1084746	48.349	ng		95
65) 4,6-Dinitro-2-methylph...	10.527	198	87116	52.188	ng		97
66) n-Nitrosodiphenylamine	10.604	169	868383	51.295	ng		100
67) 4-Bromophenyl-phenylether	10.974	248	294375	53.349	ng		99
68) Hexachlorobenzene	11.039	284	307669	49.785	ng		99
69) Atrazine	11.127	200	242733	54.396	ng		99
70) Pentachlorophenol	11.227	266	331283	101.471	ng		98
71) Phenanthrene	11.457	178	1297633	48.485	ng		99
72) Anthracene	11.504	178	1269418	46.391	ng		99
73) Carbazole	11.657	167	1127973	45.188	ng		99
74) Di-n-butylphthalate	11.992	149	1427936	56.880	ng		100
75) Fluoranthene	12.645	202	1336936	50.534	ng		99
77) Benzidine	12.763	184	486096	26.736	ng		99
78) Pyrene	12.874	202	1363266	34.539	ng		100
80) Butylbenzylphthalate	13.492	149	571179	52.545	ng		100
81) Benzo(a)anthracene	14.062	228	1336806	46.539	ng		100
82) 3,3'-Dichlorobenzidine	14.021	252	271966	32.235	ng		100
83) Chrysene	14.098	228	1219993	46.660	ng		99
84) Bis(2-ethylhexyl)phtha...	14.051	149	801117	53.190	ng		99
85) Di-n-octyl phthalate	14.668	149	1516655	54.420	ng		99
87) Indeno(1,2,3-cd)pyrene	17.068	276	1171487	33.838	ng		100
88) Benzo(b)fluoranthene	15.121	252	1455180	49.565	ng		100
89) Benzo(k)fluoranthene	15.156	252	1286491	47.906	ng		99
90) Benzo(a)pyrene	15.498	252	1294646	48.165	ng		100
91) Dibenzo(a,h)anthracene	17.092	278	967006	34.415	ng		98
92) Benzo(g,h,i)perylene	17.521	276	881265	31.198	ng		99

