

Hit Summary Sheet SW-846

SDG No.: Q1488
Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : ENV-101-SB01								
Q1488-01	ENV-101-SB01	SOIL	Benzophenone	*	200.000	J 0	0	ug/Kg
Q1488-01	ENV-101-SB01	SOIL	Butane, 2-methoxy-2-methyl-	*	1,400.000	JB 0	0	ug/Kg
Q1488-01	ENV-101-SB01	SOIL	n-Hexadecanoic acid	*	350.000	J 0	0	ug/Kg
Q1488-01	ENV-101-SB01	SOIL	Octadecanoic acid	*	110.000	J 0	0	ug/Kg
Q1488-01	ENV-101-SB01	SOIL	1-Heneicosanol	*	300.000	J 0	0	ug/Kg
Total Tics :				2,360.00				
Total Concentration:				2,360.00				
Client ID : ENV-101-SB02								
Q1488-03	ENV-101-SB02	SOIL	1-Heneicosanol	*	170.000	J 0	0	ug/Kg
Q1488-03	ENV-101-SB02	SOIL	Benzophenone	*	140.000	J 0	0	ug/Kg
Q1488-03	ENV-101-SB02	SOIL	Butane, 2-methoxy-2-methyl-	*	1,200.000	JB 0	0	ug/Kg
Q1488-03	ENV-101-SB02	SOIL	n-Hexadecanoic acid	*	210.000	J 0	0	ug/Kg
Total Tics :				1,720.00				
Total Concentration:				1,720.00				
Client ID : ENV-102-SB01								
Q1488-05	ENV-102-SB01	SOIL	Benzophenone	*	160.000	J 0	0	ug/Kg
Q1488-05	ENV-102-SB01	SOIL	Butane, 2-methoxy-2-methyl-	*	1,000.000	JB 0	0	ug/Kg
Q1488-05	ENV-102-SB01	SOIL	Heptadecyl heptafluorobutyrate	*	130.000	J 0	0	ug/Kg
Q1488-05	ENV-102-SB01	SOIL	n-Hexadecanoic acid	*	170.000	J 0	0	ug/Kg
Total Tics :				1,460.00				
Total Concentration:				1,460.00				
Client ID : ENV-102-SB02								
Q1488-07	ENV-102-SB02	SOIL	1-Docosanol, acetate	*	93.500	J 0	0	ug/Kg
Q1488-07	ENV-102-SB02	SOIL	1-Heneicosanol	*	320.000	J 0	0	ug/Kg
Q1488-07	ENV-102-SB02	SOIL	Benzophenone	*	210.000	J 0	0	ug/Kg
Q1488-07	ENV-102-SB02	SOIL	Butane, 2-methoxy-2-methyl-	*	1,000.000	JB 0	0	ug/Kg
Q1488-07	ENV-102-SB02	SOIL	n-Hexadecanoic acid	*	870.000	J 0	0	ug/Kg
Q1488-07	ENV-102-SB02	SOIL	Octadecanoic acid	*	380.000	J 0	0	ug/Kg
Total Tics :				2,873.50				
Total Concentration:				2,873.50				
Client ID : ENV-104-SB01								
Q1488-09	ENV-104-SB01	SOIL	Fluoranthene		120.000	J 98.8	210	ug/Kg
Q1488-09	ENV-104-SB01	SOIL	Chrysene		98.100	J 96.2	210	ug/Kg
Q1488-09	ENV-104-SB01	SOIL	Benzo(b)fluoranthene		130.000	J 98.1	210	ug/Kg
Total Svoc :				348.10				
Q1488-09	ENV-104-SB01	SOIL	Isoquinoline	*	97.200	J 0	0	ug/Kg

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Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1488-09	ENV-104-SB01	SOIL	n-Hexadecanoic acid	*	310.000	J 0	0	ug/Kg
Q1488-09	ENV-104-SB01	SOIL	Pentadecafluorooctanoic acid, oct:	*	130.000	J 0	0	ug/Kg
Q1488-09	ENV-104-SB01	SOIL	Benzo[e]pyrene	*	80.600	J 0	0	ug/Kg
Q1488-09	ENV-104-SB01	SOIL	Benzophenone	*	200.000	J 0	0	ug/Kg
Q1488-09	ENV-104-SB01	SOIL	Butane, 2-methoxy-2-methyl-	*	1,300.000	JB 0	0	ug/Kg
Total Tics :					2,117.80			
Total Concentration:					2,465.90			

Client ID : ENV-104-SB02

Q1488-11	ENV-104-SB02	SOIL	9,12-Octadecadienoic acid (Z,Z)-,	*	96.300	J 0	0	ug/Kg
Q1488-11	ENV-104-SB02	SOIL	Benzophenone	*	180.000	J 0	0	ug/Kg
Q1488-11	ENV-104-SB02	SOIL	Butane, 2-methoxy-2-methyl-	*	1,100.000	JB 0	0	ug/Kg
Q1488-11	ENV-104-SB02	SOIL	n-Hexadecanoic acid	*	330.000	J 0	0	ug/Kg
Q1488-11	ENV-104-SB02	SOIL	Octacosanol	*	110.000	J 0	0	ug/Kg
Total Tics :					1,816.30			
Total Concentration:					1,816.30			

Client ID : ENV-102-GW01

Q1488-13	ENV-102-GW01	WATER	Caprolactam		19.300	2.4	14.3	ug/L
Total Svoc :					19.30			
Q1488-13	ENV-102-GW01	WATER	Cyclopentadecane	*	4.600	J 0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Hexanedioic acid, mono(2-ethylhe	*	7.500	J 0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Hexanoic acid, 2-ethyl-	*	5.800	J 0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Methanone, (1-hydroxycyclohexy	*	3.300	J 0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	n-Hexadecanoic acid	*	15.900	J 0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Nonanoic acid	*	5.800	J 0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Octadecanoic acid	*	4.500	J 0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Octanoic acid	*	3.000	J 0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Supraene	*	3.200	J 0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	1-Hexanol, 2-ethyl-	*	14.100	J 0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	2,2,4-Trimethyl-1,3-pentanediol d	*	4.100	J 0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	5.300	A 0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Adipic acid, 2-decyl isobutyl ester	*	74.100	J 0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Benzophenone	*	16.000	J 0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Butane, 2-methoxy-2-methyl-	*	140.000	J 0	0	ug/L
Q1488-13	ENV-102-GW01	WATER	Butyl citrate	*	3.800	J 0	0	ug/L
Total Tics :					311.00			
Total Concentration:					330.30			

Client ID : ENV-104-GW01

Q1488-14	ENV-104-GW01	WATER	Caprolactam		58.600	2.9	17.5	ug/L
Total Svoc :					58.60			

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Client: Portal Partners Tri-Venture

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Q1488-14	ENV-104-GW01	WATER	Benzophenone	*	15.500	J 0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Butane, 2-methoxy-2-methyl-	*	200.000	J 0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Butyl citrate	*	5.000	J 0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Ethanol, 2-butoxy-	*	8.500	J 0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Hexanoic acid, 2-ethyl-	*	4.600	J 0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Methanone, (1-hydroxycyclohexy	*	4.100	J 0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	n-Hexadecanoic acid	*	17.600	J 0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Octadecanoic acid	*	4.800	J 0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Supraene	*	5.100	J 0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	1-Heneicosanol	*	5.100	J 0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	1-Hexanol, 2-ethyl-	*	6.600	J 0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	2,2,4-Trimethyl-1,3-pentandiol d	*	5.400	J 0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	14.100	A 0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	2-Propanol, 1-(2-ethoxypropoxy)-	*	30.600	J 0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	2-Propanol, 1-(2-methoxy-1-meth	*	34.400	J 0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	2-Propanol, 1-(2-methoxypropoxy	*	48.800	J 0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Adipic acid, butyl non-5-yn-3-yl e	*	73.800	J 0	0	ug/L
Q1488-14	ENV-104-GW01	WATER	Benzoic acid	*	15.800	J 9.6	17.5	ug/L
Total Tics :					499.80			
Total Concentration:					558.40			



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
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
BF141865.D	1	03/05/25 09:40	03/06/25 13:31	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	U	210	370	ug/Kg
108-95-2	Phenol	93.5	U	93.5	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	94.4	U	94.4	190	ug/Kg
95-57-8	2-Chlorophenol	94.1	U	94.1	190	ug/Kg
95-48-7	2-Methylphenol	90.9	U	90.9	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	UQ	100	190	ug/Kg
98-86-2	Acetophenone	98.0	U	98.0	190	ug/Kg
65794-96-9	3+4-Methylphenols	90.0	U	90.0	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	45.4	U	45.4	90.2	ug/Kg
67-72-1	Hexachloroethane	93.6	U	93.6	190	ug/Kg
98-95-3	Nitrobenzene	100	U	100	190	ug/Kg
78-59-1	Isophorone	95.4	U	95.4	190	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	96.7	U	96.7	190	ug/Kg
120-83-2	2,4-Dichlorophenol	85.1	U	85.1	190	ug/Kg
91-20-3	Naphthalene	93.1	U	93.1	190	ug/Kg
106-47-8	4-Chloroaniline	93.1	UQ	93.1	190	ug/Kg
87-68-3	Hexachlorobutadiene	93.9	U	93.9	190	ug/Kg
105-60-2	Caprolactam	97.9	U	97.9	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	87.4	U	87.4	190	ug/Kg
91-57-6	2-Methylnaphthalene	93.0	U	93.0	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	180	U	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	80.5	U	80.5	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	83.4	U	83.4	190	ug/Kg
92-52-4	1,1-Biphenyl	98.5	U	98.5	190	ug/Kg
91-58-7	2-Chloronaphthalene	93.9	U	93.9	190	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	190	ug/Kg
131-11-3	Dimethylphthalate	92.1	U	92.1	190	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
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
BF141865.D	1	03/05/25 09:40	03/06/25 13:31	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	97.5	U	97.5	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	93.8	U	93.8	190	ug/Kg
99-09-2	3-Nitroaniline	100	UQ	100	190	ug/Kg
83-32-9	Acenaphthene	91.4	U	91.4	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	370	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	370	ug/Kg
132-64-9	Dibenzofuran	95.1	U	95.1	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	97.2	U	97.2	190	ug/Kg
84-66-2	Diethylphthalate	90.3	U	90.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	96.5	U	96.5	190	ug/Kg
86-73-7	Fluorene	96.4	U	96.4	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	92.0	U	92.0	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	88.9	U	88.9	190	ug/Kg
118-74-1	Hexachlorobenzene	95.8	U	95.8	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	87.1	U	87.1	370	ug/Kg
85-01-8	Phenanthrene	94.7	U	94.7	190	ug/Kg
120-12-7	Anthracene	95.1	U	95.1	190	ug/Kg
86-74-8	Carbazole	90.5	U	90.5	190	ug/Kg
84-74-2	Di-n-butylphthalate	95.0	U	95.0	190	ug/Kg
206-44-0	Fluoranthene	92.1	U	92.1	190	ug/Kg
129-00-0	Pyrene	93.6	U	93.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	370	ug/Kg
56-55-3	Benzo(a)anthracene	91.0	U	91.0	190	ug/Kg
218-01-9	Chrysene	89.6	U	89.6	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	91.4	U	91.4	190	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
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
BF141865.D	1	03/05/25 09:40	03/06/25 13:31	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	93.1	U	93.1	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	88.0	U	88.0	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	91.5	U	91.5	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	90.3	U	90.3	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	97.9	U	97.9	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	84.2	U	84.2	190	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	102		30 (18) - 130 (112)	68%	SPK: 150
13127-88-3	Phenol-d6	98.1		30 (15) - 130 (107)	65%	SPK: 150
4165-60-0	Nitrobenzene-d5	83.7		30 (18) - 130 (107)	84%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.4		30 (20) - 130 (109)	70%	SPK: 100
118-79-6	2,4,6-Tribromophenol	125		30 (10) - 130 (116)	84%	SPK: 150
1718-51-0	Terphenyl-d14	59.6		30 (10) - 130 (105)	60%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	158000	6.886
1146-65-2	Naphthalene-d8	615000	8.163
15067-26-2	Acenaphthene-d10	337000	9.916
1517-22-2	Phenanthrene-d10	606000	11.404
1719-03-5	Chrysene-d12	545000	14.039
1520-96-3	Perylene-d12	451000	15.509

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	1400	JB	2.17	ug/Kg
000119-61-9	Benzophenone	200	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	350	J	11.9	ug/Kg
000057-11-4	Octadecanoic acid	110	J	12.7	ug/Kg
015594-90-8	1-Heneicosanol	300	J	13.9	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
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
BF141865.D	1	03/05/25 09:40	03/06/25 13:31	PB166984

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.6
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141847.D	1	03/05/25 09:40	03/05/25 16:50	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	360	ug/Kg
108-95-2	Phenol	91.4	U	91.4	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	92.3	U	92.3	190	ug/Kg
95-57-8	2-Chlorophenol	92.1	U	92.1	190	ug/Kg
95-48-7	2-Methylphenol	88.9	U	88.9	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	UQ	100	190	ug/Kg
98-86-2	Acetophenone	95.9	U	95.9	190	ug/Kg
65794-96-9	3+4-Methylphenols	88.0	U	88.0	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	44.5	U	44.5	88.2	ug/Kg
67-72-1	Hexachloroethane	91.6	U	91.6	190	ug/Kg
98-95-3	Nitrobenzene	100	U	100	190	ug/Kg
78-59-1	Isophorone	93.3	U	93.3	190	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	100	U	100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	94.6	U	94.6	190	ug/Kg
120-83-2	2,4-Dichlorophenol	83.3	U	83.3	190	ug/Kg
91-20-3	Naphthalene	91.1	U	91.1	190	ug/Kg
106-47-8	4-Chloroaniline	91.1	UQ	91.1	190	ug/Kg
87-68-3	Hexachlorobutadiene	91.9	U	91.9	190	ug/Kg
105-60-2	Caprolactam	95.7	U	95.7	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	85.5	U	85.5	190	ug/Kg
91-57-6	2-Methylnaphthalene	91.0	U	91.0	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170	U	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	78.8	U	78.8	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	81.6	U	81.6	190	ug/Kg
92-52-4	1,1-Biphenyl	96.4	U	96.4	190	ug/Kg
91-58-7	2-Chloronaphthalene	91.9	U	91.9	190	ug/Kg
88-74-4	2-Nitroaniline	100	U	100	190	ug/Kg
131-11-3	Dimethylphthalate	90.1	U	90.1	190	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.6
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141847.D	1	03/05/25 09:40	03/05/25 16:50	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	95.4	U	95.4	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	91.8	U	91.8	190	ug/Kg
99-09-2	3-Nitroaniline	98.4	UQ	98.4	190	ug/Kg
83-32-9	Acenaphthene	89.5	U	89.5	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	360	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	360	ug/Kg
132-64-9	Dibenzofuran	93.1	U	93.1	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	95.1	U	95.1	190	ug/Kg
84-66-2	Diethylphthalate	88.4	U	88.4	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	94.4	U	94.4	190	ug/Kg
86-73-7	Fluorene	94.3	U	94.3	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	90.0	U	90.0	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	87.0	U	87.0	190	ug/Kg
118-74-1	Hexachlorobenzene	93.8	U	93.8	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	85.3	U	85.3	360	ug/Kg
85-01-8	Phenanthrene	92.7	U	92.7	190	ug/Kg
120-12-7	Anthracene	93.1	U	93.1	190	ug/Kg
86-74-8	Carbazole	88.6	U	88.6	190	ug/Kg
84-74-2	Di-n-butylphthalate	93.0	U	93.0	190	ug/Kg
206-44-0	Fluoranthene	90.1	U	90.1	190	ug/Kg
129-00-0	Pyrene	91.6	U	91.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	360	ug/Kg
56-55-3	Benzo(a)anthracene	89.0	U	89.0	190	ug/Kg
218-01-9	Chrysene	87.7	U	87.7	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	89.5	U	89.5	190	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.6
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141847.D	1	03/05/25 09:40	03/05/25 16:50	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	91.1	U	91.1	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	86.1	U	86.1	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	89.6	U	89.6	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	88.4	U	88.4	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	95.7	U	95.7	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	82.4	U	82.4	190	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	99.4		30 (18) - 130 (112)	66%	SPK: 150
13127-88-3	Phenol-d6	94.6		30 (15) - 130 (107)	63%	SPK: 150
4165-60-0	Nitrobenzene-d5	81.2		30 (18) - 130 (107)	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.8		30 (20) - 130 (109)	70%	SPK: 100
118-79-6	2,4,6-Tribromophenol	96.2		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	181000	6.887
1146-65-2	Naphthalene-d8	686000	8.163
15067-26-2	Acenaphthene-d10	338000	9.916
1517-22-2	Phenanthrene-d10	508000	11.404
1719-03-5	Chrysene-d12	420000	14.033
1520-96-3	Perylene-d12	463000	15.509

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	1200	JB	2.17	ug/Kg
000119-61-9	Benzophenone	140	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	210	J	11.9	ug/Kg
015594-90-8	1-Heneicosanol	170	J	13.9	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-101-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.6
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141847.D	1	03/05/25 09:40	03/05/25 16:50	PB166984

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.7
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
BF141842.D	1	03/05/25 09:40	03/05/25 14:23	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	U	210	380	ug/Kg
108-95-2	Phenol	96.5	U	96.5	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	97.4	U	97.4	200	ug/Kg
95-57-8	2-Chlorophenol	97.2	U	97.2	200	ug/Kg
95-48-7	2-Methylphenol	93.8	U	93.8	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	UQ	110	200	ug/Kg
98-86-2	Acetophenone	100	U	100	200	ug/Kg
65794-96-9	3+4-Methylphenols	92.9	U	92.9	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	46.9	U	46.9	93.1	ug/Kg
67-72-1	Hexachloroethane	96.6	U	96.6	200	ug/Kg
98-95-3	Nitrobenzene	110	U	110	200	ug/Kg
78-59-1	Isophorone	98.5	U	98.5	200	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	99.9	U	99.9	200	ug/Kg
120-83-2	2,4-Dichlorophenol	87.9	U	87.9	200	ug/Kg
91-20-3	Naphthalene	96.1	U	96.1	200	ug/Kg
106-47-8	4-Chloroaniline	96.1	UQ	96.1	200	ug/Kg
87-68-3	Hexachlorobutadiene	96.9	U	96.9	200	ug/Kg
105-60-2	Caprolactam	100	U	100	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	90.2	U	90.2	200	ug/Kg
91-57-6	2-Methylnaphthalene	96.0	U	96.0	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	180	U	180	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	83.1	U	83.1	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	86.1	U	86.1	200	ug/Kg
92-52-4	1,1-Biphenyl	100	U	100	200	ug/Kg
91-58-7	2-Chloronaphthalene	96.9	U	96.9	200	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	200	ug/Kg
131-11-3	Dimethylphthalate	95.1	U	95.1	200	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.7
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
BF141842.D	1	03/05/25 09:40	03/05/25 14:23	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	100	U	100	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	96.8	U	96.8	200	ug/Kg
99-09-2	3-Nitroaniline	100	UQ	100	200	ug/Kg
83-32-9	Acenaphthene	94.4	U	94.4	200	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	380	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	380	ug/Kg
132-64-9	Dibenzofuran	98.2	U	98.2	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	100	U	100	200	ug/Kg
84-66-2	Diethylphthalate	93.2	U	93.2	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	99.6	U	99.6	200	ug/Kg
86-73-7	Fluorene	99.5	U	99.5	200	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	U	140	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	95.0	U	95.0	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	91.8	U	91.8	200	ug/Kg
118-74-1	Hexachlorobenzene	98.9	U	98.9	200	ug/Kg
1912-24-9	Atrazine	110	U	110	200	ug/Kg
87-86-5	Pentachlorophenol	90.0	U	90.0	380	ug/Kg
85-01-8	Phenanthrene	97.8	U	97.8	200	ug/Kg
120-12-7	Anthracene	98.2	U	98.2	200	ug/Kg
86-74-8	Carbazole	93.4	U	93.4	200	ug/Kg
84-74-2	Di-n-butylphthalate	98.1	U	98.1	200	ug/Kg
206-44-0	Fluoranthene	95.1	U	95.1	200	ug/Kg
129-00-0	Pyrene	96.6	U	96.6	200	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	380	ug/Kg
56-55-3	Benzo(a)anthracene	93.9	U	93.9	200	ug/Kg
218-01-9	Chrysene	92.5	U	92.5	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	200	ug/Kg
117-84-0	Di-n-octyl phthalate	130	U	130	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	94.4	U	94.4	200	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.7
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
BF141842.D	1	03/05/25 09:40	03/05/25 14:23	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	96.1	U	96.1	200	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	90.9	U	90.9	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	94.5	U	94.5	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	93.2	U	93.2	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	100	U	100	200	ug/Kg
123-91-1	1,4-Dioxane	130	U	130	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	86.9	U	86.9	200	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	87.9		30 (18) - 130 (112)	59%	SPK: 150
13127-88-3	Phenol-d6	84.2		30 (15) - 130 (107)	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	72.7		30 (18) - 130 (107)	73%	SPK: 100
321-60-8	2-Fluorobiphenyl	64.2		30 (20) - 130 (109)	64%	SPK: 100
118-79-6	2,4,6-Tribromophenol	86.1		30 (10) - 130 (116)	57%	SPK: 150
1718-51-0	Terphenyl-d14	48.0		30 (10) - 130 (105)	48%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	199000	6.886
1146-65-2	Naphthalene-d8	748000	8.163
15067-26-2	Acenaphthene-d10	374000	9.916
1517-22-2	Phenanthrene-d10	582000	11.404
1719-03-5	Chrysene-d12	429000	14.039
1520-96-3	Perylene-d12	510000	15.509

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	1000	JB	2.16	ug/Kg
000119-61-9	Benzophenone	160	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	170	J	11.9	ug/Kg
959085-66-6	Heptadecyl heptafluorobutyrate	130	J	13.9	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.7
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
BF141842.D	1	03/05/25 09:40	03/05/25 14:23	PB166984

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.1
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141864.D	1	03/05/25 09:40	03/06/25 13:01	PB166984

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.1
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141864.D	1	03/05/25 09:40	03/06/25 13:01	PB166984

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.1
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141864.D	1	03/05/25 09:40	03/06/25 13:01	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	100	U	100	210	ug/Kg
50-32-8	Benzo(a)pyrene	120	U	120	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	97.3	U	97.3	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	100	U	100	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	99.8	U	99.8	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	210	ug/Kg
123-91-1	1,4-Dioxane	140	U	140	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	93.1	U	93.1	210	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	91.7		30 (18) - 130 (112)	61%	SPK: 150
13127-88-3	Phenol-d6	90.5		30 (15) - 130 (107)	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	77.1		30 (18) - 130 (107)	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.3		30 (20) - 130 (109)	68%	SPK: 100
118-79-6	2,4,6-Tribromophenol	118		30 (10) - 130 (116)	78%	SPK: 150
1718-51-0	Terphenyl-d14	58.4		30 (10) - 130 (105)	58%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	163000	6.887
1146-65-2	Naphthalene-d8	640000	8.163
15067-26-2	Acenaphthene-d10	350000	9.916
1517-22-2	Phenanthrene-d10	622000	11.404
1719-03-5	Chrysene-d12	548000	14.039
1520-96-3	Perylene-d12	480000	15.509

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	1000	JB	2.16	ug/Kg
000119-61-9	Benzophenone	210	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	870	J	11.9	ug/Kg
000057-11-4	Octadecanoic acid	380	J	12.7	ug/Kg
015594-90-8	1-Heneicosanol	320	J	13.9	ug/Kg
000822-26-4	1-Docosanol, acetate	93.5	J	16.1	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.1
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141864.D	1	03/05/25 09:40	03/06/25 13:01	PB166984

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-09	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
BF141843.D	1	03/05/25 09:40	03/05/25 14:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	220	U	220	400	ug/Kg
108-95-2	Phenol	100	U	100	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	100	U	100	210	ug/Kg
95-57-8	2-Chlorophenol	100	U	100	210	ug/Kg
95-48-7	2-Methylphenol	97.5	U	97.5	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	UQ	110	210	ug/Kg
98-86-2	Acetophenone	110	U	110	210	ug/Kg
65794-96-9	3+4-Methylphenols	96.5	U	96.5	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	48.7	U	48.7	96.8	ug/Kg
67-72-1	Hexachloroethane	100	U	100	210	ug/Kg
98-95-3	Nitrobenzene	110	U	110	210	ug/Kg
78-59-1	Isophorone	100	U	100	210	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	210	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	100	U	100	210	ug/Kg
120-83-2	2,4-Dichlorophenol	91.3	U	91.3	210	ug/Kg
91-20-3	Naphthalene	99.9	U	99.9	210	ug/Kg
106-47-8	4-Chloroaniline	99.9	UQ	99.9	210	ug/Kg
87-68-3	Hexachlorobutadiene	100	U	100	210	ug/Kg
105-60-2	Caprolactam	100	U	100	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	93.7	U	93.7	210	ug/Kg
91-57-6	2-Methylnaphthalene	99.8	U	99.8	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	190	U	190	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	86.4	U	86.4	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	89.5	U	89.5	210	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	100	U	100	210	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	210	ug/Kg
131-11-3	Dimethylphthalate	98.8	U	98.8	210	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-09	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
BF141843.D	1	03/05/25 09:40	03/05/25 14:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	100	U	100	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	100	U	100	210	ug/Kg
99-09-2	3-Nitroaniline	110	UQ	110	210	ug/Kg
83-32-9	Acenaphthene	98.1	U	98.1	210	ug/Kg
51-28-5	2,4-Dinitrophenol	290	U	290	400	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	400	ug/Kg
132-64-9	Dibenzofuran	100	U	100	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	100	U	100	210	ug/Kg
84-66-2	Diethylphthalate	96.9	U	96.9	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	100	U	100	210	ug/Kg
86-73-7	Fluorene	100	U	100	210	ug/Kg
100-01-6	4-Nitroaniline	130	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	U	140	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	98.7	U	98.7	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	95.4	U	95.4	210	ug/Kg
118-74-1	Hexachlorobenzene	100	U	100	210	ug/Kg
1912-24-9	Atrazine	110	U	110	210	ug/Kg
87-86-5	Pentachlorophenol	93.5	U	93.5	400	ug/Kg
85-01-8	Phenanthrene	100	U	100	210	ug/Kg
120-12-7	Anthracene	100	U	100	210	ug/Kg
86-74-8	Carbazole	97.1	U	97.1	210	ug/Kg
84-74-2	Di-n-butylphthalate	100	U	100	210	ug/Kg
206-44-0	Fluoranthene	120	J	98.8	210	ug/Kg
129-00-0	Pyrene	100	U	100	210	ug/Kg
85-68-7	Butylbenzylphthalate	120	U	120	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	120	UQ	120	400	ug/Kg
56-55-3	Benzo(a)anthracene	97.6	U	97.6	210	ug/Kg
218-01-9	Chrysene	98.1	J	96.2	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	210	ug/Kg
117-84-0	Di-n-octyl phthalate	130	U	130	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	130	J	98.1	210	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-09	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
BF141843.D	1	03/05/25 09:40	03/05/25 14:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	99.9	U	99.9	210	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	94.5	U	94.5	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	98.2	U	98.2	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	96.9	U	96.9	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	100	U	100	210	ug/Kg
123-91-1	1,4-Dioxane	130	U	130	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	90.3	U	90.3	210	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	86.9		30 (18) - 130 (112)	58%	SPK: 150
13127-88-3	Phenol-d6	83.5		30 (15) - 130 (107)	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	72.1		30 (18) - 130 (107)	72%	SPK: 100
321-60-8	2-Fluorobiphenyl	55.5		30 (20) - 130 (109)	56%	SPK: 100
118-79-6	2,4,6-Tribromophenol	81.7		30 (10) - 130 (116)	54%	SPK: 150
1718-51-0	Terphenyl-d14	36.3		30 (10) - 130 (105)	36%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	193000	6.887
1146-65-2	Naphthalene-d8	726000	8.163
15067-26-2	Acenaphthene-d10	362000	9.916
1517-22-2	Phenanthrene-d10	552000	11.404
1719-03-5	Chrysene-d12	436000	14.033
1520-96-3	Perylene-d12	488000	15.51

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	1300	JB	2.17	ug/Kg
000119-61-9	Benzophenone	200	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	310	J	11.9	ug/Kg
000119-65-3	Isoquinoline	97.2	J	12.1	ug/Kg
1000406-04-8	Pentadecafluorooctanoic acid, octa	130	J	13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	80.6	J	15.4	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB01	SDG No.:	Q1488
Lab Sample ID:	Q1488-09	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
BF141843.D	1	03/05/25 09:40	03/05/25 14:52	PB166984

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81.1
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
BF141841.D	1	03/05/25 09:40	03/05/25 13:53	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	220	U	220	410	ug/Kg
108-95-2	Phenol	100	U	100	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	100	U	100	210	ug/Kg
95-57-8	2-Chlorophenol	100	U	100	210	ug/Kg
95-48-7	2-Methylphenol	99.1	U	99.1	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	UQ	110	210	ug/Kg
98-86-2	Acetophenone	110	U	110	210	ug/Kg
65794-96-9	3+4-Methylphenols	98.1	U	98.1	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	49.6	U	49.6	98.4	ug/Kg
67-72-1	Hexachloroethane	100	U	100	210	ug/Kg
98-95-3	Nitrobenzene	110	U	110	210	ug/Kg
78-59-1	Isophorone	100	U	100	210	ug/Kg
88-75-5	2-Nitrophenol	120	U	120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	110	U	110	210	ug/Kg
120-83-2	2,4-Dichlorophenol	92.8	U	92.8	210	ug/Kg
91-20-3	Naphthalene	100	U	100	210	ug/Kg
106-47-8	4-Chloroaniline	100	UQ	100	210	ug/Kg
87-68-3	Hexachlorobutadiene	100	U	100	210	ug/Kg
105-60-2	Caprolactam	110	U	110	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	95.3	U	95.3	210	ug/Kg
91-57-6	2-Methylnaphthalene	100	U	100	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	190	U	190	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	87.8	U	87.8	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	91.0	U	91.0	210	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	100	U	100	210	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	210	ug/Kg
131-11-3	Dimethylphthalate	100	U	100	210	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81.1
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
BF141841.D	1	03/05/25 09:40	03/05/25 13:53	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	110	U	110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	100	U	100	210	ug/Kg
99-09-2	3-Nitroaniline	110	UQ	110	210	ug/Kg
83-32-9	Acenaphthene	99.7	U	99.7	210	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	300	410	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	410	ug/Kg
132-64-9	Dibenzofuran	100	U	100	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	110	U	110	210	ug/Kg
84-66-2	Diethylphthalate	98.5	U	98.5	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	210	ug/Kg
86-73-7	Fluorene	110	U	110	210	ug/Kg
100-01-6	4-Nitroaniline	130	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	U	140	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	100	U	100	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	97.0	U	97.0	210	ug/Kg
118-74-1	Hexachlorobenzene	100	U	100	210	ug/Kg
1912-24-9	Atrazine	110	U	110	210	ug/Kg
87-86-5	Pentachlorophenol	95.1	U	95.1	410	ug/Kg
85-01-8	Phenanthrene	100	U	100	210	ug/Kg
120-12-7	Anthracene	100	U	100	210	ug/Kg
86-74-8	Carbazole	98.8	U	98.8	210	ug/Kg
84-74-2	Di-n-butylphthalate	100	U	100	210	ug/Kg
206-44-0	Fluoranthene	100	U	100	210	ug/Kg
129-00-0	Pyrene	100	U	100	210	ug/Kg
85-68-7	Butylbenzylphthalate	120	U	120	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	120	UQ	120	410	ug/Kg
56-55-3	Benzo(a)anthracene	99.2	U	99.2	210	ug/Kg
218-01-9	Chrysene	97.8	U	97.8	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	210	ug/Kg
117-84-0	Di-n-octyl phthalate	140	U	140	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	99.7	U	99.7	210	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81.1
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
BF141841.D	1	03/05/25 09:40	03/05/25 13:53	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	100	U	100	210	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	96.0	U	96.0	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	99.9	U	99.9	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	98.5	U	98.5	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	210	ug/Kg
123-91-1	1,4-Dioxane	140	U	140	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	91.9	U	91.9	210	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	87.0		30 (18) - 130 (112)	58%	SPK: 150
13127-88-3	Phenol-d6	84.3		30 (15) - 130 (107)	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	71.4		30 (18) - 130 (107)	71%	SPK: 100
321-60-8	2-Fluorobiphenyl	59.1		30 (20) - 130 (109)	59%	SPK: 100
118-79-6	2,4,6-Tribromophenol	92.0		30 (10) - 130 (116)	61%	SPK: 150
1718-51-0	Terphenyl-d14	40.9		30 (10) - 130 (105)	41%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	200000	6.886
1146-65-2	Naphthalene-d8	760000	8.163
15067-26-2	Acenaphthene-d10	390000	9.916
1517-22-2	Phenanthrene-d10	615000	11.404
1719-03-5	Chrysene-d12	463000	14.039
1520-96-3	Perylene-d12	513000	15.509

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	1100	JB	2.17	ug/Kg
000119-61-9	Benzophenone	180	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	330	J	11.9	ug/Kg
000112-63-0	9,12-Octadecadienoic acid (Z,Z)-,	96.3	J	12.5	ug/Kg
000557-61-9	Octacosanol	110	J	13.9	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-SB02	SDG No.:	Q1488
Lab Sample ID:	Q1488-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81.1
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
BF141841.D	1	03/05/25 09:40	03/05/25 13:53	PB166984

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-13	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	700 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
BF141871.D	1	03/05/25 08:35	03/06/25 16:29	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	5.70	U	5.70	14.3	ug/L
108-95-2	Phenol	1.30	U	1.30	7.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.70	U	1.70	7.10	ug/L
95-57-8	2-Chlorophenol	1.00	U	1.00	7.10	ug/L
95-48-7	2-Methylphenol	1.60	U	1.60	7.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.90	U	1.90	7.10	ug/L
98-86-2	Acetophenone	1.60	U	1.60	7.10	ug/L
65794-96-9	3+4-Methylphenols	1.60	U	1.60	14.3	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.10	U	2.10	3.60	ug/L
67-72-1	Hexachloroethane	1.40	U	1.40	7.10	ug/L
98-95-3	Nitrobenzene	1.80	U	1.80	7.10	ug/L
78-59-1	Isophorone	1.60	U	1.60	7.10	ug/L
88-75-5	2-Nitrophenol	2.80	U	2.80	7.10	ug/L
105-67-9	2,4-Dimethylphenol	2.20	U	2.20	7.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.50	U	1.50	7.10	ug/L
120-83-2	2,4-Dichlorophenol	1.30	U	1.30	7.10	ug/L
91-20-3	Naphthalene	1.50	U	1.50	7.10	ug/L
106-47-8	4-Chloroaniline	1.90	UQ	1.90	7.10	ug/L
87-68-3	Hexachlorobutadiene	1.80	U	1.80	7.10	ug/L
105-60-2	Caprolactam	19.3		2.40	14.3	ug/L
59-50-7	4-Chloro-3-methylphenol	1.20	U	1.20	7.10	ug/L
91-57-6	2-Methylnaphthalene	1.60	U	1.60	7.10	ug/L
77-47-4	Hexachlorocyclopentadiene	7.20	U	7.20	14.3	ug/L
88-06-2	2,4,6-Trichlorophenol	1.30	U	1.30	7.10	ug/L
95-95-4	2,4,5-Trichlorophenol	1.40	U	1.40	7.10	ug/L
92-52-4	1,1-Biphenyl	1.30	U	1.30	7.10	ug/L
91-58-7	2-Chloronaphthalene	1.40	U	1.40	7.10	ug/L
88-74-4	2-Nitroaniline	2.00	U	2.00	7.10	ug/L
131-11-3	Dimethylphthalate	1.30	U	1.30	7.10	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-13	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	700 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
BF141871.D	1	03/05/25 08:35	03/06/25 16:29	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.50	U	1.50	7.10	ug/L
606-20-2	2,6-Dinitrotoluene	1.80	U	1.80	7.10	ug/L
99-09-2	3-Nitroaniline	2.00	UQ	2.00	7.10	ug/L
83-32-9	Acenaphthene	1.20	U	1.20	7.10	ug/L
51-28-5	2,4-Dinitrophenol	9.20	U	9.20	14.3	ug/L
100-02-7	4-Nitrophenol	2.90	U	2.90	14.3	ug/L
132-64-9	Dibenzofuran	1.30	U	1.30	7.10	ug/L
121-14-2	2,4-Dinitrotoluene	2.20	U	2.20	7.10	ug/L
84-66-2	Diethylphthalate	1.50	U	1.50	7.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.40	U	1.40	7.10	ug/L
86-73-7	Fluorene	1.40	U	1.40	7.10	ug/L
100-01-6	4-Nitroaniline	2.90	U	2.90	7.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	4.40	U	4.40	14.3	ug/L
86-30-6	n-Nitrosodiphenylamine	1.30	U	1.30	7.10	ug/L
101-55-3	4-Bromophenyl-phenylether	1.40	U	1.40	7.10	ug/L
118-74-1	Hexachlorobenzene	1.60	U	1.60	7.10	ug/L
1912-24-9	Atrazine	1.80	U	1.80	7.10	ug/L
87-86-5	Pentachlorophenol	2.60	U	2.60	14.3	ug/L
85-01-8	Phenanthrene	1.30	U	1.30	7.10	ug/L
120-12-7	Anthracene	1.50	U	1.50	7.10	ug/L
86-74-8	Carbazole	1.60	U	1.60	7.10	ug/L
84-74-2	Di-n-butylphthalate	2.10	U	2.10	7.10	ug/L
206-44-0	Fluoranthene	1.80	U	1.80	7.10	ug/L
129-00-0	Pyrene	1.50	U	1.50	7.10	ug/L
85-68-7	Butylbenzylphthalate	3.00	U	3.00	7.10	ug/L
91-94-1	3,3-Dichlorobenzidine	1.80	UQ	1.80	14.3	ug/L
56-55-3	Benzo(a)anthracene	1.30	U	1.30	7.10	ug/L
218-01-9	Chrysene	1.20	U	1.20	7.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	2.70	U	2.70	7.10	ug/L
117-84-0	Di-n-octyl phthalate	3.60	U	3.60	14.3	ug/L
205-99-2	Benzo(b)fluoranthene	1.60	U	1.60	7.10	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-13	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	700 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
BF141871.D	1	03/05/25 08:35	03/06/25 16:29	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.70	U	1.70	7.10	ug/L
50-32-8	Benzo(a)pyrene	2.40	U	2.40	7.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.50	U	1.50	7.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.60	U	1.60	7.10	ug/L
191-24-2	Benzo(g,h,i)perylene	1.70	U	1.70	7.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.60	U	1.60	7.10	ug/L
123-91-1	1,4-Dioxane	1.80	U	1.80	7.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	1.10	U	1.10	7.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	82.7		15 (10) - 110 (139)	55%	SPK: 150
13127-88-3	Phenol-d6	55.0		15 (10) - 110 (134)	37%	SPK: 150
4165-60-0	Nitrobenzene-d5	112		30 (49) - 130 (133)	112%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.5		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	174	*	15 (44) - 110 (137)	116%	SPK: 150
1718-51-0	Terphenyl-d14	87.7		30 (48) - 130 (125)	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	158000	6.887			
1146-65-2	Naphthalene-d8	632000	8.163			
15067-26-2	Acenaphthene-d10	343000	9.916			
1517-22-2	Phenanthrene-d10	586000	11.404			
1719-03-5	Chrysene-d12	449000	14.039			
1520-96-3	Perylene-d12	461000	15.51			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	140	J		2.16	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	5.30	A		5.10	ug/L
000104-76-7	1-Hexanol, 2-ethyl-	14.1	J		6.94	ug/L
000149-57-5	Hexanoic acid, 2-ethyl-	5.80	J		7.53	ug/L
000124-07-2	Octanoic acid	3.00	J		7.88	ug/L
000112-05-0	Nonanoic acid	5.80	J		8.50	ug/L
006846-50-0	2,2,4-Trimethyl-1,3-pentanediol di	4.10	J		10.3	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-102-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-13	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	700 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
BF141871.D	1	03/05/25 08:35	03/06/25 16:29	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000119-61-9	Benzophenone	16.0	J		10.6	ug/L
000947-19-3	Methanone, (1-hydroxycyclohexyl)ph	3.30	J		10.9	ug/L
004337-65-9	Hexanedioic acid, mono(2-ethylhexy	7.50	J		11.5	ug/L
000057-10-3	n-Hexadecanoic acid	15.9	J		11.9	ug/L
000077-94-1	Butyl citrate	3.80	J		12.6	ug/L
000057-11-4	Octadecanoic acid	4.50	J		12.7	ug/L
1000353-59-6	Adipic acid, 2-decyl isobutyl ester	74.1	J		12.8	ug/L
000295-48-7	Cyclopentadecane	4.60	J		13.9	ug/L
007683-64-9	Supraene	3.20	J		14.9	ug/L

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-14	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	570 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
BF141870.D	1	03/05/25 08:35	03/06/25 16:00	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	7.00	U	7.00	17.5	ug/L
108-95-2	Phenol	1.60	U	1.60	8.80	ug/L
111-44-4	bis(2-Chloroethyl)ether	2.10	U	2.10	8.80	ug/L
95-57-8	2-Chlorophenol	1.20	U	1.20	8.80	ug/L
95-48-7	2-Methylphenol	2.00	U	2.00	8.80	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	2.40	U	2.40	8.80	ug/L
98-86-2	Acetophenone	1.90	U	1.90	8.80	ug/L
65794-96-9	3+4-Methylphenols	2.00	U	2.00	17.5	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.60	U	2.60	4.40	ug/L
67-72-1	Hexachloroethane	1.80	U	1.80	8.80	ug/L
98-95-3	Nitrobenzene	2.20	U	2.20	8.80	ug/L
78-59-1	Isophorone	2.00	U	2.00	8.80	ug/L
88-75-5	2-Nitrophenol	3.40	U	3.40	8.80	ug/L
105-67-9	2,4-Dimethylphenol	2.60	U	2.60	8.80	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.80	U	1.80	8.80	ug/L
120-83-2	2,4-Dichlorophenol	1.50	U	1.50	8.80	ug/L
91-20-3	Naphthalene	1.80	U	1.80	8.80	ug/L
106-47-8	4-Chloroaniline	2.30	UQ	2.30	8.80	ug/L
87-68-3	Hexachlorobutadiene	2.20	U	2.20	8.80	ug/L
105-60-2	Caprolactam	58.6		2.90	17.5	ug/L
59-50-7	4-Chloro-3-methylphenol	1.50	U	1.50	8.80	ug/L
91-57-6	2-Methylnaphthalene	2.00	U	2.00	8.80	ug/L
77-47-4	Hexachlorocyclopentadiene	8.80	U	8.80	17.5	ug/L
88-06-2	2,4,6-Trichlorophenol	1.60	U	1.60	8.80	ug/L
95-95-4	2,4,5-Trichlorophenol	1.80	U	1.80	8.80	ug/L
92-52-4	1,1-Biphenyl	1.60	U	1.60	8.80	ug/L
91-58-7	2-Chloronaphthalene	1.70	U	1.70	8.80	ug/L
88-74-4	2-Nitroaniline	2.50	U	2.50	8.80	ug/L
131-11-3	Dimethylphthalate	1.60	U	1.60	8.80	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-14	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	570 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
BF141870.D	1	03/05/25 08:35	03/06/25 16:00	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.80	U	1.80	8.80	ug/L
606-20-2	2,6-Dinitrotoluene	2.20	U	2.20	8.80	ug/L
99-09-2	3-Nitroaniline	2.40	UQ	2.40	8.80	ug/L
83-32-9	Acenaphthene	1.40	U	1.40	8.80	ug/L
51-28-5	2,4-Dinitrophenol	11.3	U	11.3	17.5	ug/L
100-02-7	4-Nitrophenol	3.50	U	3.50	17.5	ug/L
132-64-9	Dibenzofuran	1.60	U	1.60	8.80	ug/L
121-14-2	2,4-Dinitrotoluene	2.70	U	2.70	8.80	ug/L
84-66-2	Diethylphthalate	1.80	U	1.80	8.80	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.70	U	1.70	8.80	ug/L
86-73-7	Fluorene	1.70	U	1.70	8.80	ug/L
100-01-6	4-Nitroaniline	3.60	U	3.60	8.80	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	5.40	U	5.40	17.5	ug/L
86-30-6	n-Nitrosodiphenylamine	1.60	U	1.60	8.80	ug/L
101-55-3	4-Bromophenyl-phenylether	1.70	U	1.70	8.80	ug/L
118-74-1	Hexachlorobenzene	2.00	U	2.00	8.80	ug/L
1912-24-9	Atrazine	2.20	U	2.20	8.80	ug/L
87-86-5	Pentachlorophenol	3.20	U	3.20	17.5	ug/L
85-01-8	Phenanthrene	1.60	U	1.60	8.80	ug/L
120-12-7	Anthracene	1.90	U	1.90	8.80	ug/L
86-74-8	Carbazole	2.00	U	2.00	8.80	ug/L
84-74-2	Di-n-butylphthalate	2.60	U	2.60	8.80	ug/L
206-44-0	Fluoranthene	2.30	U	2.30	8.80	ug/L
129-00-0	Pyrene	1.90	U	1.90	8.80	ug/L
85-68-7	Butylbenzylphthalate	3.70	U	3.70	8.80	ug/L
91-94-1	3,3-Dichlorobenzidine	2.20	UQ	2.20	17.5	ug/L
56-55-3	Benzo(a)anthracene	1.60	U	1.60	8.80	ug/L
218-01-9	Chrysene	1.50	U	1.50	8.80	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	3.30	U	3.30	8.80	ug/L
117-84-0	Di-n-octyl phthalate	4.40	U	4.40	17.5	ug/L
205-99-2	Benzo(b)fluoranthene	2.00	U	2.00	8.80	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-14	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	570 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
BF141870.D	1	03/05/25 08:35	03/06/25 16:00	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	2.10	U	2.10	8.80	ug/L
50-32-8	Benzo(a)pyrene	2.90	U	2.90	8.80	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.80	U	1.80	8.80	ug/L
53-70-3	Dibenzo(a,h)anthracene	2.00	U	2.00	8.80	ug/L
191-24-2	Benzo(g,h,i)perylene	2.10	U	2.10	8.80	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.90	U	1.90	8.80	ug/L
123-91-1	1,4-Dioxane	2.20	U	2.20	8.80	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	1.40	U	1.40	8.80	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	105		15 (10) - 110 (139)	70%	SPK: 150
13127-88-3	Phenol-d6	72.9		15 (10) - 110 (134)	49%	SPK: 150
4165-60-0	Nitrobenzene-d5	134	*	30 (49) - 130 (133)	134%	SPK: 100
321-60-8	2-Fluorobiphenyl	114		30 (52) - 130 (132)	114%	SPK: 100
118-79-6	2,4,6-Tribromophenol	211	*	15 (44) - 110 (137)	140%	SPK: 150
1718-51-0	Terphenyl-d14	108		30 (48) - 130 (125)	108%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	140000	6.887			
1146-65-2	Naphthalene-d8	541000	8.163			
15067-26-2	Acenaphthene-d10	290000	9.916			
1517-22-2	Phenanthrene-d10	493000	11.404			
1719-03-5	Chrysene-d12	387000	14.039			
1520-96-3	Perylene-d12	390000	15.509			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	200	J		2.17	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	14.1	A		5.10	ug/L
000111-76-2	Ethanol, 2-butoxy-	8.50	J		5.83	ug/L
020324-32-7	2-Propanol, 1-(2-methoxy-1-methyle	34.4	J		6.69	ug/L
010143-32-5	2-Propanol, 1-(2-ethoxypropoxy)-	30.6	J		6.72	ug/L
013429-07-7	2-Propanol, 1-(2-methoxypropoxy)-	48.8	J		6.81	ug/L
000104-76-7	1-Hexanol, 2-ethyl-	6.60	J		6.94	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	ENV-104-GW01	SDG No.:	Q1488
Lab Sample ID:	Q1488-14	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	570 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
BF141870.D	1	03/05/25 08:35	03/06/25 16:00	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000149-57-5	Hexanoic acid, 2-ethyl-	4.60	J		7.52	ug/L
65-85-0	Benzoic acid	15.8	J		7.90	ug/L
006846-50-0	2,2,4-Trimethyl-1,3-pentanediol di	5.40	J		10.3	ug/L
000119-61-9	Benzophenone	15.5	J		10.6	ug/L
000947-19-3	Methanone, (1-hydroxycyclohexyl)ph	4.10	J		10.9	ug/L
000057-10-3	n-Hexadecanoic acid	17.6	J		11.9	ug/L
000077-94-1	Butyl citrate	5.00	J		12.6	ug/L
000057-11-4	Octadecanoic acid	4.80	J		12.7	ug/L
1000324-32-5	Adipic acid, butyl non-5-yn-3-yl ester	73.8	J		12.8	ug/L
015594-90-8	1-Heneicosanol	5.10	J		13.9	ug/L
007683-64-9	Supraene	5.10	J		14.9	ug/L