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

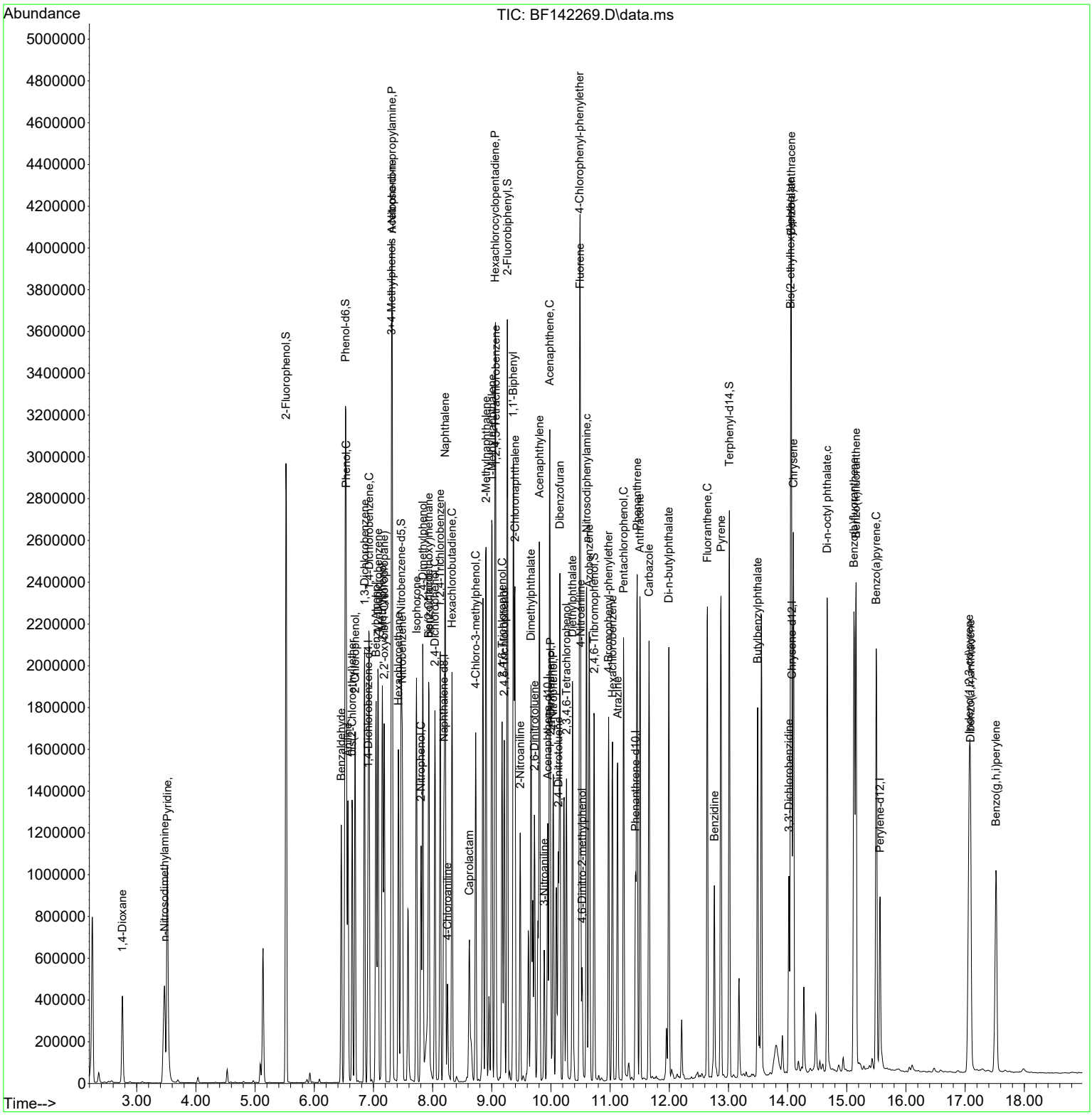
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142269.D
Acq On : 01 May 2025 19:24
Operator : RC/JU
Sample : Q1901-02MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 02 01:08:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
B-167-SB01MS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
Data File : BF142270.D
Acq On : 01 May 2025 19:52
Operator : RC/JU
Sample : Q1901-02MSD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 02 01:08:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 30 16:00:01 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
B-167-SB01MSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/02/2025
Supervised By :Jagrut Upadhyay 05/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.910	152	204570	20.000	ng		0.00
21) Naphthalene-d8	8.187	136	762454	20.000	ng		0.00
39) Acenaphthene-d10	9.945	164	351872	20.000	ng		0.00
64) Phenanthrene-d10	11.428	188	496148	20.000	ng		0.00
76) Chrysene-d12	14.069	240	429879	20.000	ng		0.00
86) Perylene-d12	15.557	264	473333	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.522	112	1098118	85.729	ng		0.00
7) Phenol-d6	6.528	99	1349184	87.225	ng		0.00
23) Nitrobenzene-d5	7.469	82	776525	66.910	ng		0.00
42) 2,4,6-Tribromophenol	10.733	330	286287	89.247	ng		0.00
45) 2-Fluorobiphenyl	9.263	172	1541618	61.773	ng		0.00
79) Terphenyl-d14	13.016	244	1244500	42.105	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.758	88	213600	37.338	ng		98
3) Pyridine	3.516	79	586468	39.445	ng		99
4) n-Nitrosodimethylamine	3.463	42	336346	43.715	ng		99
6) Aniline	6.569	93	640860	29.271	ng		99
8) 2-Chlorophenol	6.687	128	576726	43.572	ng		98
9) Benzaldehyde	6.457	77	286273	26.480	ng		99
10) Phenol	6.540	94	699472m	42.004	ng		
11) bis(2-Chloroethyl)ether	6.640	93	555314	43.034	ng		99
12) 1,3-Dichlorobenzene	6.851	146	628881	41.999	ng		99
13) 1,4-Dichlorobenzene	6.928	146	637600	42.264	ng		99
14) 1,2-Dichlorobenzene	7.075	146	614756	42.685	ng		99
15) Benzyl Alcohol	7.045	79	471490	42.978	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.181	45	1026846	44.067	ng		99
17) 2-Methylphenol	7.151	107	446076	41.139	ng		99
18) Hexachloroethane	7.422	117	224222	45.411	ng		99
19) n-Nitroso-di-n-propyla...	7.316	70	396481	41.480	ng		98
20) 3+4-Methylphenols	7.304	107	559745	41.280	ng	#	90
22) Acetophenone	7.316	105	751886	42.626	ng	#	97
24) Nitrobenzene	7.487	77	567935	49.874	ng		100
25) Isophorone	7.728	82	1049987	43.109	ng		99
26) 2-Nitrophenol	7.804	139	270273	54.552	ng		98
27) 2,4-Dimethylphenol	7.834	122	530664	43.212	ng		99
28) bis(2-Chloroethoxy)met...	7.934	93	677074	44.077	ng		99
29) 2,4-Dichlorophenol	8.040	162	450996	43.927	ng		99
30) 1,2,4-Trichlorobenzene	8.128	180	505370	44.110	ng		100
31) Naphthalene	8.210	128	1631154	42.898	ng		100
32) Benzoic acid	7.934	122	285536	48.669	ng		99
33) 4-Chloroaniline	8.251	127	188949	11.933	ng		99
34) Hexachlorobutadiene	8.328	225	308153	46.100	ng		99
35) Caprolactam	8.616	113	124087m	40.210	ng		
36) 4-Chloro-3-methylphenol	8.728	107	428130	40.609	ng		98
37) 2-Methylnaphthalene	8.898	142	977255	41.802	ng		99
38) 1-Methylnaphthalene	8.998	142	999740	41.279	ng		100
40) 1,2,4,5-Tetrachloroben...	9.069	216	471907	47.654	ng		99
41) Hexachlorocyclopentadiene	9.057	237	554087	98.586	ng		100
43) 2,4,6-Trichlorophenol	9.175	196	305921	49.853	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
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Sample : Q1901-02MSD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 02 01:08:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF043025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Manual Integrations APPROVED