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB166982BL	PB166982BL	2-Fluorophenol	150	130	87		15 (10)	110 (139)
		Phenol-d6	150	123	82		15 (10)	110 (134)
		Nitrobenzene-d5	100	109	109		30 (49)	130 (133)
		2-Fluorobiphenyl	100	93.9	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	172	115	*	15 (44)	110 (137)
		Terphenyl-d14	100	87.1	87		30 (48)	130 (125)
PB166982BS	PB166982BS	2-Fluorophenol	150	131	87		15 (10)	110 (139)
		Phenol-d6	150	124	83		15 (10)	110 (134)
		Nitrobenzene-d5	100	109	109		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.7	95		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	177	118	*	15 (44)	110 (137)
		Terphenyl-d14	100	99.9	100		30 (48)	130 (125)
PB166982BSD	PB166982BSD	2-Fluorophenol	150	128	85		15 (10)	110 (139)
		Phenol-d6	150	122	81		15 (10)	110 (134)
		Nitrobenzene-d5	100	109	109		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.0	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	174	116	*	15 (44)	110 (137)
		Terphenyl-d14	100	95.1	95		30 (48)	130 (125)
Q1488-13	ENV-102-GW01	2-Fluorophenol	150	82.7	55		15 (10)	110 (139)
		Phenol-d6	150	55.0	37		15 (10)	110 (134)
		Nitrobenzene-d5	100	112	112		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.5	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	174	116	*	15 (44)	110 (137)
		Terphenyl-d14	100	87.7	88		30 (48)	130 (125)
Q1488-14	ENV-104-GW01	2-Fluorophenol	150	105	70		15 (10)	110 (139)
		Phenol-d6	150	72.9	49		15 (10)	110 (134)
		Nitrobenzene-d5	100	134	134	*	30 (49)	130 (133)
		2-Fluorobiphenyl	100	114	114		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	211	140	*	15 (44)	110 (137)
		Terphenyl-d14	100	108	108		30 (48)	130 (125)

Surrogate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB166984BL	PB166984BL	2-Fluorophenol	150	126	84		30 (18)	130 (112)
		Phenol-d6	150	119	79		30 (15)	130 (107)
		Nitrobenzene-d5	100	105	105		30 (18)	130 (107)
		2-Fluorobiphenyl	100	91.5	91		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	167	111		30 (10)	130 (116)
		Terphenyl-d14	100	82.5	83		30 (10)	130 (105)
PB166984BS	PB166984BS	2-Fluorophenol	150	122	81		30 (18)	130 (112)
		Phenol-d6	150	116	77		30 (15)	130 (107)
		Nitrobenzene-d5	100	105	105		30 (18)	130 (107)
		2-Fluorobiphenyl	100	91.3	91		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	166	110		30 (10)	130 (116)
		Terphenyl-d14	100	94.9	95		30 (10)	130 (105)
Q1487-01MS	DN-B-42MS	2-Fluorophenol	150	107	71		30 (18)	130 (112)
		Phenol-d6	150	102	68		30 (15)	130 (107)
		Nitrobenzene-d5	100	87.4	87		30 (18)	130 (107)
		2-Fluorobiphenyl	100	73.3	73		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	113	76		30 (10)	130 (116)
		Terphenyl-d14	100	55.5	56		30 (10)	130 (105)
Q1487-01MSD	DN-B-42MSD	2-Fluorophenol	150	109	72		30 (18)	130 (112)
		Phenol-d6	150	104	70		30 (15)	130 (107)
		Nitrobenzene-d5	100	89.9	90		30 (18)	130 (107)
		2-Fluorobiphenyl	100	75.0	75		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	117	78		30 (10)	130 (116)
		Terphenyl-d14	100	56.9	57		30 (10)	130 (105)
Q1488-01	ENV-101-SB01	2-Fluorophenol	150	102	68		30 (18)	130 (112)
		Phenol-d6	150	98.1	65		30 (15)	130 (107)
		Nitrobenzene-d5	100	83.7	84		30 (18)	130 (107)
		2-Fluorobiphenyl	100	70.4	70		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	125	84		30 (10)	130 (116)
		Terphenyl-d14	100	59.6	60		30 (10)	130 (105)
Q1488-03	ENV-101-SB02	2-Fluorophenol	150	99.4	66		30 (18)	130 (112)
		Phenol-d6	150	94.6	63		30 (15)	130 (107)
		Nitrobenzene-d5	100	81.2	81		30 (18)	130 (107)
		2-Fluorobiphenyl	100	69.8	70		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	96.2	64		30 (10)	130 (116)
		Terphenyl-d14	100	47.6	48		30 (10)	130 (105)
Q1488-05	ENV-102-SB01	2-Fluorophenol	150	87.9	59		30 (18)	130 (112)
		Phenol-d6	150	84.2	56		30 (15)	130 (107)
		Nitrobenzene-d5	100	72.7	73		30 (18)	130 (107)
		2-Fluorobiphenyl	100	64.2	64		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	86.1	57		30 (10)	130 (116)
		Terphenyl-d14	100	48.0	48		30 (10)	130 (105)
Q1488-07	ENV-102-SB02	2-Fluorophenol	150	91.7	61		30 (18)	130 (112)
		Phenol-d6	150	90.5	60		30 (15)	130 (107)
		Nitrobenzene-d5	100	77.1	77		30 (18)	130 (107)
		2-Fluorobiphenyl	100	68.3	68		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	118	78		30 (10)	130 (116)
		Terphenyl-d14	100	58.4	58		30 (10)	130 (105)
Q1488-09	ENV-104-SB01	2-Fluorophenol	150	86.9	58		30 (18)	130 (112)
		Phenol-d6	150	83.5	56		30 (15)	130 (107)
		Nitrobenzene-d5	100	72.1	72		30 (18)	130 (107)

() = LABORATORY INHOUSE LIMIT

Surrogate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q1488-09	ENV-104-SB01	2-Fluorobiphenyl	100	55.5	56		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	81.7	54		30 (10)	130 (116)
		Terphenyl-d14	100	36.3	36		30 (10)	130 (105)
Q1488-11	ENV-104-SB02	2-Fluorophenol	150	87.0	58		30 (18)	130 (112)
		Phenol-d6	150	84.3	56		30 (15)	130 (107)
		Nitrobenzene-d5	100	71.4	71		30 (18)	130 (107)
		2-Fluorobiphenyl	100	59.1	59		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	92.0	61		30 (10)	130 (116)
		Terphenyl-d14	100	40.9	41		30 (10)	130 (105)

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q1487-01MS	Client Sample ID:	DN-B-42MS					DataFile:	BF141844.D		
Benzaldehyde	1900	0	850	ug/Kg	45				20 (10)	160 (86)	
Phenol	1900	0	1600	ug/Kg	84				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	1900	0	1600	ug/Kg	84				70 (54)	130 (125)	
2-Chlorophenol	1900	0	1600	ug/Kg	84				70 (79)	130 (107)	
2-Methylphenol	1900	0	1600	ug/Kg	84				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	1900	0	1400	ug/Kg	74				70 (65)	130 (110)	
Acetophenone	1900	0	1700	ug/Kg	89				70 (75)	130 (111)	
3+4-Methylphenols	1900	0	1600	ug/Kg	84				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	1900	0	1400	ug/Kg	74				70 (59)	130 (119)	
Hexachloroethane	1900	0	1600	ug/Kg	84				20 (65)	160 (117)	
Nitrobenzene	1900	0	1800	ug/Kg	95				70 (70)	130 (119)	
Isophorone	1900	0	1600	ug/Kg	84				70 (76)	130 (122)	
2-Nitrophenol	1900	0	1900	ug/Kg	100				70 (54)	130 (145)	
2,4-Dimethylphenol	1900	0	2000	ug/Kg	105				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	1900	0	1500	ug/Kg	79				70 (68)	130 (112)	
2,4-Dichlorophenol	1900	0	1600	ug/Kg	84				70 (72)	130 (118)	
Naphthalene	1900	0	1600	ug/Kg	84				70 (72)	130 (110)	
4-Chloroaniline	1900	0	910	ug/Kg	48	*			70 (10)	130 (91)	
Hexachlorobutadiene	1900	0	1600	ug/Kg	84				70 (66)	130 (114)	
Caprolactam	1900	0	1900	ug/Kg	100				20 (51)	160 (134)	
4-Chloro-3-methylphenol	1900	0	1600	ug/Kg	84				70 (57)	130 (132)	
2-Methylnaphthalene	1900	0	1500	ug/Kg	79				70 (59)	130 (123)	
Hexachlorocyclopentadiene	3800	0	4800	ug/Kg	126				20 (10)	160 (175)	
2,4,6-Trichlorophenol	1900	0	1700	ug/Kg	89				70 (72)	130 (117)	
2,4,5-Trichlorophenol	1900	0	1800	ug/Kg	95				70 (72)	130 (117)	
1,1-Biphenyl	1900	0	1800	ug/Kg	95				70 (75)	130 (113)	
2-Chloronaphthalene	1900	0	1700	ug/Kg	89				70 (67)	130 (118)	
2-Nitroaniline	1900	0	1900	ug/Kg	100				70 (69)	130 (127)	
Dimethylphthalate	1900	0	1600	ug/Kg	84				70 (70)	130 (113)	
Acenaphthylene	1900	0	1700	ug/Kg	89				70 (79)	130 (118)	
2,6-Dinitrotoluene	1900	0	1900	ug/Kg	100				70 (70)	130 (125)	
3-Nitroaniline	1900	0	1300	ug/Kg	68	*			70 (30)	130 (99)	
Acenaphthene	1900	0	1700	ug/Kg	89				70 (70)	130 (121)	
2,4-Dinitrophenol	3800	0	2700	ug/Kg	71				20 (10)	160 (155)	
4-Nitrophenol	3800	0	4200	ug/Kg	111				20 (45)	160 (133)	
Dibenzofuran	1900	0	1600	ug/Kg	84				70 (72)	130 (110)	
2,4-Dinitrotoluene	1900	0	2000	ug/Kg	105				70 (55)	130 (128)	
Diethylphthalate	1900	0	1500	ug/Kg	79				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	1900	0	1500	ug/Kg	79				70 (71)	130 (108)	
Fluorene	1900	0	1600	ug/Kg	84				70 (68)	130 (116)	
4-Nitroaniline	1900	0	1900	ug/Kg	100				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	1900	0	1500	ug/Kg	79				70 (10)	130 (160)	
N-Nitrosodiphenylamine	1900	0	1800	ug/Kg	95				70 (73)	130 (118)	
4-Bromophenyl-phenylether	1900	0	1700	ug/Kg	89				70 (65)	130 (121)	
Hexachlorobenzene	1900	0	1700	ug/Kg	89				70 (67)	130 (118)	
Atrazine	1900	0	2400	ug/Kg	126				70 (79)	130 (127)	

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	3800	0	3200	ug/Kg	84				20 (47)	160 (128)	
Phenanthrene	1900	0	1700	ug/Kg	89				70 (52)	130 (128)	
Anthracene	1900	0	1700	ug/Kg	89				70 (62)	130 (124)	
Carbazole	1900	0	1700	ug/Kg	89				70 (59)	130 (119)	
Di-n-butylphthalate	1900	0	1500	ug/Kg	79				70 (69)	130 (118)	
Fluoranthene	1900	0	1500	ug/Kg	79				70 (44)	130 (125)	
Pyrene	1900	0	1400	ug/Kg	74				70 (26)	130 (142)	
Butylbenzylphthalate	1900	0	1400	ug/Kg	74				70 (64)	130 (126)	
3,3-Dichlorobenzidine	1900	0	1800	ug/Kg	95				70 (33)	130 (116)	
Benzo(a)anthracene	1900	0	1700	ug/Kg	89				70 (71)	130 (114)	
Chrysene	1900	0	1600	ug/Kg	84				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	1900	0	1400	ug/Kg	74				70 (42)	130 (169)	
Di-n-octyl phthalate	1900	0	1700	ug/Kg	89				70 (23)	130 (175)	
Benzo(b)fluoranthene	1900	0	1600	ug/Kg	84				70 (67)	130 (121)	
Benzo(k)fluoranthene	1900	0	1500	ug/Kg	79				70 (57)	130 (134)	
Benzo(a)pyrene	1900	0	1700	ug/Kg	89				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	1900	0	1300	ug/Kg	68	*			70 (40)	130 (129)	
Dibenz(a,h)anthracene	1900	0	1300	ug/Kg	68	*			70 (43)	130 (123)	
Benzo(g,h,i)perylene	1900	0	1100	ug/Kg	58	*			70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	1900	0	1800	ug/Kg	95				70 (69)	130 (124)	
1,4-Dioxane	1900	0	1600	ug/Kg	84				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	1900	0	1700	ug/Kg	89				70 (69)	130 (112)	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q1487-01MSD	Client Sample ID:	DN-B-42MSD					DataFile:	BF141845.D		
Benzaldehyde	1900	0	860	ug/Kg	45		0		20 (10)	160 (86)	30 (20)
Phenol	1900	0	1700	ug/Kg	89		6		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	1900	0	1600	ug/Kg	84		0		70 (54)	130 (125)	30 (20)
2-Chlorophenol	1900	0	1700	ug/Kg	89		6		70 (79)	130 (107)	30 (20)
2-Methylphenol	1900	0	1600	ug/Kg	84		0		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	1900	0	1400	ug/Kg	74		0		70 (65)	130 (110)	30 (20)
Acetophenone	1900	0	1800	ug/Kg	95		7		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	1900	0	1600	ug/Kg	84		0		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	1900	0	1400	ug/Kg	74		0		70 (59)	130 (119)	30 (20)
Hexachloroethane	1900	0	1600	ug/Kg	84		0		20 (65)	160 (117)	30 (20)
Nitrobenzene	1900	0	1800	ug/Kg	95		0		70 (70)	130 (119)	30 (20)
Isophorone	1900	0	1600	ug/Kg	84		0		70 (76)	130 (122)	30 (20)
2-Nitrophenol	1900	0	1900	ug/Kg	100		0		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	1900	0	2000	ug/Kg	105		0		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	1900	0	1500	ug/Kg	79		0		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	1900	0	1600	ug/Kg	84		0		70 (72)	130 (118)	30 (20)
Naphthalene	1900	0	1600	ug/Kg	84		0		70 (72)	130 (110)	30 (20)
4-Chloroaniline	1900	0	950	ug/Kg	50	*	4		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	1900	0	1600	ug/Kg	84		0		70 (66)	130 (114)	30 (20)
Caprolactam	1900	0	1900	ug/Kg	100		0		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	1900	0	1600	ug/Kg	84		0		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	1900	0	1500	ug/Kg	79		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	3800	0	4900	ug/Kg	129		2		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	1900	0	1800	ug/Kg	95		7		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	1900	0	1800	ug/Kg	95		0		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	1900	0	1900	ug/Kg	100		5		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	1900	0	1700	ug/Kg	89		0		70 (67)	130 (118)	30 (20)
2-Nitroaniline	1900	0	2000	ug/Kg	105		5		70 (69)	130 (127)	30 (20)
Dimethylphthalate	1900	0	1600	ug/Kg	84		0		70 (70)	130 (113)	30 (20)
Acenaphthylene	1900	0	1800	ug/Kg	95		7		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	1900	0	1900	ug/Kg	100		0		70 (70)	130 (125)	30 (20)
3-Nitroaniline	1900	0	1400	ug/Kg	74		8		70 (30)	130 (99)	30 (20)
Acenaphthene	1900	0	1800	ug/Kg	95		7		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	3800	0	2800	ug/Kg	74		4		20 (10)	160 (155)	30 (20)
4-Nitrophenol	3800	0	4300	ug/Kg	113		2		20 (45)	160 (133)	30 (20)
Dibenzofuran	1900	0	1600	ug/Kg	84		0		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	1900	0	2100	ug/Kg	111		6		70 (55)	130 (128)	30 (20)
Diethylphthalate	1900	0	1500	ug/Kg	79		0		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	1900	0	1600	ug/Kg	84		6		70 (71)	130 (108)	30 (20)
Fluorene	1900	0	1600	ug/Kg	84		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	1900	0	2000	ug/Kg	105		5		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	1900	0	1600	ug/Kg	84		6		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	1900	0	1700	ug/Kg	89		7		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	1900	0	1700	ug/Kg	89		0		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	1900	0	1700	ug/Kg	89		0		70 (67)	130 (118)	30 (20)
Atrazine	1900	0	2400	ug/Kg	126		0		70 (79)	130 (127)	30 (20)

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	3800	0	3200	ug/Kg	84		0		20 (47)	160 (128)	30 (20)
Phenanthrene	1900	0	1700	ug/Kg	89		0		70 (52)	130 (128)	30 (20)
Anthracene	1900	0	1700	ug/Kg	89		0		70 (62)	130 (124)	30 (20)
Carbazole	1900	0	1700	ug/Kg	89		0		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	1900	0	1500	ug/Kg	79		0		70 (69)	130 (118)	30 (20)
Fluoranthene	1900	0	1600	ug/Kg	84		6		70 (44)	130 (125)	30 (20)
Pyrene	1900	0	1400	ug/Kg	74		0		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	1900	0	1400	ug/Kg	74		0		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	1900	0	1800	ug/Kg	95		0		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	1900	0	1700	ug/Kg	89		0		70 (71)	130 (114)	30 (20)
Chrysene	1900	0	1700	ug/Kg	89		6		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	1900	0	1500	ug/Kg	79		7		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	1900	0	1800	ug/Kg	95		7		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	1900	0	1700	ug/Kg	89		6		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	1900	0	1500	ug/Kg	79		0		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	1900	0	1800	ug/Kg	95		7		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	1900	0	1300	ug/Kg	68	*	0		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	1900	0	1400	ug/Kg	74		8		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	1900	0	1100	ug/Kg	58	*	0		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	1900	0	1900	ug/Kg	100		5		70 (69)	130 (124)	30 (20)
1,4-Dioxane	1900	0	1600	ug/Kg	84		0		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	1900	0	1700	ug/Kg	89		0		70 (69)	130 (112)	30 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BF141860.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB166984BS	Benzaldehyde	1700	710	ug/Kg	42				20 (10)	160 (133)	
	Phenol	1700	1300	ug/Kg	76				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1300	ug/Kg	76				70 (60)	130 (101)	
	2-Chlorophenol	1700	1400	ug/Kg	82				70 (65)	130 (112)	
	2-Methylphenol	1700	1300	ug/Kg	76				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1100	ug/Kg	65		*		70 (51)	130 (100)	
	Acetophenone	1700	1500	ug/Kg	88				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1300	ug/Kg	76				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1200	ug/Kg	71				70 (63)	130 (95)	
	Hexachloroethane	1700	1400	ug/Kg	82				20 (72)	160 (108)	
	Nitrobenzene	1700	1500	ug/Kg	88				70 (57)	130 (101)	
	Isophorone	1700	1400	ug/Kg	82				70 (59)	130 (99)	
	2-Nitrophenol	1700	1600	ug/Kg	94				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1700	ug/Kg	100				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1300	ug/Kg	76				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1400	ug/Kg	82				70 (62)	130 (107)	
	Naphthalene	1700	1400	ug/Kg	82				70 (62)	130 (100)	
	4-Chloroaniline	1700	400	ug/Kg	24		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1400	ug/Kg	82				70 (53)	130 (98)	
	Caprolactam	1700	1600	ug/Kg	94				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1300	ug/Kg	76				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	4900	ug/Kg	148				20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1500	ug/Kg	88				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				70 (58)	130 (99)	
	2-Nitroaniline	1700	1600	ug/Kg	94				70 (66)	130 (101)	
	Dimethylphthalate	1700	1400	ug/Kg	82				70 (61)	130 (99)	
	Acenaphthylene	1700	1500	ug/Kg	88				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1600	ug/Kg	94				70 (61)	130 (104)	
	3-Nitroaniline	1700	850	ug/Kg	50		*		70 (28)	130 (100)	
	Acenaphthene	1700	1600	ug/Kg	94				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	3700	ug/Kg	112				20 (37)	160 (128)	
	4-Nitrophenol	3300	3800	ug/Kg	115				20 (48)	160 (119)	
	Dibenzofuran	1700	1300	ug/Kg	76				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1800	ug/Kg	106				70 (60)	130 (106)	
	Diethylphthalate	1700	1400	ug/Kg	82				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1400	ug/Kg	82				70 (58)	130 (98)	
	Fluorene	1700	1400	ug/Kg	82				70 (61)	130 (101)	
	4-Nitroaniline	1700	1800	ug/Kg	106				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	1900	ug/Kg	112				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1400	ug/Kg	82				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1400	ug/Kg	82				70 (66)	130 (102)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BF141860.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB166984BS	Hexachlorobenzene	1700	1500	ug/Kg	88				70 (64)	130 (98)	
	Atrazine	1700	2000	ug/Kg	118				70 (47)	130 (152)	
	Pentachlorophenol	3300	3000	ug/Kg	91				20 (67)	160 (105)	
	Phenanthrene	1700	1400	ug/Kg	82				70 (59)	130 (103)	
	Anthracene	1700	1400	ug/Kg	82				70 (61)	130 (105)	
	Carbazole	1700	1400	ug/Kg	82				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1400	ug/Kg	82				70 (58)	130 (104)	
	Fluoranthene	1700	1500	ug/Kg	88				70 (57)	130 (107)	
	Pyrene	1700	1400	ug/Kg	82				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1400	ug/Kg	82				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	720	ug/Kg	42		*		70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1400	ug/Kg	82				70 (60)	130 (102)	
	Chrysene	1700	1400	ug/Kg	82				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	1300	ug/Kg	76				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1300	ug/Kg	76				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1600	ug/Kg	94				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1500	ug/Kg	88				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1500	ug/Kg	88				70 (53)	130 (101)	
	1,4-Dioxane	1700	1200	ug/Kg	71				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1500	ug/Kg	88				70 (59)	130 (108)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BF141862.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB166982BS	Benzaldehyde	50	23.3	ug/L	47				20 (10)	160 (162)	
	Phenol	50	42.4	ug/L	85				20 (66)	160 (118)	
	bis(2-Chloroethyl)ether	50	41.9	ug/L	84				70 (62)	130 (103)	
	2-Chlorophenol	50	45.4	ug/L	91				70 (70)	130 (117)	
	2-Methylphenol	50	44.3	ug/L	89				70 (69)	130 (109)	
	2,2-oxybis(1-Chloropropane)	50	36.4	ug/L	73				70 (65)	130 (100)	
	Acetophenone	50	47.1	ug/L	94				70 (60)	130 (104)	
	3+4-Methylphenols	50	43.7	ug/L	87				20 (67)	160 (106)	
	N-Nitroso-di-n-propylamine	50	39.7	ug/L	79				70 (57)	130 (107)	
	Hexachloroethane	50	44.5	ug/L	89				20 (76)	160 (118)	
	Nitrobenzene	50	48.9	ug/L	98				70 (58)	130 (106)	
	Isophorone	50	43.6	ug/L	87				70 (61)	130 (102)	
	2-Nitrophenol	50	53.1	ug/L	106				70 (70)	130 (115)	
	2,4-Dimethylphenol	50	54.9	ug/L	110				70 (42)	130 (142)	
	bis(2-Chloroethoxy)methane	50	41.2	ug/L	82				70 (58)	130 (109)	
	2,4-Dichlorophenol	50	44.9	ug/L	90				70 (66)	130 (115)	
	Naphthalene	50	43.2	ug/L	86				70 (64)	130 (107)	
	4-Chloroaniline	50	19.7	ug/L	39		*		70 (10)	130 (85)	
	Hexachlorobutadiene	50	46.6	ug/L	93				70 (69)	130 (101)	
	Caprolactam	50	52.3	ug/L	105				20 (58)	160 (128)	
	4-Chloro-3-methylphenol	50	44.3	ug/L	89				70 (65)	130 (114)	
	2-Methylnaphthalene	50	41.8	ug/L	84				70 (64)	130 (107)	
	Hexachlorocyclopentadiene	100	160	ug/L	160				20 (36)	160 (160)	
	2,4,6-Trichlorophenol	50	47.0	ug/L	94				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	48.6	ug/L	97				70 (70)	130 (106)	
	1,1-Biphenyl	50	47.9	ug/L	96				70 (72)	130 (98)	
	2-Chloronaphthalene	50	44.4	ug/L	89				70 (59)	130 (106)	
	2-Nitroaniline	50	51.2	ug/L	102				70 (73)	130 (114)	
	Dimethylphthalate	50	44.8	ug/L	90				70 (64)	130 (103)	
	Acenaphthylene	50	46.8	ug/L	94				70 (79)	130 (103)	
	2,6-Dinitrotoluene	50	51.2	ug/L	102				70 (64)	130 (110)	
	3-Nitroaniline	50	33.7	ug/L	67		*		70 (28)	130 (100)	
	Acenaphthene	50	51.2	ug/L	102				70 (59)	130 (113)	
	2,4-Dinitrophenol	100	120	ug/L	120				20 (36)	160 (166)	
	4-Nitrophenol	100	120	ug/L	120				20 (45)	160 (147)	
	Dibenzofuran	50	42.9	ug/L	86				70 (65)	130 (106)	
	2,4-Dinitrotoluene	50	57.4	ug/L	115				70 (60)	130 (115)	
	Diethylphthalate	50	43.7	ug/L	87				70 (63)	130 (105)	
	4-Chlorophenyl-phenylether	50	44.9	ug/L	90				70 (61)	130 (104)	
	Fluorene	50	44.9	ug/L	90				70 (64)	130 (107)	
	4-Nitroaniline	50	61.3	ug/L	123				70 (55)	130 (125)	
	4,6-Dinitro-2-methylphenol	50	59.9	ug/L	120				70 (62)	130 (132)	
	N-Nitrosodiphenylamine	50	43.6	ug/L	87				70 (61)	130 (109)	
	4-Bromophenyl-phenylether	50	44.4	ug/L	89				70 (73)	130 (103)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BF141862.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Qual	Low	High	
PB166982BS	Hexachlorobenzene	50	47.3	ug/L	95					70 (73)	130 (106)	
	Atrazine	50	64.1	ug/L	128					70 (76)	130 (120)	
	Pentachlorophenol	100	97.7	ug/L	98					20 (47)	160 (114)	
	Phenanthrene	50	45.5	ug/L	91					70 (62)	130 (109)	
	Anthracene	50	45.8	ug/L	92					70 (65)	130 (110)	
	Carbazole	50	45.6	ug/L	91					70 (62)	130 (106)	
	Di-n-butylphthalate	50	43.1	ug/L	86					70 (64)	130 (106)	
	Fluoranthene	50	46.5	ug/L	93					70 (64)	130 (110)	
	Pyrene	50	44.0	ug/L	88					70 (71)	130 (103)	
	Butylbenzylphthalate	50	46.5	ug/L	93					70 (61)	130 (105)	
	3,3-Dichlorobenzidine	50	28.5	ug/L	57		*			70 (43)	130 (108)	
	Benzo(a)anthracene	50	45.6	ug/L	91					70 (62)	130 (107)	
	Chrysene	50	45.0	ug/L	90					70 (61)	130 (108)	
	bis(2-Ethylhexyl)phthalate	50	46.6	ug/L	93					70 (59)	130 (110)	
	Di-n-octyl phthalate	50	45.1	ug/L	90					70 (52)	130 (139)	
	Benzo(b)fluoranthene	50	45.0	ug/L	90					70 (77)	130 (113)	
	Benzo(k)fluoranthene	50	44.4	ug/L	89					70 (77)	130 (105)	
	Benzo(a)pyrene	50	48.1	ug/L	96					70 (72)	130 (131)	
	Indeno(1,2,3-cd)pyrene	50	50.9	ug/L	102					70 (72)	130 (105)	
	Dibenz(a,h)anthracene	50	49.9	ug/L	100					70 (78)	130 (115)	
	Benzo(g,h,i)perylene	50	47.7	ug/L	95					70 (75)	130 (118)	
	1,2,4,5-Tetrachlorobenzene	50	48.9	ug/L	98					70 (72)	130 (101)	
	1,4-Dioxane	50	39.6	ug/L	79					20 (38)	160 (125)	
	2,3,4,6-Tetrachlorophenol	50	48.4	ug/L	97					70 (63)	130 (116)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BF141863.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Limits		RPD
							Qual	Qual	Low	High	
PB166982BSD	Benzaldehyde	50	23.1	ug/L	46	1			20 (10)	160 (162)	20 (20)
	Phenol	50	41.6	ug/L	83	2			20 (66)	160 (118)	20 (20)
	bis(2-Chloroethyl)ether	50	41.1	ug/L	82	2			70 (62)	130 (103)	20 (20)
	2-Chlorophenol	50	44.8	ug/L	90	1			70 (70)	130 (117)	20 (20)
	2-Methylphenol	50	43.2	ug/L	86	3			70 (69)	130 (109)	20 (20)
	2,2-oxybis(1-Chloropropane)	50	35.1	ug/L	70	4			70 (65)	130 (100)	20 (20)
	Acetophenone	50	46.8	ug/L	94	1			70 (60)	130 (104)	20 (20)
	3+4-Methylphenols	50	42.8	ug/L	86	2			20 (67)	160 (106)	20 (20)
	N-Nitroso-di-n-propylamine	50	38.5	ug/L	77	3			70 (57)	130 (107)	20 (20)
	Hexachloroethane	50	44.7	ug/L	89	0			20 (76)	160 (118)	20 (20)
	Nitrobenzene	50	48.5	ug/L	97	1			70 (58)	130 (106)	20 (20)
	Isophorone	50	43.1	ug/L	86	1			70 (61)	130 (102)	20 (20)
	2-Nitrophenol	50	53.4	ug/L	107	1			70 (70)	130 (115)	20 (20)
	2,4-Dimethylphenol	50	53.9	ug/L	108	2			70 (42)	130 (142)	20 (20)
	bis(2-Chloroethoxy)methane	50	40.1	ug/L	80	3			70 (58)	130 (109)	20 (20)
	2,4-Dichlorophenol	50	44.6	ug/L	89	1			70 (66)	130 (115)	20 (20)
	Naphthalene	50	43.1	ug/L	86	0			70 (64)	130 (107)	20 (20)
	4-Chloroaniline	50	20.1	ug/L	40	2	*		70 (10)	130 (85)	20 (20)
	Hexachlorobutadiene	50	46.6	ug/L	93	0			70 (69)	130 (101)	20 (20)
	Caprolactam	50	50.5	ug/L	101	4			20 (58)	160 (128)	20 (20)
	4-Chloro-3-methylphenol	50	43.9	ug/L	88	1			70 (65)	130 (114)	20 (20)
	2-Methylnaphthalene	50	41.2	ug/L	82	1			70 (64)	130 (107)	20 (20)
	Hexachlorocyclopentadiene	100	160	ug/L	160	0			20 (36)	160 (160)	20 (20)
	2,4,6-Trichlorophenol	50	47.0	ug/L	94	0			70 (61)	130 (110)	20 (20)
	2,4,5-Trichlorophenol	50	48.8	ug/L	98	0			70 (70)	130 (106)	20 (20)
	1,1-Biphenyl	50	48.0	ug/L	96	0			70 (72)	130 (98)	20 (20)
	2-Chloronaphthalene	50	44.3	ug/L	89	0			70 (59)	130 (106)	20 (20)
	2-Nitroaniline	50	51.4	ug/L	103	0			70 (73)	130 (114)	20 (20)
	Dimethylphthalate	50	44.6	ug/L	89	0			70 (64)	130 (103)	20 (20)
	Acenaphthylene	50	46.3	ug/L	93	1			70 (79)	130 (103)	20 (20)
	2,6-Dinitrotoluene	50	51.6	ug/L	103	1			70 (64)	130 (110)	20 (20)
	3-Nitroaniline	50	34.7	ug/L	69	3	*		70 (28)	130 (100)	20 (20)
	Acenaphthene	50	51.0	ug/L	102	0			70 (59)	130 (113)	20 (20)
	2,4-Dinitrophenol	100	120	ug/L	120	0			20 (36)	160 (166)	20 (20)
	4-Nitrophenol	100	120	ug/L	120	0			20 (45)	160 (147)	20 (20)
	Dibenzofuran	50	42.4	ug/L	85	1			70 (65)	130 (106)	20 (20)
	2,4-Dinitrotoluene	50	57.5	ug/L	115	0			70 (60)	130 (115)	20 (20)
	Diethylphthalate	50	43.2	ug/L	86	1			70 (63)	130 (105)	20 (20)
	4-Chlorophenyl-phenylether	50	44.2	ug/L	88	2			70 (61)	130 (104)	20 (20)
	Fluorene	50	44.5	ug/L	89	1			70 (64)	130 (107)	20 (20)
	4-Nitroaniline	50	61.0	ug/L	122	0			70 (55)	130 (125)	20 (20)
	4,6-Dinitro-2-methylphenol	50	59.5	ug/L	119	1			70 (62)	130 (132)	20 (20)
	N-Nitrosodiphenylamine	50	43.0	ug/L	86	1			70 (61)	130 (109)	20 (20)
	4-Bromophenyl-phenylether	50	43.4	ug/L	87	2			70 (73)	130 (103)	20 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1488

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BF141863.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Limits		
							Qual	Qual	Low	High	RPD
PB166982BSD	Hexachlorobenzene	50	46.8	ug/L	94	1			70 (73)	130 (106)	20 (20)
	Atrazine	50	63.7	ug/L	127	1			70 (76)	130 (120)	20 (20)
	Pentachlorophenol	100	97.3	ug/L	97	0			20 (47)	160 (114)	20 (20)
	Phenanthrene	50	45.5	ug/L	91	0			70 (62)	130 (109)	20 (20)
	Anthracene	50	46.1	ug/L	92	1			70 (65)	130 (110)	20 (20)
	Carbazole	50	46.4	ug/L	93	2			70 (62)	130 (106)	20 (20)
	Di-n-butylphthalate	50	42.7	ug/L	85	1			70 (64)	130 (106)	20 (20)
	Fluoranthene	50	47.4	ug/L	95	2			70 (64)	130 (110)	20 (20)
	Pyrene	50	42.3	ug/L	85	4			70 (71)	130 (103)	20 (20)
	Butylbenzylphthalate	50	45.7	ug/L	91	2			70 (61)	130 (105)	20 (20)
	3,3-Dichlorobenzidine	50	29.7	ug/L	59	4	*		70 (43)	130 (108)	20 (20)
	Benzo(a)anthracene	50	44.6	ug/L	89	2			70 (62)	130 (107)	20 (20)
	Chrysene	50	44.7	ug/L	89	1			70 (61)	130 (108)	20 (20)
	bis(2-Ethylhexyl)phthalate	50	46.9	ug/L	94	1			70 (59)	130 (110)	20 (20)
	Di-n-octyl phthalate	50	45.8	ug/L	92	2			70 (52)	130 (139)	20 (20)
	Benzo(b)fluoranthene	50	44.0	ug/L	88	2			70 (77)	130 (113)	20 (20)
	Benzo(k)fluoranthene	50	45.2	ug/L	90	2			70 (77)	130 (105)	20 (20)
	Benzo(a)pyrene	50	47.5	ug/L	95	1			70 (72)	130 (131)	20 (20)
	Indeno(1,2,3-cd)pyrene	50	45.3	ug/L	91	12			70 (72)	130 (105)	20 (20)
	Dibenz(a,h)anthracene	50	45.0	ug/L	90	10			70 (78)	130 (115)	20 (20)
	Benzo(g,h,i)perylene	50	41.8	ug/L	84	13			70 (75)	130 (118)	20 (20)
	1,2,4,5-Tetrachlorobenzene	50	49.2	ug/L	98	1			70 (72)	130 (101)	20 (20)
	1,4-Dioxane	50	39.6	ug/L	79	0			20 (38)	160 (125)	20 (20)
	2,3,4,6-Tetrachlorophenol	50	48.7	ug/L	97	1			70 (63)	130 (116)	20 (20)

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166982BL

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: Q1488

SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: BF141861.D

Lab Sample ID: PB166982BL

Instrument ID: BNA_F

Date Extracted: 03/05/2025

Matrix: (soil/water) Water

Date Analyzed: 03/06/2025

Level: (low/med) LOW

Time Analyzed: 11:21

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166982BS	PB166982BS	BF141862.D	03/06/2025
PB166982BSD	PB166982BSD	BF141863.D	03/06/2025
ENV-102-GW01	Q1488-13	BF141871.D	03/06/2025
ENV-104-GW01	Q1488-14	BF141870.D	03/06/2025

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166984BL

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: Q1488

SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: BF141859.D

Lab Sample ID: PB166984BL

Instrument ID: BNA_F

Date Extracted: 03/05/2025

Matrix: (soil/water) SOIL

Date Analyzed: 03/06/2025

Level: (low/med) LOW

Time Analyzed: 10:22

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166984BS	PB166984BS	BF141860.D	03/06/2025
ENV-102-SB02	Q1488-07	BF141864.D	03/06/2025
ENV-101-SB01	Q1488-01	BF141865.D	03/06/2025
DN-B-42MS	Q1487-01MS	BF141844.D	03/05/2025
DN-B-42MSD	Q1487-01MSD	BF141845.D	03/05/2025
ENV-104-SB02	Q1488-11	BF141841.D	03/05/2025
ENV-102-SB01	Q1488-05	BF141842.D	03/05/2025
ENV-104-SB01	Q1488-09	BF141843.D	03/05/2025
ENV-101-SB02	Q1488-03	BF141847.D	03/05/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM

SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: BF141792.D

DFTPP Injection Date: 02/27/2025

Instrument ID: BNA_F

DFTPP Injection Time: 14:47

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.9
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	34.9
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	46.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	14.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.1 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF141793.D	02/27/2025	15:17
SSTDICC005	SSTDICC005	BF141794.D	02/27/2025	15:46
SSTDICC010	SSTDICC010	BF141795.D	02/27/2025	16:16
SSTDICC020	SSTDICC020	BF141796.D	02/27/2025	16:46
SSTDICCC040	SSTDICCC040	BF141797.D	02/27/2025	17:16
SSTDICC050	SSTDICC050	BF141798.D	02/27/2025	17:46
SSTDICC060	SSTDICC060	BF141799.D	02/27/2025	18:15
SSTDICC080	SSTDICC080	BF141800.D	02/27/2025	18:45

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM

SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: BF141834.D

DFTPP Injection Date: 03/05/2025

Instrument ID: BNA_F

DFTPP Injection Time: 09:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	35.5
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.3
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	6.8
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	13.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.7 (19.8) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF141835.D	03/05/2025	10:09
ENV-104-SB02	Q1488-11	BF141841.D	03/05/2025	13:53
ENV-102-SB01	Q1488-05	BF141842.D	03/05/2025	14:23
ENV-104-SB01	Q1488-09	BF141843.D	03/05/2025	14:52
DN-B-42MS	Q1487-01MS	BF141844.D	03/05/2025	15:21
DN-B-42MSD	Q1487-01MSD	BF141845.D	03/05/2025	15:51
ENV-101-SB02	Q1488-03	BF141847.D	03/05/2025	16:50

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM

SAS No.: Q1488 SDG NO.: Q1488

Lab File ID: BF141857.D

DFTPP Injection Date: 03/06/2025

Instrument ID: BNA_F

DFTPP Injection Time: 08:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.8
68	Less than 2.0% of mass 69	0.7 (2) 1
69	Mass 69 relative abundance	34.8
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	46.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	28.6
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.6 (19.7) 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	BF141858.D	03/06/2025	09:52
PB166984BL	PB166984BL	BF141859.D	03/06/2025	10:22
PB166984BS	PB166984BS	BF141860.D	03/06/2025	10:52
PB166982BL	PB166982BL	BF141861.D	03/06/2025	11:21
PB166982BS	PB166982BS	BF141862.D	03/06/2025	11:51
PB166982BSD	PB166982BSD	BF141863.D	03/06/2025	12:21
ENV-102-SB02	Q1488-07	BF141864.D	03/06/2025	13:01
ENV-101-SB01	Q1488-01	BF141865.D	03/06/2025	13:31
ENV-104-GW01	Q1488-14	BF141870.D	03/06/2025	16:00
ENV-102-GW01	Q1488-13	BF141871.D	03/06/2025	16:29

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/05/2025

Lab File ID: BF141835.D Time Analyzed: 10:09

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	246608	6.887	945299	8.17	507589	9.92
UPPER LIMIT	493216	7.387	1890600	8.669	1015180	10.422
LOWER LIMIT	123304	6.387	472650	7.669	253795	9.422
EPA SAMPLE NO.						
01 ENV-104-SB02	200259	6.89	760393	8.16	389790	9.92
02 DN-B-42MS	192210	6.89	734232	8.17	370025	9.92
03 DN-B-42MSD	191311	6.89	731999	8.17	367233	9.92
04 ENV-101-SB02	181202	6.89	685861	8.16	338318	9.92
05 ENV-102-SB01	199424	6.89	747735	8.16	373687	9.92
06 ENV-104-SB01	192627	6.89	725608	8.16	362334	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/05/2025

Lab File ID: BF141835.D Time Analyzed: 10:09

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	873644	11.404	595765	14.045	513355	15.51
UPPER LIMIT	1747290	11.904	1191530	14.545	1026710	16.01
LOWER LIMIT	436822	10.904	297883	13.545	256678	15.01
EPA SAMPLE NO.						
01 ENV-104-SB02	614563	11.40	462576	14.04	512973	15.51
02 DN-B-42MS	565314	11.40	409462	14.04	473342	15.51
03 DN-B-42MSD	575333	11.40	414755	14.04	465047	15.51
04 ENV-101-SB02	507852	11.40	419765	14.03	463489	15.51
05 ENV-102-SB01	582421	11.40	429057	14.04	509930	15.51
06 ENV-104-SB01	551877	11.40	435864	14.03	488168	15.51

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/06/2025

Lab File ID: BF141858.D Time Analyzed: 09:52

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	207866	6.887	779725	8.17	422269	9.92
UPPER LIMIT	415732	7.387	1559450	8.669	844538	10.422
LOWER LIMIT	103933	6.387	389863	7.669	211135	9.422
EPA SAMPLE NO.						
01 ENV-102-GW01	157960	6.89	631847	8.16	343111	9.92
02 ENV-104-GW01	140013	6.89	541385	8.16	290279	9.92
03 PB166984BL	218862	6.89	871720	8.16	477596	9.92
04 PB166984BS	222677	6.89	860348	8.17	467040	9.92
05 PB166982BL	212037	6.89	840031	8.16	466101	9.92
06 PB166982BS	210095	6.89	832298	8.16	456822	9.92
07 PB166982BSD	218542	6.89	850562	8.17	458462	9.92
08 ENV-102-SB02	163469	6.89	639781	8.16	350300	9.92
09 ENV-101-SB01	157980	6.89	615246	8.16	336755	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG NO.: Q1488

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/06/2025

Lab File ID: BF141858.D Time Analyzed: 09:52

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	691934	11.404	434521	14.045	382575	15.515
UPPER LIMIT	1383870	11.904	869042	14.545	765150	16.015
LOWER LIMIT	345967	10.904	217261	13.545	191288	15.015
EPA SAMPLE NO.						
01 ENV-102-GW01	586477	11.40	448542	14.04	460671	15.51
02 ENV-104-GW01	493097	11.40	386724	14.04	390388	15.51
03 PB166984BL	848035	11.40	691946	14.04	552165	15.51
04 PB166984BS	801941	11.41	537472	14.05	470320	15.52
05 PB166982BL	808511	11.40	646602	14.04	495069	15.51
06 PB166982BS	789268	11.40	533191	14.05	432459	15.51
07 PB166982BSD	790298	11.40	569230	14.05	468514	15.52
08 ENV-102-SB02	621587	11.40	547828	14.04	479609	15.51
09 ENV-101-SB01	605607	11.40	545094	14.04	450529	15.51

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BL	SDG No.:	Q1488
Lab Sample ID:	PB166982BL	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
BF141861.D	1	03/05/25 08:35	03/06/25 11:21	PB166982

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BL	SDG No.:	Q1488
Lab Sample ID:	PB166982BL	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
BF141861.D	1	03/05/25 08:35	03/06/25 11:21	PB166982

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BL	SDG No.:	Q1488
Lab Sample ID:	PB166982BL	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
BF141861.D	1	03/05/25 08:35	03/06/25 11:21	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.00	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.79	U	0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	130		15 (10) - 110 (139)	87%	SPK: 150
13127-88-3	Phenol-d6	123		15 (10) - 110 (134)	82%	SPK: 150
4165-60-0	Nitrobenzene-d5	109		30 (49) - 130 (133)	109%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.9		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	172	*	15 (44) - 110 (137)	115%	SPK: 150
1718-51-0	Terphenyl-d14	87.1		30 (48) - 130 (125)	87%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	212000	6.887			
1146-65-2	Naphthalene-d8	840000	8.163			
15067-26-2	Acenaphthene-d10	466000	9.916			
1517-22-2	Phenanthrene-d10	809000	11.404			
1719-03-5	Chrysene-d12	647000	14.039			
1520-96-3	Perylene-d12	495000	15.51			

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166984BL	SDG No.:	Q1488
Lab Sample ID:	PB166984BL	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
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166984BL	SDG No.:	Q1488
Lab Sample ID:	PB166984BL	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
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166984BL	SDG No.:	Q1488
Lab Sample ID:	PB166984BL	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
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	82.6	U	82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	93.0	U	93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.1	U	78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.2	U	81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.1	U	80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.8	U	86.8	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.7	U	74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	126		30 (18) - 130 (112)	84%	SPK: 150
13127-88-3	Phenol-d6	119		30 (15) - 130 (107)	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	105		30 (18) - 130 (107)	105%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.5		30 (20) - 130 (109)	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	167		30 (10) - 130 (116)	111%	SPK: 150
1718-51-0	Terphenyl-d14	82.5		30 (10) - 130 (105)	83%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	219000	6.887			
1146-65-2	Naphthalene-d8	872000	8.163			
15067-26-2	Acenaphthene-d10	478000	9.916			
1517-22-2	Phenanthrene-d10	848000	11.404			
1719-03-5	Chrysene-d12	692000	14.039			
1520-96-3	Perylene-d12	552000	15.51			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	76.0	J		2.24	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166984BL	SDG No.:	Q1488
Lab Sample ID:	PB166984BL	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
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BS	SDG No.:	Q1488
Lab Sample ID:	PB166982BS	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
BF141862.D	1	03/05/25 08:35	03/06/25 11:51	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	23.3		4.00	10.0	ug/L
108-95-2	Phenol	42.4		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	41.9		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	45.4		0.71	5.00	ug/L
95-48-7	2-Methylphenol	44.3		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	36.4		1.40	5.00	ug/L
98-86-2	Acetophenone	47.1		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	43.7		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	39.7		1.50	2.50	ug/L
67-72-1	Hexachloroethane	44.5		1.00	5.00	ug/L
98-95-3	Nitrobenzene	48.9		1.30	5.00	ug/L
78-59-1	Isophorone	43.6		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	53.1		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	54.9		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	41.2		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	44.9		0.88	5.00	ug/L
91-20-3	Naphthalene	43.2		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	19.7		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	46.6		1.30	5.00	ug/L
105-60-2	Caprolactam	52.3		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	44.3		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	41.8		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	160	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	47.0		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	48.6		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	47.9		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	44.4		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	51.2		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	44.8		0.93	5.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BS	SDG No.:	Q1488
Lab Sample ID:	PB166982BS	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
BF141862.D	1	03/05/25 08:35	03/06/25 11:51	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	46.8		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	51.2		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	33.7		1.40	5.00	ug/L
83-32-9	Acenaphthene	51.2		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	120	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	120	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	42.9		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	57.4		1.50	5.00	ug/L
84-66-2	Diethylphthalate	43.7		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	44.9		0.98	5.00	ug/L
86-73-7	Fluorene	44.9		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	61.3		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	59.9		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	43.6		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	44.4		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	47.3		1.10	5.00	ug/L
1912-24-9	Atrazine	64.1		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	97.7	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	45.5		0.89	5.00	ug/L
120-12-7	Anthracene	45.8		1.10	5.00	ug/L
86-74-8	Carbazole	45.6		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	43.1		1.50	5.00	ug/L
206-44-0	Fluoranthene	46.5		1.30	5.00	ug/L
129-00-0	Pyrene	44.0		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	46.5		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	28.5		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	45.6		0.94	5.00	ug/L
218-01-9	Chrysene	45.0		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	46.6		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	45.1		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	45.0		1.10	5.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BS	SDG No.:	Q1488
Lab Sample ID:	PB166982BS	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
BF141862.D	1	03/05/25 08:35	03/06/25 11:51	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	44.4		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	48.1		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	50.9		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.9		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	47.7		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	48.9		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	39.6		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	48.4		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	131		15 (10) - 110 (139)	87%	SPK: 150
13127-88-3	Phenol-d6	124		15 (10) - 110 (134)	83%	SPK: 150
4165-60-0	Nitrobenzene-d5	109		30 (49) - 130 (133)	109%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.7		30 (52) - 130 (132)	95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	177	*	15 (44) - 110 (137)	118%	SPK: 150
1718-51-0	Terphenyl-d14	99.9		30 (48) - 130 (125)	100%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	210000	6.887			
1146-65-2	Naphthalene-d8	832000	8.163			
15067-26-2	Acenaphthene-d10	457000	9.922			
1517-22-2	Phenanthrene-d10	789000	11.404			
1719-03-5	Chrysene-d12	533000	14.045			
1520-96-3	Perylene-d12	432000	15.51			