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Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	297440	46.102	ng		99
46) 1,1'-Biphenyl	9.363	154	1272788	46.529	ng		99
47) 2-Chloronaphthalene	9.392	162	925740	45.486	ng		99
48) 2-Nitroaniline	9.481	65	252309	47.110	ng		98
49) Acenaphthylene	9.804	152	1503902	43.790	ng		100
50) Dimethylphthalate	9.663	163	1015217	45.099	ng		100
51) 2,6-Dinitrotoluene	9.722	165	204319	47.378	ng		98
52) Acenaphthene	9.981	154	931022	46.429	ng		98
53) 3-Nitroaniline	9.886	138	121932	24.861	ng	#	96
54) 2,4-Dinitrophenol	9.992	184	131189	84.371	ng	#	41
55) Dibenzofuran	10.151	168	1290218	42.922	ng		99
56) 4-Nitrophenol	10.039	139	316946	89.575	ng		99
57) 2,4-Dinitrotoluene	10.122	165	249724	47.801	ng		99
58) Fluorene	10.492	166	945333	41.360	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.263	232	232642	43.531	ng		99
60) Diethylphthalate	10.363	149	980867	44.125	ng		100
61) 4-Chlorophenyl-phenyle...	10.486	204	467320	43.054	ng		97
62) 4-Nitroaniline	10.504	138	182663	38.819	ng		95
63) Azobenzene	10.645	77	1027831	46.824	ng		96
65) 4,6-Dinitro-2-methylph...	10.528	198	85960	51.580	ng		96
66) n-Nitrosodiphenylamine	10.604	169	816949	48.191	ng		99
67) 4-Bromophenyl-phenylether	10.975	248	278827	50.462	ng		99
68) Hexachlorobenzene	11.039	284	292279	47.230	ng		99
69) Atrazine	11.128	200	232637	52.062	ng		99
70) Pentachlorophenol	11.228	266	317591	97.144	ng		98
71) Phenanthrene	11.457	178	1239899	46.265	ng		100
72) Anthracene	11.504	178	1211937	44.230	ng		99
73) Carbazole	11.657	167	1076493	43.067	ng		99
74) Di-n-butylphthalate	11.992	149	1373313	54.629	ng		100
75) Fluoranthene	12.645	202	1282408	48.407	ng		99
77) Benzidine	12.763	184	472493	25.867	ng		99
78) Pyrene	12.869	202	1332351	33.599	ng		99
80) Butylbenzylphthalate	13.492	149	544307	50.031	ng		99
81) Benzo(a)anthracene	14.063	228	1310994	45.428	ng		99
82) 3,3'-Dichlorobenzidine	14.022	252	285891	33.727	ng		99
83) Chrysene	14.098	228	1182323	45.008	ng		99
84) Bis(2-ethylhexyl)phtha...	14.051	149	774590	51.320	ng		100
85) Di-n-octyl phthalate	14.669	149	1467740	52.643	ng	#	99
87) Indeno(1,2,3-cd)pyrene	17.068	276	1135807	32.760	ng		99
88) Benzo(b)fluoranthene	15.121	252	1429910	48.634	ng		100
89) Benzo(k)fluoranthene	15.157	252	1218152	45.297	ng		99
90) Benzo(a)pyrene	15.498	252	1262185	46.890	ng		100
91) Dibenzo(a,h)anthracene	17.086	278	932712	33.147	ng		99
92) Benzo(g,h,i)perylene	17.521	276	856464	30.277	ng		100

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

Sample Results: **BF142270.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050125\
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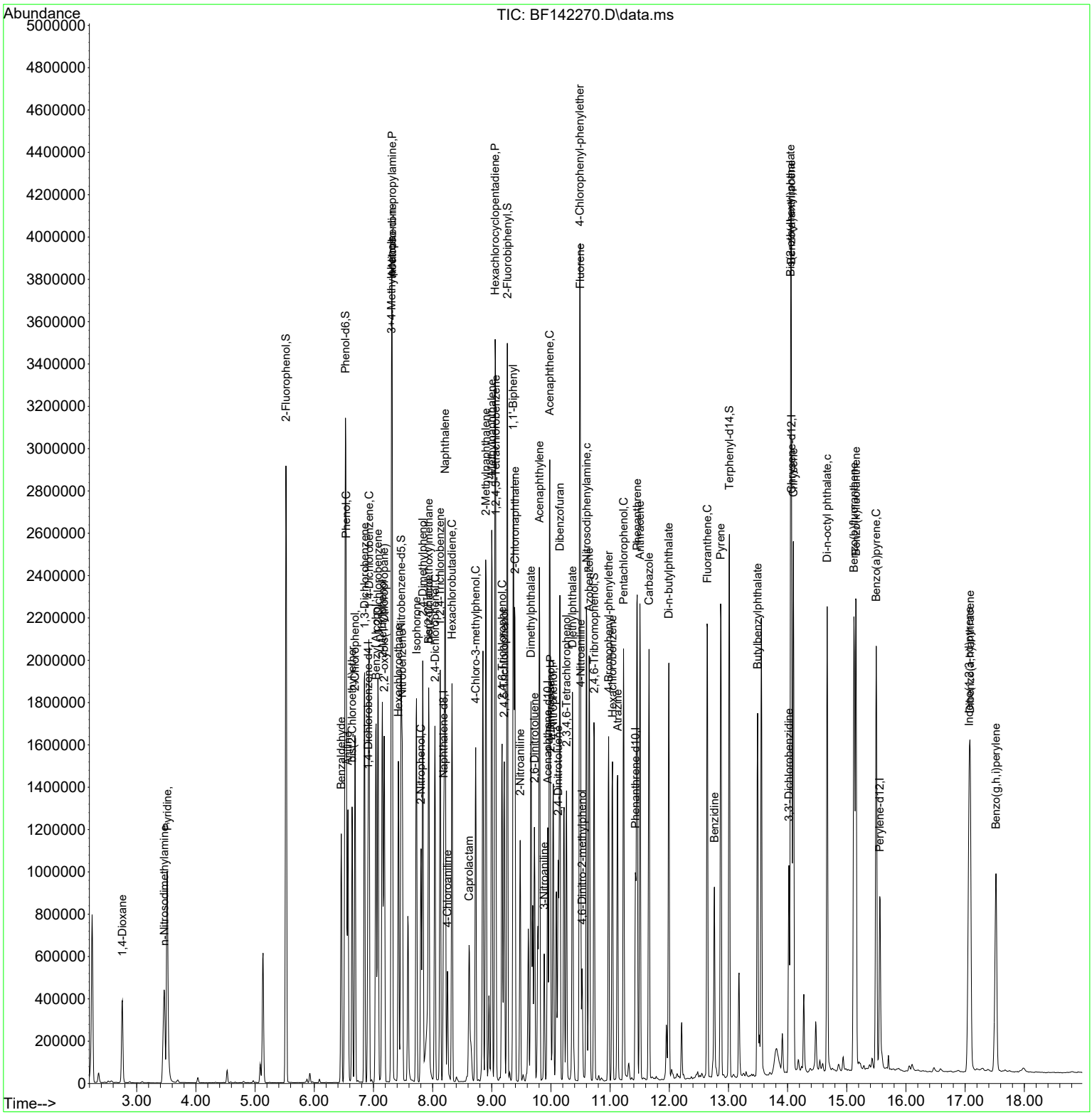