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166984BS	SDG No.:	Q1488
Lab Sample ID:	PB166984BS	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
BF141860.D	1	03/05/25 09:40	03/06/25 10:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	710		180	330	ug/Kg
108-95-2	Phenol	1300		82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1300		83.6	170	ug/Kg
95-57-8	2-Chlorophenol	1400		83.4	170	ug/Kg
95-48-7	2-Methylphenol	1300		80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1100		90.8	170	ug/Kg
98-86-2	Acetophenone	1500		86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	1300		79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1200		40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	1400		82.9	170	ug/Kg
98-95-3	Nitrobenzene	1500		90.7	170	ug/Kg
78-59-1	Isophorone	1400		84.5	170	ug/Kg
88-75-5	2-Nitrophenol	1600		94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1300		85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1400		75.4	170	ug/Kg
91-20-3	Naphthalene	1400		82.5	170	ug/Kg
106-47-8	4-Chloroaniline	400		82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	1400		83.2	170	ug/Kg
105-60-2	Caprolactam	1600		86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1400		77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1300		82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4900	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		71.3	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		73.9	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		83.2	170	ug/Kg
88-74-4	2-Nitroaniline	1600		94.9	170	ug/Kg
131-11-3	Dimethylphthalate	1400		81.6	170	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166984BS	SDG No.:	Q1488
Lab Sample ID:	PB166984BS	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
BF141860.D	1	03/05/25 09:40	03/06/25 10:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1500		86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.1	170	ug/Kg
99-09-2	3-Nitroaniline	850		89.1	170	ug/Kg
83-32-9	Acenaphthene	1600		81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3700	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3800	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1300		84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		86.1	170	ug/Kg
84-66-2	Diethylphthalate	1400		80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1400		85.5	170	ug/Kg
86-73-7	Fluorene	1400		85.4	170	ug/Kg
100-01-6	4-Nitroaniline	1800		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1900		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1400		81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1500		84.9	170	ug/Kg
1912-24-9	Atrazine	2000		91.3	170	ug/Kg
87-86-5	Pentachlorophenol	3000	E	77.2	330	ug/Kg
85-01-8	Phenanthrene	1400		83.9	170	ug/Kg
120-12-7	Anthracene	1400		84.3	170	ug/Kg
86-74-8	Carbazole	1400		80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1400		84.2	170	ug/Kg
206-44-0	Fluoranthene	1500		81.6	170	ug/Kg
129-00-0	Pyrene	1400		82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	1400		96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	720		98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	1400		80.6	170	ug/Kg
218-01-9	Chrysene	1400		79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1400		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1300		81.0	170	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166984BS	SDG No.:	Q1488
Lab Sample ID:	PB166984BS	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
BF141860.D	1	03/05/25 09:40	03/06/25 10:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1300		82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	1500		92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1500		81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		86.7	170	ug/Kg
123-91-1	1,4-Dioxane	1200		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		74.6	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	122		30 (18) - 130 (112)	81%	SPK: 150
13127-88-3	Phenol-d6	116		30 (15) - 130 (107)	77%	SPK: 150
4165-60-0	Nitrobenzene-d5	105		30 (18) - 130 (107)	105%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.3		30 (20) - 130 (109)	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	166		30 (10) - 130 (116)	110%	SPK: 150
1718-51-0	Terphenyl-d14	94.9		30 (10) - 130 (105)	95%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	223000	6.887			
1146-65-2	Naphthalene-d8	860000	8.169			
15067-26-2	Acenaphthene-d10	467000	9.922			
1517-22-2	Phenanthrene-d10	802000	11.41			
1719-03-5	Chrysene-d12	537000	14.045			
1520-96-3	Perylene-d12	470000	15.515			

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BSD	SDG No.:	Q1488
Lab Sample ID:	PB166982BSD	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
BF141863.D	1	03/05/25 08:35	03/06/25 12:21	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	23.1		4.00	10.0	ug/L
108-95-2	Phenol	41.6		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	41.1		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	44.8		0.71	5.00	ug/L
95-48-7	2-Methylphenol	43.2		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	35.1		1.40	5.00	ug/L
98-86-2	Acetophenone	46.8		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	42.8		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	38.5		1.50	2.50	ug/L
67-72-1	Hexachloroethane	44.7		1.00	5.00	ug/L
98-95-3	Nitrobenzene	48.5		1.30	5.00	ug/L
78-59-1	Isophorone	43.1		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	53.4		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	53.9		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	40.1		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	44.6		0.88	5.00	ug/L
91-20-3	Naphthalene	43.1		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	20.1		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	46.6		1.30	5.00	ug/L
105-60-2	Caprolactam	50.5		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	43.9		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	41.2		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	160	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	47.0		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	48.8		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	48.0		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	44.3		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	51.4		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	44.6		0.93	5.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BSD	SDG No.:	Q1488
Lab Sample ID:	PB166982BSD	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
BF141863.D	1	03/05/25 08:35	03/06/25 12:21	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	46.3		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	51.6		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	34.7		1.40	5.00	ug/L
83-32-9	Acenaphthene	51.0		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	120	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	120	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	42.4		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	57.5		1.50	5.00	ug/L
84-66-2	Diethylphthalate	43.2		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	44.2		0.98	5.00	ug/L
86-73-7	Fluorene	44.5		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	61.0		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	59.5		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	43.0		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	43.4		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	46.8		1.10	5.00	ug/L
1912-24-9	Atrazine	63.7		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	97.3	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	45.5		0.89	5.00	ug/L
120-12-7	Anthracene	46.1		1.10	5.00	ug/L
86-74-8	Carbazole	46.4		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	42.7		1.50	5.00	ug/L
206-44-0	Fluoranthene	47.4		1.30	5.00	ug/L
129-00-0	Pyrene	42.3		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	45.7		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	29.7		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	44.6		0.94	5.00	ug/L
218-01-9	Chrysene	44.7		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	46.9		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	45.8		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	44.0		1.10	5.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166982BSD	SDG No.:	Q1488
Lab Sample ID:	PB166982BSD	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
BF141863.D	1	03/05/25 08:35	03/06/25 12:21	PB166982

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	45.2		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	47.5		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	45.3		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	45.0		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	41.8		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	49.2		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	39.6		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	48.7		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	128		15 (10) - 110 (139)	85%	SPK: 150
13127-88-3	Phenol-d6	122		15 (10) - 110 (134)	81%	SPK: 150
4165-60-0	Nitrobenzene-d5	109		30 (49) - 130 (133)	109%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.0		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	174	*	15 (44) - 110 (137)	116%	SPK: 150
1718-51-0	Terphenyl-d14	95.1		30 (48) - 130 (125)	95%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	219000	6.887			
1146-65-2	Naphthalene-d8	851000	8.169			
15067-26-2	Acenaphthene-d10	458000	9.922			
1517-22-2	Phenanthrene-d10	790000	11.404			
1719-03-5	Chrysene-d12	569000	14.045			
1520-96-3	Perylene-d12	469000	15.516			

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	DN-B-42MS	SDG No.:	Q1488
Lab Sample ID:	Q1487-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
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
BF141844.D	1	03/05/25 09:40	03/05/25 15:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	850		210	370	ug/Kg
108-95-2	Phenol	1600		94.0	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		94.9	190	ug/Kg
95-57-8	2-Chlorophenol	1600		94.7	190	ug/Kg
95-48-7	2-Methylphenol	1600		91.4	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		100	190	ug/Kg
98-86-2	Acetophenone	1700		98.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	1600		90.5	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		45.7	90.7	ug/Kg
67-72-1	Hexachloroethane	1600		94.1	190	ug/Kg
98-95-3	Nitrobenzene	1800		100	190	ug/Kg
78-59-1	Isophorone	1600		95.9	190	ug/Kg
88-75-5	2-Nitrophenol	1900		110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2000		110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		97.3	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		85.6	190	ug/Kg
91-20-3	Naphthalene	1600		93.7	190	ug/Kg
106-47-8	4-Chloroaniline	910		93.7	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		94.5	190	ug/Kg
105-60-2	Caprolactam	1900		98.4	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		87.9	190	ug/Kg
91-57-6	2-Methylnaphthalene	1500		93.6	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4800	E	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		81.0	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1800		83.9	190	ug/Kg
92-52-4	1,1-Biphenyl	1800		99.1	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		94.5	190	ug/Kg
88-74-4	2-Nitroaniline	1900		110	190	ug/Kg
131-11-3	Dimethylphthalate	1600		92.6	190	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	DN-B-42MS	SDG No.:	Q1488
Lab Sample ID:	Q1487-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
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
BF141844.D	1	03/05/25 09:40	03/05/25 15:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1700		98.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		94.3	190	ug/Kg
99-09-2	3-Nitroaniline	1300		100	190	ug/Kg
83-32-9	Acenaphthene	1700		92.0	190	ug/Kg
51-28-5	2,4-Dinitrophenol	2700		280	370	ug/Kg
100-02-7	4-Nitrophenol	4200	E	130	370	ug/Kg
132-64-9	Dibenzofuran	1600		95.7	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2000		97.7	190	ug/Kg
84-66-2	Diethylphthalate	1500		90.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		97.1	190	ug/Kg
86-73-7	Fluorene	1600		97.0	190	ug/Kg
100-01-6	4-Nitroaniline	1900		120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		92.5	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		89.5	190	ug/Kg
118-74-1	Hexachlorobenzene	1700		96.4	190	ug/Kg
1912-24-9	Atrazine	2400		100	190	ug/Kg
87-86-5	Pentachlorophenol	3200	E	87.7	370	ug/Kg
85-01-8	Phenanthrene	1700		95.3	190	ug/Kg
120-12-7	Anthracene	1700		95.7	190	ug/Kg
86-74-8	Carbazole	1700		91.1	190	ug/Kg
84-74-2	Di-n-butylphthalate	1500		95.6	190	ug/Kg
206-44-0	Fluoranthene	1500		92.6	190	ug/Kg
129-00-0	Pyrene	1400		94.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	1400		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1800		110	370	ug/Kg
56-55-3	Benzo(a)anthracene	1700		91.5	190	ug/Kg
218-01-9	Chrysene	1600		90.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1400		100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1700		120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		92.0	190	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	DN-B-42MS	SDG No.:	Q1488
Lab Sample ID:	Q1487-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
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
BF141844.D	1	03/05/25 09:40	03/05/25 15:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1500		93.7	190	ug/Kg
50-32-8	Benzo(a)pyrene	1700		110	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1300		88.6	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1300		92.1	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1100		90.8	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		98.4	190	ug/Kg
123-91-1	1,4-Dioxane	1600		120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		84.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	107		30 (18) - 130 (112)	71%	SPK: 150
13127-88-3	Phenol-d6	102		30 (15) - 130 (107)	68%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.4		30 (18) - 130 (107)	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.3		30 (20) - 130 (109)	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	113		30 (10) - 130 (116)	76%	SPK: 150
1718-51-0	Terphenyl-d14	55.5		30 (10) - 130 (105)	56%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	192000	6.886			
1146-65-2	Naphthalene-d8	734000	8.169			
15067-26-2	Acenaphthene-d10	370000	9.922			
1517-22-2	Phenanthrene-d10	565000	11.404			
1719-03-5	Chrysene-d12	409000	14.039			
1520-96-3	Perylene-d12	473000	15.509			

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	DN-B-42MSD	SDG No.:	Q1488
Lab Sample ID:	Q1487-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141845.D	1	03/05/25 09:40	03/05/25 15:51	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	860		210	370	ug/Kg
108-95-2	Phenol	1700		93.9	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		94.8	190	ug/Kg
95-57-8	2-Chlorophenol	1700		94.6	190	ug/Kg
95-48-7	2-Methylphenol	1600		91.3	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		100	190	ug/Kg
98-86-2	Acetophenone	1800		98.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	1600		90.4	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		45.7	90.7	ug/Kg
67-72-1	Hexachloroethane	1600		94.1	190	ug/Kg
98-95-3	Nitrobenzene	1800		100	190	ug/Kg
78-59-1	Isophorone	1600		95.9	190	ug/Kg
88-75-5	2-Nitrophenol	1900		110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2000		110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		97.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		85.6	190	ug/Kg
91-20-3	Naphthalene	1600		93.6	190	ug/Kg
106-47-8	4-Chloroaniline	950		93.6	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		94.4	190	ug/Kg
105-60-2	Caprolactam	1900		98.4	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		87.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	1500		93.5	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4900	E	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		80.9	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1800		83.9	190	ug/Kg
92-52-4	1,1-Biphenyl	1900		99.0	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		94.4	190	ug/Kg
88-74-4	2-Nitroaniline	2000		110	190	ug/Kg
131-11-3	Dimethylphthalate	1600		92.6	190	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	DN-B-42MSD	SDG No.:	Q1488
Lab Sample ID:	Q1487-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141845.D	1	03/05/25 09:40	03/05/25 15:51	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		98.0	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		94.3	190	ug/Kg
99-09-2	3-Nitroaniline	1400		100	190	ug/Kg
83-32-9	Acenaphthene	1800		91.9	190	ug/Kg
51-28-5	2,4-Dinitrophenol	2800		280	370	ug/Kg
100-02-7	4-Nitrophenol	4300	E	130	370	ug/Kg
132-64-9	Dibenzofuran	1600		95.6	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		97.7	190	ug/Kg
84-66-2	Diethylphthalate	1500		90.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		97.0	190	ug/Kg
86-73-7	Fluorene	1600		96.9	190	ug/Kg
100-01-6	4-Nitroaniline	2000		120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1600		130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1700		92.5	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		89.4	190	ug/Kg
118-74-1	Hexachlorobenzene	1700		96.3	190	ug/Kg
1912-24-9	Atrazine	2400		100	190	ug/Kg
87-86-5	Pentachlorophenol	3200	E	87.6	370	ug/Kg
85-01-8	Phenanthrene	1700		95.2	190	ug/Kg
120-12-7	Anthracene	1700		95.6	190	ug/Kg
86-74-8	Carbazole	1700		91.0	190	ug/Kg
84-74-2	Di-n-butylphthalate	1500		95.5	190	ug/Kg
206-44-0	Fluoranthene	1600		92.6	190	ug/Kg
129-00-0	Pyrene	1400		94.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	1400		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1800		110	370	ug/Kg
56-55-3	Benzo(a)anthracene	1700		91.4	190	ug/Kg
218-01-9	Chrysene	1700		90.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1800		120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		91.9	190	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/04/25
Client Sample ID:	DN-B-42MSD	SDG No.:	Q1488
Lab Sample ID:	Q1487-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141845.D	1	03/05/25 09:40	03/05/25 15:51	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1500		93.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	1800		110	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1300		88.5	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1400		92.0	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1100		90.8	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1900		98.4	190	ug/Kg
123-91-1	1,4-Dioxane	1600		120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		84.6	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	109		30 (18) - 130 (112)	72%	SPK: 150
13127-88-3	Phenol-d6	104		30 (15) - 130 (107)	70%	SPK: 150
4165-60-0	Nitrobenzene-d5	89.9		30 (18) - 130 (107)	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.0		30 (20) - 130 (109)	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	117		30 (10) - 130 (116)	78%	SPK: 150
1718-51-0	Terphenyl-d14	56.9		30 (10) - 130 (105)	57%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	191000	6.886			
1146-65-2	Naphthalene-d8	732000	8.169			
15067-26-2	Acenaphthene-d10	367000	9.922			
1517-22-2	Phenanthrene-d10	575000	11.404			
1719-03-5	Chrysene-d12	415000	14.039			
1520-96-3	Perylene-d12	465000	15.509			

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

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF022725.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Fri Feb 28 01:48:16 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BF141793.D 5 =BF141794.D 10 =BF141795.D 20 =BF141796.D 40 =BF141797.D 50 =BF141798.D 60 =BF141799.D 80 =BF141800.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.613	0.554	0.576	0.596	0.545	0.554	0.541	0.568	4.81	
3)	Pyridine	1.403	1.412	1.486	1.476	1.380	1.389	1.350	1.414	3.54	
4)	n-Nitrosodimet...	0.634	0.666	0.689	0.730	0.674	0.686	0.683	0.680	4.21	
5) S	2-Fluorophenol	1.348	1.315	1.326	1.286	1.185	1.176	1.131	1.252	6.91	
6)	Aniline	1.746	1.727	1.805	1.809	1.642	1.625	1.509	1.695	6.42	
7) S	Phenol-d6	1.750	1.707	1.728	1.684	1.541	1.523	1.477	1.630	6.90	
8)	2-Chlorophenol	1.442	1.406	1.439	1.412	1.299	1.266	1.220	1.355	6.72	
9)	Benzaldehyde	1.151	1.088	1.024	0.982	0.874	0.824	0.694	0.948	16.84	
10) C	Phenol	1.854	1.823	1.866	1.819	1.641	1.625	1.564	1.742	7.26	
11)	bis(2-Chloroet...	1.377	1.376	1.392	1.339	1.279	1.265	1.265	1.328	4.26	
12)	1,3-Dichlorobe...	1.544	1.520	1.541	1.504	1.378	1.361	1.308	1.451	6.80	
13) C	1,4-Dichlorobe...	1.554	1.533	1.549	1.512	1.390	1.377	1.317	1.462	6.66	
14)	1,2-Dichlorobe...	1.493	1.444	1.476	1.401	1.286	1.270	1.186	1.365	8.63	
15)	Benzyl Alcohol	1.347	1.353	1.374	1.366	1.258	1.241	1.180	1.303	5.82	
16)	2,2'-oxybis(1-...	2.139	2.094	2.149	2.079	1.930	1.910	1.814	2.016	6.47	
17)	2-Methylphenol	1.155	1.132	1.165	1.164	1.079	1.084	1.049	1.118	4.22	
18)	Hexachloroethane	0.559	0.542	0.575	0.578	0.533	0.530	0.513	0.547	4.39	
19) P	n-Nitroso-di-n...	1.133	1.136	1.105	1.120	1.087	1.009	1.007	0.975	1.072	6.01
20)	3+4-Methylphenols	1.507	1.510	1.506	1.442	1.304	1.281	1.198	1.392	9.29	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.539	0.517	0.512	0.497	0.456	0.455	0.434	0.487	8.04	
23) S	Nitrobenzene-d5	0.248	0.271	0.318	0.341	0.332	0.340	0.339	0.313	12.10	
24)	Nitrobenzene	0.273	0.303	0.346	0.363	0.349	0.357	0.354	0.335	10.07	
25)	Isophorone	0.702	0.682	0.690	0.682	0.642	0.659	0.649	0.672	3.35	
26) C	2-Nitrophenol	0.079	0.090	0.116	0.144	0.145	0.155	0.158	0.127	25.21	
27)	2,4-Dimethylph...	0.258	0.250	0.256	0.254	0.238	0.238	0.236	0.247	3.87	
28)	bis(2-Chloroet...	0.463	0.448	0.450	0.435	0.404	0.408	0.394	0.429	6.19	
29) C	2,4-Dichloroph...	0.280	0.288	0.296	0.298	0.277	0.281	0.275	0.285	3.20	
30)	1,2,4-Trichlor...	0.328	0.321	0.327	0.319	0.298	0.301	0.292	0.312	4.71	
31)	Naphthalene	1.140	1.097	1.100	1.043	0.960	0.950	0.906	1.028	8.74	
32)	Benzoic acid		0.099	0.145	0.191	0.200	0.215	0.226	0.179	26.89	
33)	4-Chloroaniline	0.402	0.392	0.398	0.379	0.350	0.356	0.360	0.377	5.66	
34) C	Hexachlorobuta...	0.199	0.193	0.202	0.199	0.188	0.191	0.187	0.194	2.98	
35)	Caprolactam	0.087	0.086	0.090	0.091	0.085	0.089	0.086	0.088	2.77	
36) C	4-Chloro-3-met...	0.333	0.316	0.329	0.326	0.300	0.310	0.303	0.317	4.16	
37)	2-Methylnaphth...	0.762	0.725	0.723	0.677	0.621	0.619	0.591	0.674	9.66	
38)	1-Methylnaphth...	0.734	0.688	0.697	0.652	0.594	0.594	0.570	0.647	9.67	

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF022725.M

39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.609	0.600	0.602	0.589	0.549	0.553	0.540	0.578	5.03	
41) P	Hexachlorocycl...	0.217	0.230	0.252	0.258	0.246	0.247	0.236	0.241	5.87	
42) S	2,4,6-Tribromo...	0.175	0.179	0.188	0.199	0.183	0.196	0.194	0.188	4.80	
43) C	2,4,6-Trichlor...	0.355	0.368	0.381	0.398	0.366	0.368	0.377	0.373	3.65	
44)	2,4,5-Trichlor...	0.348	0.364	0.388	0.383	0.364	0.380	0.360	0.369	3.89	
45) S	2-Fluorobiphenyl	1.443	1.387	1.346	1.237	1.128	1.141	1.049	1.247	11.93	
46)	1,1'-Biphenyl	1.694	1.659	1.630	1.519	1.413	1.419	1.323	1.522	9.38	
47)	2-Chloronaphth...	1.211	1.184	1.201	1.135	1.058	1.071	1.006	1.124	7.10	
48)	2-Nitroaniline	0.152	0.187	0.246	0.300	0.297	0.319	0.323	0.260	26.00	
49)	Acenaphthylene	1.847	1.809	1.798	1.711	1.560	1.596	1.472	1.685	8.54	
50)	Dimethylphthalate	1.431	1.405	1.405	1.363	1.262	1.285	1.224	1.339	6.09	
51)	2,6-Dinitrotol...	0.136	0.184	0.231	0.257	0.251	0.265	0.261	0.226	21.50	
52) C	Acenaphthene	1.217	1.201	1.197	1.150	1.068	1.084	1.039	1.137	6.37	
53)	3-Nitroaniline	0.146	0.193	0.243	0.277	0.264	0.282	0.280	0.241	21.68	
54) P	2,4-Dinitrophenol		0.049	0.066	0.093	0.096	0.112	0.116	0.089	29.73	
55)	Dibenzofuran	1.850	1.794	1.765	1.663	1.532	1.542	1.436	1.654	9.40	
56) P	4-Nitrophenol	0.129	0.159	0.197	0.228	0.215	0.229	0.227	0.198	19.87	
57)	2,4-Dinitrotol...	0.151	0.198	0.265	0.313	0.310	0.325	0.320	0.269	25.57	
58)	Fluorene	1.433	1.367	1.313	1.228	1.128	1.134	1.072	1.239	10.97	
59)	2,3,4,6-Tetrac...	0.313	0.314	0.336	0.339	0.309	0.322	0.315	0.321	3.66	
60)	Diethylphthalate	1.429	1.413	1.428	1.383	1.259	1.275	1.212	1.343	6.78	
61)	4-Chlorophenyl...	0.691	0.665	0.654	0.620	0.572	0.583	0.562	0.621	8.09	
62)	4-Nitroaniline	0.149	0.187	0.229	0.267	0.248	0.265	0.256	0.229	19.54	
63)	Azobenzene	1.544	1.503	1.505	1.437	1.320	1.325	1.262	1.414	7.81	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.043	0.063	0.087	0.090	0.100	0.103	0.081	28.86	
66) c	n-Nitrosodiphe...	0.702	0.681	0.689	0.665	0.631	0.623	0.607	0.657	5.56	
67)	4-Bromophenyl-...	0.241	0.237	0.239	0.238	0.227	0.230	0.224	0.234	2.86	
68)	Hexachlorobenzene	0.253	0.249	0.255	0.251	0.240	0.242	0.237	0.247	2.79	
69)	Atrazine	0.213	0.208	0.196	0.179	0.149	0.139		0.181	17.11	
70) C	Pentachlorophenol	0.137	0.146	0.161	0.169	0.159	0.164	0.160	0.156	7.07	
71)	Phenanthrene	1.186	1.152	1.134	1.073	1.001	1.001	0.940	1.070	8.58	
72)	Anthracene	1.203	1.156	1.155	1.068	1.002	0.990	0.931	1.072	9.54	
73)	Carbazole	1.074	1.010	1.014	0.955	0.882	0.871	0.821	0.947	9.69	
74)	Di-n-butylphth...	1.335	1.291	1.291	1.208	1.128	1.114	1.035	1.200	9.30	
75) C	Fluoranthene	1.285	1.216	1.192	1.089	0.992	0.981	0.917	1.096	12.66	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine		0.342	0.198	0.259	0.214	0.181	0.316	0.252	26.09	
78)	Pyrene	1.698	1.687	1.815	1.796	1.738	1.734	1.656	1.732	3.32	
79) S	Terphenyl-d14	1.250	1.233	1.297	1.259	1.230	1.227	1.157	1.236	3.43	
80)	Butylbenzylpht...	0.546	0.579	0.643	0.668	0.650	0.667	0.652	0.629	7.54	
81)	Benzo(a)anthra...	1.367	1.387	1.384	1.312	1.244	1.262	1.292	1.321	4.46	
82)	3,3'-Dichlorob...	0.406	0.380	0.382	0.393	0.364	0.364	0.365	0.379	4.27	
83)	Chrysene	1.303	1.184	1.235	1.265	1.185	1.209	1.144	1.218	4.42	
84)	Bis(2-ethylhex...	0.702	0.696	0.788	0.832	0.811	0.828	0.827	0.783	7.59	
85) c	Di-n-octyl pht...	0.903	0.922	1.109	1.307	1.304	1.318	1.348	1.173	16.59	

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022725.M

86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.097	1.126	1.240	1.346	1.337	1.371	1.397	1.274	9.52
88)	Benzo(b)fluora...	1.442	1.396	1.533	1.306	1.232	1.370	1.256	1.362	7.81
89)	Benzo(k)fluora...	1.274	1.240	1.098	1.214	1.165	1.040	1.074	1.158	7.70
90) C	Benzo(a)pyrene	1.113	1.083	1.133	1.119	1.060	1.080	1.060	1.093	2.68
91)	Dibenzo(a,h)an...	0.902	0.931	1.025	1.109	1.094	1.101	1.115	1.040	8.63
92)	Benzo(g,h,i)pe...	0.898	0.929	1.034	1.130	1.129	1.156	1.179	1.065	10.60

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06
Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG No.: Q1488
Instrument ID: BNA_F Calibration Date/Time: 03/05/2025 10:09
Lab File ID: BF141835.D Init. Calib. Date(s): 02/27/2025 02/27/2025
EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45
GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.252	1.263		0.9	
Benzaldehyde	0.948	0.834		-12.0	
Phenol-d6	1.630	1.613		-1.0	
Phenol	1.742	1.734		-0.5	20.0
bis(2-Chloroethyl)ether	1.328	1.232		-7.2	
2-Chlorophenol	1.355	1.354		-0.1	
2-Methylphenol	1.118	1.094		-2.1	
2,2-oxybis(1-Chloropropane)	2.016	1.771		-12.2	
Acetophenone	0.487	0.480		-1.4	
3+4-Methylphenols	1.392	1.384		-0.6	
n-Nitroso-di-n-propylamine	1.072	0.955	0.050	-10.9	
Nitrobenzene-d5	0.313	0.371		18.5	
Hexachloroethane	0.547	0.522		-4.6	
Nitrobenzene	0.335	0.375		11.9	
Isophorone	0.672	0.633		-5.8	
2-Nitrophenol	0.127	0.179		40.9	20.0
2,4-Dimethylphenol	0.247	0.248		0.4	
bis(2-Chloroethoxy)methane	0.429	0.395		-7.9	
2,4-Dichlorophenol	0.285	0.291		2.1	20.0
Naphthalene	1.028	1.017		-1.1	
4-Chloroaniline	0.377	0.378		0.3	
Hexachlorobutadiene	0.194	0.187		-3.6	20.0
Caprolactam	0.088	0.098		11.4	
4-Chloro-3-methylphenol	0.317	0.324		2.2	20.0
2-Methylnaphthalene	0.674	0.657		-2.5	
Hexachlorocyclopentadiene	0.241	0.235	0.050	-2.5	
2,4,6-Trichlorophenol	0.373	0.395		5.9	20.0
2-Fluorobiphenyl	1.247	1.230		-1.4	
2,4,5-Trichlorophenol	0.369	0.412		11.7	
1,1-Biphenyl	1.522	1.505		-1.1	
2-Chloronaphthalene	1.124	1.144		1.8	
2-Nitroaniline	0.260	0.374		43.8	
Dimethylphthalate	1.339	1.326		-1.0	
Acenaphthylene	1.685	1.726		2.4	
2,6-Dinitrotoluene	0.226	0.297		31.4	
3-Nitroaniline	0.241	0.328		36.1	
Acenaphthene	1.137	1.188		4.5	20.0
2,4-Dinitrophenol	0.089	0.149	0.050	67.4	
4-Nitrophenol	0.198	0.283	0.050	42.9	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: BNA_F Calibration Date/Time: 03/05/2025 10:09

Lab File ID: BF141835.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.654	1.670		1.0	
2,4-Dinitrotoluene	0.269	0.392		45.7	
Diethylphthalate	1.343	1.320		-1.7	
4-Chlorophenyl-phenylether	0.621	0.606		-2.4	
Fluorene	1.239	1.253		1.1	
4-Nitroaniline	0.229	0.330		44.1	
4,6-Dinitro-2-methylphenol	0.081	0.122		50.6	
n-Nitrosodiphenylamine	0.657	0.638		-2.9	20.0
2,4,6-Tribromophenol	0.188	0.210		11.7	
4-Bromophenyl-phenylether	0.234	0.223		-4.7	
Hexachlorobenzene	0.247	0.245		-0.8	
Atrazine	0.181	0.156		-13.8	
Pentachlorophenol	0.156	0.176		12.8	20.0
Phenanthrene	1.070	1.082		1.1	
Anthracene	1.072	1.088		1.5	
Carbazole	0.947	0.990		4.5	
Di-n-butylphthalate	1.200	1.131		-5.8	
Fluoranthene	1.096	1.157		5.6	20.0
Pyrene	1.732	1.722		-0.6	
Terphenyl-d14	1.236	1.190		-3.7	
Butylbenzylphthalate	0.629	0.646		2.7	
3,3-Dichlorobenzidine	0.379	0.382		0.8	
Benzo (a) anthracene	1.321	1.308		-1.0	
Chrysene	1.218	1.190		-2.3	
Bis(2-ethylhexyl)phthalate	0.783	0.807		3.1	
Di-n-octyl phthalate	1.173	1.132		-3.5	20.0
Benzo (b) fluoranthene	1.362	1.368		0.4	
Benzo (k) fluoranthene	1.158	1.057		-8.7	
Benzo (a) pyrene	1.093	1.074		-1.7	20.0
Indeno (1,2,3-cd) pyrene	1.274	1.310		2.8	
Dibenzo (a,h) anthracene	1.040	1.067		2.6	
Benzo (g,h,i) perylene	1.065	1.105		3.8	
1,2,4,5-Tetrachlorobenzene	0.578	0.577		-0.2	
1,4-Dioxane	0.568	0.571		0.5	20.0
2,3,4,6-Tetrachlorophenol	0.321	0.351		9.3	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: BNA_F Calibration Date/Time: 03/06/2025 09:52

Lab File ID: BF141858.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.252	1.263		0.9	
Benzaldehyde	0.948	0.847		-10.7	
Phenol-d6	1.630	1.584		-2.8	
Phenol	1.742	1.692		-2.9	20.0
bis(2-Chloroethyl)ether	1.328	1.246		-6.2	
2-Chlorophenol	1.355	1.366		0.8	
2-Methylphenol	1.118	1.076		-3.8	
2,2-oxybis(1-Chloropropane)	2.016	1.664		-17.5	
Acetophenone	0.487	0.490		0.6	
3+4-Methylphenols	1.392	1.366		-1.9	
n-Nitroso-di-n-propylamine	1.072	0.946	0.050	-11.8	
Nitrobenzene-d5	0.313	0.382		22.0	
Hexachloroethane	0.547	0.554		1.3	
Nitrobenzene	0.335	0.382		14.0	
Isophorone	0.672	0.635		-5.5	
2-Nitrophenol	0.127	0.188		48.0	20.0
2,4-Dimethylphenol	0.247	0.253		2.4	
bis(2-Chloroethoxy)methane	0.429	0.412		-4.0	
2,4-Dichlorophenol	0.285	0.305		7.0	20.0
Naphthalene	1.028	1.054		2.5	
4-Chloroaniline	0.377	0.374		-0.8	
Hexachlorobutadiene	0.194	0.208		7.2	20.0
Caprolactam	0.088	0.093		5.7	
4-Chloro-3-methylphenol	0.317	0.330		4.1	20.0
2-Methylnaphthalene	0.674	0.684		1.5	
Hexachlorocyclopentadiene	0.241	0.266	0.050	10.4	
2,4,6-Trichlorophenol	0.373	0.399		7.0	20.0
2-Fluorobiphenyl	1.247	1.292		3.6	
2,4,5-Trichlorophenol	0.369	0.413		11.9	
1,1-Biphenyl	1.522	1.560		2.5	
2-Chloronaphthalene	1.124	1.157		2.9	
2-Nitroaniline	0.260	0.356		36.9	
Dimethylphthalate	1.339	1.363		1.8	
Acenaphthylene	1.685	1.735		3.0	
2,6-Dinitrotoluene	0.226	0.300		32.7	
3-Nitroaniline	0.241	0.314		30.3	
Acenaphthene	1.137	1.209		6.3	20.0
2,4-Dinitrophenol	0.089	0.159	0.050	78.7	
4-Nitrophenol	0.198	0.262	0.050	32.3	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1488 SAS No.: Q1488 SDG No.: Q1488

Instrument ID: BNA_F Calibration Date/Time: 03/06/2025 09:52

Lab File ID: BF141858.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.654	1.682		1.7	
2,4-Dinitrotoluene	0.269	0.396		47.2	
Diethylphthalate	1.343	1.344		0.1	
4-Chlorophenyl-phenylether	0.621	0.640		3.1	
Fluorene	1.239	1.270		2.5	
4-Nitroaniline	0.229	0.307		34.1	
4,6-Dinitro-2-methylphenol	0.081	0.132		63.0	
n-Nitrosodiphenylamine	0.657	0.670		2.0	20.0
2,4,6-Tribromophenol	0.188	0.224		19.1	
4-Bromophenyl-phenylether	0.234	0.243		3.8	
Hexachlorobenzene	0.247	0.266		7.7	
Atrazine	0.181	0.155		-14.4	
Pentachlorophenol	0.156	0.186		19.2	20.0
Phenanthrene	1.070	1.115		4.2	
Anthracene	1.072	1.115		4.0	
Carbazole	0.947	0.988		4.3	
Di-n-butylphthalate	1.200	1.188		-1.0	
Fluoranthene	1.096	1.142		4.2	20.0
Pyrene	1.732	1.820		5.1	
Terphenyl-d14	1.236	1.301		5.3	
Butylbenzylphthalate	0.629	0.650		3.3	
3,3-Dichlorobenzidine	0.379	0.405		6.9	
Benzo (a) anthracene	1.321	1.360		3.0	
Chrysene	1.218	1.218		0.0	
Bis(2-ethylhexyl)phthalate	0.783	0.799		2.0	
Di-n-octyl phthalate	1.173	1.163		-0.9	20.0
Benzo (b) fluoranthene	1.362	1.388		1.9	
Benzo (k) fluoranthene	1.158	1.073		-7.3	
Benzo (a) pyrene	1.093	1.113		1.8	20.0
Indeno (1,2,3-cd) pyrene	1.274	1.507		18.3	
Dibenzo (a,h) anthracene	1.040	1.220		17.3	
Benzo (g,h,i) perylene	1.065	1.282		20.4	
1,2,4,5-Tetrachlorobenzene	0.578	0.607		5.0	
1,4-Dioxane	0.568	0.556		-2.1	20.0
2,3,4,6-Tetrachlorophenol	0.321	0.362		12.8	

All other compounds must meet a minimum RRF of 0.010.



SAMPLE RAW DATA

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Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Mar 06 15:52:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	157980	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	615246	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	336755	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	605607	20.000	ng	0.00
76) Chrysene-d12	14.039	240	545094	20.000	ng	-0.01
86) Perylene-d12	15.509	264	450529	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1009938	102.093	ng	0.00
7) Phenol-d6	6.498	99	1263623	98.139	ng	-0.01
23) Nitrobenzene-d5	7.439	82	805343	83.670	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	396096	125.287	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	1478775	70.411	ng	0.00
79) Terphenyl-d14	12.986	244	2007767	59.593	ng	-0.01

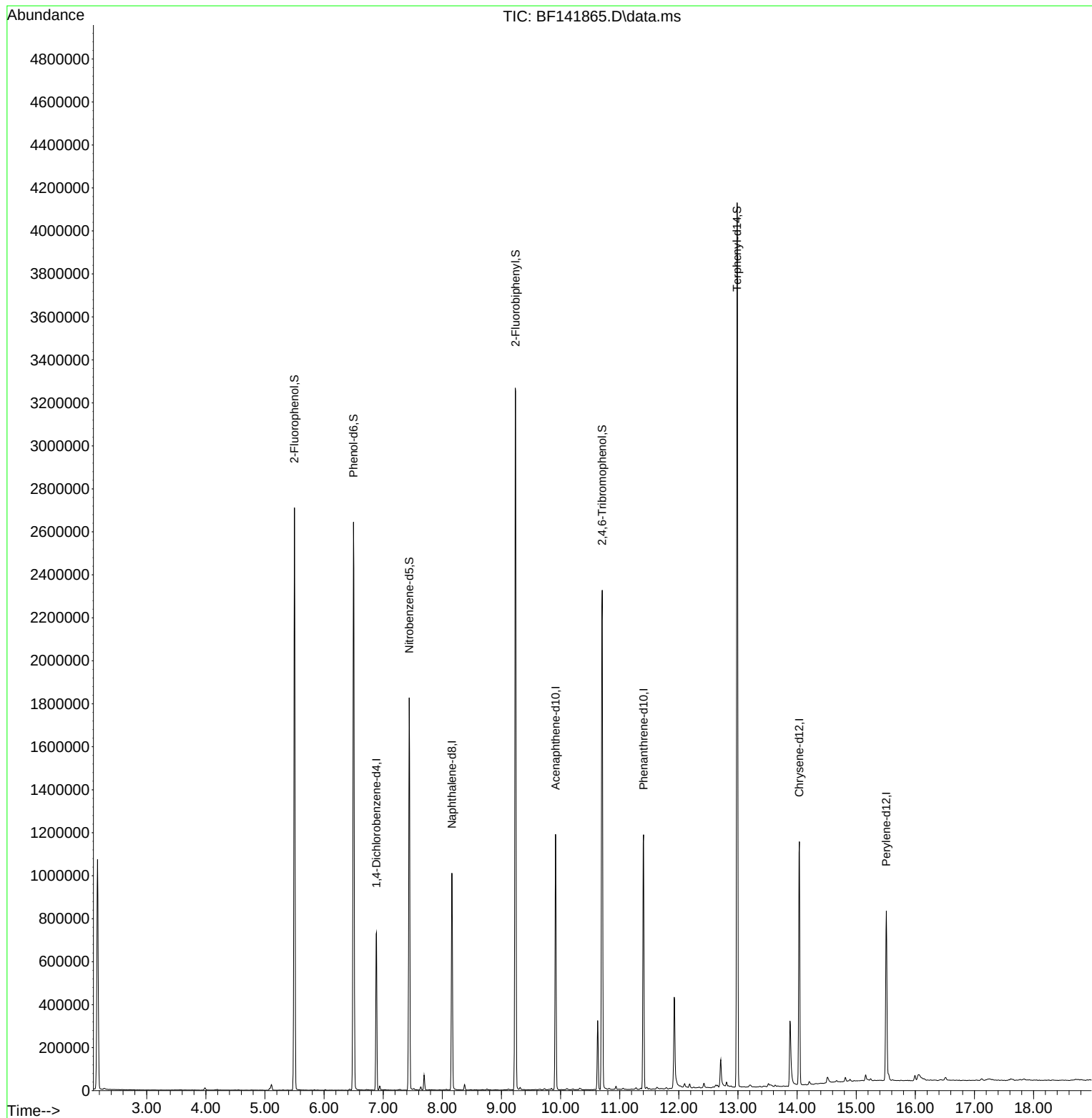
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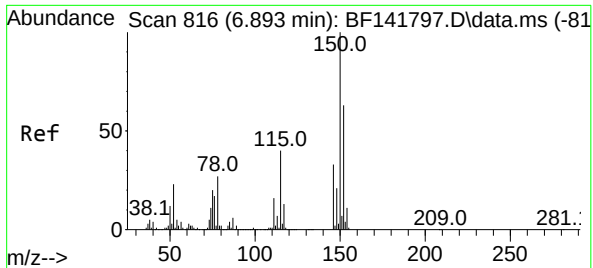
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Quant Time: Mar 06 15:52:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

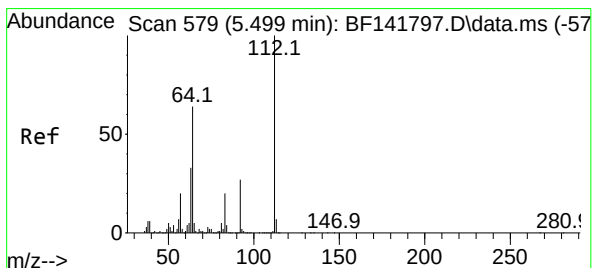
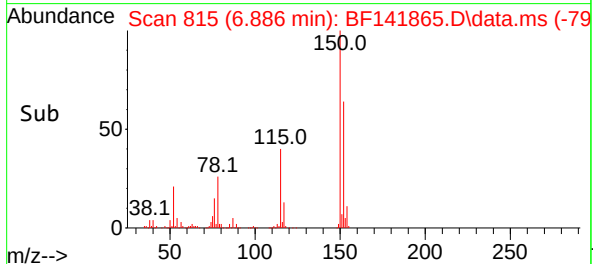
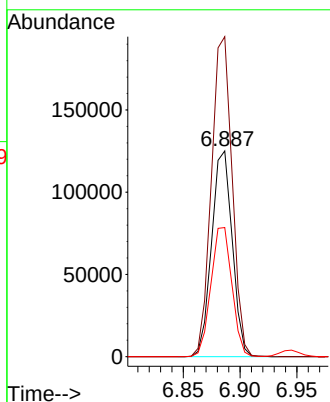
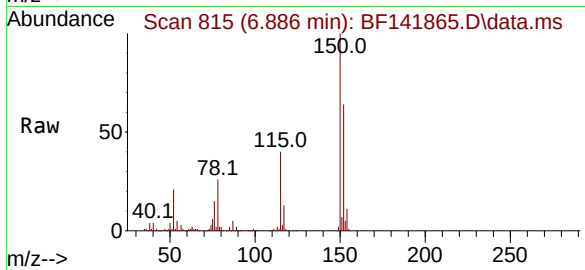




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 816
Delta R.T. -0.006 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

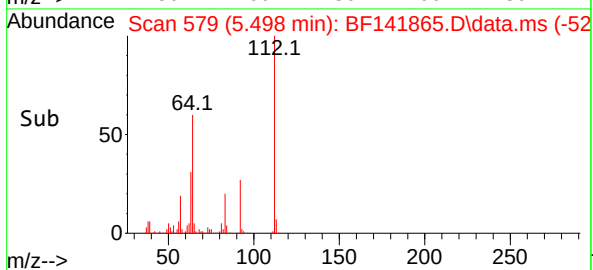
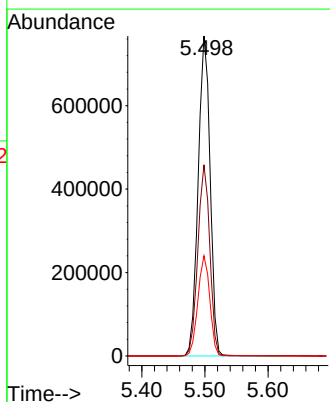
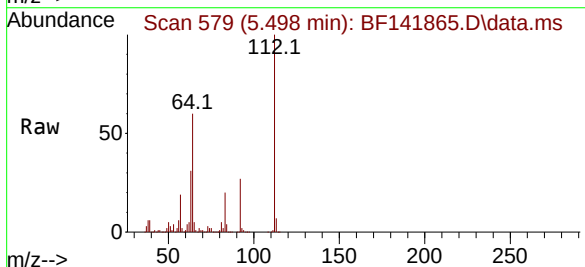
Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

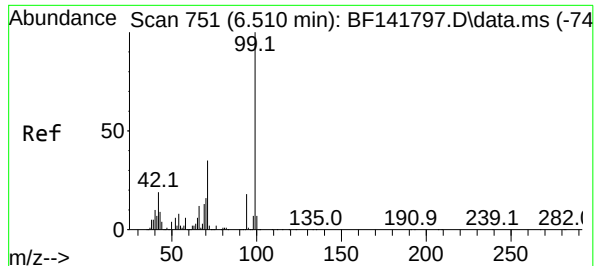
Tgt Ion:152 Resp: 157980
Ion Ratio Lower Upper
152 100
150 155.5 127.5 191.3
115 62.8 51.4 77.2



#5
2-Fluorophenol
Concen: 102.093 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Tgt Ion:112 Resp: 1009938
Ion Ratio Lower Upper
112 100
64 59.7 51.3 76.9
63 31.3 26.2 39.4

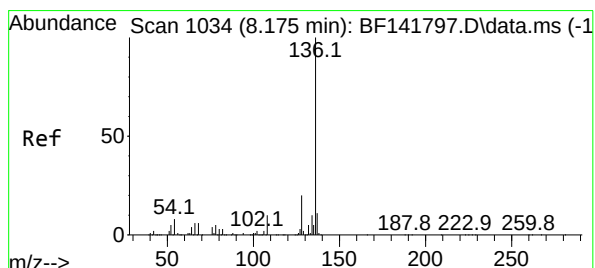
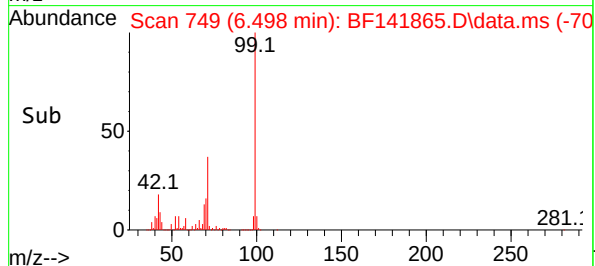
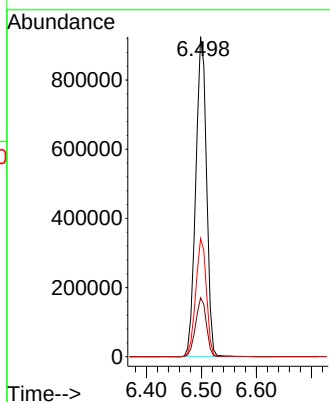
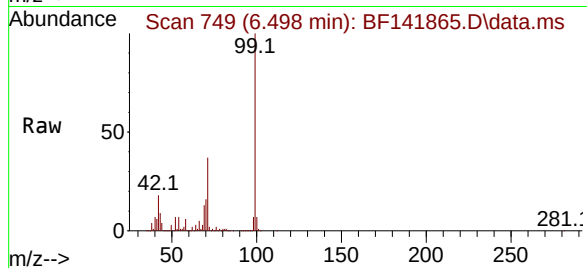




#7
Phenol-d6
Concen: 98.139 ng
RT: 6.498 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