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BF043025	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BF142240.D	2,3,4,6-Tetrachlorophenol	Rahul	5/1/2025 11:26:17 AM	Jagrut	5/1/2025 1:17:43 PM	Peak Integrated by Software
SSTDICC020	BF142242.D	Benzoic acid	Rahul	5/1/2025 11:26:23 AM	Jagrut	5/1/2025 1:17:45 PM	Peak Integrated by Software
SSTDICCC040	BF142243.D	Benzoic acid	Rahul	5/1/2025 11:26:25 AM	Jagrut	5/1/2025 1:17:48 PM	Peak Integrated by Software
SSTDICC050	BF142244.D	Phenol	Rahul	5/1/2025 11:26:27 AM	Jagrut	5/1/2025 1:17:50 PM	Peak Integrated by Software
SSTDICC060	BF142245.D	Phenol	Rahul	5/1/2025 11:26:30 AM	Jagrut	5/1/2025 1:17:52 PM	Peak Integrated by Software
SSTDICC080	BF142246.D	Benzoic acid	Rahul	5/1/2025 11:26:33 AM	Jagrut	5/1/2025 1:17:55 PM	Peak Integrated by Software
SSTDICC080	BF142246.D	Phenol	Rahul	5/1/2025 11:26:33 AM	Jagrut	5/1/2025 1:17:55 PM	Peak Integrated by Software
SSTDICV040	BF142247.D	Benzoic acid	Rahul	5/1/2025 11:26:36 AM	Jagrut	5/1/2025 1:17:57 PM	Peak Integrated by Software
SSTDICV040	BF142247.D	Phenol	Rahul	5/1/2025 11:26:36 AM	Jagrut	5/1/2025 1:17:57 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bf050125	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF142250.D	Benzoic acid	Rahul	5/2/2025 10:45:14 AM	Jagrut	5/2/2025 4:47:49 PM	Peak Integrated by Software
SSTDCCC040	BF142250.D	Phenol	Rahul	5/2/2025 10:45:14 AM	Jagrut	5/2/2025 4:47:49 PM	Peak Integrated by Software
PB167798BS	BF142252.D	Benzoic acid	Rahul	5/2/2025 10:45:18 AM	Jagrut	5/2/2025 4:47:51 PM	Peak Integrated by Software
PB167798BS	BF142252.D	Caprolactam	Rahul	5/2/2025 10:45:18 AM	Jagrut	5/2/2025 4:47:51 PM	Peak Integrated by Software
PB167798BS	BF142252.D	Phenol	Rahul	5/2/2025 10:45:18 AM	Jagrut	5/2/2025 4:47:51 PM	Peak Integrated by Software
PB167798BSD	BF142253.D	Benzoic acid	Rahul	5/2/2025 10:45:22 AM	Jagrut	5/2/2025 4:47:54 PM	Peak Integrated by Software
PB167798BSD	BF142253.D	Caprolactam	Rahul	5/2/2025 10:45:22 AM	Jagrut	5/2/2025 4:47:54 PM	Peak Integrated by Software
PB167798BSD	BF142253.D	Phenol	Rahul	5/2/2025 10:45:22 AM	Jagrut	5/2/2025 4:47:54 PM	Peak Integrated by Software
Q1901-02	BF142268.D	Benzo(b)fluoranthene	Rahul	5/2/2025 10:45:30 AM	Jagrut	5/2/2025 4:48:02 PM	Peak Integrated by Software
Q1901-02MS	BF142269.D	Caprolactam	Rahul	5/2/2025 10:45:34 AM	Jagrut	5/2/2025 4:48:05 PM	Peak Integrated by Software
Q1901-02MS	BF142269.D	Phenol	Rahul	5/2/2025 10:45:34 AM	Jagrut	5/2/2025 4:48:05 PM	Peak Integrated by Software
Q1901-02MSD	BF142270.D	Caprolactam	Rahul	5/2/2025 10:45:38 AM	Jagrut	5/2/2025 4:48:13 PM	Peak Integrated by Software
Q1901-02MSD	BF142270.D	Phenol	Rahul	5/2/2025 10:45:38 AM	Jagrut	5/2/2025 4:48:13 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bf050125	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	BM042825	Instrument	BNA_m

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BM050025.D	4-Nitroaniline	Rahul	4/29/2025 8:55:04 AM	Jagrut	4/29/2025 11:57:10 AM	Peak Integrated by Software
SSTDICC005	BM050025.D	Benzaldehyde	Rahul	4/29/2025 8:55:04 AM	Jagrut	4/29/2025 11:57:10 AM	Peak Integrated by Software
SSTDICC005	BM050025.D	Benzo(k)fluoranthene	Rahul	4/29/2025 8:55:04 AM	Jagrut	4/29/2025 11:57:10 AM	Peak Integrated by Software
SSTDICC005	BM050025.D	Caprolactam	Rahul	4/29/2025 8:55:04 AM	Jagrut	4/29/2025 11:57:10 AM	Peak Integrated by Software
SSTDICC010	BM050026.D	4-Nitroaniline	Rahul	4/29/2025 8:55:07 AM	Jagrut	4/29/2025 11:57:13 AM	Peak Integrated by Software
SSTDICC010	BM050026.D	Benzaldehyde	Rahul	4/29/2025 8:55:07 AM	Jagrut	4/29/2025 11:57:13 AM	Peak Integrated by Software
SSTDICC010	BM050026.D	Benzoic acid	Rahul	4/29/2025 8:55:07 AM	Jagrut	4/29/2025 11:57:13 AM	Peak Integrated by Software
SSTDICC020	BM050027.D	Benzoic acid	Rahul	4/29/2025 8:55:10 AM	Jagrut	4/29/2025 11:57:15 AM	Peak Integrated by Software
SSTDICV040	BM050032.D	Benzaldehyde	Rahul	4/29/2025 8:55:13 AM	Jagrut	4/29/2025 11:57:18 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bm050125	Instrument	BNA_m