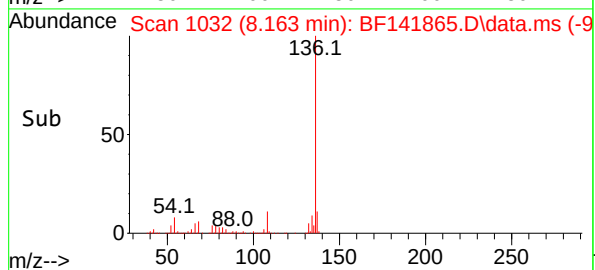
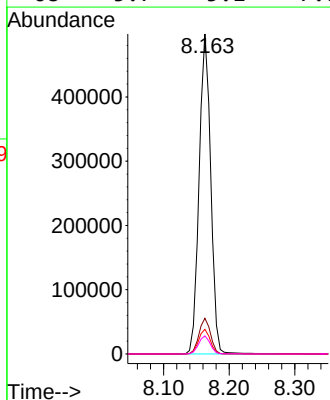
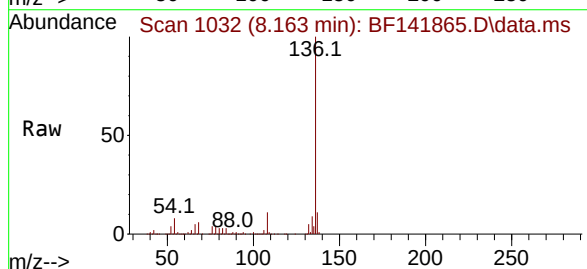
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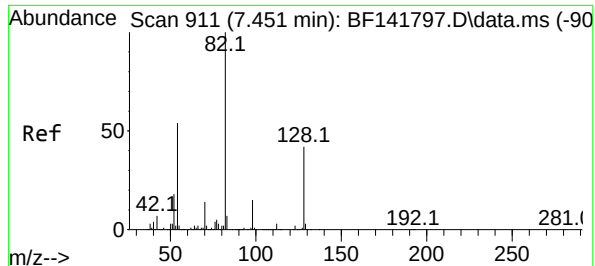
Tgt Ion: 99 Resp: 1263623
Ion Ratio Lower Upper
99 100
42 18.4 15.2 22.8
71 37.0 28.2 42.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141865.D
Acq: 06 Mar 2025 13:31

Tgt Ion: 136 Resp: 615246
Ion Ratio Lower Upper
136 100
137 11.2 8.9 13.3
54 7.7 6.9 10.3
68 5.7 5.1 7.7





#23

Nitrobenzene-d5

Concen: 83.670 ng

RT: 7.439 min Scan# 909

Delta R.T. -0.012 min

Lab File: BF141865.D

Acq: 06 Mar 2025 13:31

Instrument :

BNA_F

ClientSampleId :

ENV-101-SB01

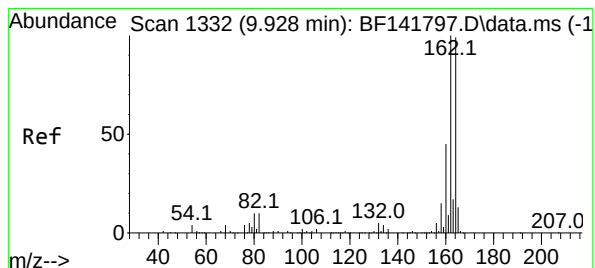
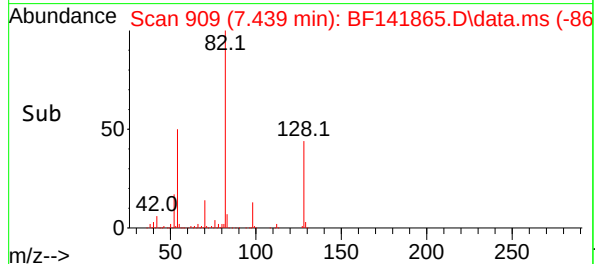
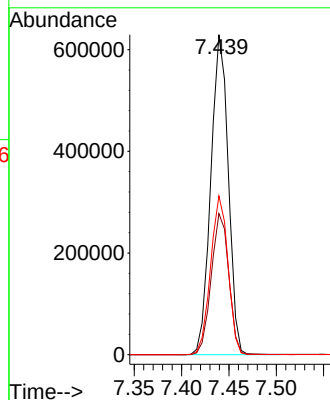
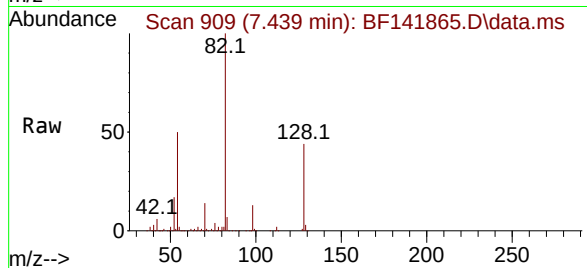
Tgt Ion: 82 Resp: 805343

Ion Ratio Lower Upper

82 100

128 44.1 33.5 50.3

54 49.6 42.7 64.1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1330

Delta R.T. -0.012 min

Lab File: BF141865.D

Acq: 06 Mar 2025 13:31

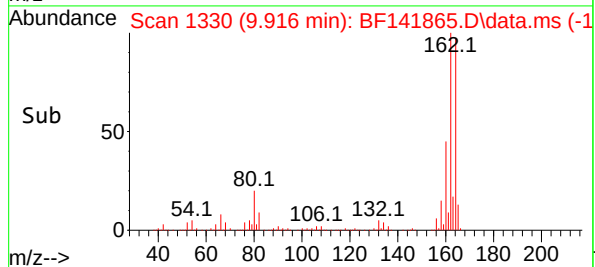
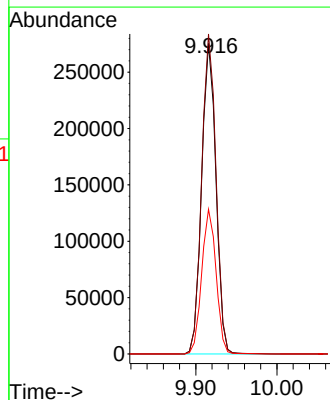
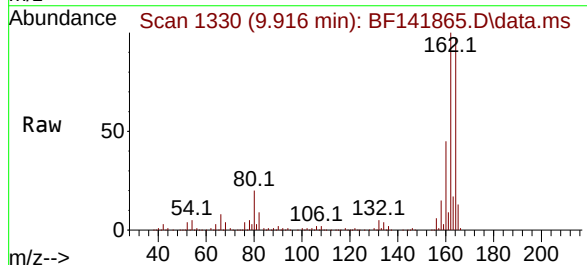
Tgt Ion: 164 Resp: 336755

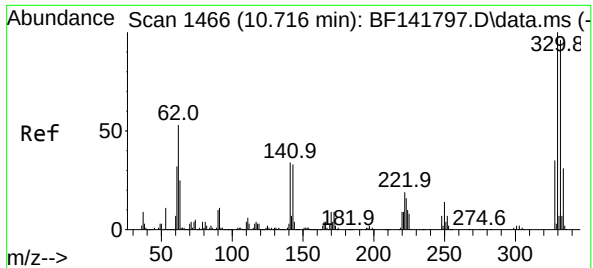
Ion Ratio Lower Upper

164 100

162 103.1 80.6 120.8

160 46.6 36.3 54.5





#42

2,4,6-Tribromophenol

Concen: 125.287 ng

RT: 10.704 min Scan# 1464

Delta R.T. -0.012 min

Lab File: BF141865.D

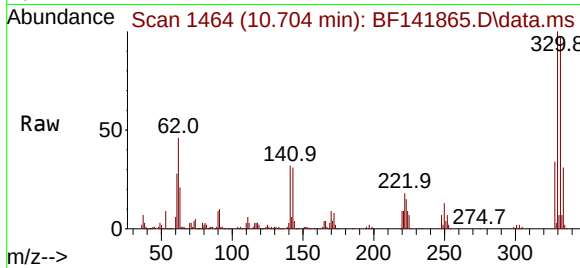
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Instrument :

BNA_F

ClientSampleId :

ENV-101-SB01



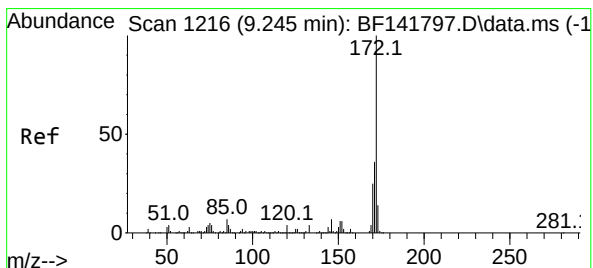
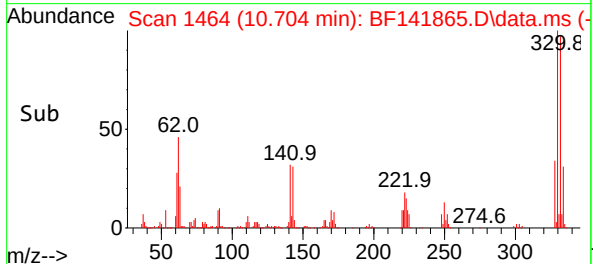
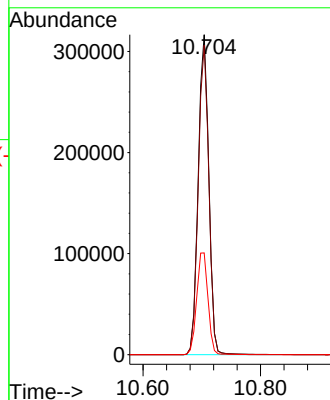
Tgt Ion:330 Resp: 396096

Ion Ratio Lower Upper

330 100

332 96.6 76.6 115.0

141 33.9 29.0 43.4



#45

2-Fluorobiphenyl

Concen: 70.411 ng

RT: 9.239 min Scan# 1215

Delta R.T. -0.006 min

Lab File: BF141865.D

Acq: 06 Mar 2025 13:31

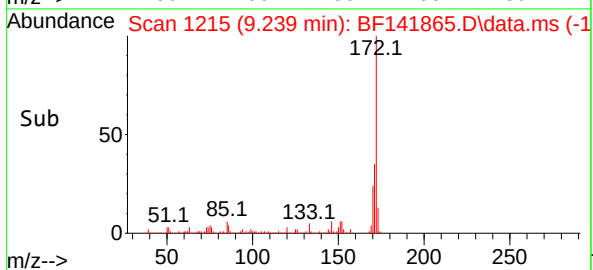
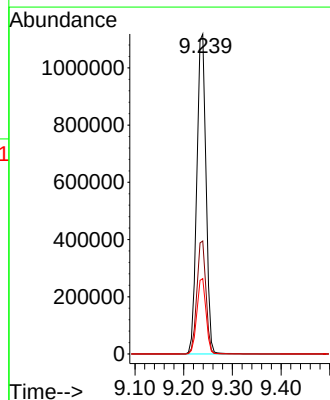
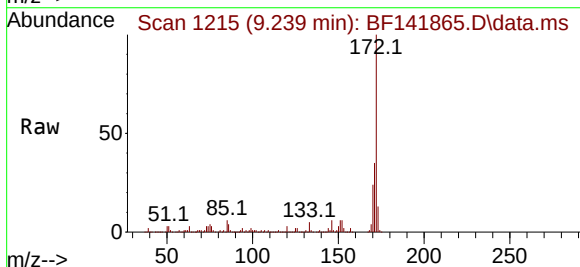
Tgt Ion:172 Resp: 1478775

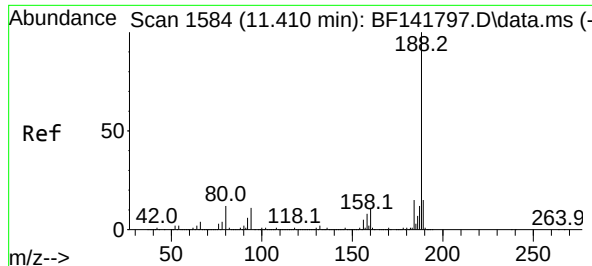
Ion Ratio Lower Upper

172 100

171 35.3 29.2 43.8

170 23.6 19.7 29.5





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.404 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF141865.D

Acq: 06 Mar 2025 13:31

Instrument :

BNA_F

ClientSampleId :

ENV-101-SB01

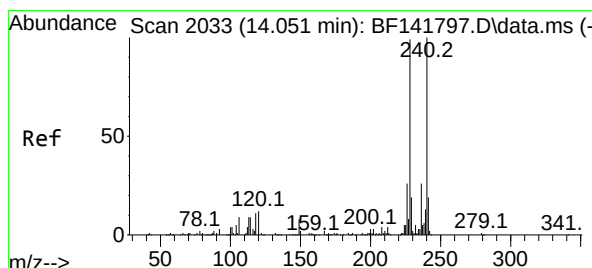
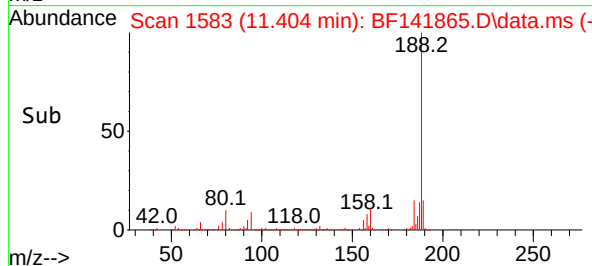
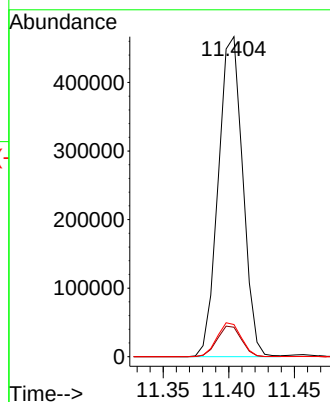
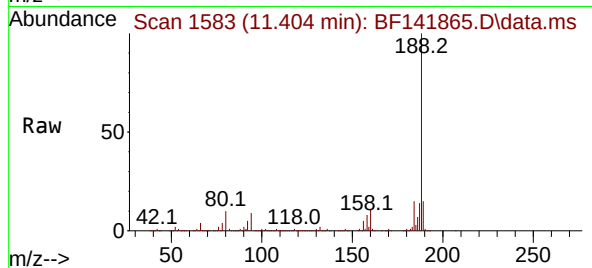
Tgt Ion:188 Resp: 605607

Ion Ratio Lower Upper

188 100

94 9.2 8.9 13.3

80 10.1 9.7 14.5



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.039 min Scan# 2031

Delta R.T. -0.012 min

Lab File: BF141865.D

Acq: 06 Mar 2025 13:31

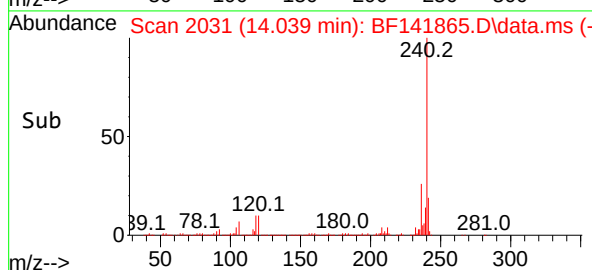
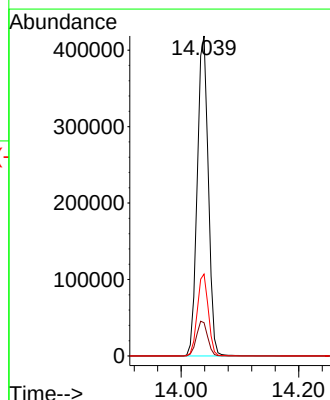
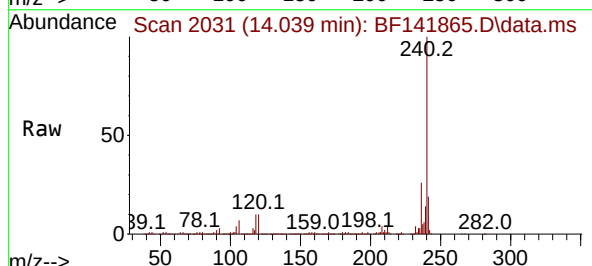
Tgt Ion:240 Resp: 545094

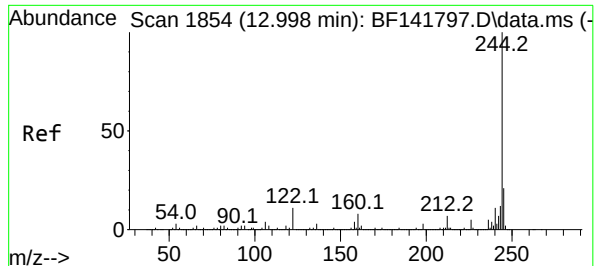
Ion Ratio Lower Upper

240 100

120 10.4 9.7 14.5

236 25.6 21.0 31.4





#79

Terphenyl-d14

Concen: 59.593 ng

RT: 12.986 min Scan# 1852

Delta R.T. -0.012 min

Lab File: BF141865.D

Acq: 06 Mar 2025 13:31

Instrument :

BNA_F

ClientSampleId :

ENV-101-SB01

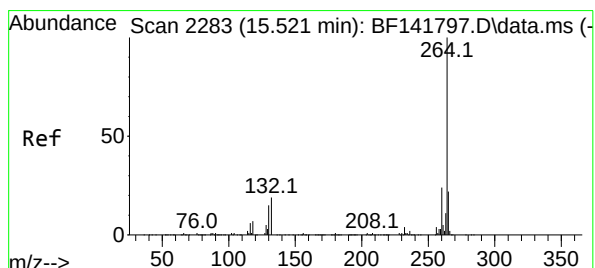
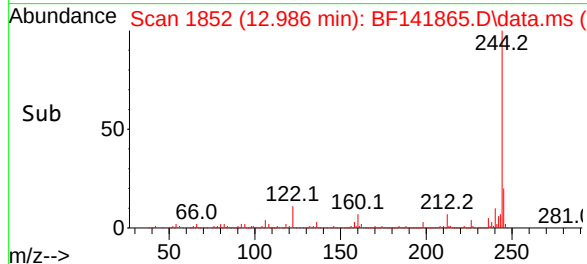
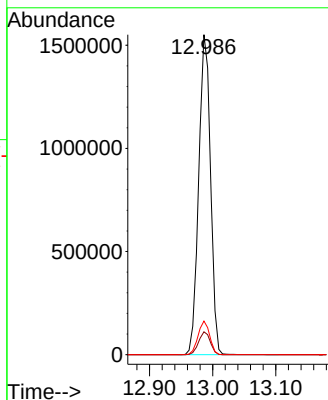
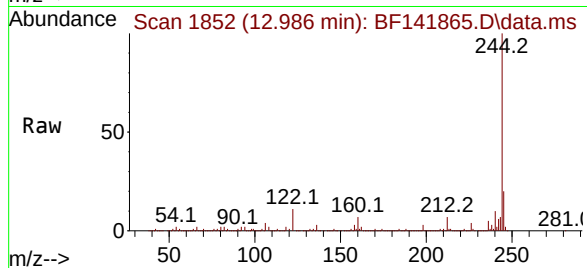
Tgt Ion:244 Resp: 2007767

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

122 10.5 9.0 13.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.509 min Scan# 2281

Delta R.T. -0.012 min

Lab File: BF141865.D

Acq: 06 Mar 2025 13:31

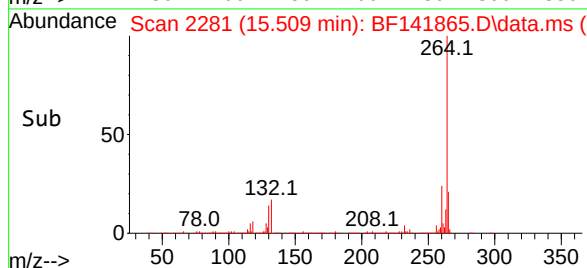
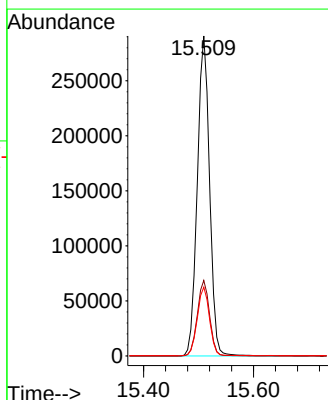
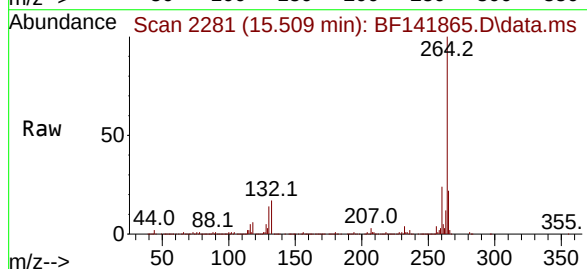
Tgt Ion:264 Resp: 450529

Ion Ratio Lower Upper

264 100

260 23.6 18.9 28.3

265 21.5 17.4 26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

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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-BF022725.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141865.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.169	5	13	25	rVB	1068969	1695361	32.04%	4.981%
2	5.110	502	513	519	rBV2	26284	53052	1.00%	0.156%
3	5.498	573	579	584	rBV	2710163	3545252	66.99%	10.416%
4	6.498	743	749	763	rBV	2642813	3654891	69.06%	10.738%
5	6.887	809	815	820	rBV	733662	942210	17.80%	2.768%
6	7.439	903	909	914	rBV	1826214	2340958	44.24%	6.878%
7	7.692	948	952	963	rVB	69475	85422	1.61%	0.251%
8	8.163	1027	1032	1048	rBV	1008753	1255348	23.72%	3.688%
9	9.233	1209	1214	1220	rBV	3265912	4324835	81.72%	12.706%
10	9.916	1325	1330	1341	rVB	1188807	1461530	27.62%	4.294%
11	10.627	1446	1451	1458	rVB	321100	396181	7.49%	1.164%
12	10.704	1458	1464	1478	rBV	2323486	3039249	57.43%	8.929%
13	11.404	1577	1583	1588	rBV	1182493	1538512	29.07%	4.520%
14	11.921	1664	1671	1687	rBV	424479	720083	13.61%	2.116%
15	12.710	1799	1805	1818	rBV	126617	225472	4.26%	0.662%
16	12.986	1846	1852	1857	rBV	4115056	5291973	100.00%	15.547%
17	13.880	1999	2004	2024	rBV	304333	602744	11.39%	1.771%
18	14.039	2025	2031	2041	rVB	1131735	1497767	28.30%	4.400%
19	14.515	2107	2112	2122	rBV4	25740	64690	1.22%	0.190%
20	15.509	2274	2281	2287	rBV	788597	1236893	23.37%	3.634%
21	16.056	2369	2374	2388	rBV5	20378	65108	1.23%	0.191%

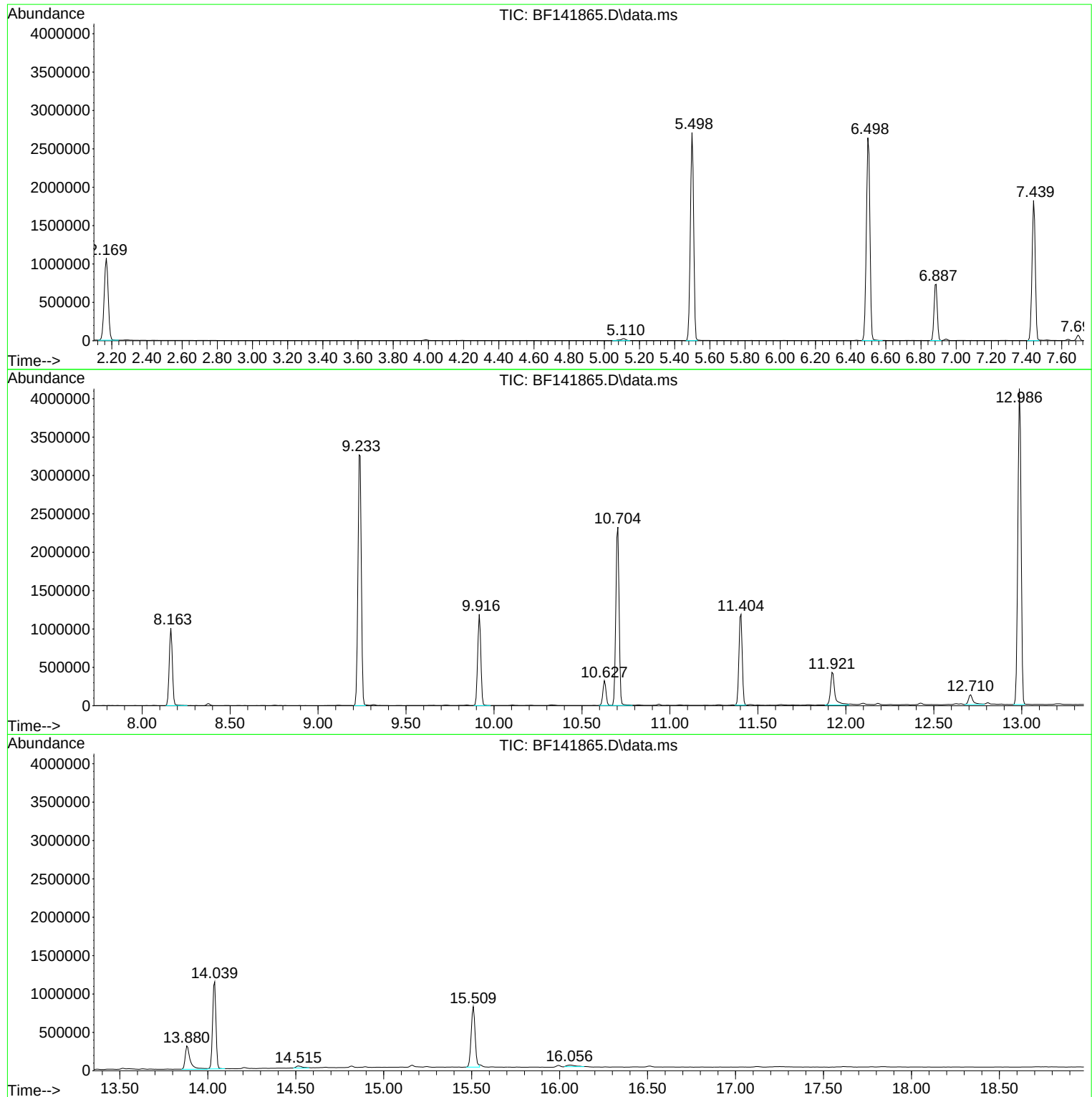
Sum of corrected areas: 34037531

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

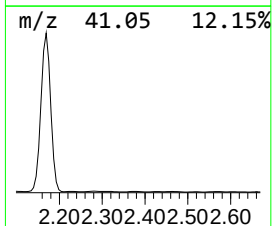
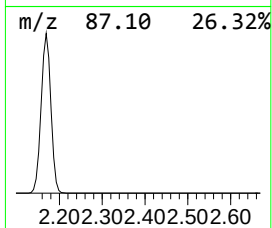
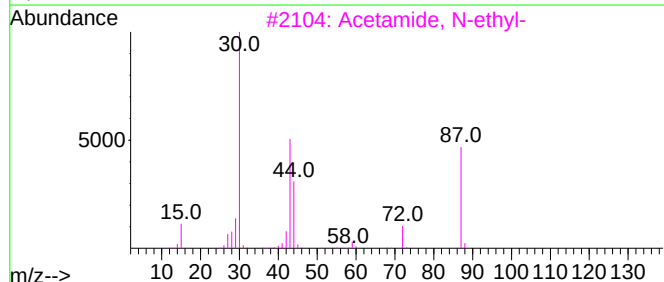
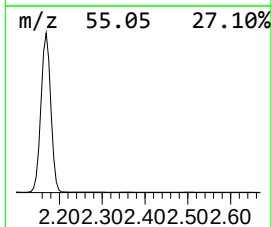
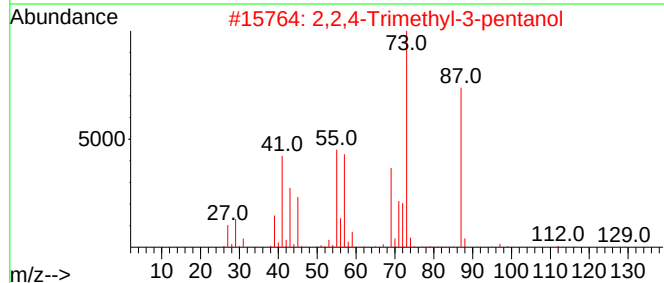
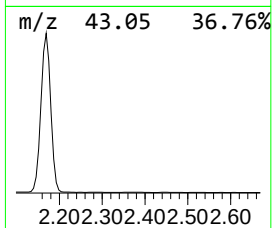
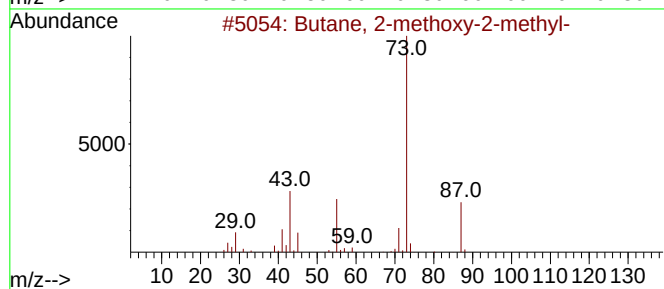
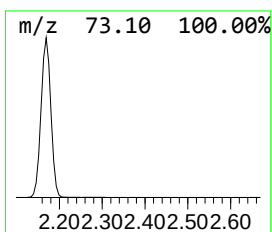
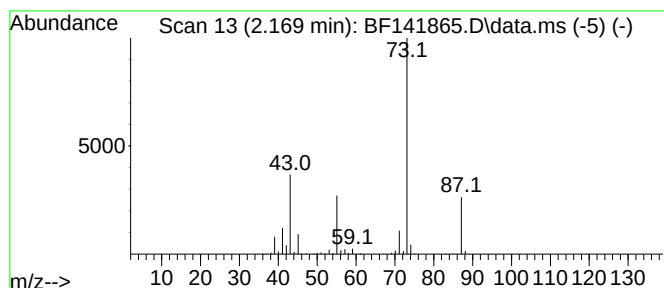
Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD			R.T.
2.169	35.99 ng	1695360	1,4-Dichlorobenzene-d4			6.886
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-		102	C6H14O	000994-05-8	78
2	2,2,4-Trimethyl-3-pentanol		130	C8H18O	005162-48-1	40
3	Acetamide, N-ethyl-		87	C4H9NO	000625-50-3	22
4	Pentane, 3-methoxy-		102	C6H14O	036839-67-5	17
5	Silane, tetramethyl-		88	C4H12Si	000075-76-3	12



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

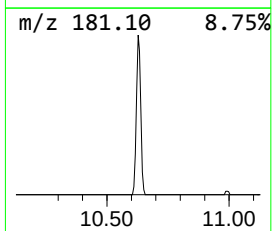
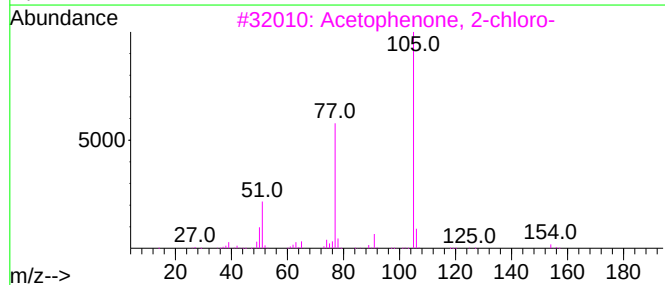
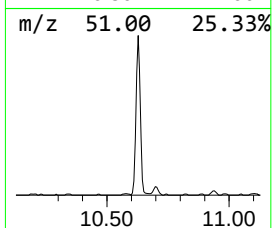
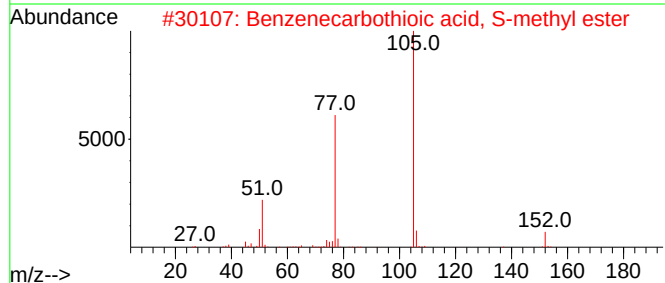
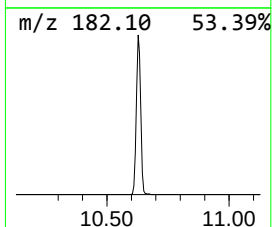
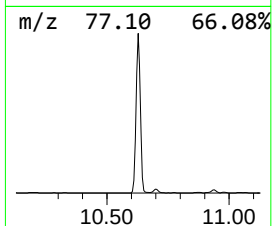
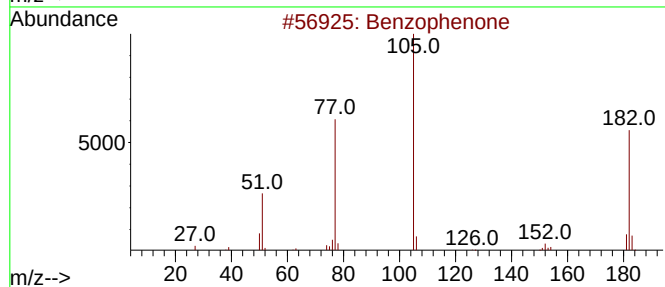
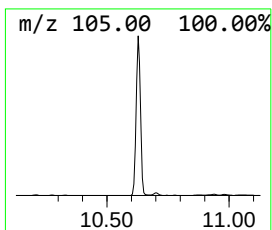
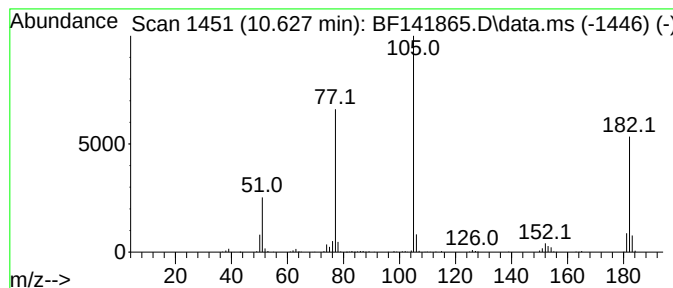
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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.
10.627	5.42 ng	396181	Acenaphthene-d10	9.916

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
3			Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4			Benzilamide	227	C14H13NO2	004746-87-6	47
5			Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

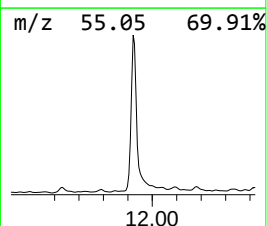
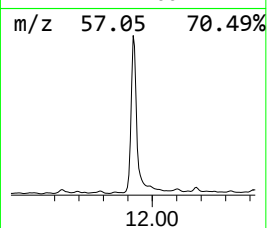
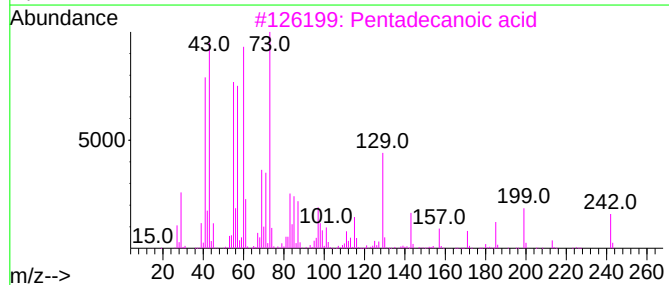
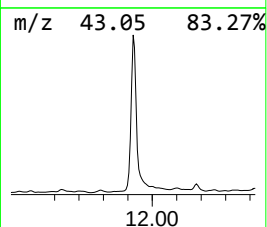
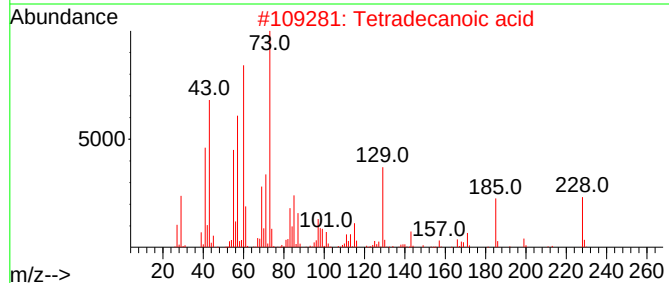
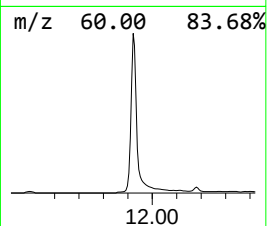
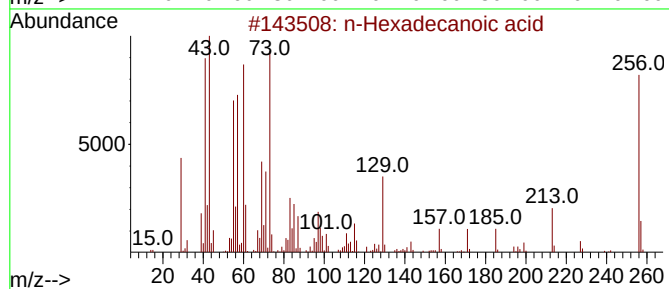
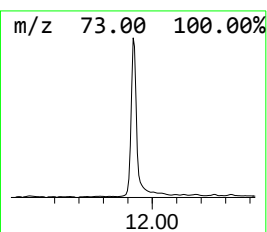
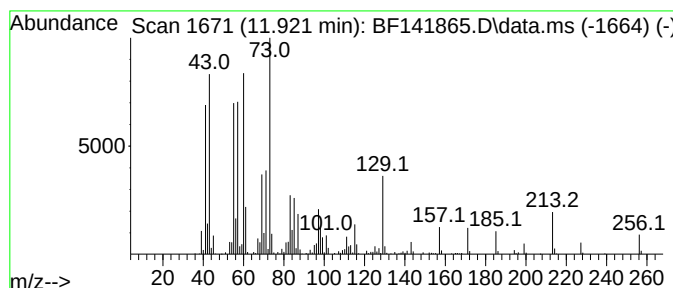
Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.922	9.36 ng	720083	Phenanthrene-d10	11.404	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
4	Tridecanoic acid	214	C13H26O2	000638-53-9	89
5	8-Methylnonanoic acid	172	C10H20O2	005963-14-4	55



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

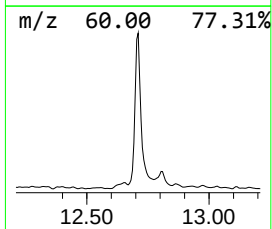
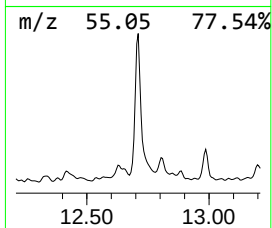
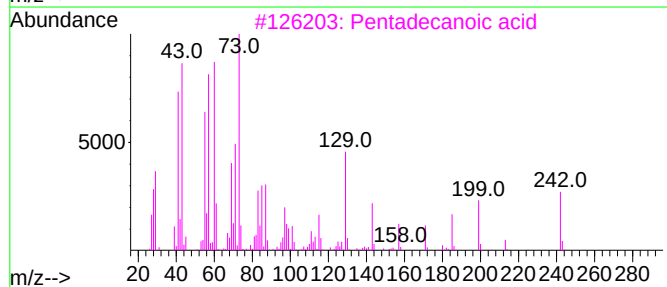
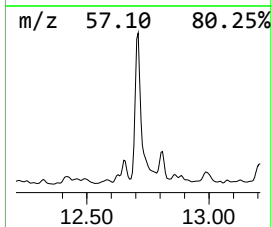
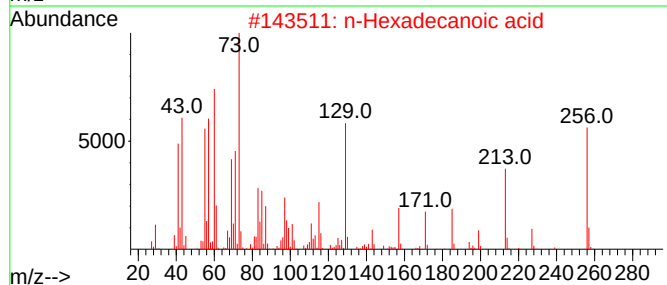
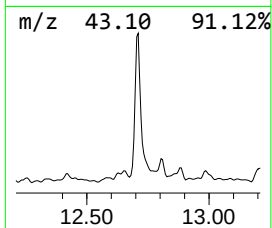
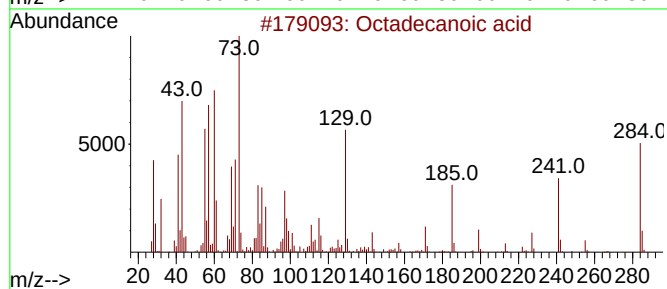
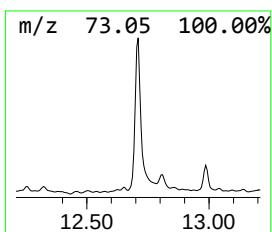
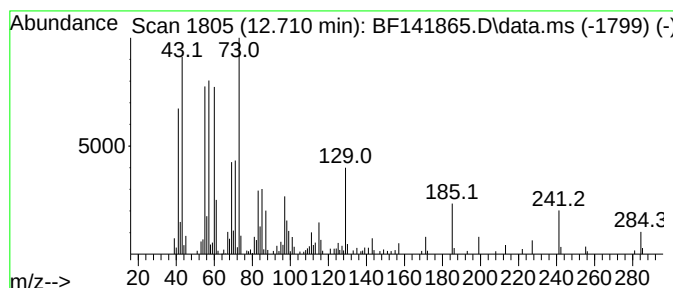
Instrument :
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ClientSampleId :
ENV-101-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Octadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.710	2.93 ng	225472	Phenanthrene-d10	11.404	
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	90
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	89
4	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	87
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	87



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

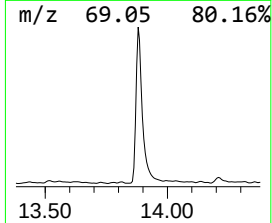
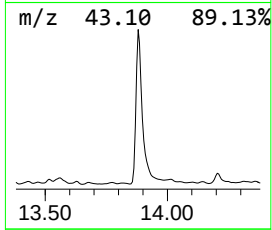
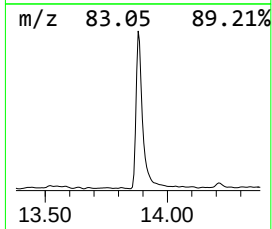
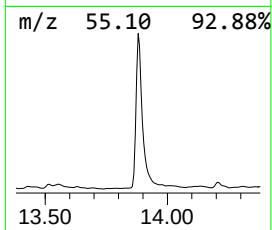
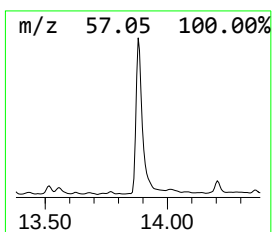
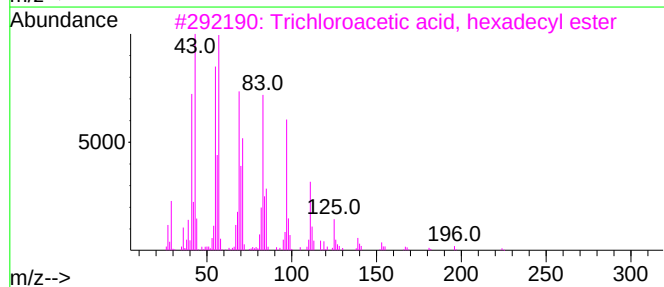
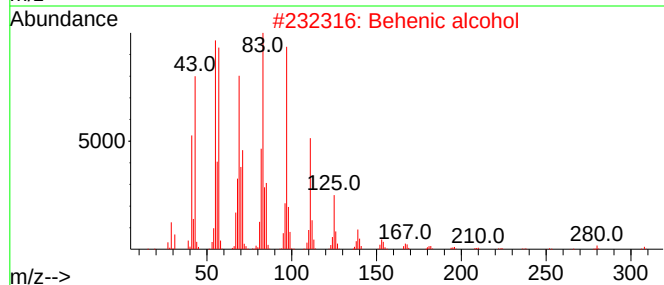
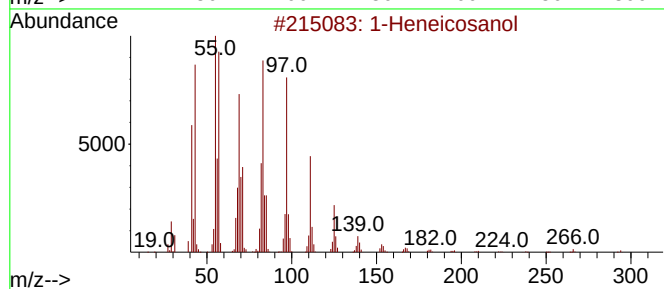
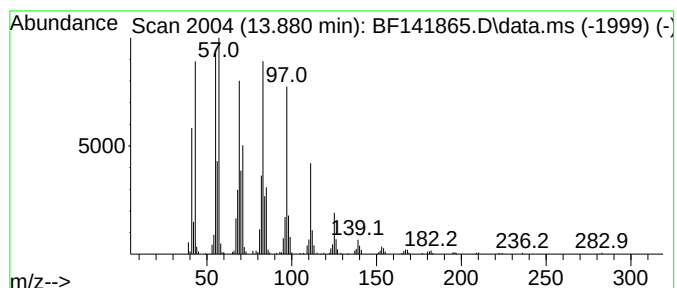
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 1-Heneicosanol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.880	8.05 ng	602744	Chrysene-d12	14.039

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1-Heneicosanol	312	C21H44O	015594-90-8	95
2			Behenic alcohol	326	C22H46O	000661-19-8	95
3			Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94
4			1-Tetracosene	336	C24H48	010192-32-2	94
5			2- Chloropropionic acid, octadec...	360	C21H41ClO2	088104-31-8	94



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141865.D
Acq On : 06 Mar 2025 13:31
Operator : RC/JU
Sample : Q1488-01
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB01

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K

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Butane, 2-metho...	2.169	36.0	ng	1695360	1	6.886	942210	20.0
Benzophenone	10.627	5.4	ng	396181	3	9.916	1461530	20.0
n-Hexadecanoic ...	11.922	9.4	ng	720083	4	11.404	1538510	20.0
Octadecanoic acid	12.710	2.9	ng	225472	4	11.404	1538510	20.0
1-Heneicosanol	13.880	8.1	ng	602744	5	14.039	1497770	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

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Quant Time: Mar 05 17:10:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	181202	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	685861	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	338318	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	507852	20.000	ng	0.00
76) Chrysene-d12	14.033	240	419765	20.000	ng	-0.02
86) Perylene-d12	15.509	264	463489	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1128338	99.444	ng	0.00
7) Phenol-d6	6.498	99	1397485	94.626	ng	-0.01
23) Nitrobenzene-d5	7.439	82	871593	81.230	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	305614	96.220	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	1472330	69.781	ng	0.00
79) Terphenyl-d14	12.986	244	1233851	47.557	ng	-0.01

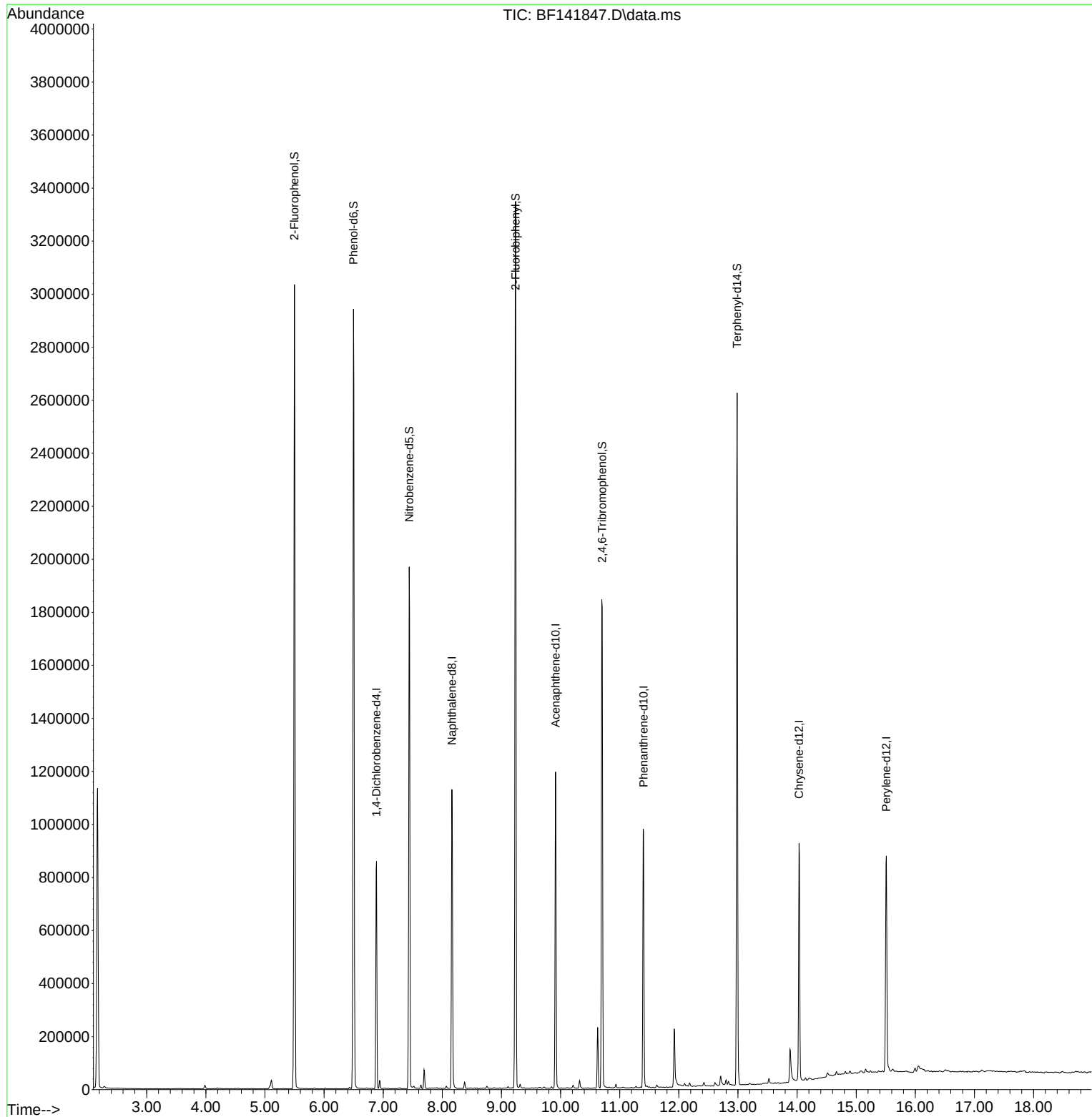
Target Compounds	Qvalue

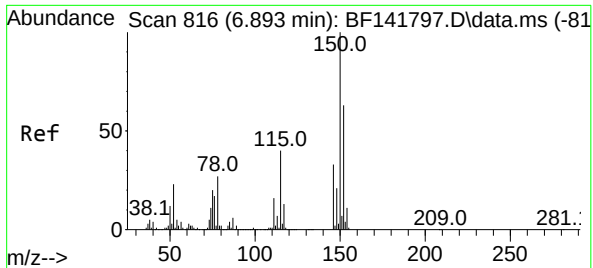
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Quant Time: Mar 05 17:10:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

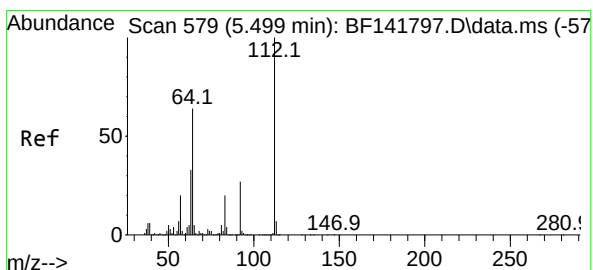
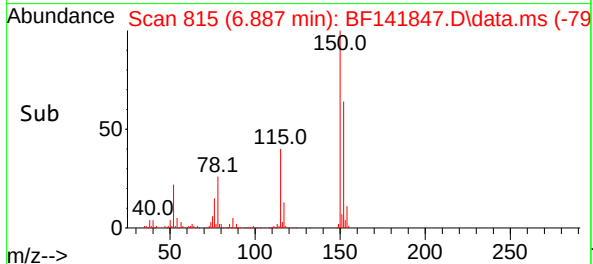
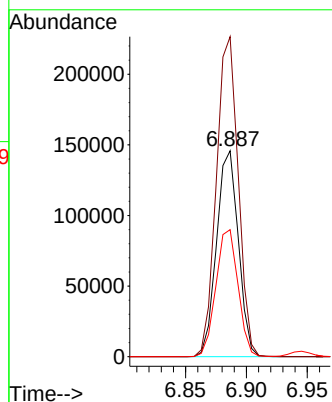
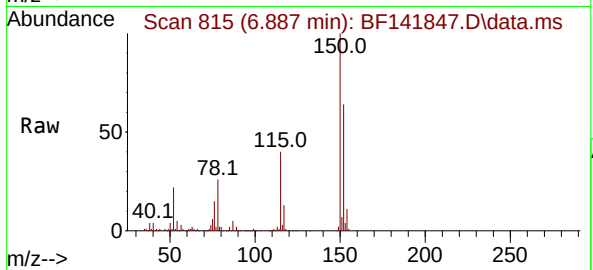




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 816
Delta R.T. -0.006 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

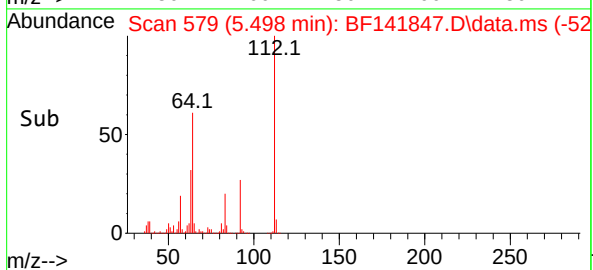
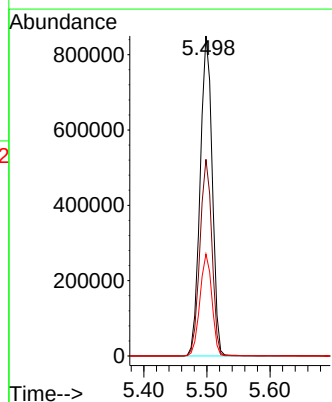
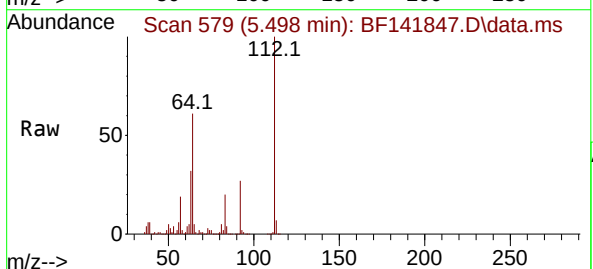
Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

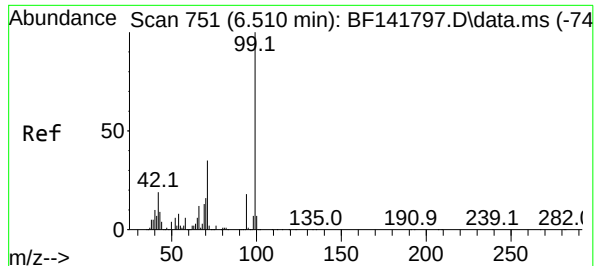
Tgt Ion:152 Resp: 181202
Ion Ratio Lower Upper
152 100
150 155.4 127.5 191.3
115 61.7 51.4 77.2



#5
2-Fluorophenol
Concen: 99.444 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Tgt Ion:112 Resp: 1128338
Ion Ratio Lower Upper
112 100
64 61.4 51.3 76.9
63 31.9 26.2 39.4

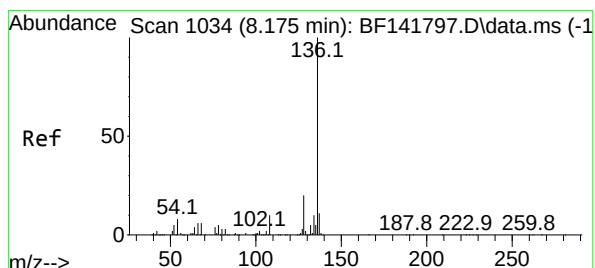
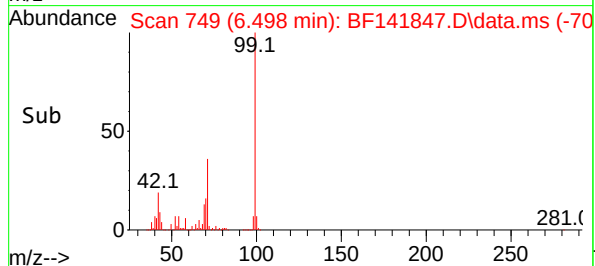
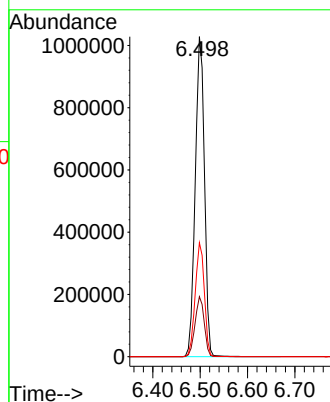
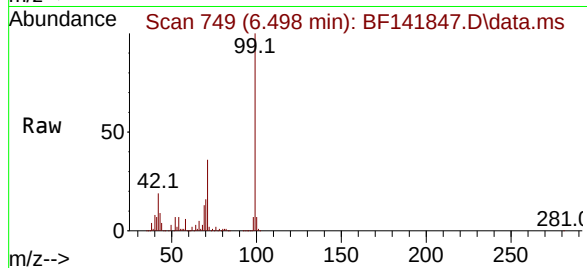




#7
Phenol-d6
Concen: 94.626 ng
RT: 6.498 min Scan# 749
Delta R.T. -0.012 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

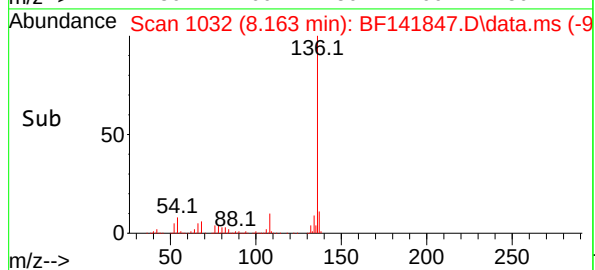
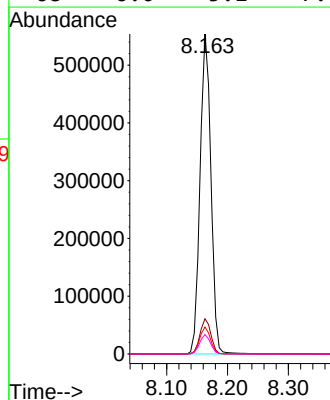
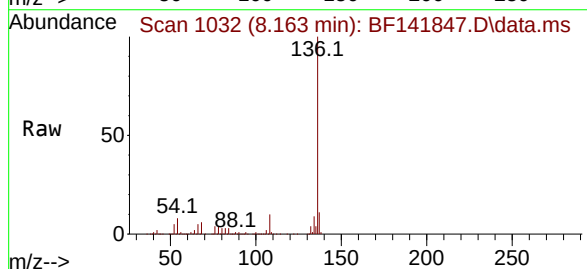
Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

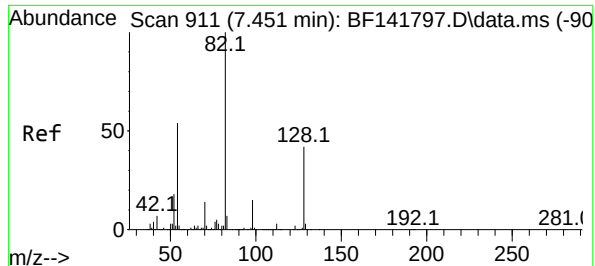
Tgt Ion: 99 Resp: 1397485
Ion Ratio Lower Upper
99 100
42 18.7 15.2 22.8
71 35.6 28.2 42.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Tgt Ion: 136 Resp: 685861
Ion Ratio Lower Upper
136 100
137 11.0 8.9 13.3
54 8.4 6.9 10.3
68 6.0 5.1 7.7





#23

Nitrobenzene-d5

Concen: 81.230 ng

RT: 7.439 min Scan# 909

Delta R.T. -0.012 min

Lab File: BF141847.D

Acq: 05 Mar 2025 16:50

Instrument :

BNA_F

ClientSampleId :

ENV-101-SB02

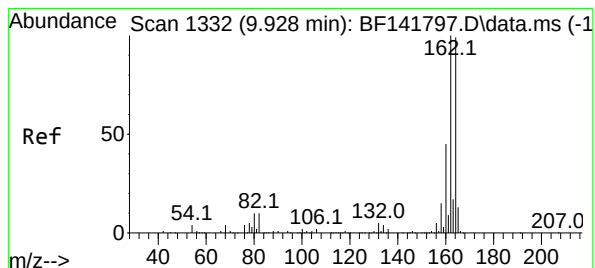
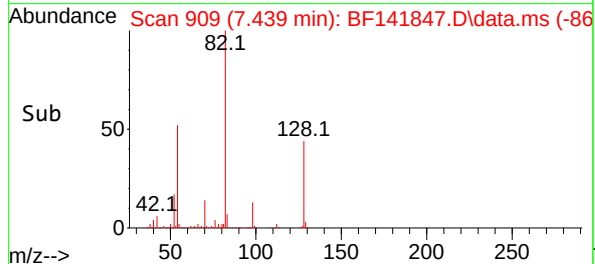
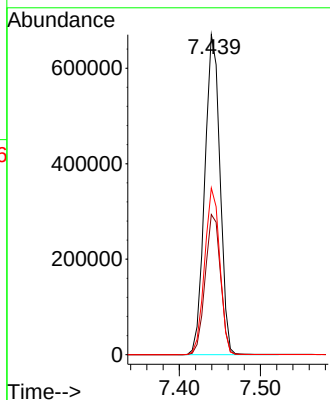
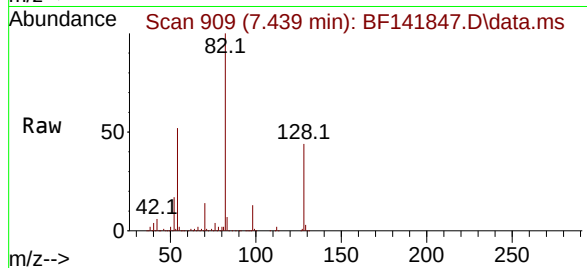
Tgt Ion: 82 Resp: 871593

Ion Ratio Lower Upper

82 100

128 43.8 33.5 50.3

54 52.1 42.7 64.1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1330

Delta R.T. -0.012 min

Lab File: BF141847.D

Acq: 05 Mar 2025 16:50

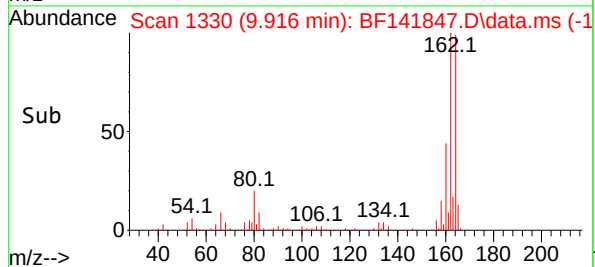
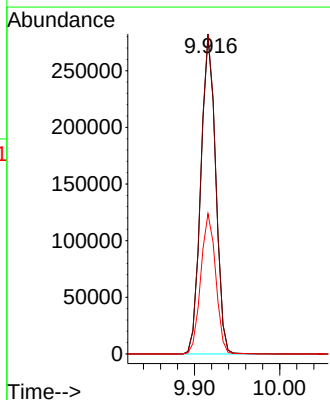
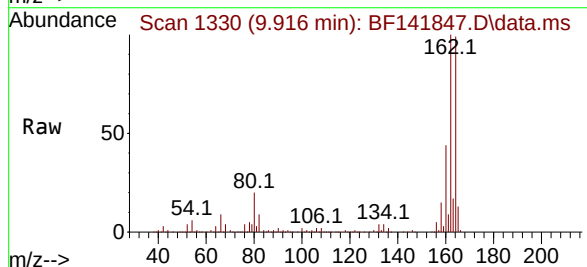
Tgt Ion: 164 Resp: 338318

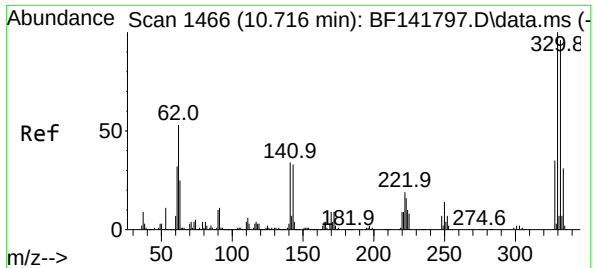
Ion Ratio Lower Upper

164 100

162 101.1 80.6 120.8

160 44.3 36.3 54.5

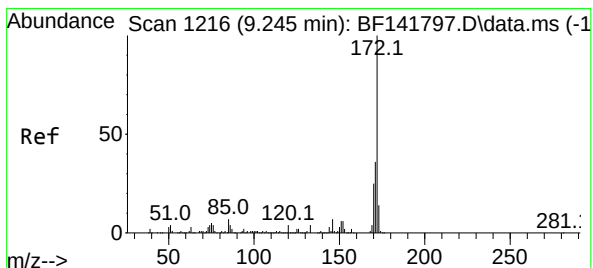
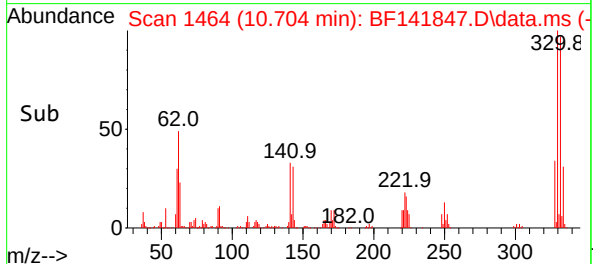
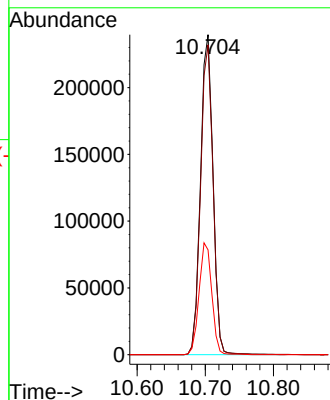
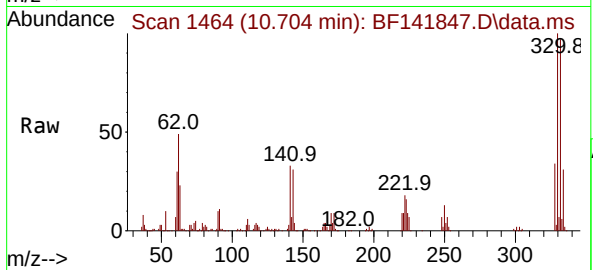




#42
2,4,6-Tribromophenol
Concen: 96.220 ng
RT: 10.704 min Scan# 1464
Delta R.T. -0.012 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

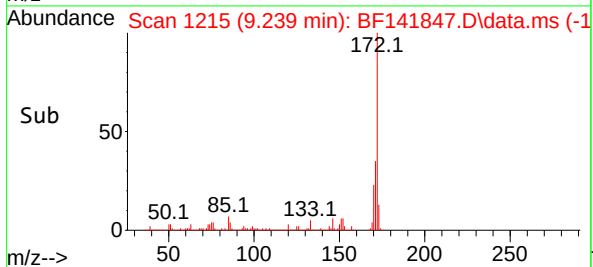
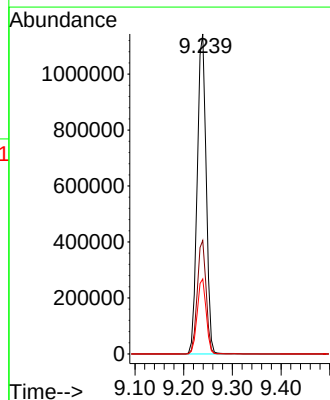
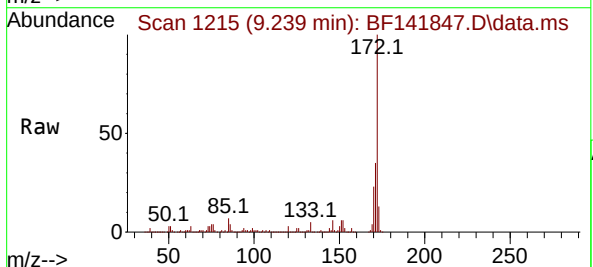
Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

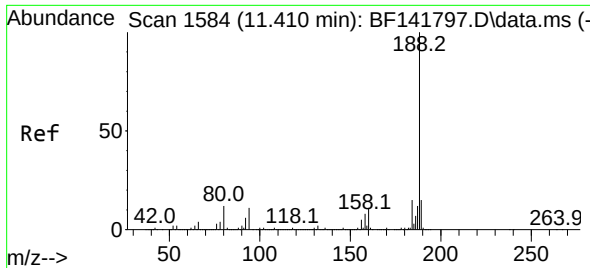
Tgt Ion:330 Resp: 305614
Ion Ratio Lower Upper
330 100
332 96.8 76.6 115.0
141 35.5 29.0 43.4



#45
2-Fluorobiphenyl
Concen: 69.781 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Tgt Ion:172 Resp: 1472330
Ion Ratio Lower Upper
172 100
171 35.4 29.2 43.8
170 23.4 19.7 29.5

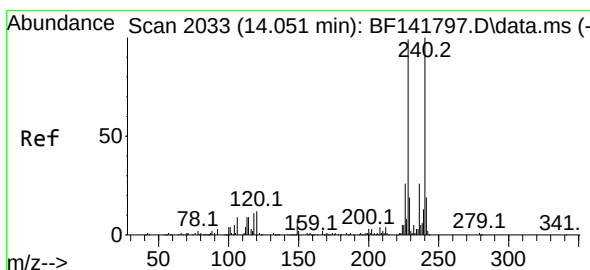
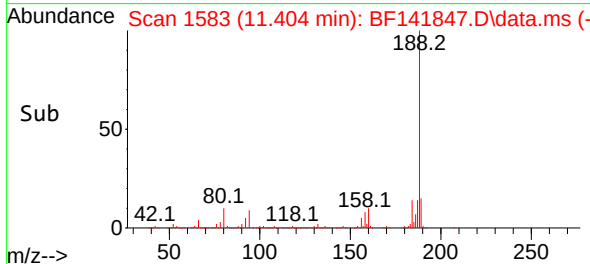
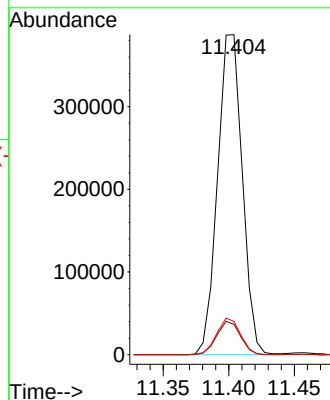
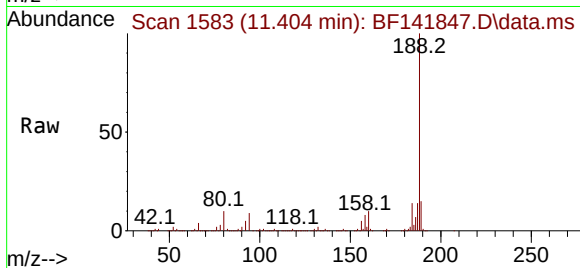




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

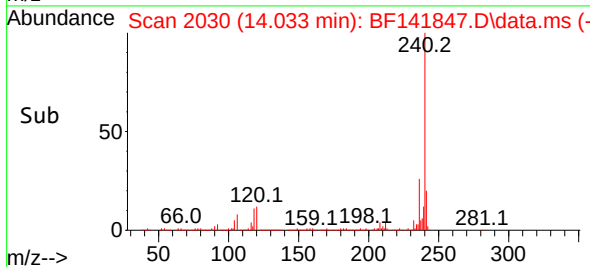
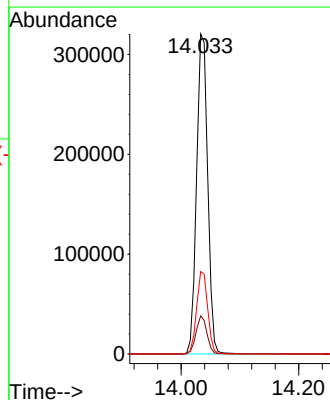
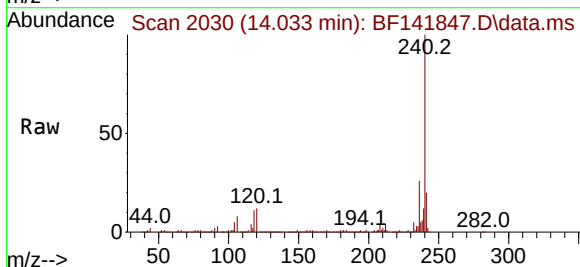
Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

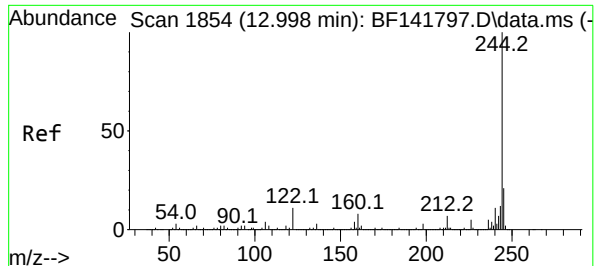
Tgt Ion:188 Resp: 507852
Ion Ratio Lower Upper
188 100
94 9.5 8.9 13.3
80 10.4 9.7 14.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.018 min
Lab File: BF141847.D
Acq: 05 Mar 2025 16:50

Tgt Ion:240 Resp: 419765
Ion Ratio Lower Upper
240 100
120 11.9 9.7 14.5
236 25.8 21.0 31.4





#79

Terphenyl-d14

Concen: 47.557 ng

RT: 12.986 min Scan# 1852

Delta R.T. -0.012 min

Lab File: BF141847.D

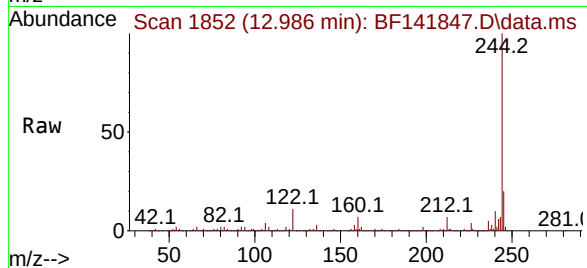
Acq: 05 Mar 2025 16:50

Instrument :

BNA_F

ClientSampleId :

ENV-101-SB02



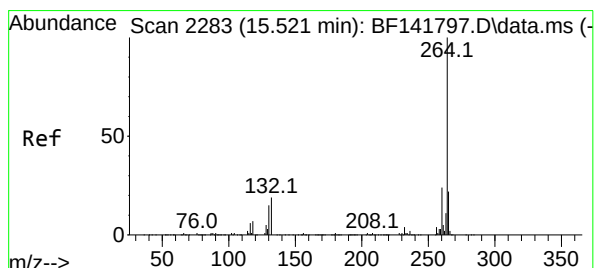
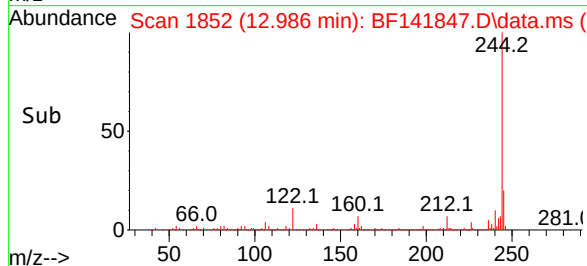
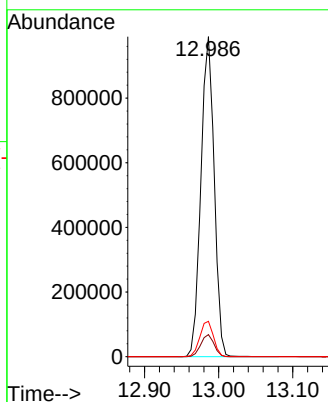
Tgt Ion:244 Resp: 1233851

Ion Ratio Lower Upper

244 100

212 6.9 6.0 9.0

122 11.1 9.0 13.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.509 min Scan# 2281

Delta R.T. -0.012 min

Lab File: BF141847.D

Acq: 05 Mar 2025 16:50

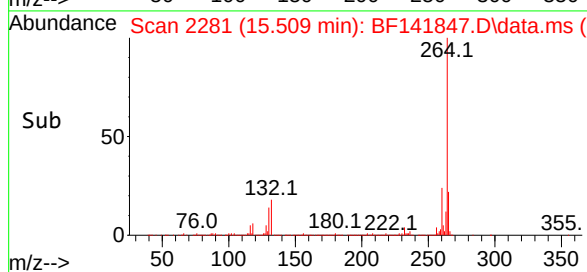
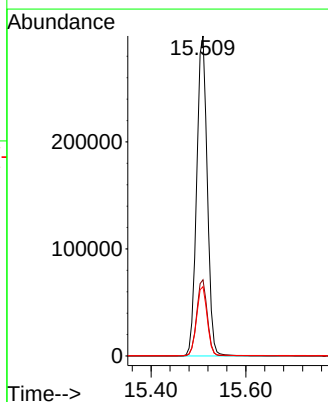
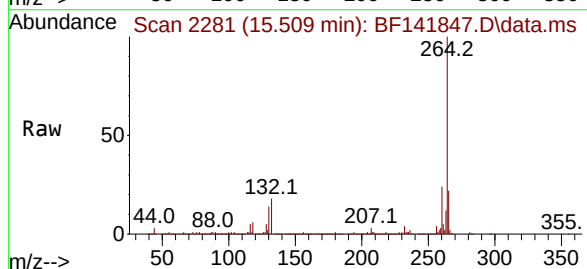
Tgt Ion:264 Resp: 463489

Ion Ratio Lower Upper

264 100

260 23.8 18.9 28.3

265 21.7 17.4 26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
 Data File : BF141847.D
 Acq On : 05 Mar 2025 16:50
 Operator : RC/JU
 Sample : Q1488-03
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ENV-101-SB02

A
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K

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-BF022725.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141847.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.169	5	13	27	rVB	1129590	1806638	41.77%	5.755%
2	5.110	502	513	523	rVB2	33009	68671	1.59%	0.219%
3	5.498	573	579	584	rBV	3033031	3989276	92.23%	12.708%
4	6.498	743	749	762	rBV	2939869	4050365	93.64%	12.903%
5	6.887	809	815	820	rBV	857134	1084610	25.08%	3.455%
6	7.439	903	909	914	rBV	1968396	2559468	59.18%	8.154%
7	7.692	947	952	964	rBV	70869	90277	2.09%	0.288%
8	8.163	1027	1032	1048	rVB	1127831	1419371	32.82%	4.522%
9	9.239	1209	1215	1220	rBV	3343526	4325237	100.00%	13.779%
10	9.916	1325	1330	1335	rBV	1191968	1445006	33.41%	4.603%
11	10.627	1446	1451	1458	rBV	228817	279175	6.45%	0.889%
12	10.698	1458	1463	1474	rBV	1841675	2449564	56.63%	7.803%
13	11.398	1577	1582	1590	rBV	974752	1289131	29.80%	4.107%
14	11.921	1665	1671	1685	rBV2	220665	365902	8.46%	1.166%
15	12.710	1800	1805	1814	rBV2	34320	61818	1.43%	0.197%
16	12.986	1846	1852	1863	rBV	2610815	3331388	77.02%	10.613%
17	13.880	1999	2004	2021	rBV	124214	269448	6.23%	0.858%
18	14.033	2024	2030	2041	rVB	893997	1200346	27.75%	3.824%
19	15.509	2274	2281	2294	rBV	814257	1305310	30.18%	4.158%

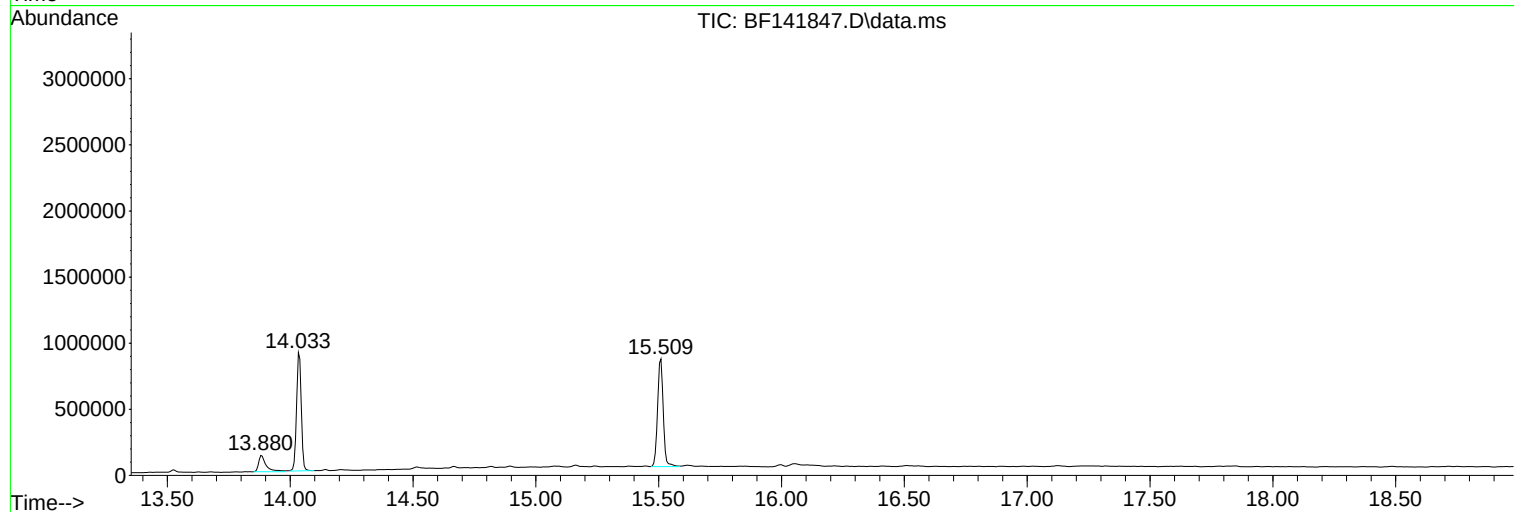
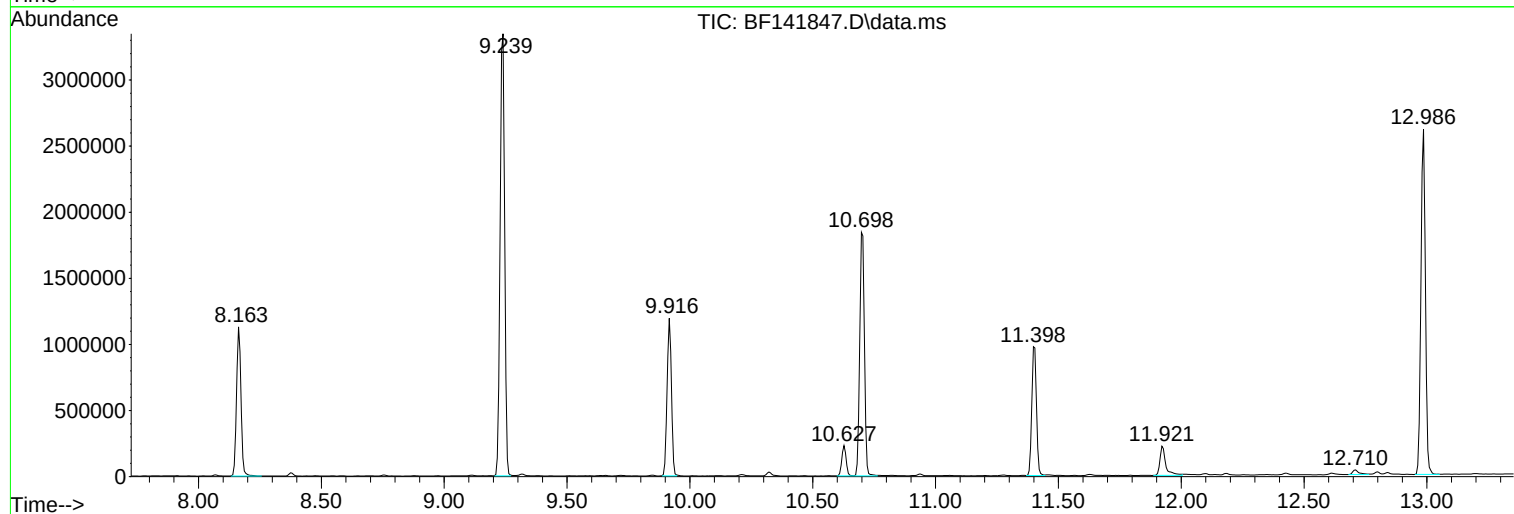
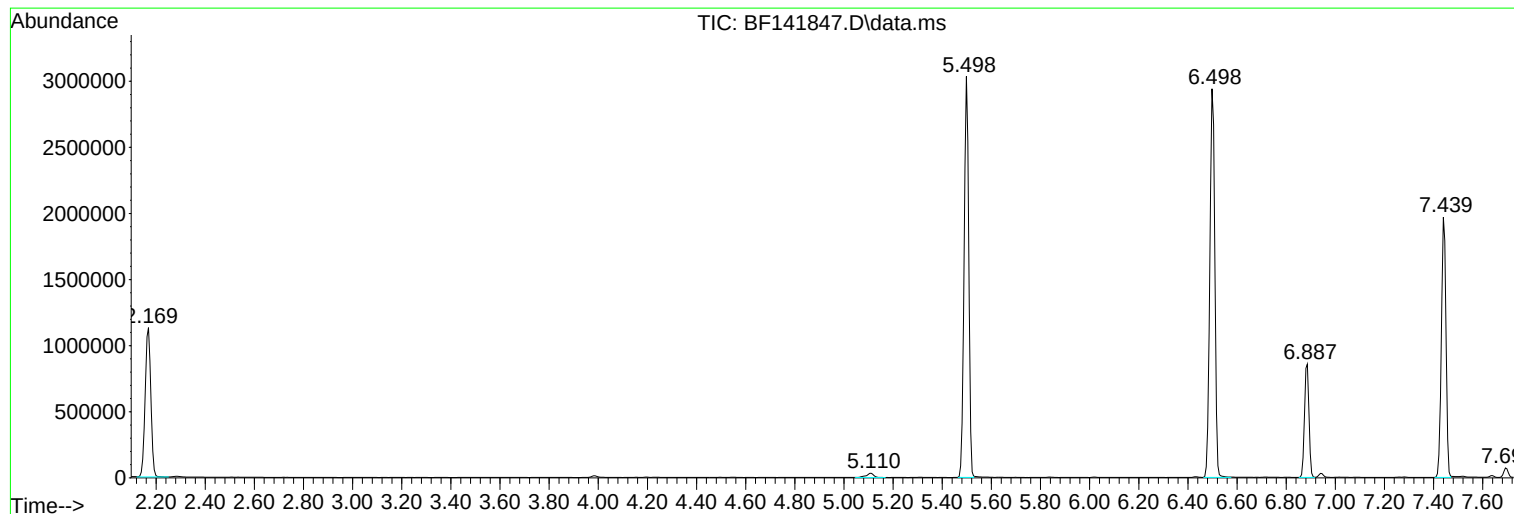
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

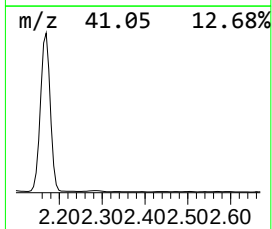
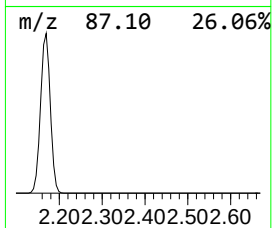
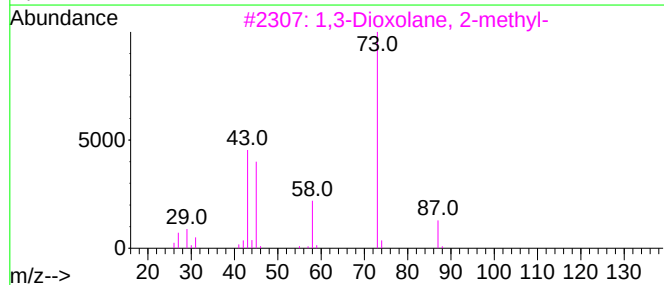
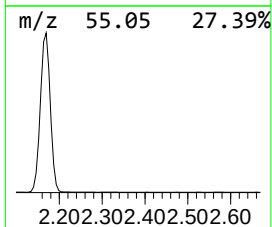
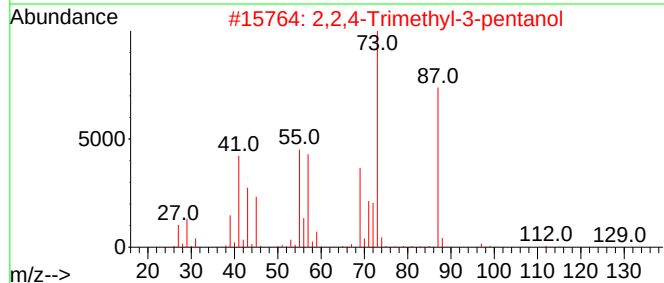
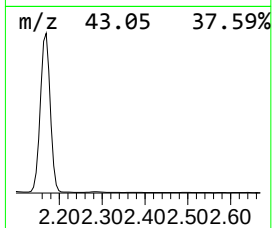
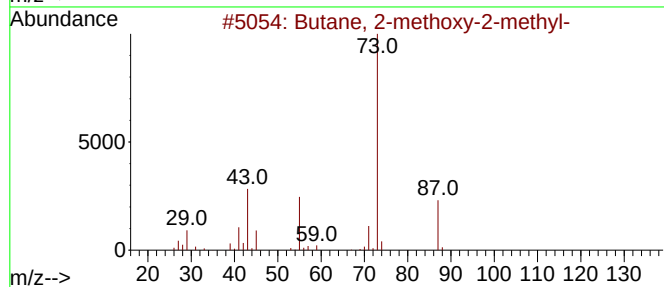
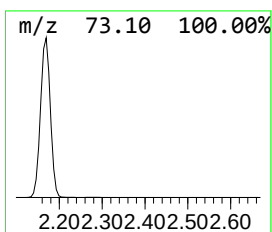
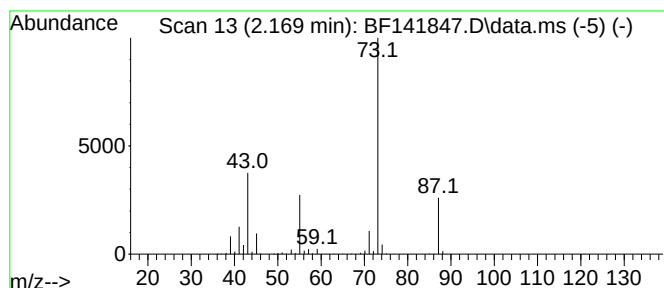
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.169	33.31 ng	1806640	1,4-Dichlorobenzene-d4	6.887

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2			2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3			1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4			Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
5			Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

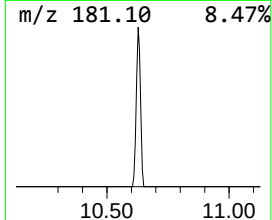
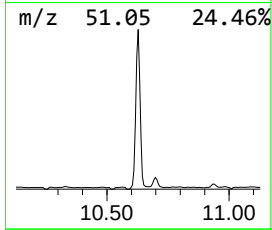
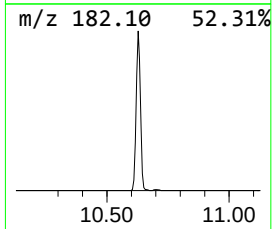
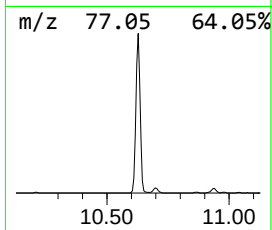
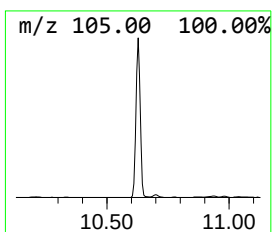
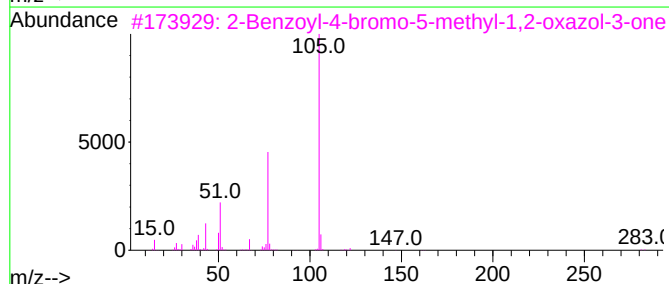
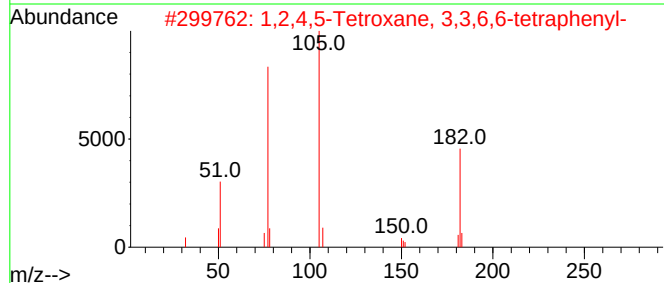
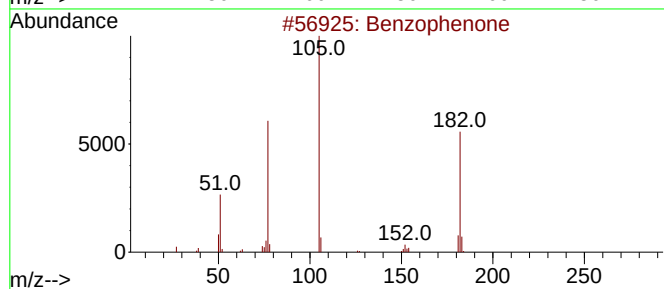
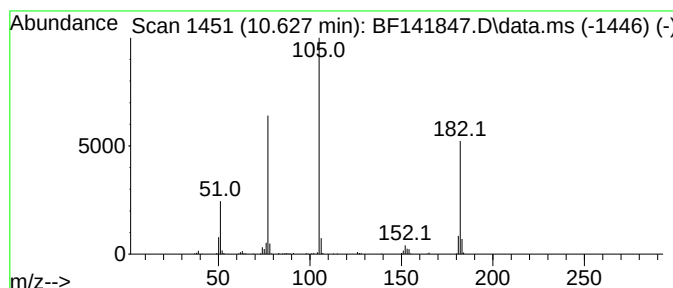
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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.
10.628	3.86 ng	279175	Acenaphthene-d10	9.916

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			1,2,4,5-Tetroxane, 3,3,6,6-tetra...	396	C26H20O4	016204-36-7	78
3			2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	47
4			1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	47
5			Vinyl benzoate	148	C9H8O2	000769-78-8	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