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1901-03	BM050074.D	Benzo(k)fluoranthene	Rahul	5/2/2025 10:54:03 AM	Jagrut	5/2/2025 4:56:48 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 # BF043025

Review By	Rahul	Review On	5/1/2025 1:20:20 PM		
Supervise By	Jagrut	Supervise On	5/1/2025 1:23:08 PM		
SubDirectory	BF043025	HP Acquire Method	BNA_F	HP Processing Method	BF043025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12661,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142238.D	30 Apr 2025 10:55	RC/JU	Ok
2	SSTDICC2.5	BF142239.D	30 Apr 2025 11:24	RC/JU	Ok
3	SSTDICC005	BF142240.D	30 Apr 2025 11:52	RC/JU	Ok,M
4	SSTDICC010	BF142241.D	30 Apr 2025 12:20	RC/JU	Ok
5	SSTDICC020	BF142242.D	30 Apr 2025 12:49	RC/JU	Ok,M
6	SSTDICCC040	BF142243.D	30 Apr 2025 13:17	RC/JU	Ok,M
7	SSTDICC050	BF142244.D	30 Apr 2025 13:46	RC/JU	Ok,M
8	SSTDICC060	BF142245.D	30 Apr 2025 14:15	RC/JU	Ok,M
9	SSTDICC080	BF142246.D	30 Apr 2025 14:43	RC/JU	Ok,M
10	SSTDICV040	BF142247.D	30 Apr 2025 16:17	RC/JU	Ok,M
11	PB167726BL	BF142248.D	30 Apr 2025 17:15	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 # BF050125

Review By	Rahul	Review On	5/2/2025 10:46:38 AM				
Supervise By	Jagrut	Supervise On	5/2/2025 4:49:12 PM				
SubDirectory	BF050125	HP Acquire Method	BNA_F		HP Processing Method	BF043025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12661,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142249.D	01 May 2025 09:48	RC/JU	Ok
2	SSTDCCC040	BF142250.D	01 May 2025 10:17	RC/JU	Ok,M
3	PB167798BL	BF142251.D	01 May 2025 10:45	RC/JU	Ok
4	PB167798BS	BF142252.D	01 May 2025 11:13	RC/JU	Ok,M
5	PB167798BSD	BF142253.D	01 May 2025 11:42	RC/JU	Ok,M
6	PB167810BL	BF142254.D	01 May 2025 12:10	RC/JU	Ok
7	PB167810BS	BF142255.D	01 May 2025 12:39	RC/JU	Ok,M
8	PB167774TB	BF142256.D	01 May 2025 13:07	RC/JU	Ok
9	Q1890-01	BF142257.D	01 May 2025 13:40	RC/JU	Ok
10	Q1920-01	BF142258.D	01 May 2025 14:09	RC/JU	Ok,M
11	Q1914-14	BF142259.D	01 May 2025 14:37	RC/JU	Ok
12	Q1913-04	BF142260.D	01 May 2025 15:06	RC/JU	Ok
13	Q1915-01	BF142261.D	01 May 2025 15:34	RC/JU	Ok
14	Q1903-01	BF142262.D	01 May 2025 16:03	RC/JU	Ok
15	Q1903-02	BF142263.D	01 May 2025 16:31	RC/JU	Ok
16	Q1903-03	BF142264.D	01 May 2025 17:00	RC/JU	Ok
17	Q1906-01	BF142265.D	01 May 2025 17:29	RC/JU	Ok
18	Q1906-13	BF142266.D	01 May 2025 17:57	RC/JU	Ok
19	Q1901-06	BF142267.D	01 May 2025 18:26	RC/JU	Ok
20	Q1901-02	BF142268.D	01 May 2025 18:55	RC/JU	Ok,M
21	Q1901-02MS	BF142269.D	01 May 2025 19:24	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 # BF050125

Review By	Rahul	Review On	5/2/2025 10:46:38 AM				
Supervise By	Jagrut	Supervise On	5/2/2025 4:49:12 PM				
SubDirectory	BF050125	HP Acquire Method	BNA_F		HP Processing Method	BF043025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12661,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1901-02MSD	BF142270.D	01 May 2025 19:52	RC/JU	Ok,M
23	Q1901-04	BF142271.D	01 May 2025 20:20	RC/JU	Ok
24	Q1901-05	BF142272.D	01 May 2025 20:49	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM042825

Review By	Rahul	Review On	4/29/2025 8:56:26 AM		
Supervise By	Jagrut	Supervise On	4/29/2025 11:57:30 AM		
SubDirectory	BM042825	HP Acquire Method	BNA_M	HP Processing Method	BM042825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12661,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BM050023.D	28 Apr 2025 11:46	RC/JU	Ok
2	SSTDICC2.5	BM050024.D	28 Apr 2025 12:30	RC/JU	Ok
3	SSTDICC005	BM050025.D	28 Apr 2025 13:09	RC/JU	Ok,M
4	SSTDICC010	BM050026.D	28 Apr 2025 13:48	RC/JU	Ok,M
5	SSTDICC020	BM050027.D	28 Apr 2025 14:27	RC/JU	Ok,M
6	SSTDICCC040	BM050028.D	28 Apr 2025 15:06	RC/JU	Ok
7	SSTDICC050	BM050029.D	28 Apr 2025 15:45	RC/JU	Ok
8	SSTDICC060	BM050030.D	28 Apr 2025 16:24	RC/JU	Ok
9	SSTDICC080	BM050031.D	28 Apr 2025 17:04	RC/JU	Ok
10	SSTDICV040	BM050032.D	28 Apr 2025 17:43	RC/JU	Ok,M
11	PB167739BL	BM050033.D	28 Apr 2025 19:40	RC/JU	Not Ok