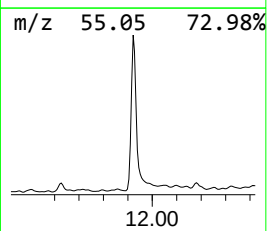
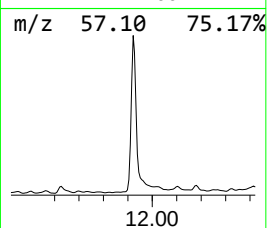
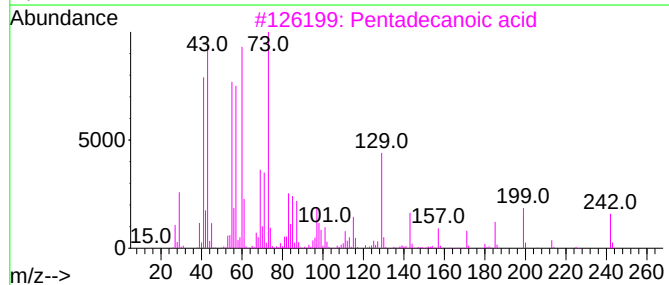
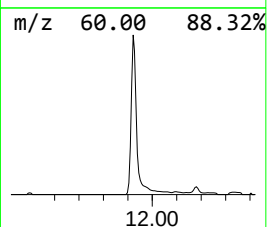
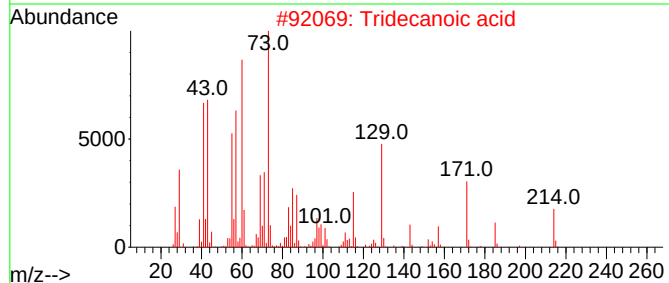
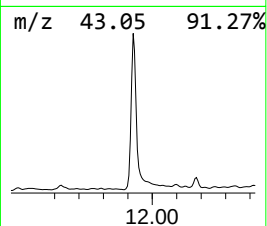
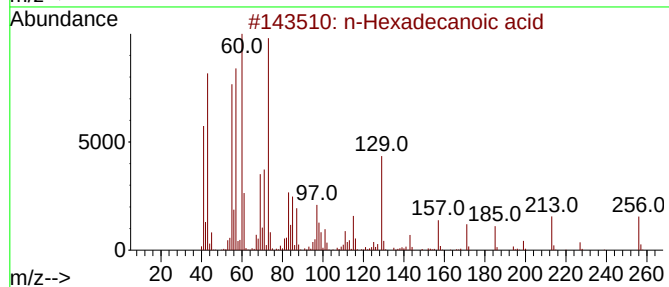
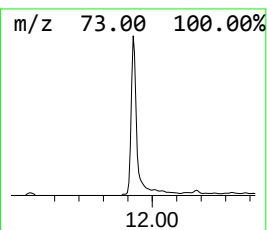
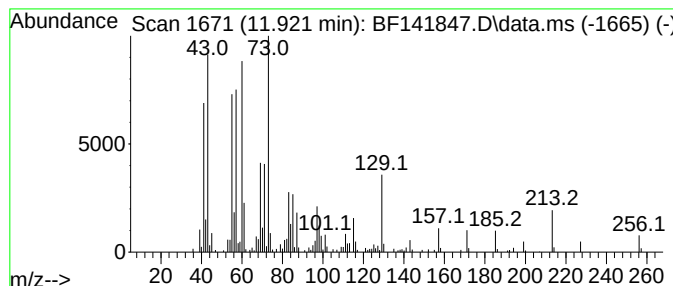
Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD		R.T.	
11.922	5.68 ng	365902	Phenanthrene-d10		11.404	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid		256	C16H32O2	000057-10-3	99
2	Tridecanoic acid		214	C13H26O2	000638-53-9	95
3	Pentadecanoic acid		242	C15H30O2	001002-84-2	91
4	Tetradecanoic acid		228	C14H28O2	000544-63-8	80
5	8-Methylnonanoic acid		172	C10H20O2	005963-14-4	53



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

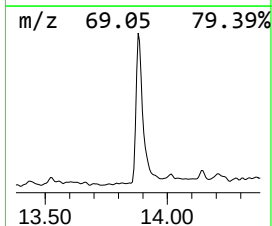
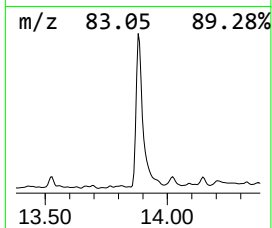
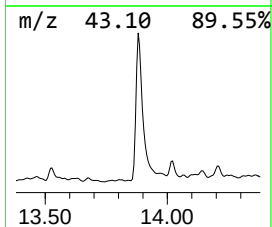
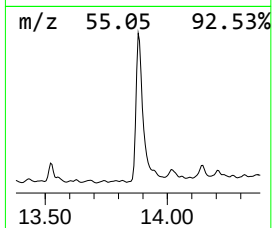
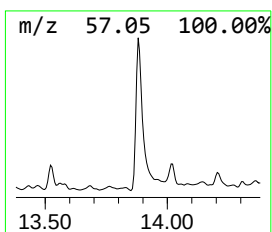
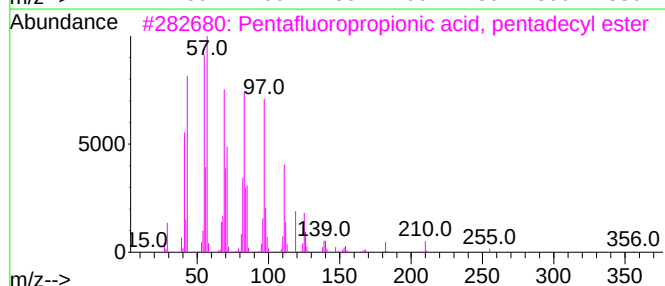
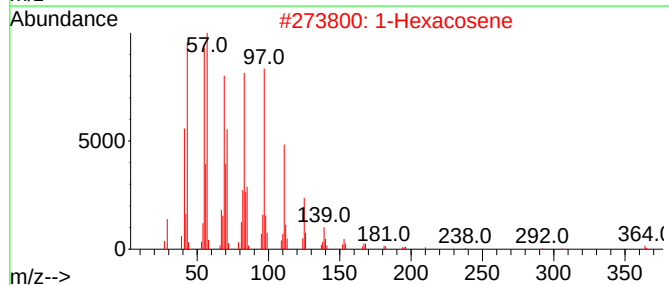
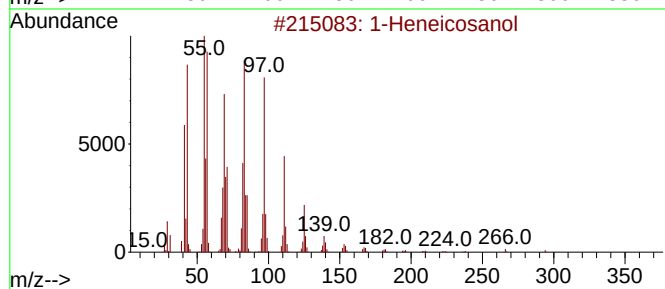
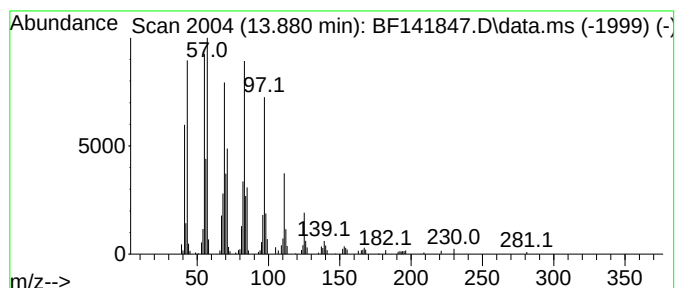
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 1-Heneicosanol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.880	4.49 ng	269448	Chrysene-d12	14.033

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		1-Heneicosanol	312	C21H44O	015594-90-8	95
2		1-Hexacosene	364	C26H52	018835-33-1	94
3		Pentafluoropropionic acid, penta...	374	C18H31F5O2	959092-08-1	94
4		Trifluoroacetic acid, pentadecyl...	324	C17H31F3O2	959010-23-2	94
5		n-Tetracosanol-1	354	C24H50O	000506-51-4	94



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141847.D
Acq On : 05 Mar 2025 16:50
Operator : RC/JU
Sample : Q1488-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-101-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Butane, 2-metho...	2.169	33.3	ng	1806640	1	6.887	1084610	20.0
Benzophenone	10.628	3.9	ng	279175	3	9.916	1445010	20.0
n-Hexadecanoic ...	11.922	5.7	ng	365902	4	11.404	1289130	20.0
1-Heneicosanol	13.880	4.5	ng	269448	5	14.033	1200350	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Mar 05 15:08:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

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

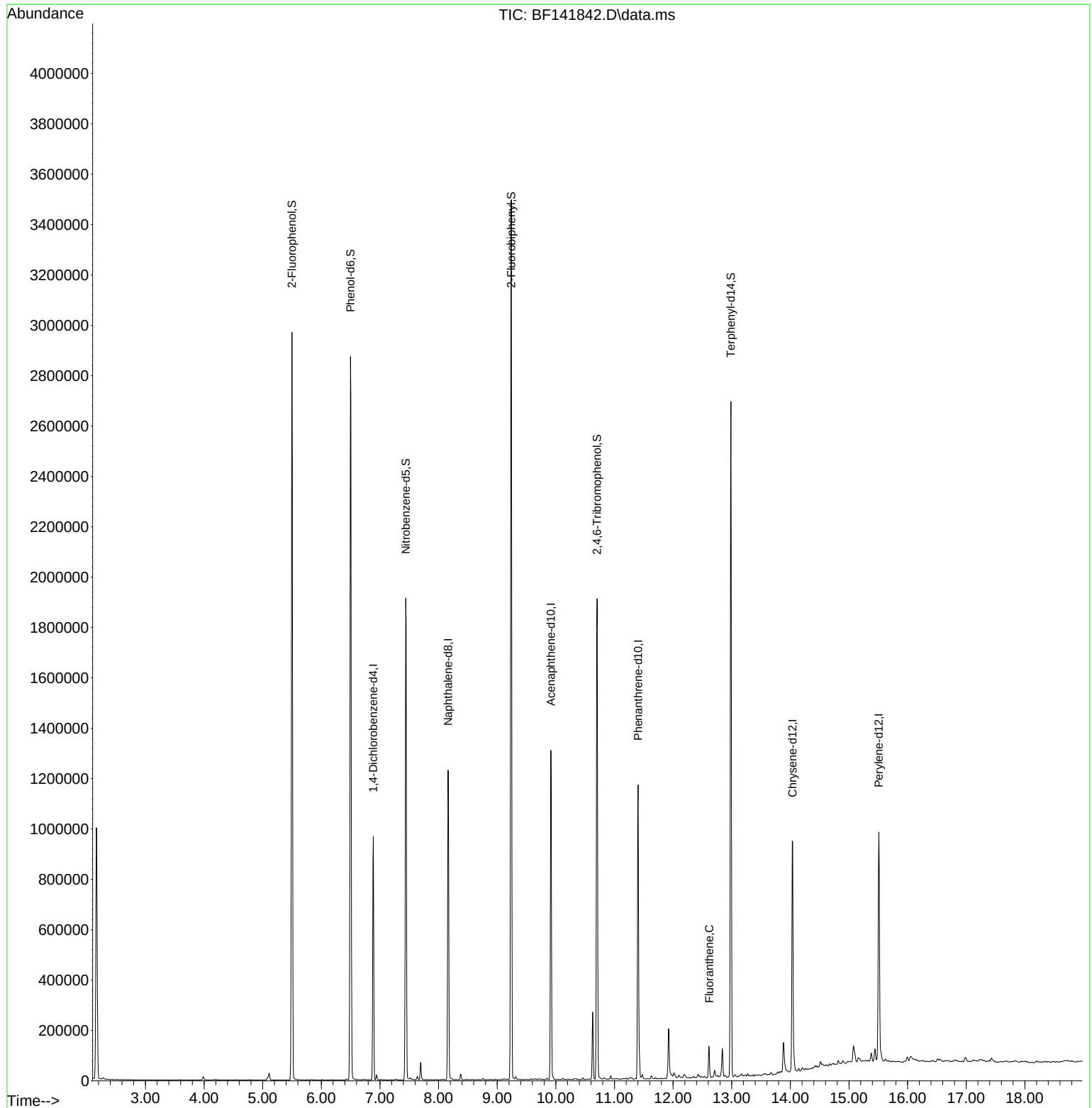
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	199424	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	747735	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	373687	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	582421	20.000	ng	0.00
76) Chrysene-d12	14.039	240	429057	20.000	ng	-0.01
86) Perylene-d12	15.509	264	509930	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1097622	87.898	ng	0.00
7) Phenol-d6	6.498	99	1369174	84.238	ng	-0.01
23) Nitrobenzene-d5	7.439	82	850594	72.713	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	302224	86.147	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	1497239	64.245	ng	0.00
79) Terphenyl-d14	12.986	244	1272874	47.998	ng	-0.01
Target Compounds						
75) Fluoranthene	12.615	202	72012	2.256	ng	Qvalue 96

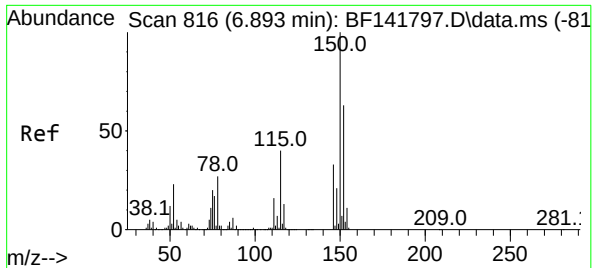
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Quant Time: Mar 05 15:08:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

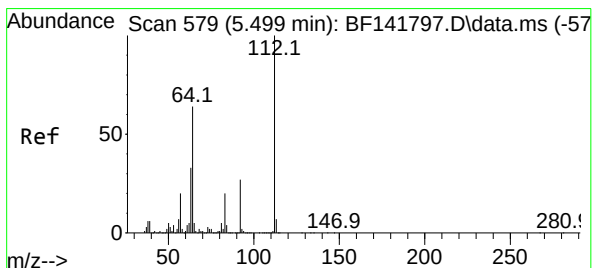
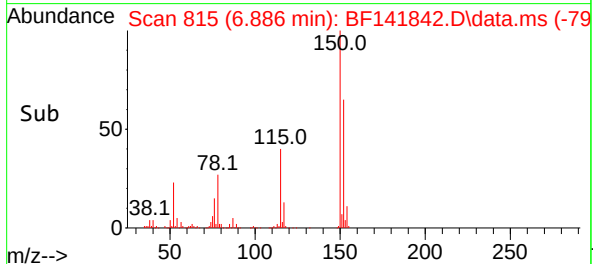
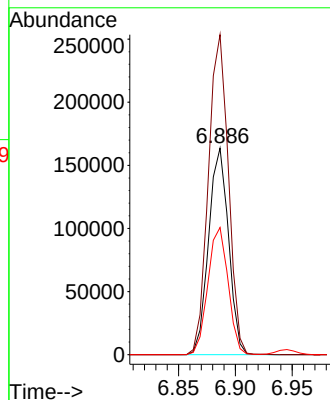
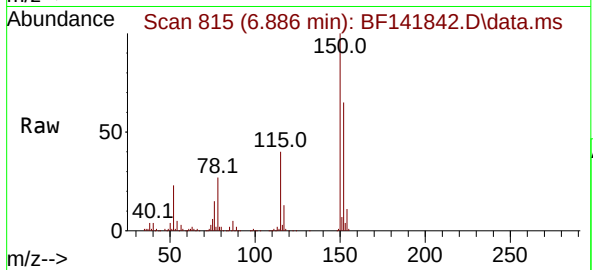




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 816
Delta R.T. -0.007 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

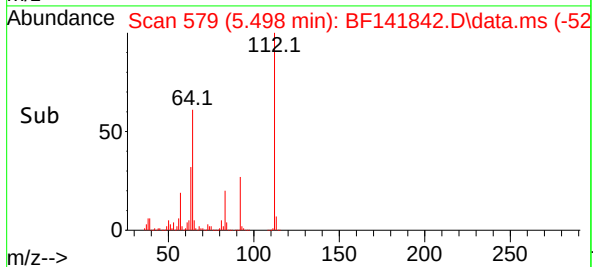
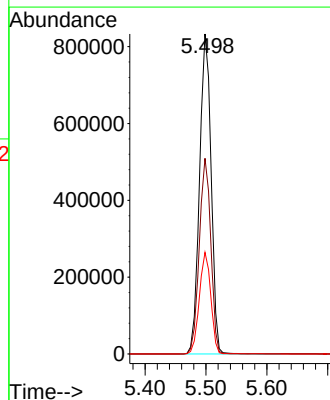
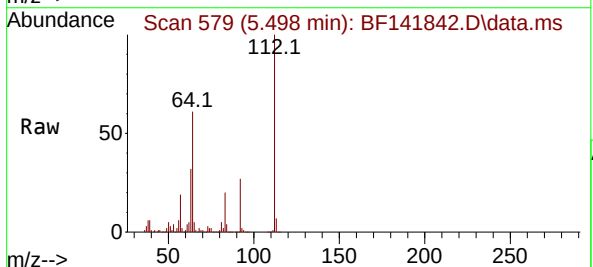
Instrument :
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ClientSampleId :
ENV-102-SB01

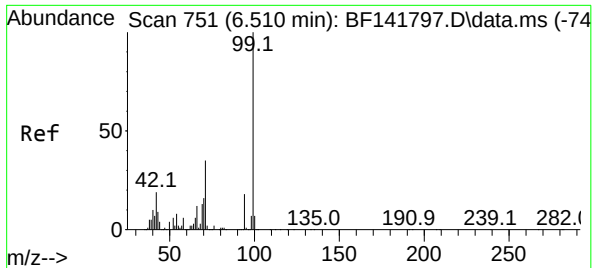
Tgt Ion:152 Resp: 199424
Ion Ratio Lower Upper
152 100
150 155.0 127.5 191.3
115 61.6 51.4 77.2



#5
2-Fluorophenol
Concen: 87.898 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Tgt Ion:112 Resp: 1097622
Ion Ratio Lower Upper
112 100
64 61.2 51.3 76.9
63 31.7 26.2 39.4

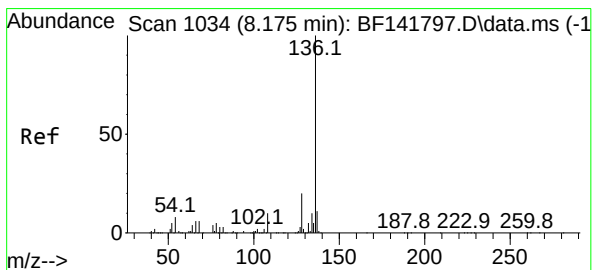
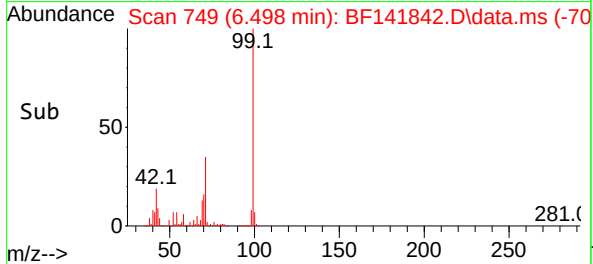
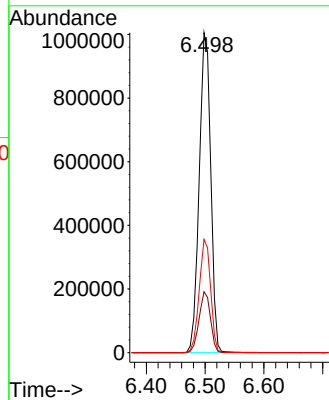
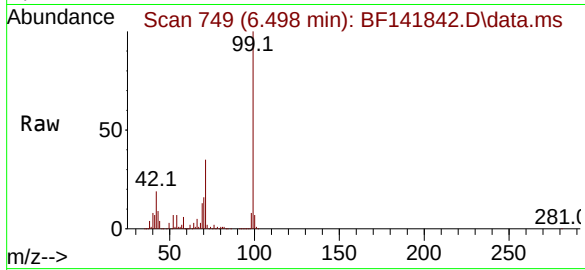




#7
Phenol-d6
Concen: 84.238 ng
RT: 6.498 min Scan# 749
Delta R.T. -0.012 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

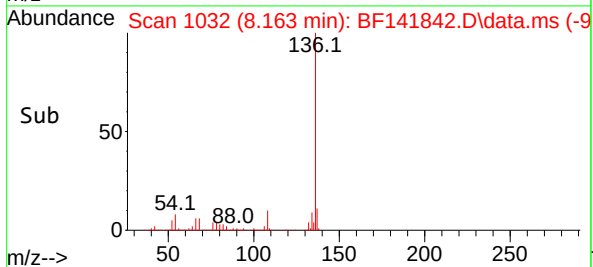
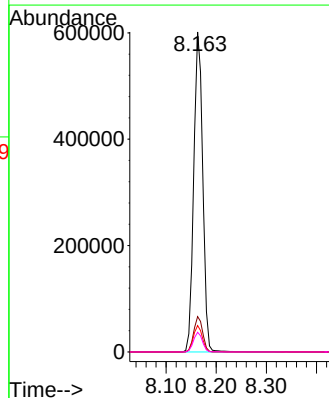
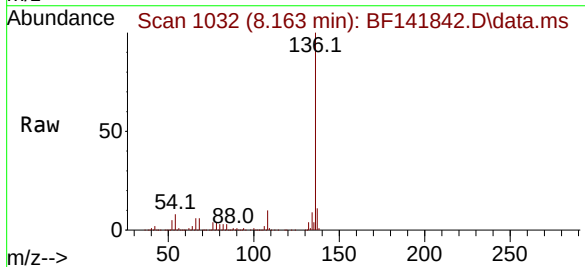
Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

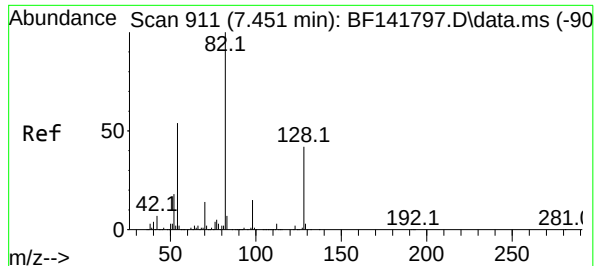
Tgt Ion: 99 Resp: 1369174
Ion Ratio Lower Upper
99 100
42 19.0 15.2 22.8
71 35.4 28.2 42.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Tgt Ion: 136 Resp: 747735
Ion Ratio Lower Upper
136 100
137 11.1 8.9 13.3
54 8.3 6.9 10.3
68 6.2 5.1 7.7





#23

Nitrobenzene-d5

Concen: 72.713 ng

RT: 7.439 min Scan# 909

Delta R.T. -0.012 min

Lab File: BF141842.D

Acq: 05 Mar 2025 14:23

Instrument :

BNA_F

ClientSampleId :

ENV-102-SB01

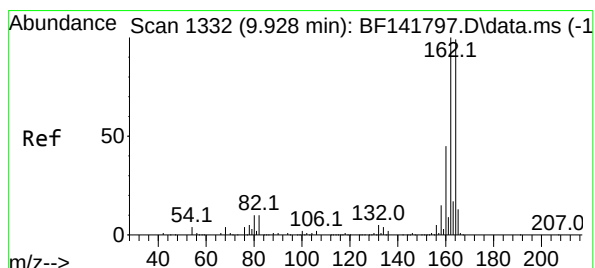
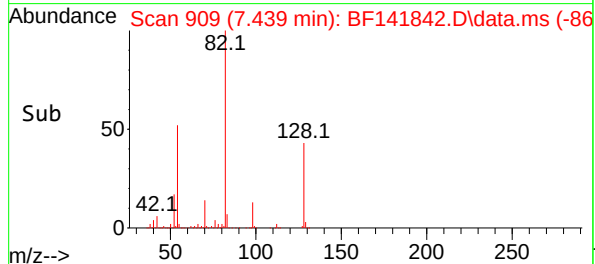
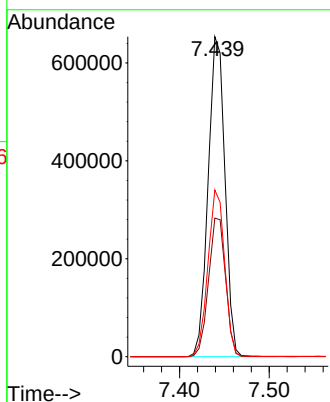
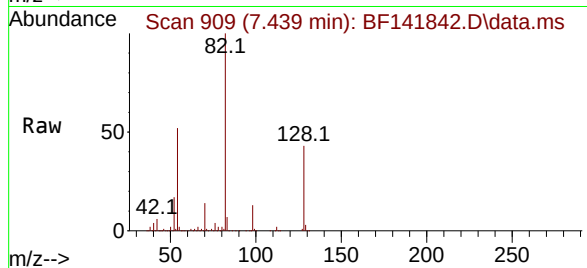
Tgt Ion: 82 Resp: 850594

Ion Ratio Lower Upper

82 100

128 43.3 33.5 50.3

54 52.1 42.7 64.1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1330

Delta R.T. -0.012 min

Lab File: BF141842.D

Acq: 05 Mar 2025 14:23

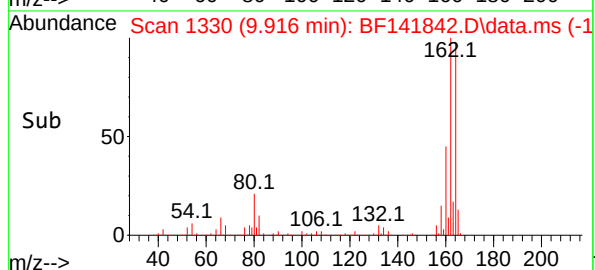
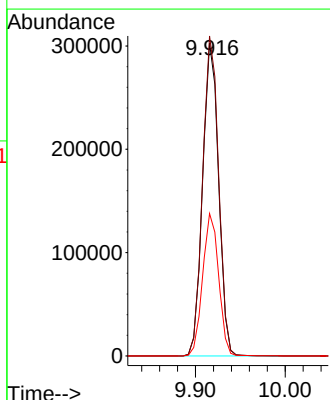
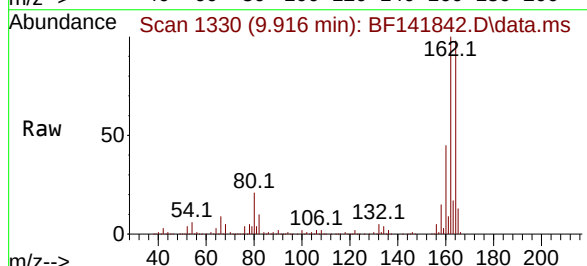
Tgt Ion: 164 Resp: 373687

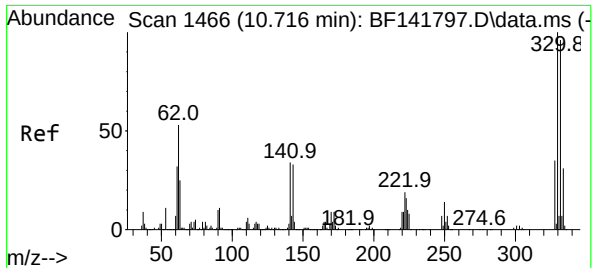
Ion Ratio Lower Upper

164 100

162 102.3 80.6 120.8

160 45.5 36.3 54.5

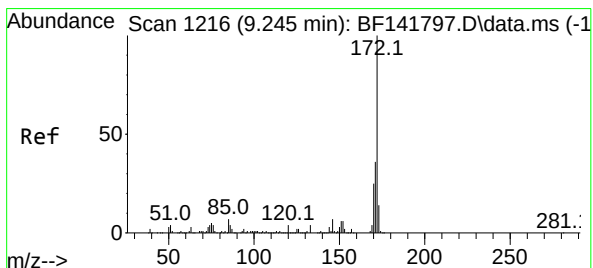
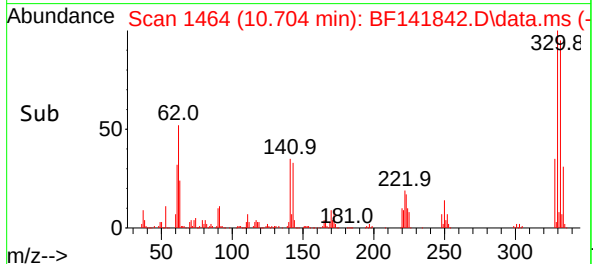
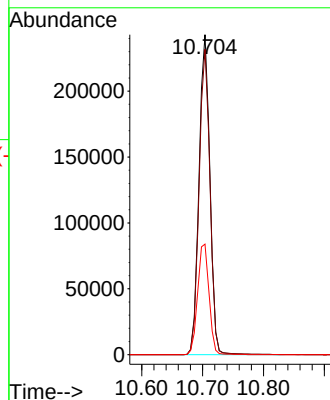
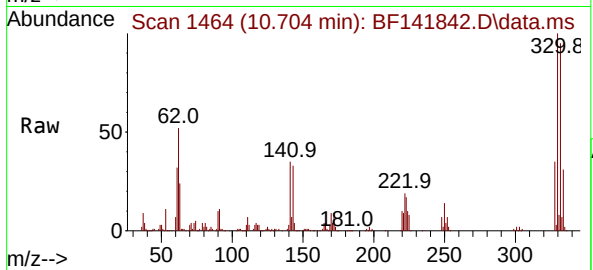




#42
2,4,6-Tribromophenol
Concen: 86.147 ng
RT: 10.704 min Scan# 1464
Delta R.T. -0.012 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

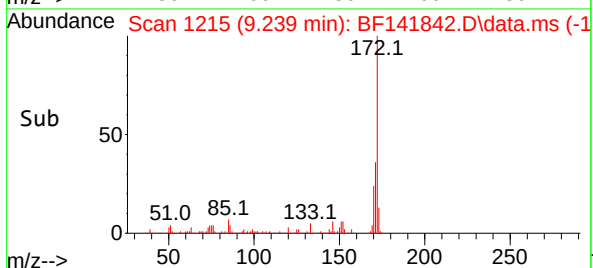
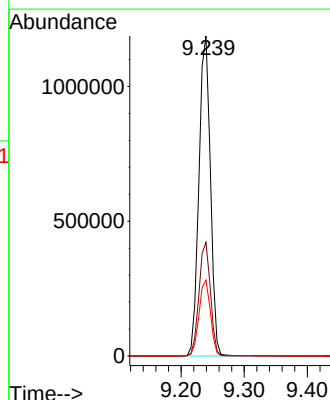
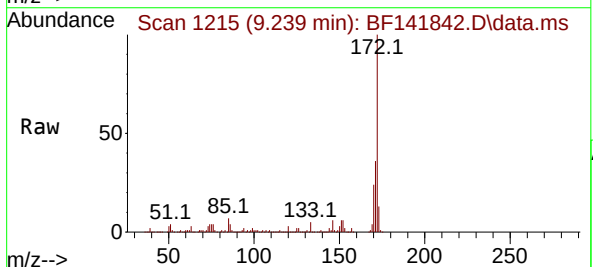
Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

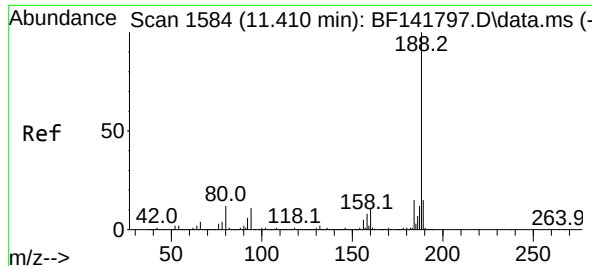
Tgt Ion:330 Resp: 302224
Ion Ratio Lower Upper
330 100
332 95.6 76.6 115.0
141 36.2 29.0 43.4



#45
2-Fluorobiphenyl
Concen: 64.245 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141842.D
Acq: 05 Mar 2025 14:23

Tgt Ion:172 Resp: 1497239
Ion Ratio Lower Upper
172 100
171 35.5 29.2 43.8
170 23.7 19.7 29.5





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.404 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF141842.D

Acq: 05 Mar 2025 14:23

Instrument :

BNA_F

ClientSampleId :

ENV-102-SB01

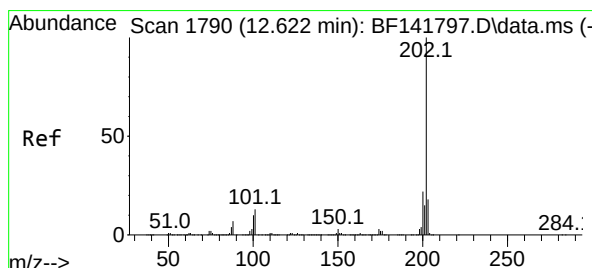
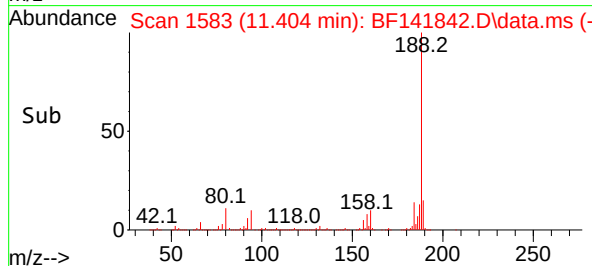
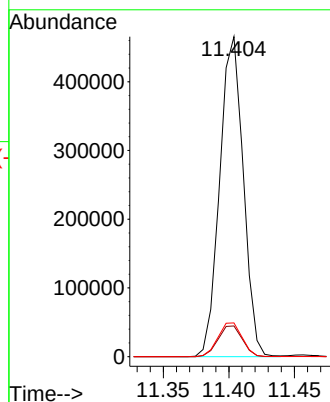
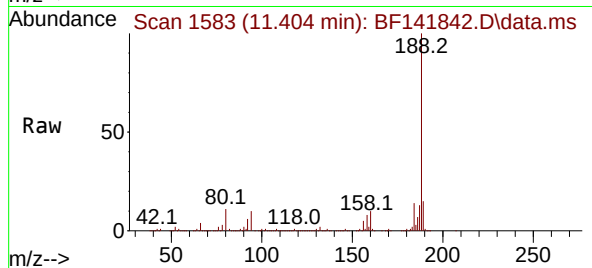
Tgt Ion:188 Resp: 582421

Ion Ratio Lower Upper

188 100

94 9.6 8.9 13.3

80 10.5 9.7 14.5



#75

Fluoranthene

Concen: 2.256 ng

RT: 12.615 min Scan# 1789

Delta R.T. -0.006 min

Lab File: BF141842.D

Acq: 05 Mar 2025 14:23

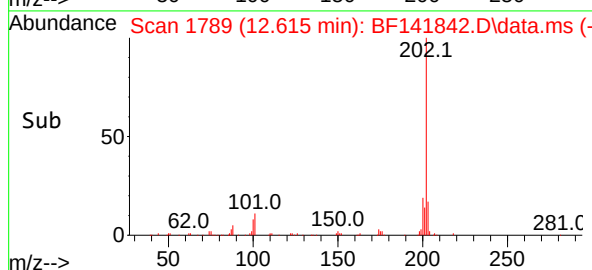
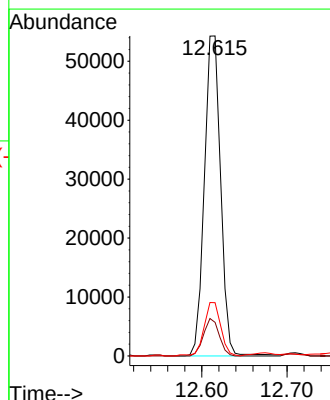
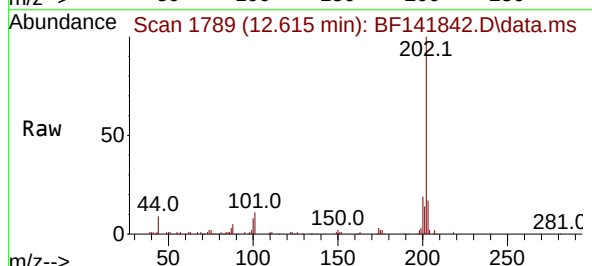
Tgt Ion:202 Resp: 72012

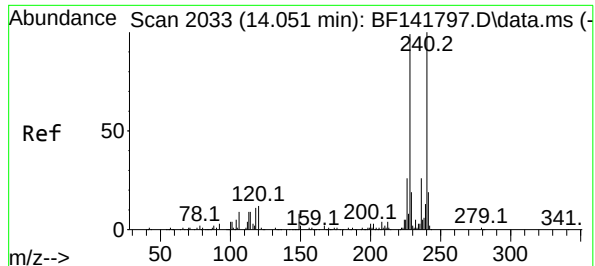
Ion Ratio Lower Upper

202 100

101 10.5 0.0 32.8

203 16.7 0.0 38.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.039 min Scan# 2033

Delta R.T. -0.012 min

Lab File: BF141842.D

Acq: 05 Mar 2025 14:23

Instrument :

BNA_F

ClientSampleId :

ENV-102-SB01

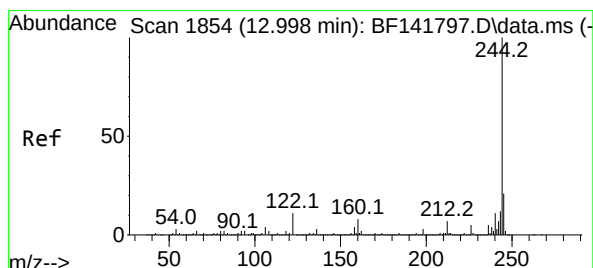
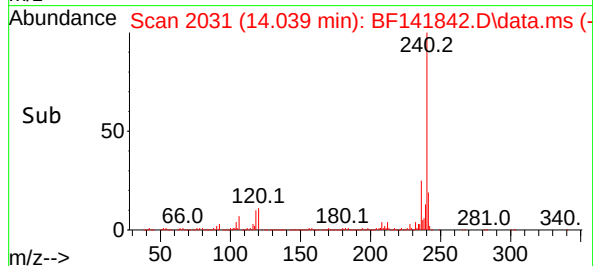
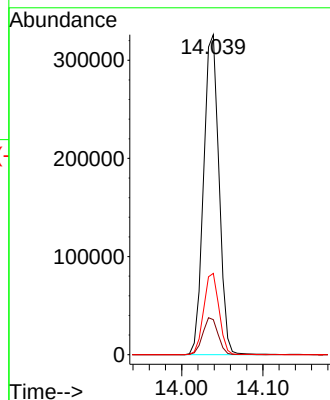
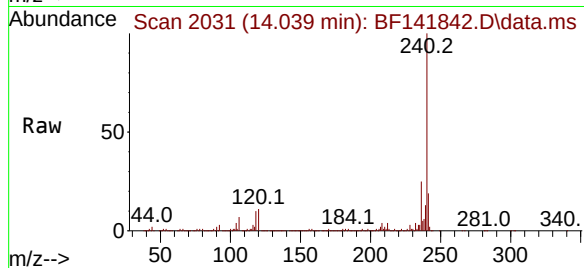
Tgt Ion:240 Resp: 429057

Ion Ratio Lower Upper

240 100

120 11.0 9.7 14.5

236 25.4 21.0 31.4



#79

Terphenyl-d14

Concen: 47.998 ng

RT: 12.986 min Scan# 1852

Delta R.T. -0.012 min

Lab File: BF141842.D

Acq: 05 Mar 2025 14:23

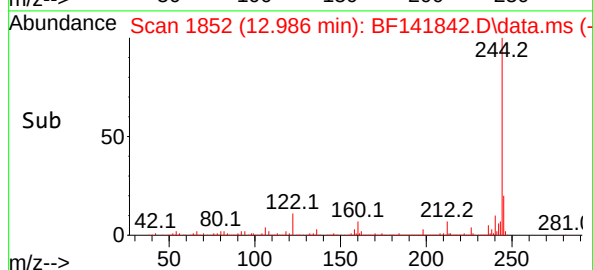
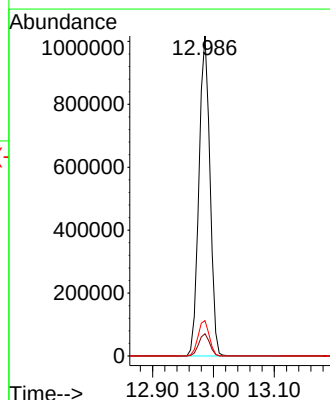
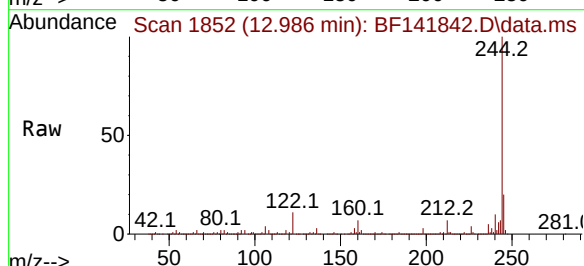
Tgt Ion:244 Resp: 1272874

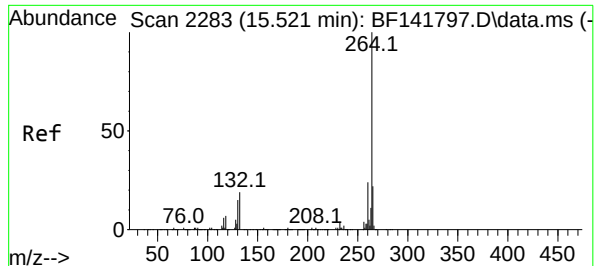
Ion Ratio Lower Upper

244 100

212 6.9 6.0 9.0

122 11.0 9.0 13.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.509 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF141842.D

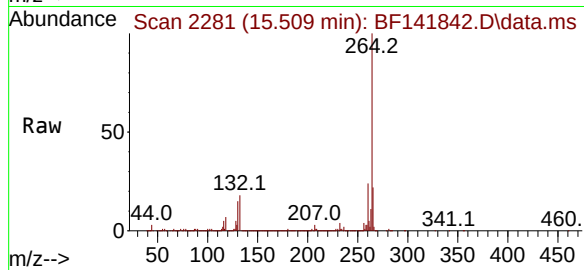
Acq: 05 Mar 2025 14:23

Instrument :

BNA_F

ClientSampleId :

ENV-102-SB01



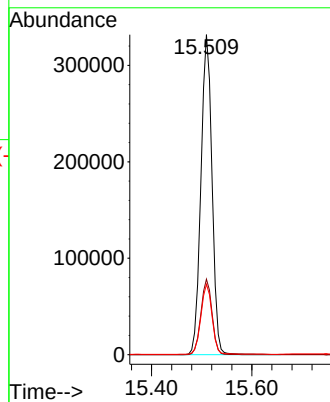
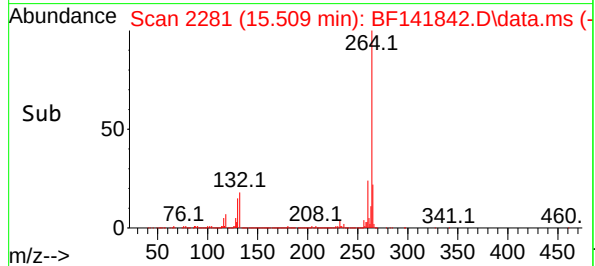
Tgt Ion:264 Resp: 509930

Ion Ratio Lower Upper

264 100

260 23.6 18.9 28.3

265 22.0 17.4 26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
 Data File : BF141842.D
 Acq On : 05 Mar 2025 14:23
 Operator : RC/JU
 Sample : Q1488-05
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ENV-102-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-BF022725.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141842.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.163	5	12	26	rVB	997941	1608503	36.45%	4.938%
2	5.110	503	513	521	rVB2	26998	54959	1.25%	0.169%
3	5.498	573	579	584	rBV	2969812	3884369	88.03%	11.926%
4	6.498	743	749	763	rBV	2871789	3961732	89.78%	12.163%
5	6.886	809	815	820	rBV	965760	1192292	27.02%	3.661%
6	7.439	903	909	915	rBV	1912680	2498340	56.62%	7.670%
7	7.692	948	952	963	rVB	68017	88362	2.00%	0.271%
8	8.163	1027	1032	1050	rBV	1229529	1535441	34.80%	4.714%
9	9.239	1209	1215	1220	rBV	3492974	4412466	100.00%	13.547%
10	9.916	1325	1330	1335	rBV	1307569	1618597	36.68%	4.969%
11	10.627	1446	1451	1458	rVB	267259	325279	7.37%	0.999%
12	10.704	1458	1464	1478	rBV	1908285	2462027	55.80%	7.559%
13	11.404	1578	1583	1591	rBV	1166991	1578264	35.77%	4.846%
14	11.921	1664	1671	1683	rBV2	199353	343031	7.77%	1.053%
15	12.610	1784	1788	1794	rBV	123512	164463	3.73%	0.505%
16	12.839	1821	1827	1833	rVB	109792	157769	3.58%	0.484%
17	12.986	1846	1852	1857	rBV	2679728	3370918	76.40%	10.349%
18	13.880	2000	2004	2022	rVB	116441	225008	5.10%	0.691%
19	14.033	2024	2030	2044	rVV	912900	1362213	30.87%	4.182%
20	15.080	2203	2208	2217	rVB	61865	140485	3.18%	0.431%
21	15.380	2256	2259	2265	rVB	31810	46883	1.06%	0.144%
22	15.445	2266	2270	2274	rVV	47890	75281	1.71%	0.231%
23	15.509	2275	2281	2294	rVB	910258	1464418	33.19%	4.496%

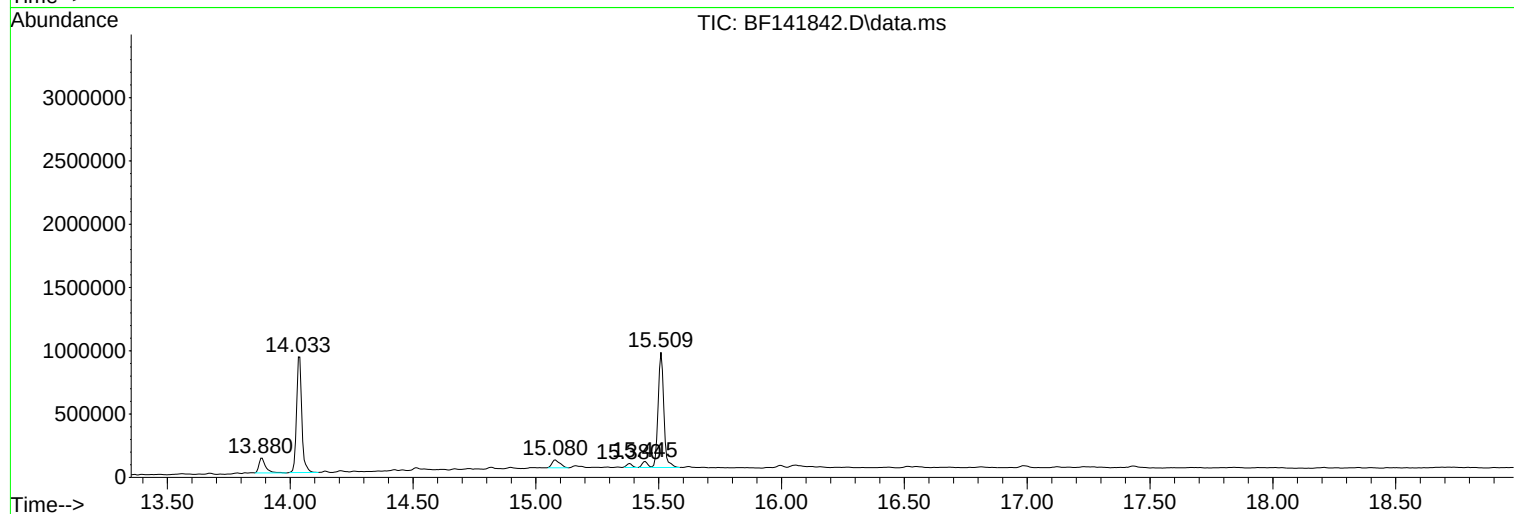
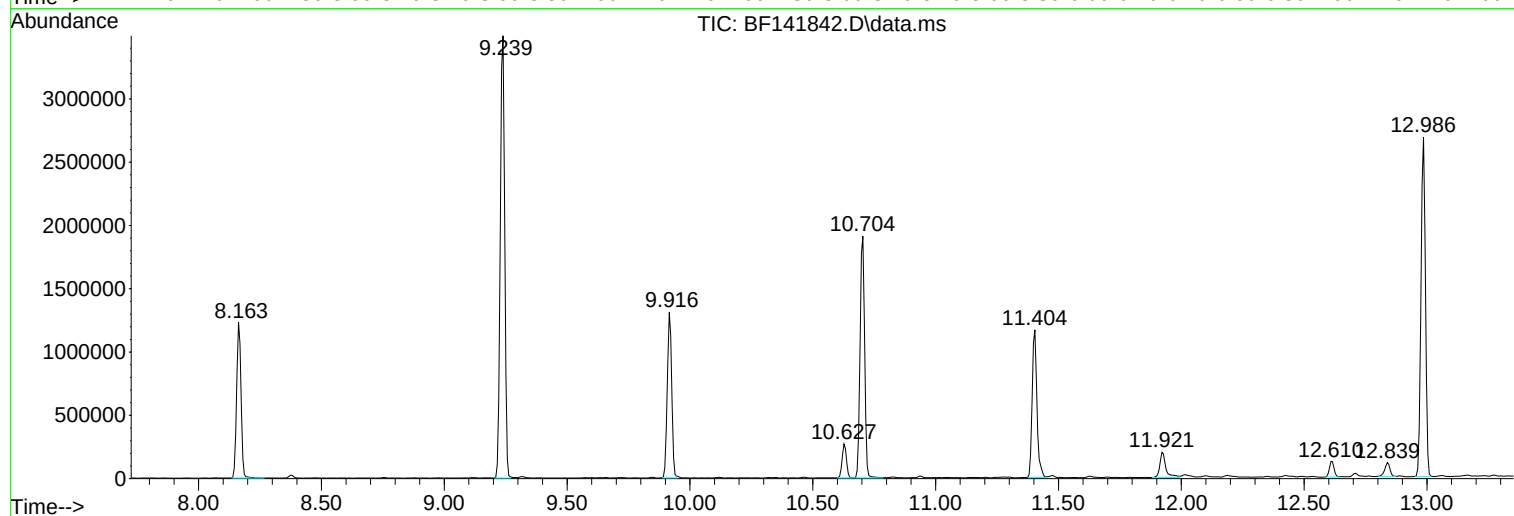
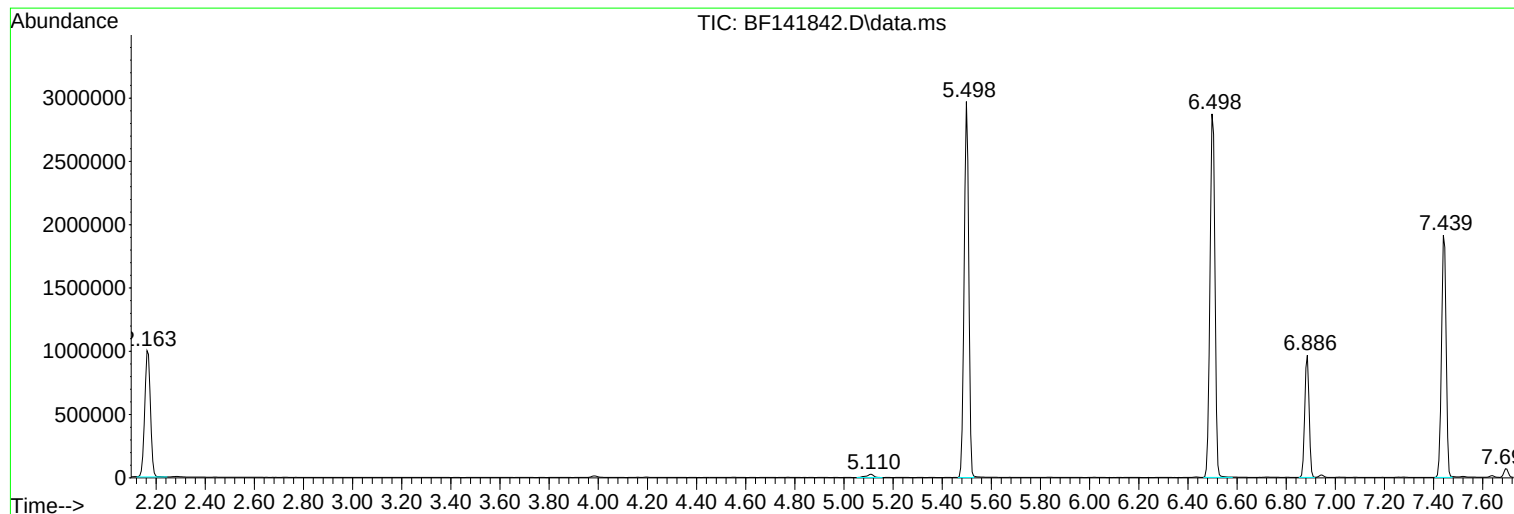
Sum of corrected areas: 32571100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

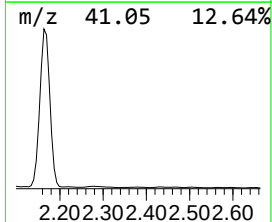
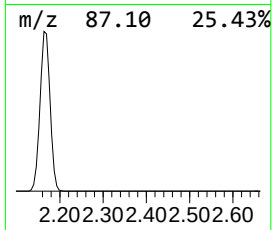
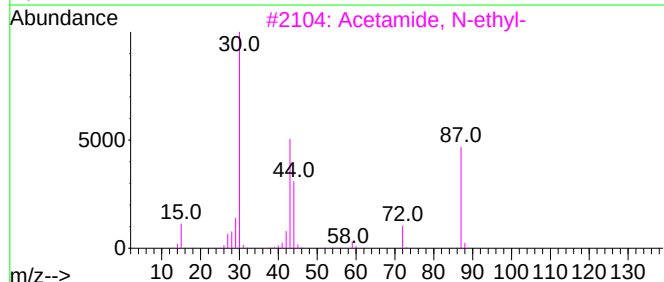
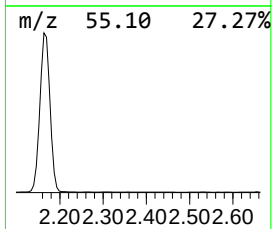
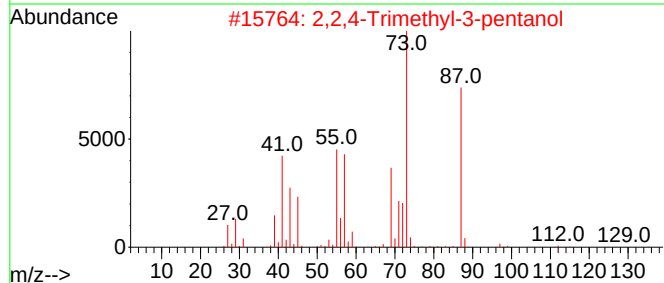
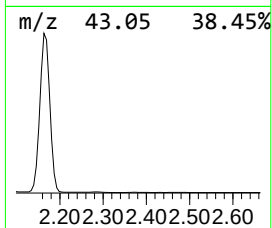
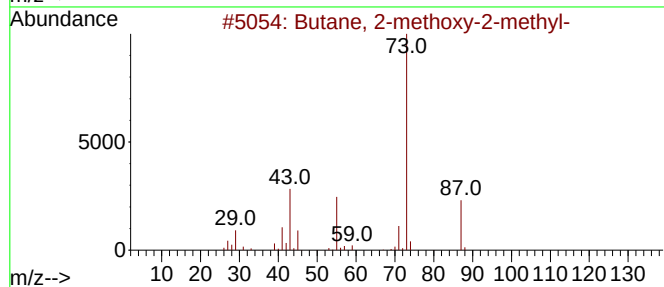
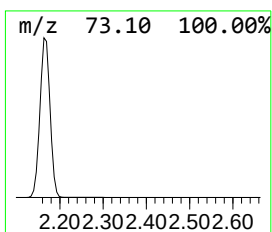
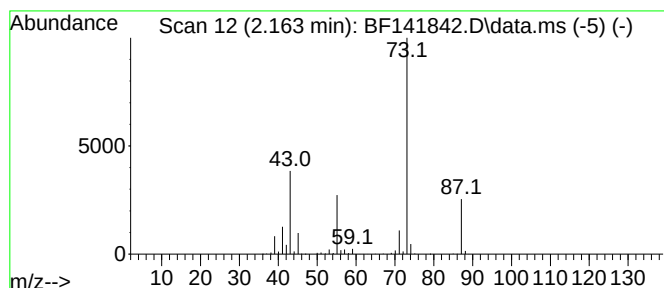
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.163	26.98 ng	1608500	1,4-Dichlorobenzene-d4	6.886

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2			2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3			Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	27
4			1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
5			Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

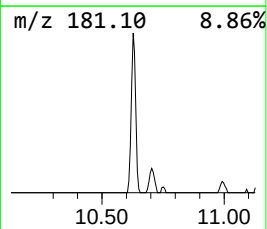
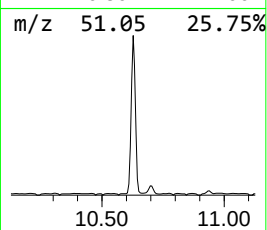
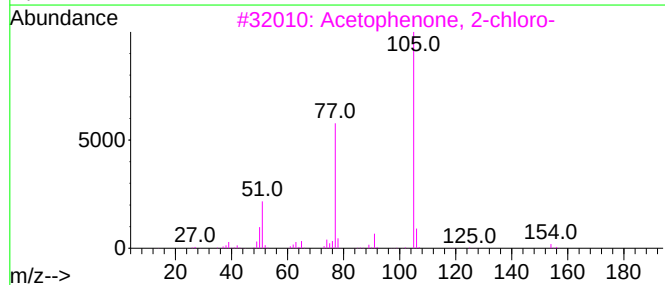
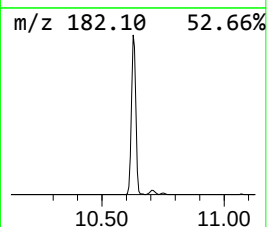
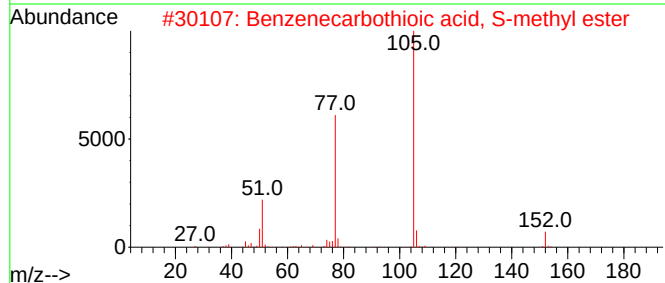
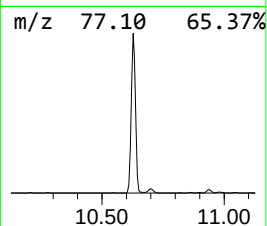
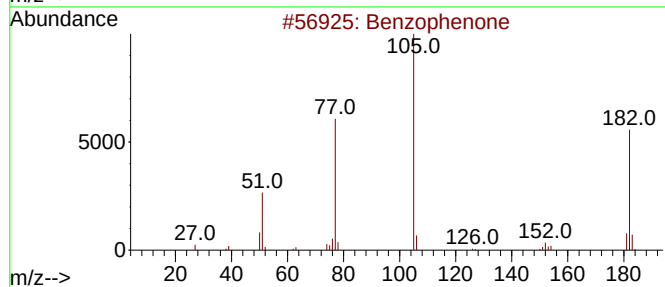
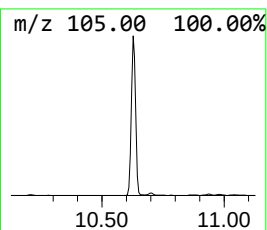
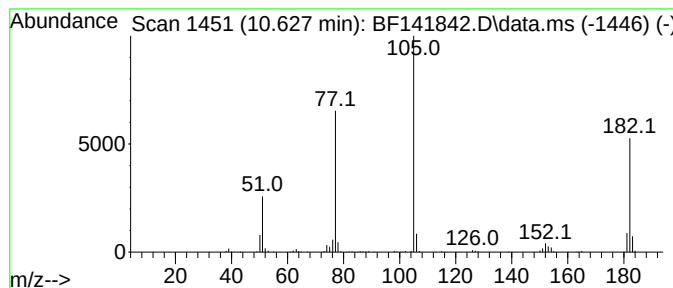
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.627	4.02 ng	325279	Acenaphthene-d10	9.916

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
3			Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4			Benzoyl bromide	184	C7H5BrO	000618-32-6	47
5			N-Methylbenzamide, N-chlorodiflu...	247	C10H8ClF2NO2	1000446-98-2	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

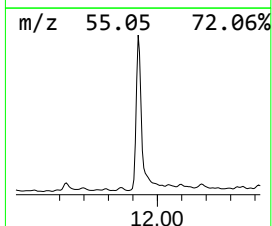
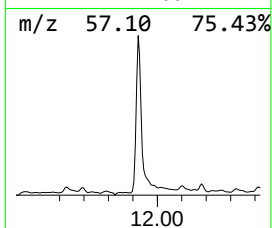
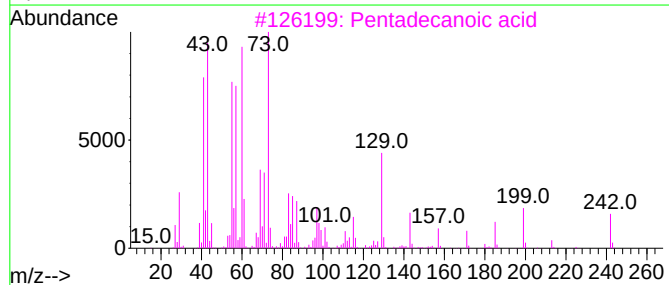
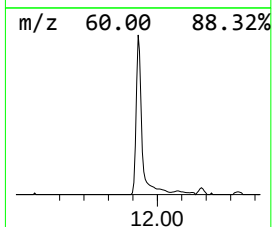
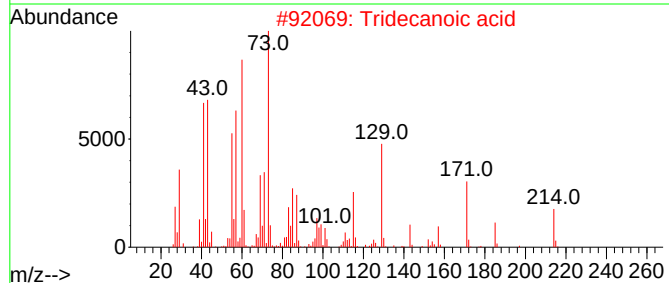
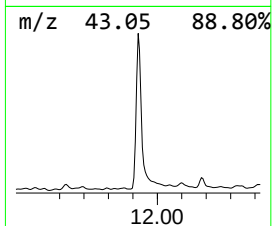
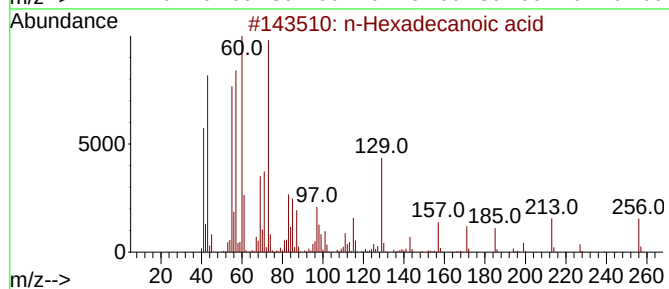
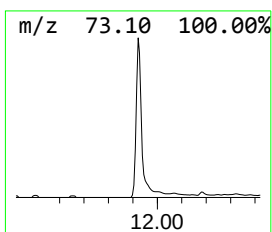
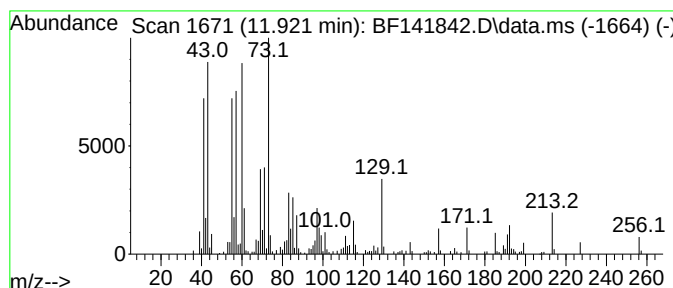
Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.921	4.35 ng	343031	Phenanthrene-d10	11.404	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	95
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	87
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5	Carbonic acid, eicosyl vinyl ester	368	C23H44O3	1000382-54-3	35



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

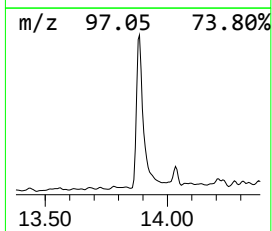
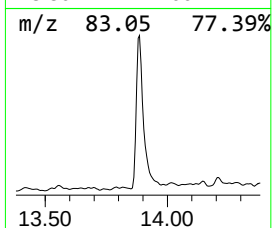
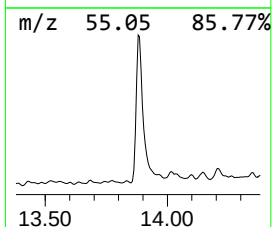
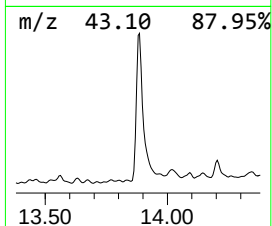
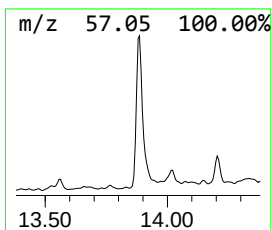
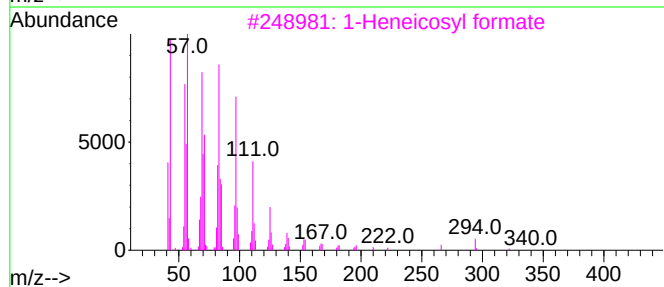
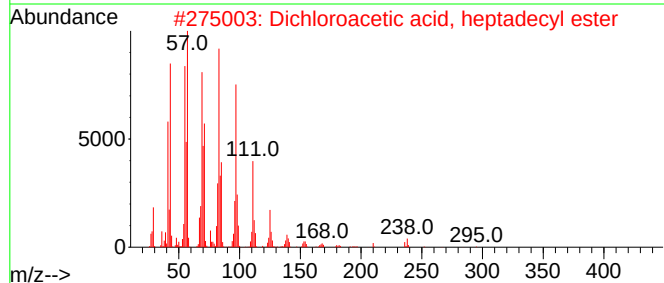
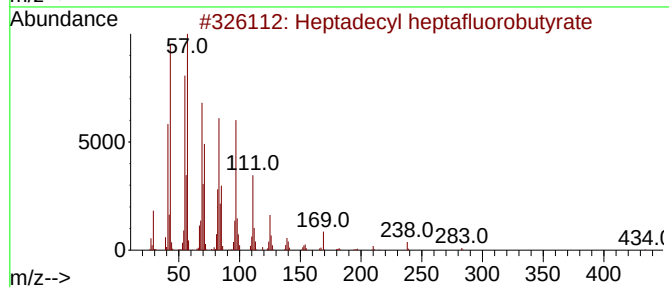
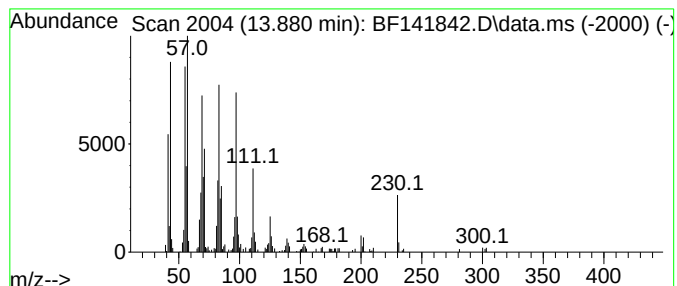
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Heptadecyl heptafluorobutyrate Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.880	3.30 ng	225008	Chrysene-d12	14.039

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	95
2			Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	95
3			1-Heneicosyl formate	340	C22H44O2	077899-03-7	94
4			Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94
5			1-Hexacosene	364	C26H52	018835-33-1	94



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141842.D
Acq On : 05 Mar 2025 14:23
Operator : RC/JU
Sample : Q1488-05
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Butane, 2-metho...	2.163	27.0	ng	1608500	1	6.886	1192290	20.0
Benzophenone	10.627	4.0	ng	325279	3	9.916	1618600	20.0
n-Hexadecanoic ...	11.921	4.3	ng	343031	4	11.404	1578260	20.0
Heptadecyl hept...	13.880	3.3	ng	225008	5	14.039	1362210	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Mar 06 15:50:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	163469	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	639781	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	350300	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	621587	20.000	ng	0.00
76) Chrysene-d12	14.039	240	547828	20.000	ng	-0.01
86) Perylene-d12	15.509	264	479609	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	938894	91.724	ng	0.00
7) Phenol-d6	6.498	99	1205625	90.491	ng	-0.01
23) Nitrobenzene-d5	7.439	82	771678	77.098	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	386471	117.516	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	1491514	68.272	ng	0.00
79) Terphenyl-d14	12.986	244	1977777	58.410	ng	-0.01

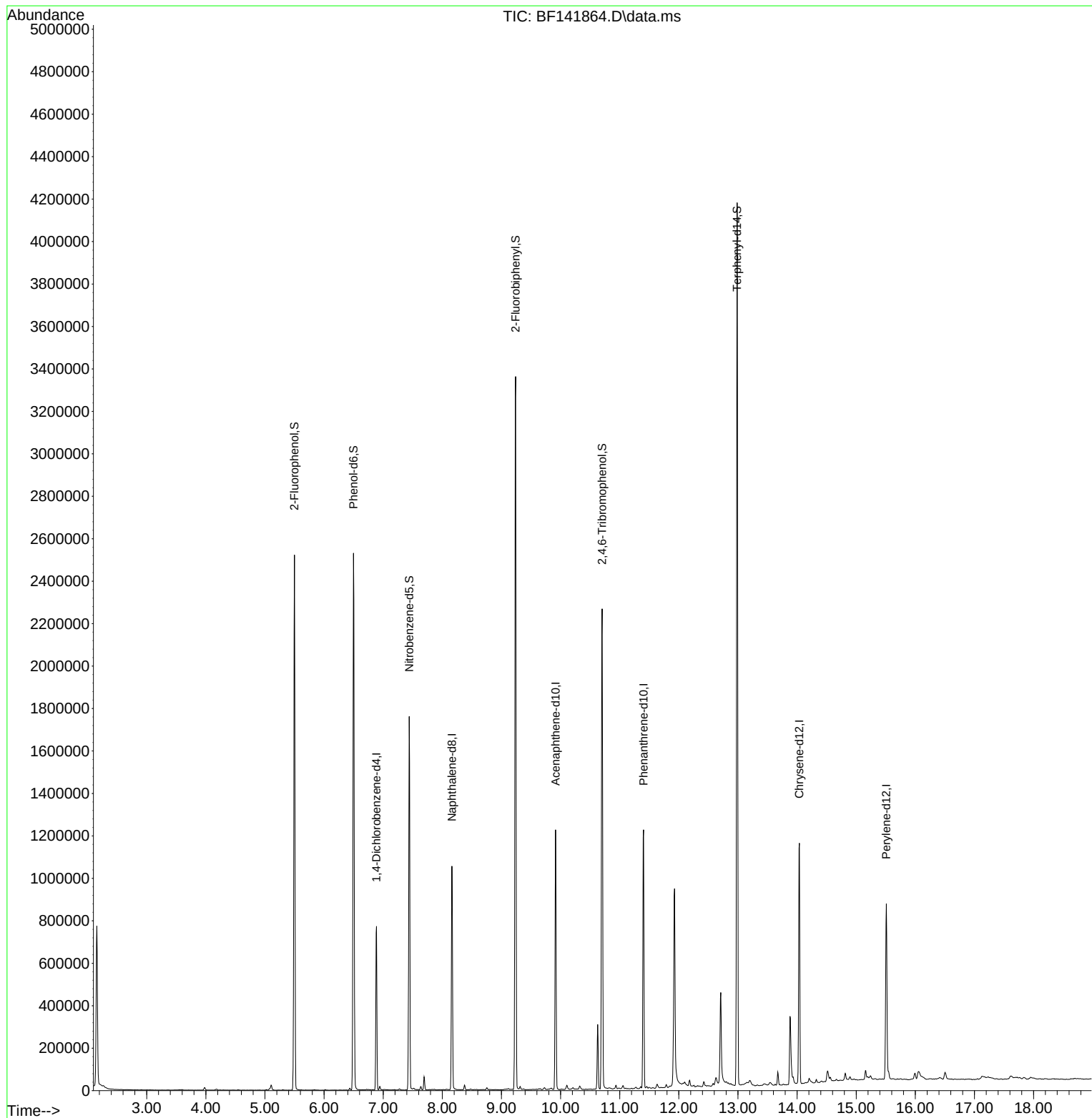
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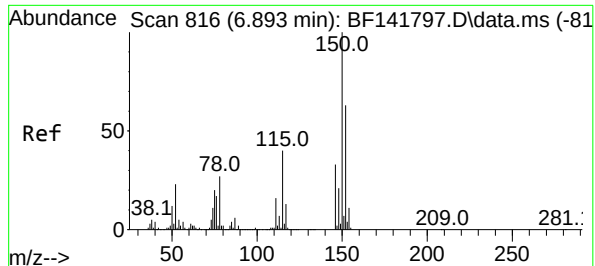
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Quant Time: Mar 06 15:50:42 2025
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QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

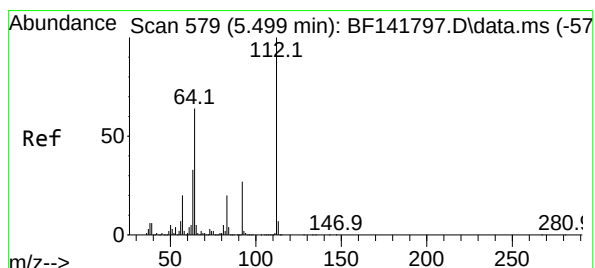
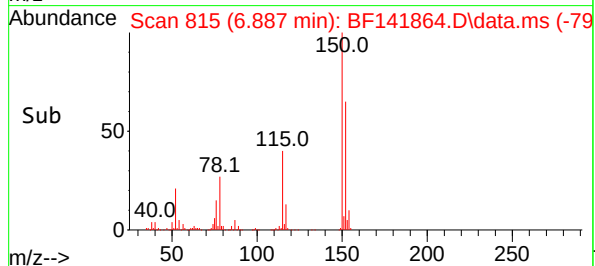
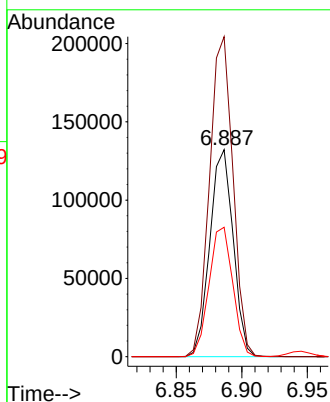
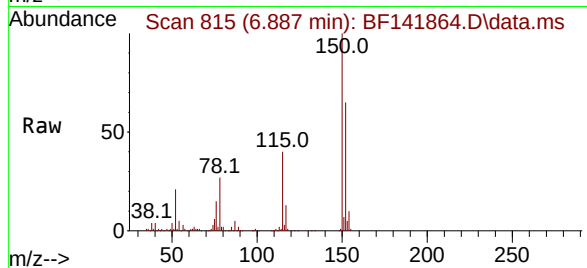




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 816
Delta R.T. -0.006 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

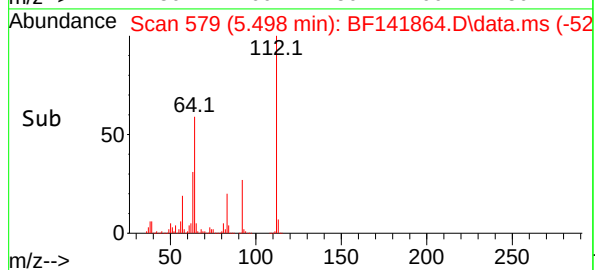
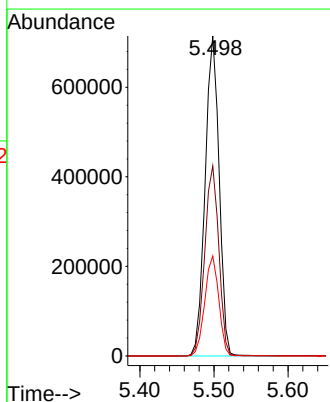
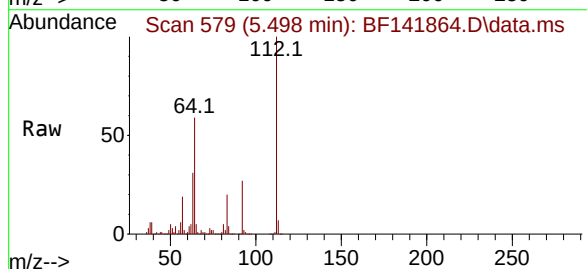
Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

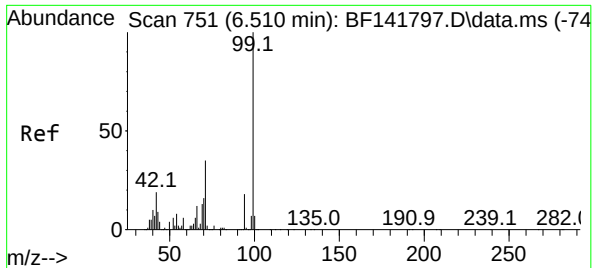
Tgt Ion:152 Resp: 163469
Ion Ratio Lower Upper
152 100
150 154.6 127.5 191.3
115 62.5 51.4 77.2



#5
2-Fluorophenol
Concen: 91.724 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Tgt Ion:112 Resp: 938894
Ion Ratio Lower Upper
112 100
64 59.4 51.3 76.9
63 31.2 26.2 39.4

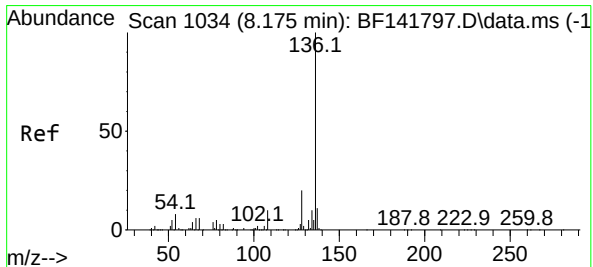
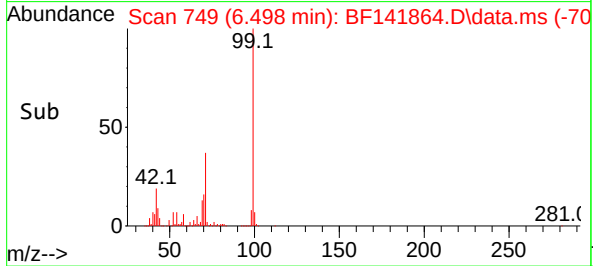
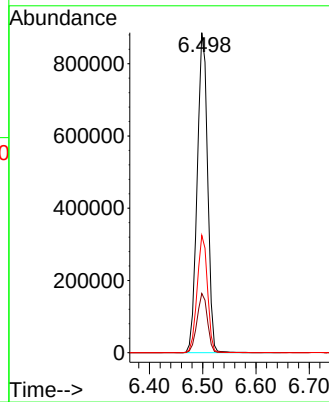
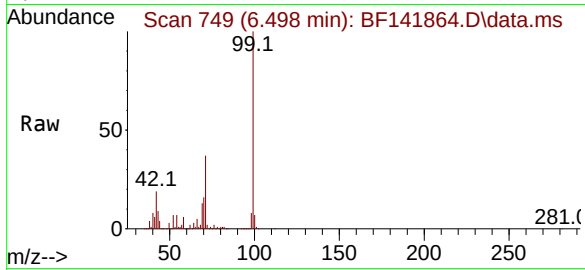




#7
Phenol-d6
Concen: 90.491 ng
RT: 6.498 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

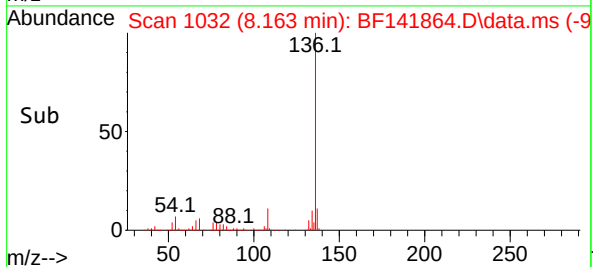
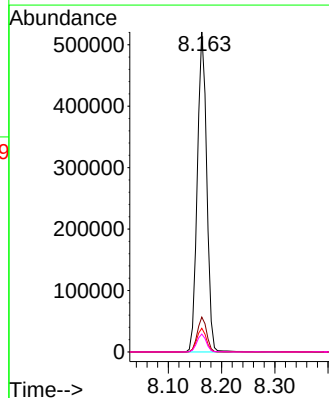
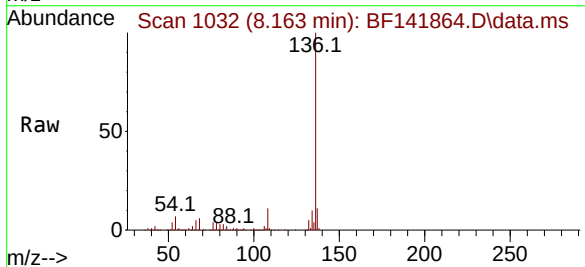
Instrument :
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ClientSampleId :
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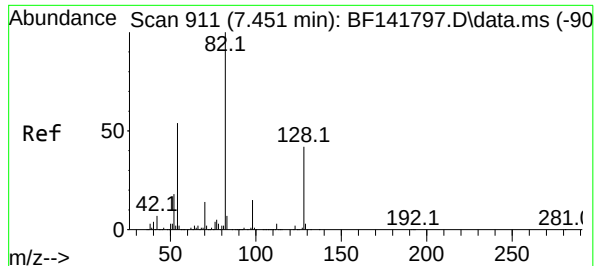
Tgt Ion: 99 Resp: 1205625
Ion Ratio Lower Upper
99 100
42 18.5 15.2 22.8
71 36.6 28.2 42.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Tgt Ion: 136 Resp: 639781
Ion Ratio Lower Upper
136 100
137 10.9 8.9 13.3
54 7.4 6.9 10.3
68 5.6 5.1 7.7





#23

Nitrobenzene-d5

Concen: 77.098 ng

RT: 7.439 min Scan# 909

Delta R.T. -0.012 min

Lab File: BF141864.D

Acq: 06 Mar 2025 13:01

Instrument :

BNA_F

ClientSampleId :

ENV-102-SB02

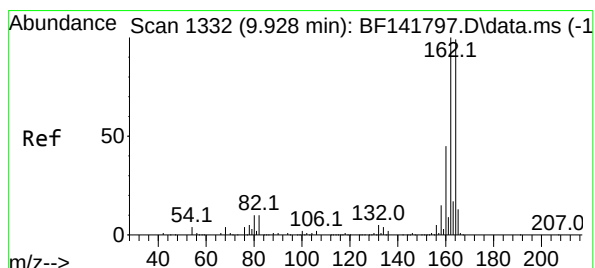
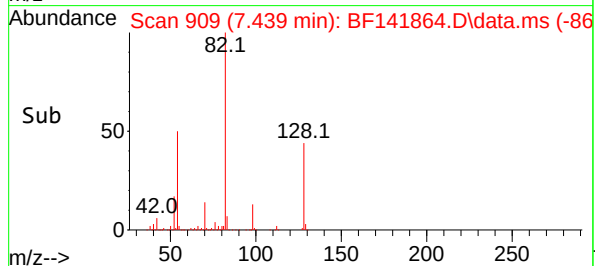
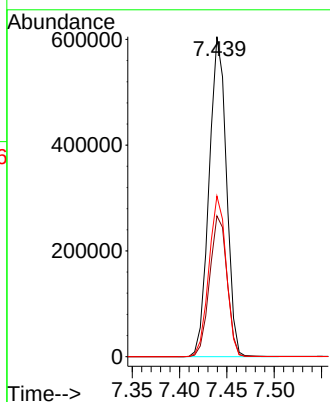
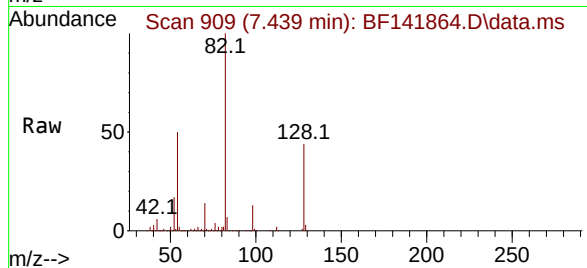
Tgt Ion: 82 Resp: 771678

Ion Ratio Lower Upper

82 100

128 44.0 33.5 50.3

54 50.2 42.7 64.1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1330

Delta R.T. -0.012 min

Lab File: BF141864.D

Acq: 06 Mar 2025 13:01

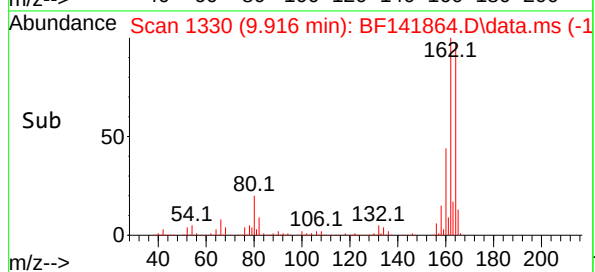
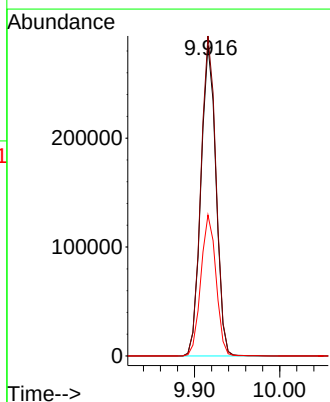
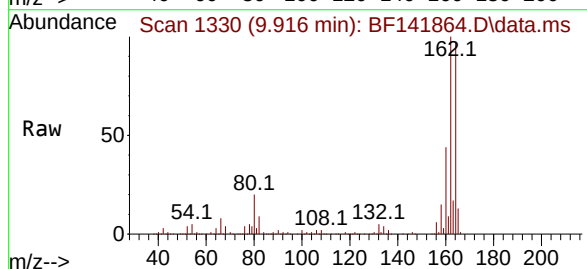
Tgt Ion: 164 Resp: 350300

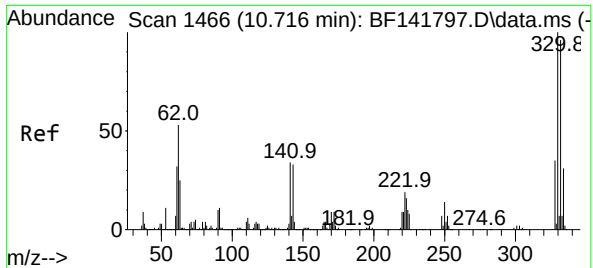
Ion Ratio Lower Upper

164 100

162 103.0 80.6 120.8

160 45.4 36.3 54.5

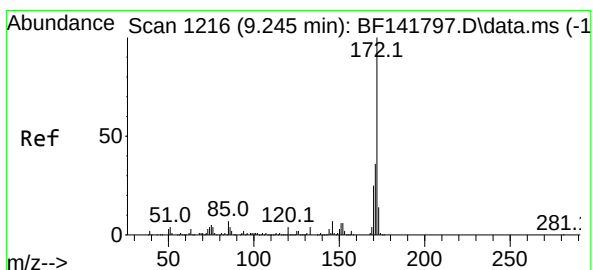
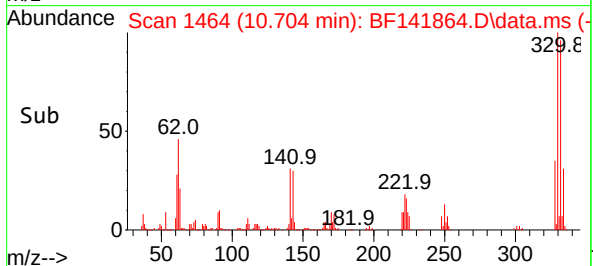
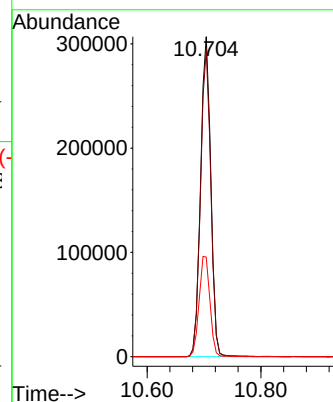
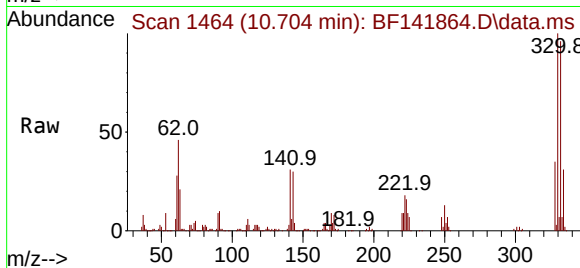




#42
2,4,6-Tribromophenol
Concen: 117.516 ng
RT: 10.704 min Scan# 1464
Delta R.T. -0.012 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

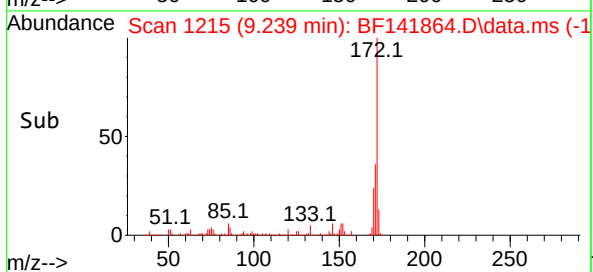
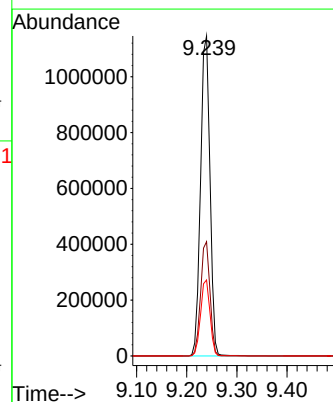
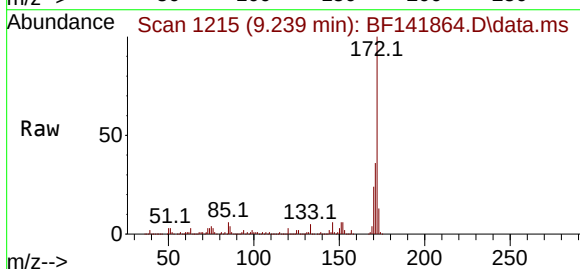
Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

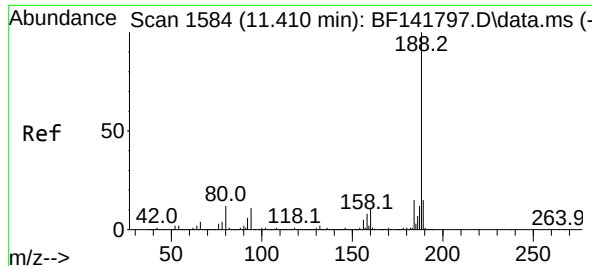
Tgt Ion: 330 Resp: 386471
Ion Ratio Lower Upper
330 100
332 96.1 76.6 115.0
141 33.2 29.0 43.4



#45
2-Fluorobiphenyl
Concen: 68.272 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Tgt Ion: 172 Resp: 1491514
Ion Ratio Lower Upper
172 100
171 35.7 29.2 43.8
170 23.8 19.7 29.5

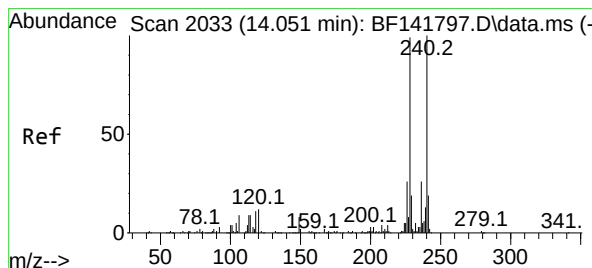
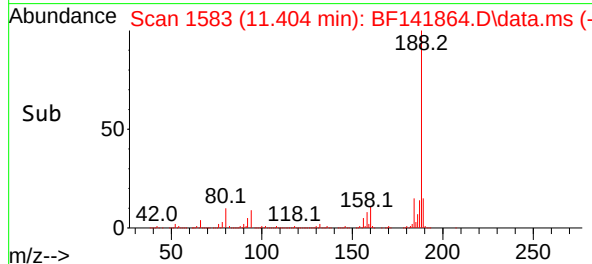
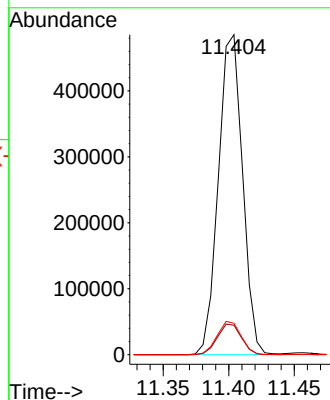
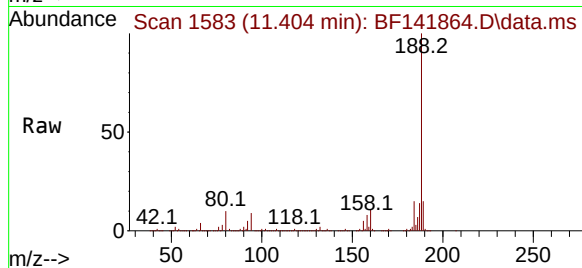




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

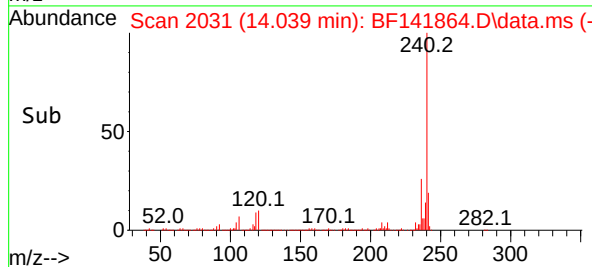
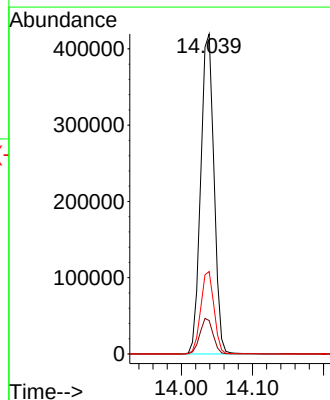
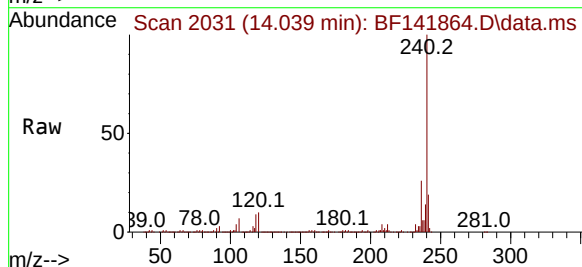
Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

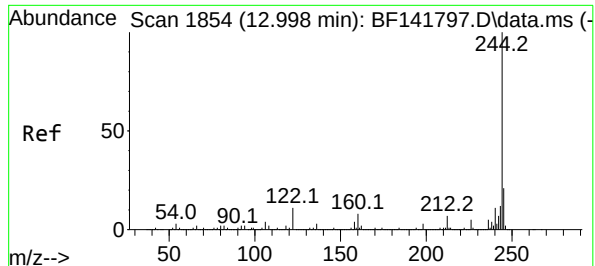
Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.2	8.9	13.3
80	9.8	9.7	14.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141864.D
Acq: 06 Mar 2025 13:01

Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.4	9.7	14.5
236	25.8	21.0	31.4





#79

Terphenyl-d14

Concen: 58.410 ng

RT: 12.986 min Scan# 1852

Delta R.T. -0.012 min

Lab File: BF141864.D

Acq: 06 Mar 2025 13:01

Instrument :

BNA_F

ClientSampleId :