M : Manual Integration

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

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM050125

Review By	Rahul	Review On	5/1/2025 3:03:06 PM				
Supervise By	Jagrut	Supervise On	5/2/2025 4:57:09 PM				
SubDirectory	BM050125	HP Acquire Method	BNA_M		HP Processing Method	BM042825	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12662,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BM050061.D	01 May 2025 12:24	RC/JU	Ok
2	SSTDCCC040	BM050062.D	01 May 2025 13:25	RC/JU	Ok
3	PB167779BL	BM050063.D	01 May 2025 14:04	RC/JU	Ok
4	PB167779BS	BM050064.D	01 May 2025 14:43	RC/JU	Ok
5	Q1900-05	BM050065.D	01 May 2025 15:26	RC/JU	Ok
6	Q1914-01	BM050066.D	01 May 2025 16:05	RC/JU	Ok
7	Q1914-02	BM050067.D	01 May 2025 16:44	RC/JU	Ok
8	Q1905-05	BM050068.D	01 May 2025 17:23	RC/JU	Ok,M
9	Q1900-01	BM050069.D	01 May 2025 18:02	RC/JU	Ok,M
10	Q1906-05	BM050070.D	01 May 2025 18:41	RC/JU	Ok,M
11	Q1914-03	BM050071.D	01 May 2025 19:20	RC/JU	Ok
12	Q1914-05	BM050072.D	01 May 2025 20:00	RC/JU	Ok,M
13	Q1907-01	BM050073.D	01 May 2025 20:39	RC/JU	Dilution
14	Q1901-03	BM050074.D	01 May 2025 21:18	RC/JU	Ok,M
15	Q1900-09	BM050075.D	01 May 2025 21:57	RC/JU	Ok,M
16	Q1905-01	BM050076.D	01 May 2025 22:36	RC/JU	Ok,M
17	Q1906-09	BM050077.D	01 May 2025 23:15	RC/JU	Not 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 # BF043025

Review By	Rahul	Review On	5/1/2025 1:20:20 PM		
Supervise By	Jagrut	Supervise On	5/1/2025 1:23:08 PM		
SubDirectory	BF043025	HP Acquire Method	BNA_F	HP Processing Method	BF043025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12661,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142238.D	30 Apr 2025 10:55		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF142239.D	30 Apr 2025 11:24		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF142240.D	30 Apr 2025 11:52	Compound#32,54,56,65,70,85 removed from 5 ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BF142241.D	30 Apr 2025 12:20		RC/JU	Ok
5	SSTDICC020	SSTDICC020	BF142242.D	30 Apr 2025 12:49		RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF142243.D	30 Apr 2025 13:17	Compound#32,48,51,53,57,62,65,80,84,85 Kept on LR	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BF142244.D	30 Apr 2025 13:46	Compound#26,54 Kept on QR	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BF142245.D	30 Apr 2025 14:15		RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BF142246.D	30 Apr 2025 14:43		RC/JU	Ok,M
10	SSTDICV040	ICVBF043025	BF142247.D	30 Apr 2025 16:17		RC/JU	Ok,M
11	PB167726BL	PB167726BL	BF142248.D	30 Apr 2025 17:15		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 # BF050125

Review By	Rahul	Review On	5/2/2025 10:46:38 AM		
Supervise By	Jagrut	Supervise On	5/2/2025 4:49:12 PM		
SubDirectory	BF050125	HP Acquire Method	BNA_F	HP Processing Method	BF043025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12661,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142249.D	01 May 2025 09:48		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142250.D	01 May 2025 10:17		RC/JU	Ok,M
3	PB167798BL	PB167798BL	BF142251.D	01 May 2025 10:45		RC/JU	Ok
4	PB167798BS	PB167798BS	BF142252.D	01 May 2025 11:13		RC/JU	Ok,M
5	PB167798BSD	PB167798BSD	BF142253.D	01 May 2025 11:42		RC/JU	Ok,M
6	PB167810BL	PB167810BL	BF142254.D	01 May 2025 12:10		RC/JU	Ok
7	PB167810BS	PB167810BS	BF142255.D	01 May 2025 12:39		RC/JU	Ok,M
8	PB167774TB	PB167774TB	BF142256.D	01 May 2025 13:07		RC/JU	Ok
9	Q1890-01	TW-WTS-07	BF142257.D	01 May 2025 13:40		RC/JU	Ok
10	Q1920-01	291	BF142258.D	01 May 2025 14:09		RC/JU	Ok,M
11	Q1914-14	FB04282025	BF142259.D	01 May 2025 14:37		RC/JU	Ok
12	Q1913-04	WC-13-A-202504	BF142260.D	01 May 2025 15:06		RC/JU	Ok
13	Q1915-01	WC-04282025	BF142261.D	01 May 2025 15:34		RC/JU	Ok
14	Q1903-01	COMP-4	BF142262.D	01 May 2025 16:03		RC/JU	Ok
15	Q1903-02	COMP-5	BF142263.D	01 May 2025 16:31		RC/JU	Ok
16	Q1903-03	COMP-6	BF142264.D	01 May 2025 17:00		RC/JU	Ok
17	Q1906-01	WC-4	BF142265.D	01 May 2025 17:29		RC/JU	Ok
18	Q1906-13	WC-7	BF142266.D	01 May 2025 17:57		RC/JU	Ok

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 # BF050125

Review By	Rahul	Review On	5/2/2025 10:46:38 AM		
Supervise By	Jagrut	Supervise On	5/2/2025 4:49:12 PM		
SubDirectory	BF050125	HP Acquire Method	BNA_F	HP Processing Method	BF043025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12661,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1901-06	FB04262025	BF142267.D	01 May 2025 18:26		RC/JU	Ok
20	Q1901-02	B-167-SB01	BF142268.D	01 May 2025 18:55		RC/JU	Ok,M
21	Q1901-02MS	B-167-SB01MS	BF142269.D	01 May 2025 19:24		RC/JU	Ok,M
22	Q1901-02MSD	B-167-SB01MSD	BF142270.D	01 May 2025 19:52		RC/JU	Ok,M
23	Q1901-04	B-167-SB02	BF142271.D	01 May 2025 20:20		RC/JU	Ok
24	Q1901-05	B-170-SB02	BF142272.D	01 May 2025 20:49		RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM042825

Review By	Rahul	Review On	4/29/2025 8:56:26 AM		
Supervise By	Jagrut	Supervise On	4/29/2025 11:57:30 AM		
SubDirectory	BM042825	HP Acquire Method	BNA_M	HP Processing Method	BM042825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12661,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BM050023.D	28 Apr 2025 11:46		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BM050024.D	28 Apr 2025 12:30		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BM050025.D	28 Apr 2025 13:09	Compound#32-41-54-56-65-70-77 removed from 5 ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BM050026.D	28 Apr 2025 13:48		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BM050027.D	28 Apr 2025 14:27		RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BM050028.D	28 Apr 2025 15:06	Compound#54 & 56 Kept on LR	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BM050029.D	28 Apr 2025 15:45		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BM050030.D	28 Apr 2025 16:24		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BM050031.D	28 Apr 2025 17:04		RC/JU	Ok
10	SSTDICV040	ICVBM042825	BM050032.D	28 Apr 2025 17:43		RC/JU	Ok,M
11	PB167739BL	PB167739BL	BM050033.D	28 Apr 2025 19:40	Analyzed for contamination check	RC/JU	Not Ok

M : Manual Integration

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

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM050125

Review By	Rahul	Review On	5/1/2025 3:03:06 PM		
Supervise By	Jagrut	Supervise On	5/2/2025 4:57:09 PM		
SubDirectory	BM050125	HP Acquire Method	BNA_M	HP Processing Method	BM042825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12662,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BM050061.D	01 May 2025 12:24		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BM050062.D	01 May 2025 13:25		RC/JU	Ok
3	PB167779BL	PB167779BL	BM050063.D	01 May 2025 14:04		RC/JU	Ok
4	PB167779BS	PB167779BS	BM050064.D	01 May 2025 14:43		RC/JU	Ok
5	Q1900-05	WC-2	BM050065.D	01 May 2025 15:26		RC/JU	Ok
6	Q1914-01	SS-1	BM050066.D	01 May 2025 16:05		RC/JU	Ok
7	Q1914-02	SS-91	BM050067.D	01 May 2025 16:44		RC/JU	Ok
8	Q1905-05	MH-H	BM050068.D	01 May 2025 17:23		RC/JU	Ok,M
9	Q1900-01	WC-1	BM050069.D	01 May 2025 18:02		RC/JU	Ok,M
10	Q1906-05	WC-5	BM050070.D	01 May 2025 18:41		RC/JU	Ok,M
11	Q1914-03	SS-2	BM050071.D	01 May 2025 19:20		RC/JU	Ok
12	Q1914-05	SS-4	BM050072.D	01 May 2025 20:00		RC/JU	Ok,M
13	Q1907-01	CO-8R-WC	BM050073.D	01 May 2025 20:39	Need further 5X Dilution	RC/JU	Dilution
14	Q1901-03	B-170-SB01	BM050074.D	01 May 2025 21:18		RC/JU	Ok,M
15	Q1900-09	WC-3	BM050075.D	01 May 2025 21:57		RC/JU	Ok,M
16	Q1905-01	MH-G	BM050076.D	01 May 2025 22:36		RC/JU	Ok,M
17	Q1906-09	WC-6	BM050077.D	01 May 2025 23:15	Need Straight Run	RC/JU	Not Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167779

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 : 04/29/2025

Extraction Start Time : 09:30

Extraction End Date : 04/29/2025

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	SP6752
Surrogate	1.0ML	100/150 PPM	SP6754
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	EP2600
Baked Na2SO4	N/A	EP2607
Sand	N/A	EP2865
Methylene Chloride	N/A	E3926
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210443.

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
4/29/25	RS (EC4 Lab).	RC/SVOC
12:35	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167779

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 04/29/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167779BL	SBLK779	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			U1-1
PB167779BS	SLCS779	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			2
Q1900-01	WC-1	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E		3
Q1900-05	WC-2	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		4
Q1900-09	WC-3	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E		5
Q1901-02	B-167-SB01	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	F		6
Q1901-02MS	B-167-SB01MS	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	F		U2-1
Q1901-02MS D	B-167-SB01MSD	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	F		2
Q1901-03	B-170-SB01	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	E		3
Q1901-04	B-167-SB02	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		4
Q1901-05	B-170-SB02	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		5
Q1902-02	343	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	D		6
Q1903-01	COMP-4	SVOCMS Group1	30.04	N/A	ritesh	Evelyn	1	E		U3-1
Q1903-02	COMP-5	SVOCMS Group1	30.02	N/A	ritesh	Evelyn	1	E		2
Q1903-03	COMP-6	SVOCMS Group1	30.03	N/A	ritesh	Evelyn	1	E		3
Q1904-01	VNJ-210	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	H		4
Q1905-01	MH-G	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	D		5
Q1905-05	MH-H	SVOC-TCL BNA -20	50.01	N/A	ritesh	Evelyn	1	D		6
Q1906-01	WC-4	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	D		U6-1
Q1906-05	WC-5	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	D		2
Q1906-09	WC-6	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	D		3
Q1906-13	WC-7	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	D		4

RS
4/29

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

16 7779 9:30

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1903 **WorkList ID :** 189200 **Department :** Extraction **Date :** 04-29-2025 08:40:06

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1900-01	WC-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	04/25/2025	8270E
Q1900-05	WC-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	04/25/2025	8270E
Q1900-09	WC-3	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	04/25/2025	8270E
Q1901-02	B-167-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L51	04/26/2025	8270E
Q1901-03	B-170-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L51	04/26/2025	8270E
Q1901-04	B-167-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L51	04/26/2025	8270E
Q1901-05	B-170-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L51	04/26/2025	8270E
Q1902-02	343	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	04/28/2025	8270E
Q1903-01	COMP-4	Solid	SVOCMS Group1	Cool 4 deg C	POWE02	L51	04/25/2025	8270E
Q1903-02	COMP-5	Solid	SVOCMS Group1	Cool 4 deg C	POWE02	L51	04/25/2025	8270E
Q1903-03	COMP-6	Solid	SVOCMS Group1	Cool 4 deg C	POWE02	L51	04/25/2025	8270E
Q1904-01	VNJ-210	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	04/28/2025	8270E
Q1905-01	MH-G	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L51	04/28/2025	8270E
Q1905-05	MH-H	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L51	04/28/2025	8270E
Q1906-01	WC-4	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	04/28/2025	8270E
Q1906-05	WC-5	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	04/28/2025	8270E
Q1906-09	WC-6	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	04/28/2025	8270E
Q1906-13	WC-7	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	04/28/2025	8270E

Date/Time 04/29/25 9:25
Raw Sample Received by: RJ (Ext-Lab)
Raw Sample Relinquished by: CP

Date/Time 04/29/25 10:00
Raw Sample Received by: CP
Raw Sample Relinquished by: RJ (Ext-Lab)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167798

SOP ID:	M3510C,3580A-Extraction SVOC-20				
Clean Up SOP #:	N/A			**Extraction Start Date :**	04/30/2025
Matrix :	Water			**Extraction Start Time :**	08:35
Weigh By:	N/A	**Extraction By:**	RJ	**Extraction End Date :**	04/30/2025
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	16:00
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,6,7	**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	SP6752
Surrogate	1.0ML	100/150 PPM	SP6754
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	E3926
Baked Na2SO4	N/A	EP2607
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2865
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# 2210443. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH. Q1914-14 Added at 11:58 AM.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
4/30/25	RS (Ext lab)	RC/SVOC
16:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167798

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

Concentration Date: 04/30/2025

Sample ID	Client Sample ID	Test	g /(mL)*	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167798BL	SBLK798	SVOC-TCL BNA -20	1000	6	ritesh	Evelyn	1			SEP-1
PB167798BS	SLCS798	SVOC-TCL BNA -20	1000	6	ritesh	Evelyn	1			2
PB167798BSD	SLCSD798	SVOC-TCL BNA -20	1000	6	ritesh	Evelyn	1			3
Q1890-01	TW-WTS-07	SVOCMS Group4	960	12	ritesh	Evelyn	1	F		4
Q1901-06	FB04262025	SVOC-TCL BNA -20	940	6	ritesh	Evelyn	1	I		5
Q1914-14	FB04282025	SVOCMS Group3	960	6	ritesh	Evelyn	1	C		6

RS 4/30

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

167798
8:35

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1890 **WorkList ID :** 189223 **Department :** Extraction **Date :** 04-30-2025 08:30:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1890-01	TW-WTS-07	Water	SVOCMS Group4	Cool 4 deg C	ENTA05	L41	04/24/2025	8270E
Q1901-06	FB04262025	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L51	04/26/2025	8270E

Date/Time 04/30/25 8:30
Raw Sample Received by: RJ (EXT (gb)
Raw Sample Relinquished by: SM

Date/Time 4/30/25 9:00
Raw Sample Received by: SM
Raw Sample Relinquished by: RJ (EXT (gb)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1914 **WorkList ID :** 189229 **Department :** Extraction **Date :** 04-30-2025 10:58:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1914-14	FB04282025	Water	SVOCMS Group3	Cool 4 deg C	CAMP02	L41	04/28/2025	8270E

Date/Time 4/30/25 10:58

Raw Sample Received by: RJ (EXT-lab)

Raw Sample Relinquished by: CP SM

Date/Time 4/30/25 11:15

Raw Sample Received by: CP SM

Raw Sample Relinquished by: RJ (EXT-lab)

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

LAB CHRONICLE

OrderID:	Q1901	**OrderDate:**	4/28/2025 10:24:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1901-02	**B-167-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			SVOC-TCL BNA -20	8270E		04/29/25	05/01/25	
Q1901-03	**B-170-SB01**	**SOIL**			**04/26/25**			**04/28/25**
			SVOC-TCL BNA -20	8270E		04/29/25	05/01/25	
Q1901-04	**B-167-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			SVOC-TCL BNA -20	8270E		04/29/25	05/01/25	
Q1901-05	**B-170-SB02**	**SOIL**			**04/26/25**			**04/28/25**
			SVOC-TCL BNA -20	8270E		04/29/25	05/01/25	
Q1901-06	**FB04262025**	**Water**			**04/26/25**			**04/28/25**
			SVOC-TCL BNA -20	8270E		04/30/25	05/01/25	