ENV-102-SB02

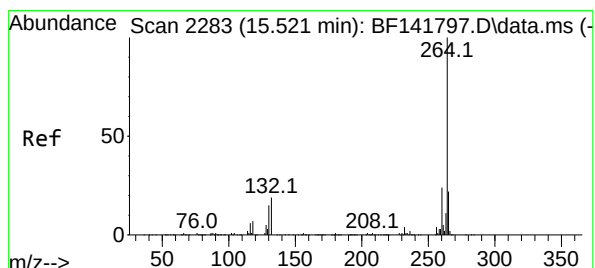
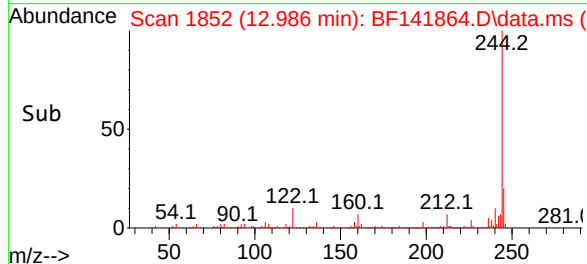
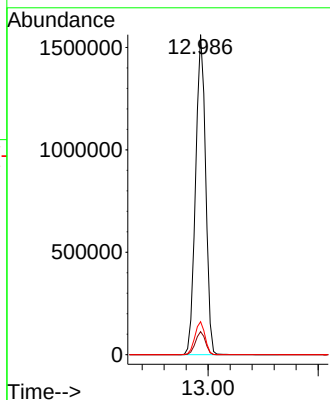
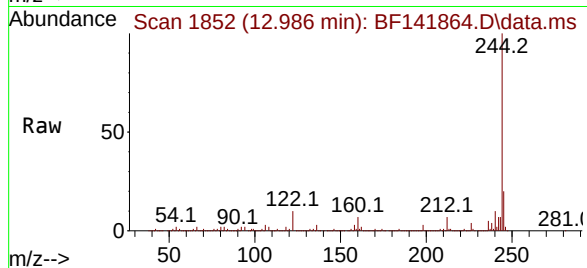
Tgt Ion:244 Resp: 1977777

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

122 10.3 9.0 13.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.509 min Scan# 2281

Delta R.T. -0.012 min

Lab File: BF141864.D

Acq: 06 Mar 2025 13:01

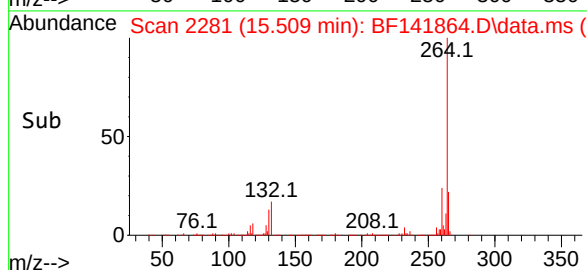
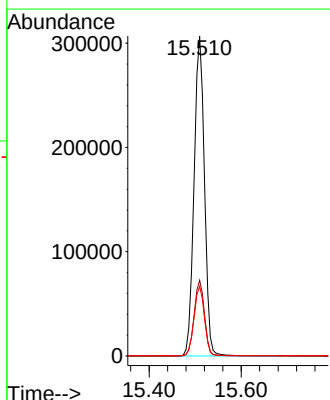
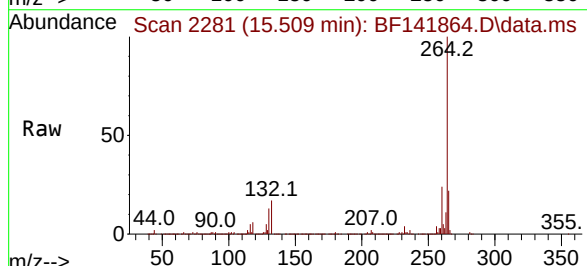
Tgt Ion:264 Resp: 479609

Ion Ratio Lower Upper

264 100

260 23.6 18.9 28.3

265 21.8 17.4 26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
 Data File : BF141864.D
 Acq On : 06 Mar 2025 13:01
 Operator : RC/JU
 Sample : Q1488-07
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ENV-102-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-BF022725.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141864.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.157	4	11	27	rVB	754270	1215773	23.10%	3.477%
2	5.498	573	579	584	rBV	2520977	3307115	62.82%	9.459%
3	6.498	743	749	763	rBV	2529398	3495534	66.40%	9.998%
4	6.887	809	815	820	rBV	771139	972326	18.47%	2.781%
5	7.439	903	909	914	rBV	1759224	2244924	42.65%	6.421%
6	7.692	947	952	960	rVB	60796	74606	1.42%	0.213%
7	8.163	1026	1032	1037	rBV	1053056	1294356	24.59%	3.702%
8	9.239	1209	1215	1220	rBV	3357884	4392367	83.44%	12.563%
9	9.916	1325	1330	1335	rBV	1222255	1501914	28.53%	4.296%
10	10.627	1445	1451	1458	rBV	304182	375163	7.13%	1.073%
11	10.704	1458	1464	1474	rBV	2261539	2977623	56.56%	8.516%
12	11.404	1577	1583	1588	rBV	1216296	1563249	29.70%	4.471%
13	11.927	1662	1672	1693	rBV	930733	1631918	31.00%	4.667%
14	12.627	1786	1791	1798	rBV4	33184	73409	1.39%	0.210%
15	12.710	1798	1805	1818	rVV	428615	719514	13.67%	2.058%
16	12.986	1846	1852	1857	rBV	4158918	5264159	100.00%	15.056%
17	13.674	1965	1969	1974	rBV	61212	76168	1.45%	0.218%
18	13.880	1999	2004	2012	rBV	321738	584000	11.09%	1.670%
19	14.039	2025	2031	2038	rVB	1132997	1503836	28.57%	4.301%
20	14.515	2107	2112	2118	rBV2	48120	108912	2.07%	0.311%
21	15.157	2217	2221	2226	rBV	41070	68220	1.30%	0.195%
22	15.510	2275	2281	2287	rBV	825165	1304961	24.79%	3.732%
23	16.057	2369	2374	2397	rVB3	36639	146812	2.79%	0.420%
24	16.504	2446	2450	2465	rVB5	32021	66911	1.27%	0.191%

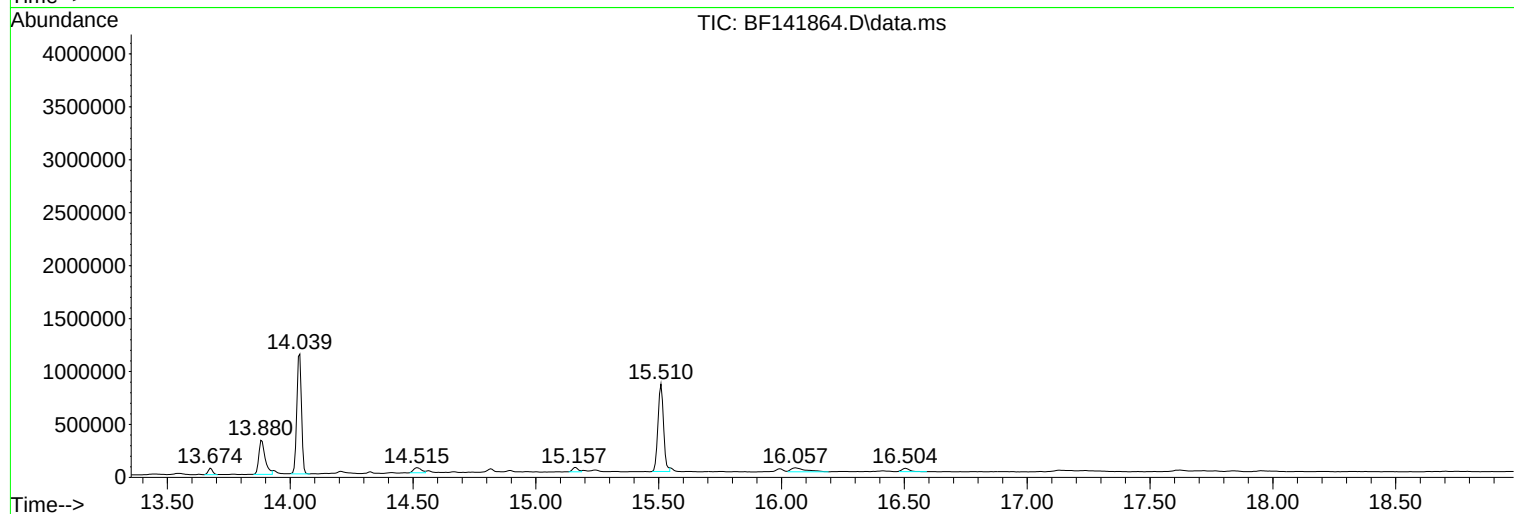
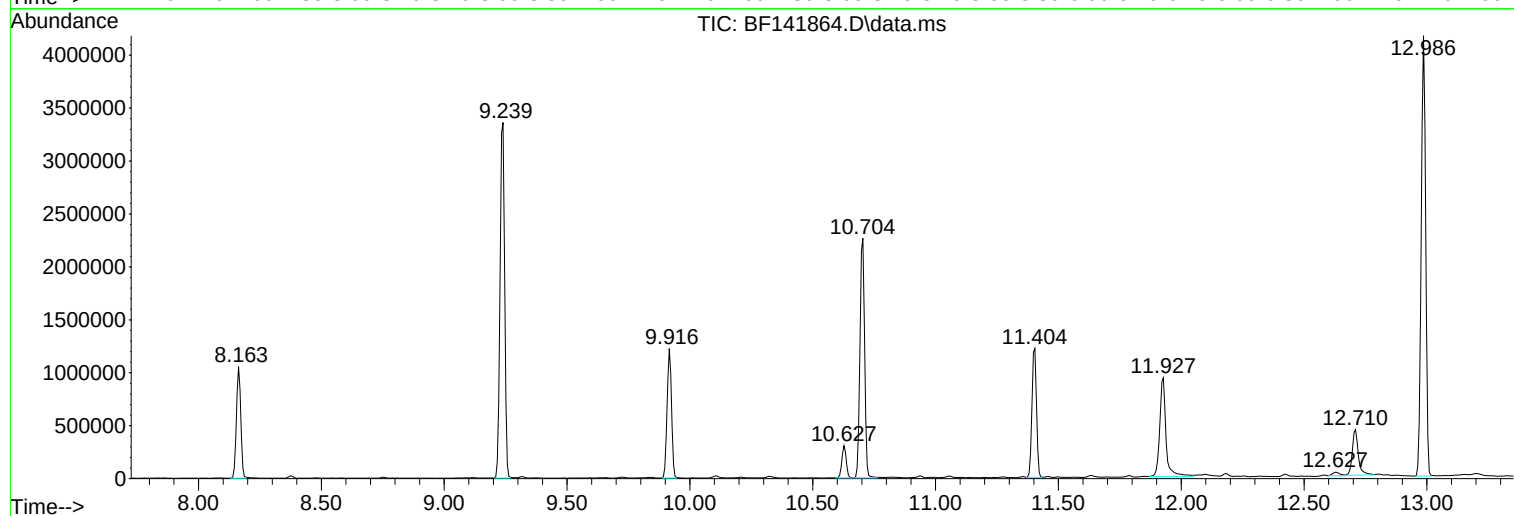
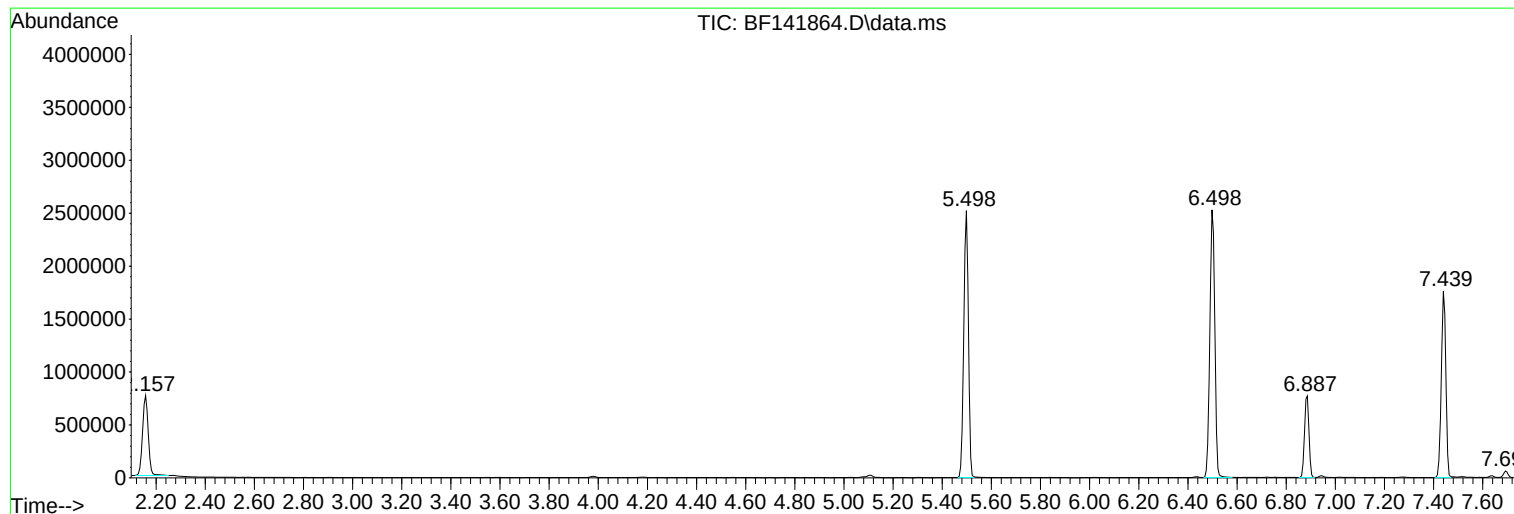
Sum of corrected areas: 34963770

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

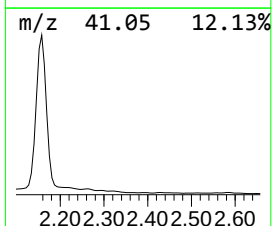
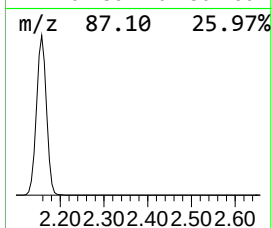
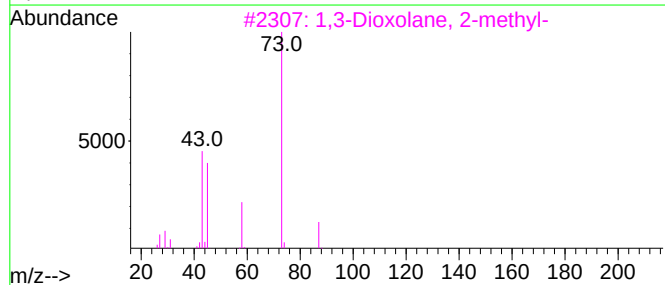
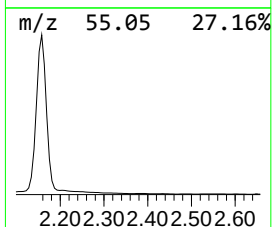
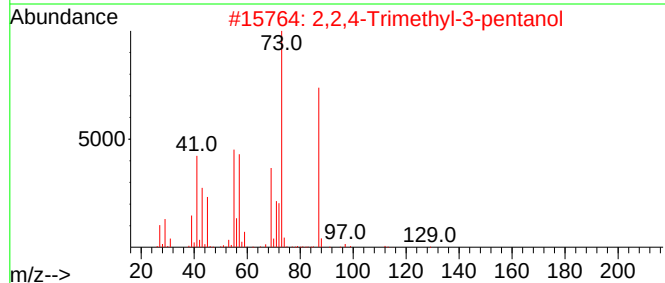
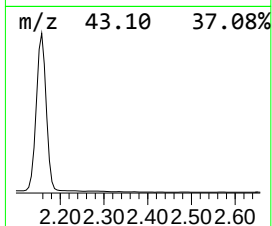
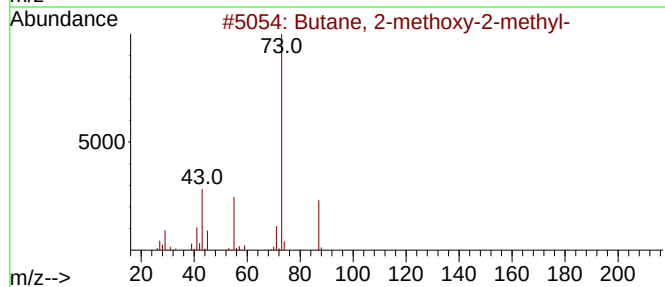
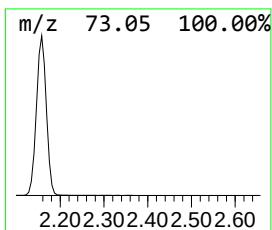
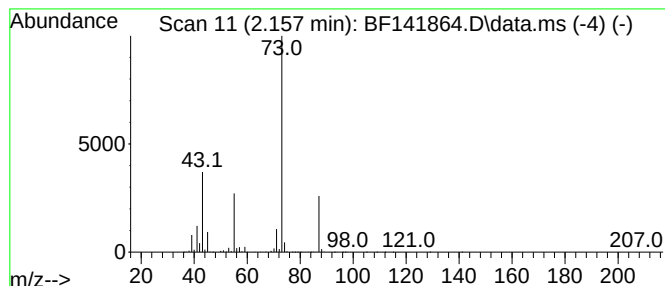
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.157	25.01 ng	1215770	1,4-Dichlorobenzene-d4	6.887

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2			2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3			1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	37
4			Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
5			Silane, tetramethyl-	88	C4H12Si	000075-76-3	12



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

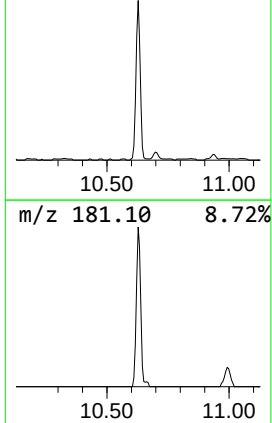
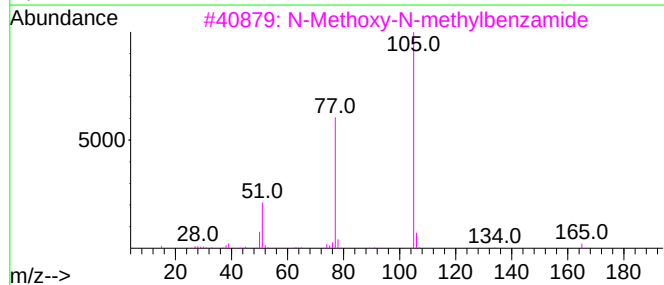
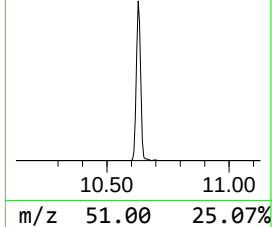
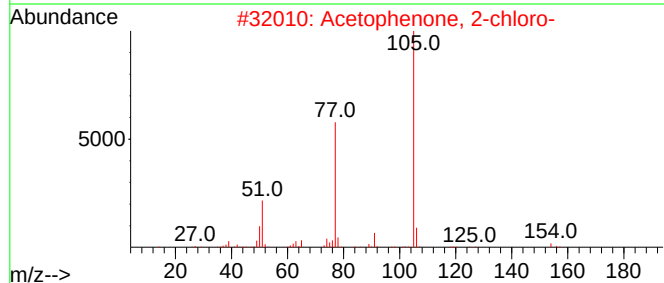
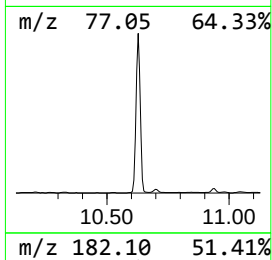
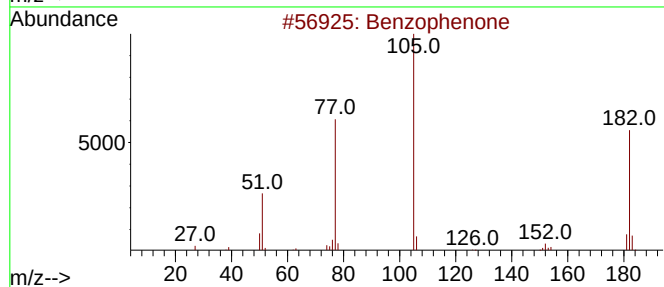
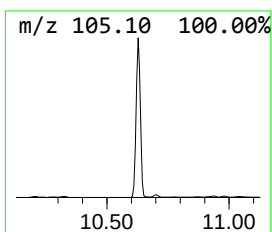
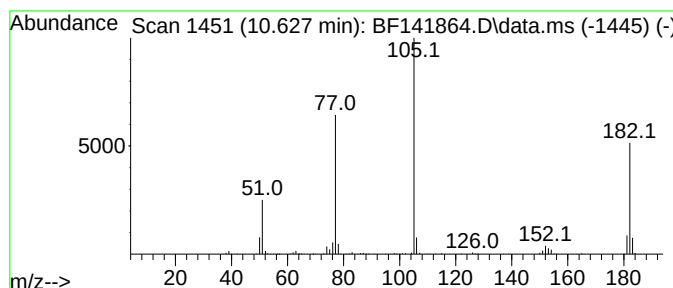
Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
10.628	5.00 ng	375163	Acenaphthene-d10	9.916	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
3	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47
4	N-Methylbenzamide, N-trifluoroac...	231	C10H8F3NO2	1000446-91-5	47
5	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

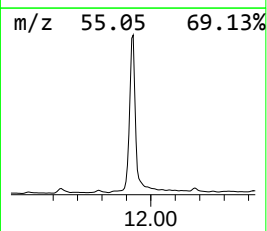
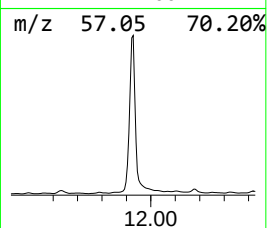
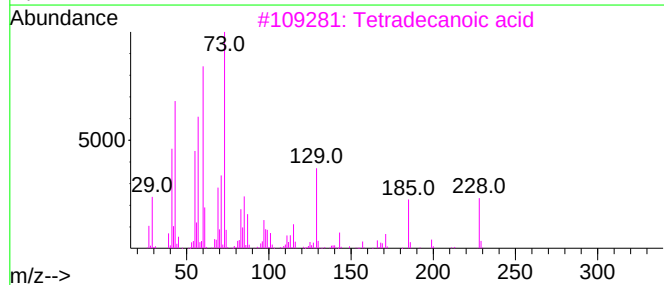
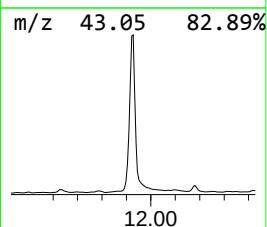
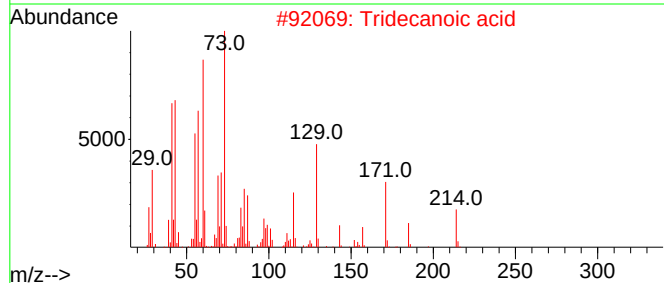
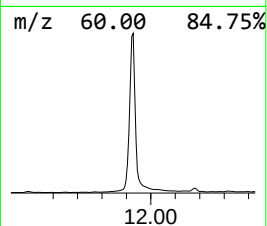
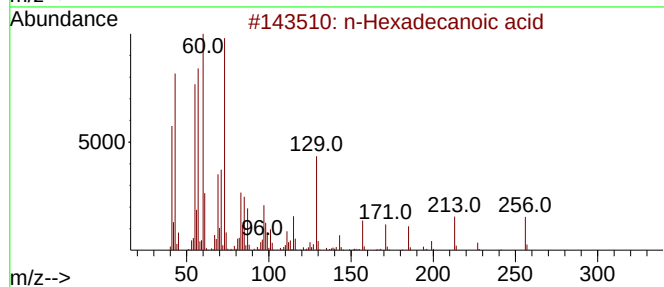
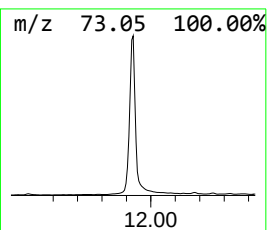
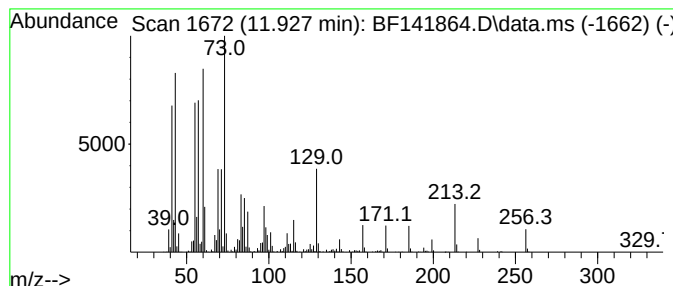
Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD		R.T.	
11.927	20.88 ng	1631920	Phenanthrene-d10		11.404	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid		256	C16H32O2	000057-10-3	99
2	Tridecanoic acid		214	C13H26O2	000638-53-9	95
3	Tetradecanoic acid		228	C14H28O2	000544-63-8	94
4	Pentadecanoic acid		242	C15H30O2	001002-84-2	91
5	n-Decanoic acid		172	C10H20O2	000334-48-5	62



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

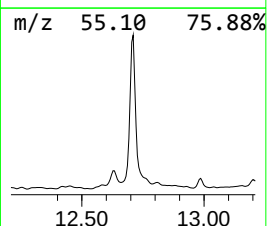
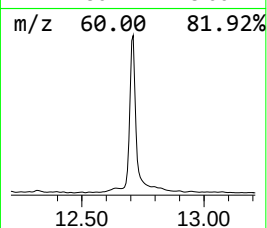
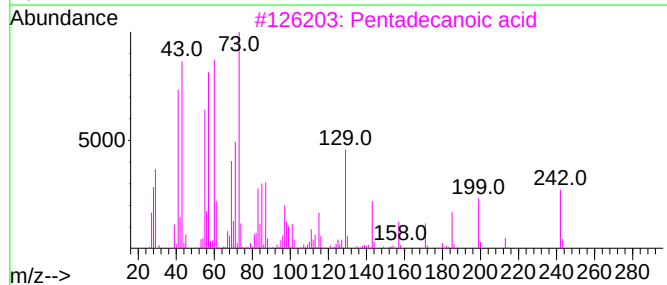
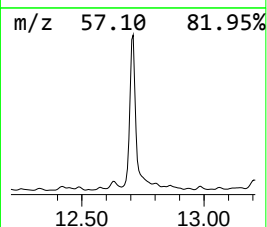
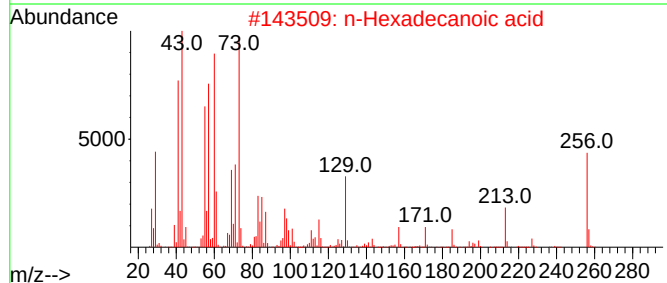
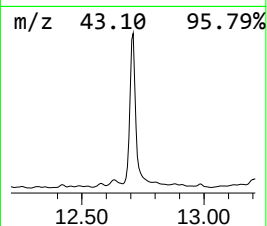
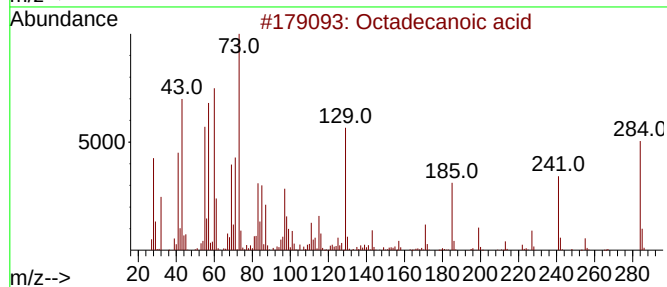
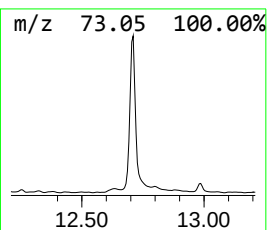
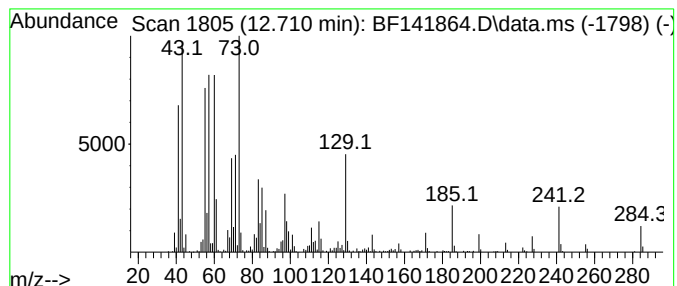
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Octadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.710	9.21 ng	719514	Phenanthrene-d10	11.404

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			Pentadecanoic acid	242	C15H30O2	001002-84-2	89
4			Tetradecanoic acid	228	C14H28O2	000544-63-8	87
5			Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	80



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

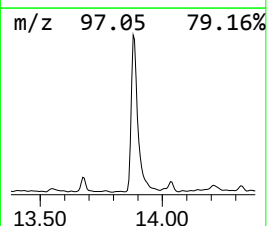
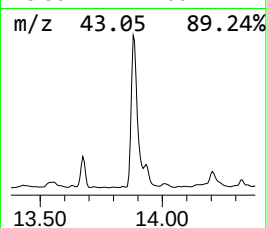
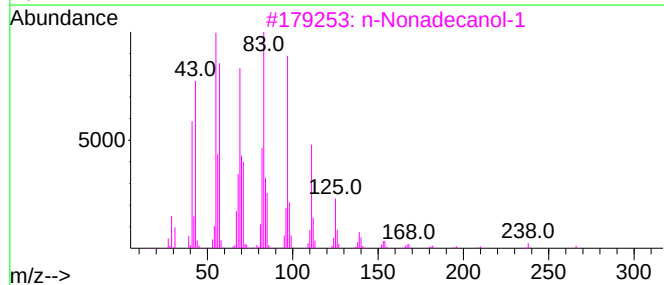
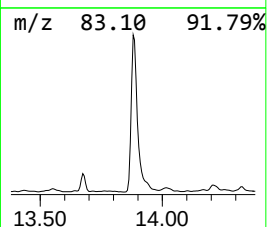
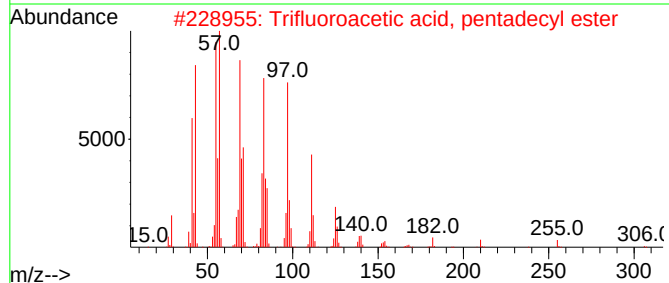
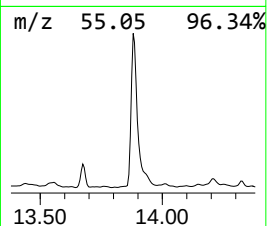
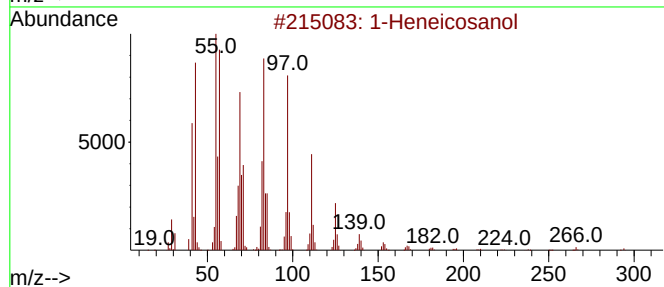
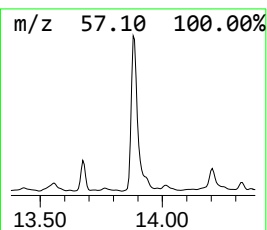
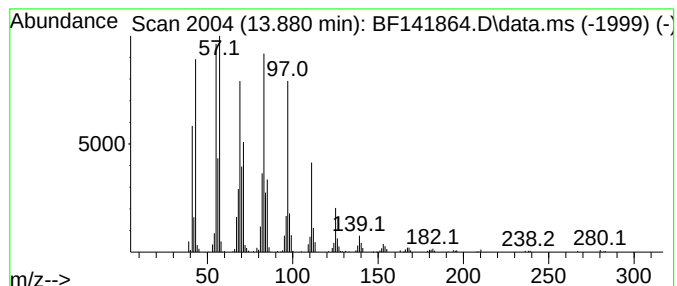
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 1-Heneicosanol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.880	7.77 ng	584000	Chrysene-d12	14.039

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1-Heneicosanol	312	C21H44O	015594-90-8	95
2			Trifluoroacetic acid, pentadecyl...	324	C17H31F3O2	959010-23-2	94
3			n-Nonadecanol-1	284	C19H40O	001454-84-8	94
4			1-Tetracosene	336	C24H48	010192-32-2	94
5			Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	94



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

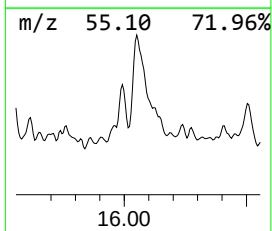
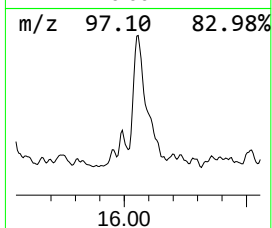
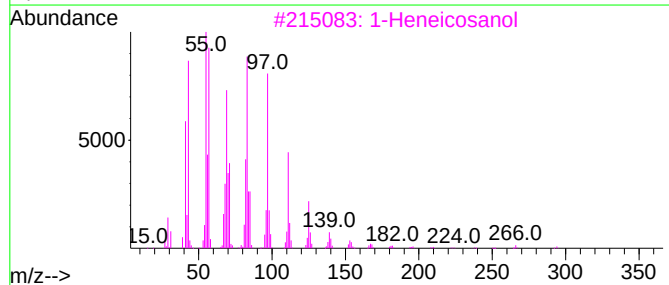
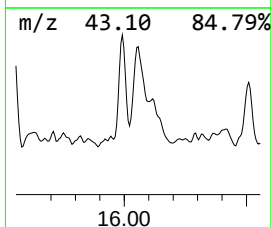
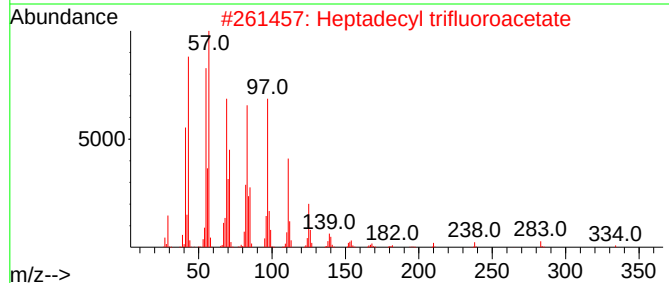
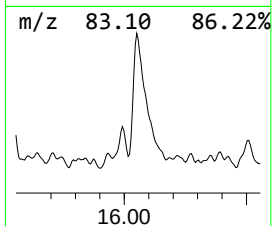
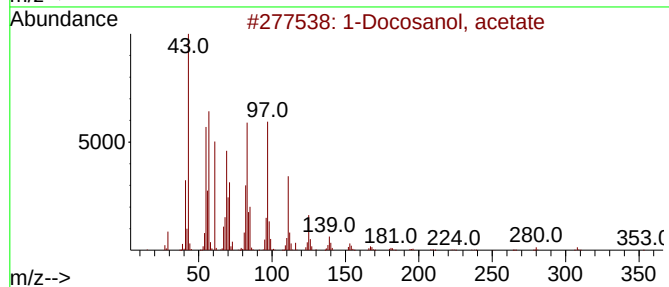
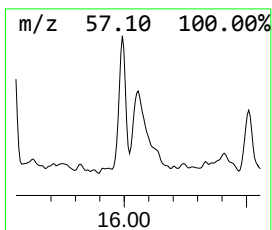
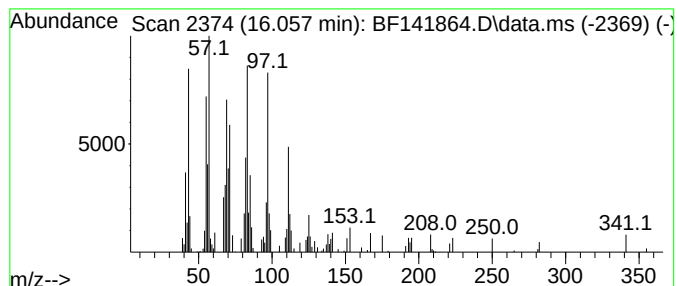
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 1-Docosanol, acetate Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.057	2.25 ng	146812	Perylene-d12	15.509

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1-Docosanol, acetate	368	C24H48O2	000822-26-4	91
2			Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	91
3			1-Heneicosanol	312	C21H44O	015594-90-8	90
4			1-Hexacosanol	382	C26H54O	000506-52-5	90
5			Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	90



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141864.D
Acq On : 06 Mar 2025 13:01
Operator : RC/JU
Sample : Q1488-07
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-SB02

A

B

C

D

E

F

G

H

I

J

K

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Butane, 2-metho...	2.157	25.0	ng	1215770	1	6.887	972326	20.0
Benzophenone	10.628	5.0	ng	375163	3	9.916	1501910	20.0
n-Hexadecanoic ...	11.927	20.9	ng	1631920	4	11.404	1563250	20.0
Octadecanoic acid	12.710	9.2	ng	719514	4	11.404	1563250	20.0
1-Heneicosanol	13.880	7.8	ng	584000	5	14.039	1503840	20.0
1-Docosanol, ac...	16.057	2.3	ng	146812	6	15.509	1304960	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
 Data File : BF141843.D
 Acq On : 05 Mar 2025 14:52
 Operator : RC/JU
 Sample : Q1488-09
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ENV-104-SB01

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/06/2025
 Supervised By :Jagrut Upadhyay 03/06/2025

Quant Time: Mar 05 15:14:47 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 28 01:48:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	192627	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	725608	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	362334	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	551877	20.000	ng	0.00
76) Chrysene-d12	14.033	240	435864	20.000	ng	-0.02
86) Perylene-d12	15.510	264	488168	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1048419	86.920	ng	0.00
7) Phenol-d6	6.498	99	1311040	83.508	ng	-0.01
23) Nitrobenzene-d5	7.440	82	818591	72.111	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	277953	81.711	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	1254219	55.503	ng	0.00
79) Terphenyl-d14	12.986	244	978122	36.308	ng	-0.01
Target Compounds						
						Qvalue
75) Fluoranthene	12.610	202	89800	2.969	ng	98
78) Pyrene	12.839	202	84804	2.247	ng	100
83) Chrysene	14.063	228	64592	2.434	ng	96
88) Benzo(b)fluoranthene	15.074	252	104685m	3.148	ng	
90) Benzo(a)pyrene	15.445	252	61441	2.304	ng	97

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

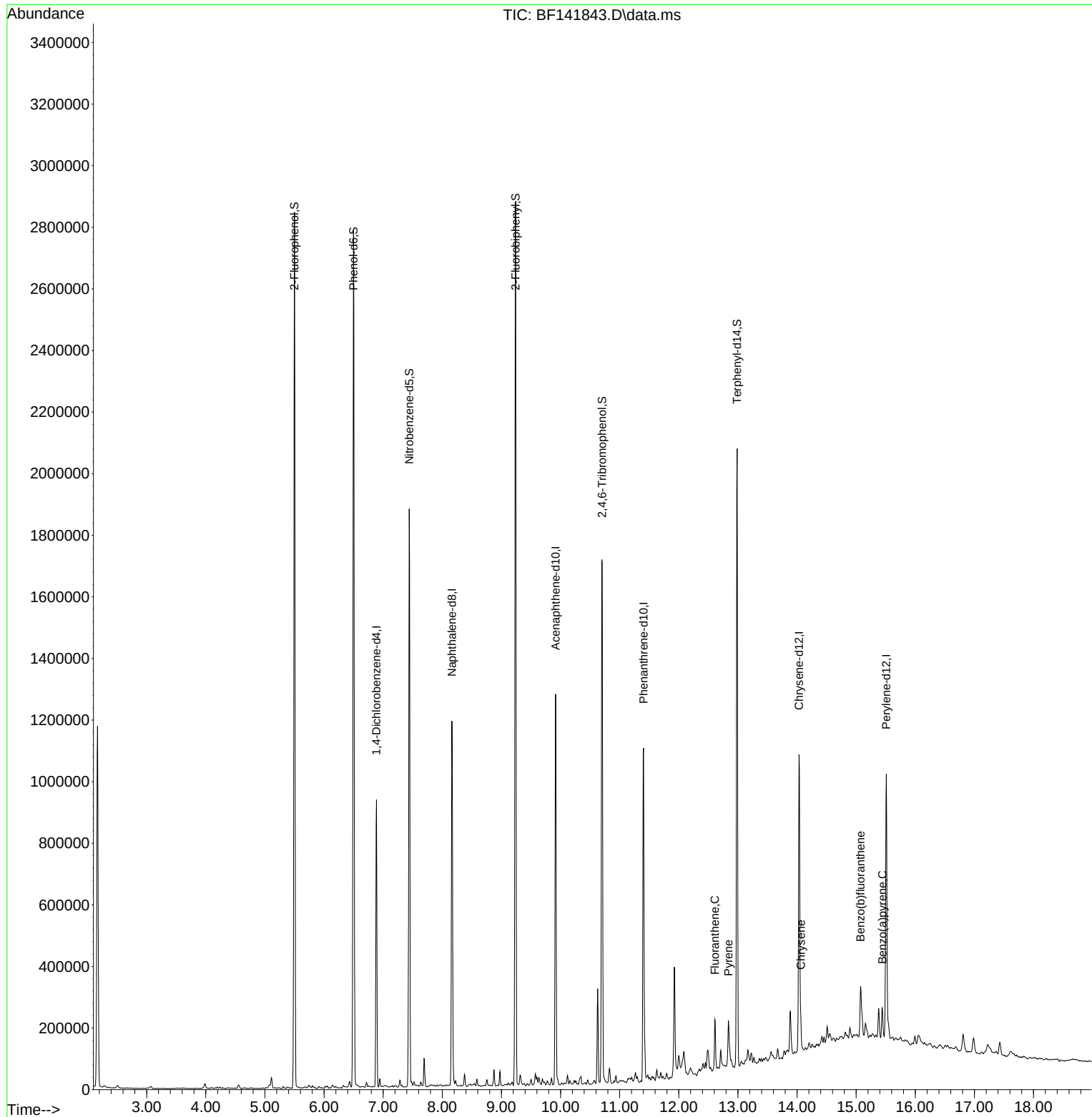
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Acq On : 05 Mar 2025 14:52
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Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

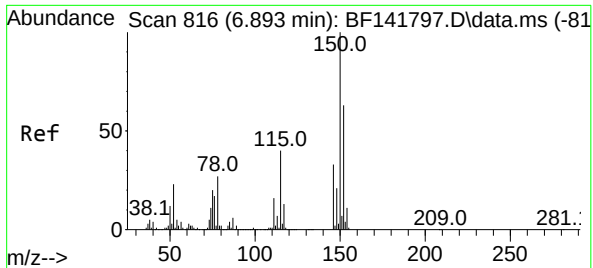
Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Quant Time: Mar 05 15:14:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

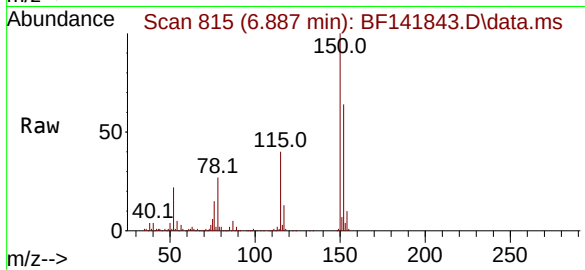
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 816
Delta R.T. -0.006 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

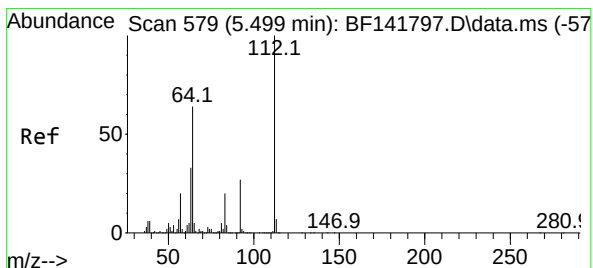
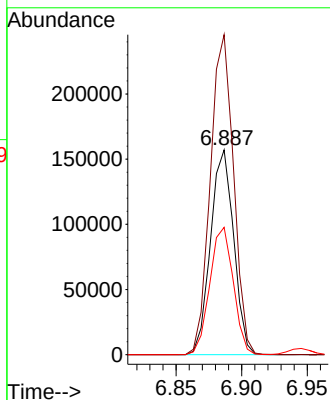
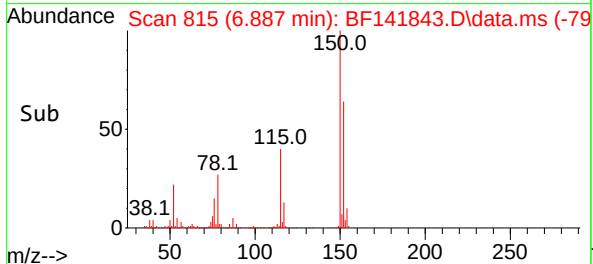
Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01



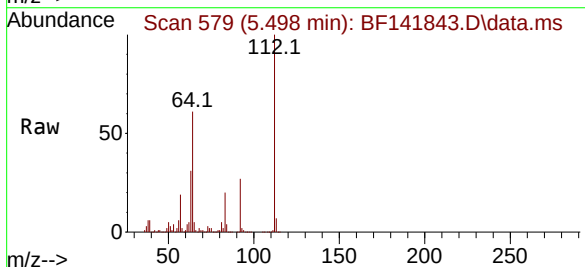
Tgt Ion:152 Resp: 19262
Ion Ratio Lower Upper
152 100
150 156.2 127.5 191.3
115 62.2 51.4 77.2

Manual Integrations
APPROVED

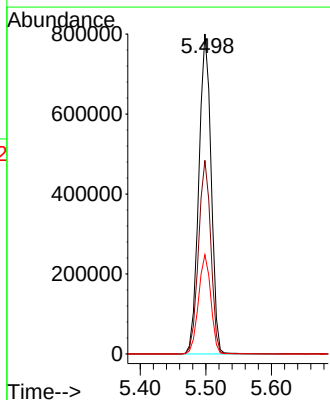
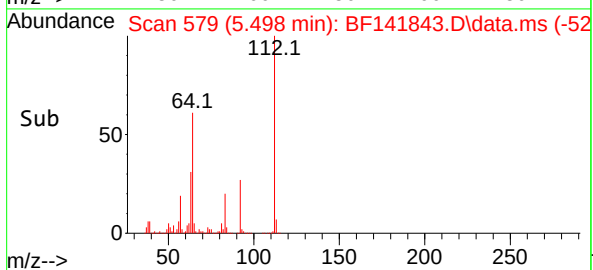
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

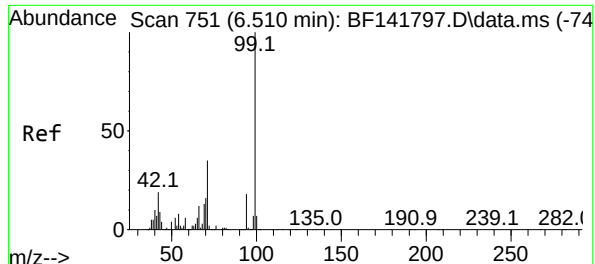


#5
2-Fluorophenol
Concen: 86.920 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52



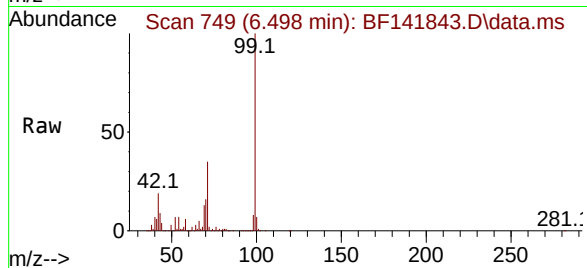
Tgt Ion:112 Resp: 1048419
Ion Ratio Lower Upper
112 100
64 60.5 51.3 76.9
63 31.0 26.2 39.4





#7
Phenol-d6
Concen: 83.508 ng
RT: 6.498 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

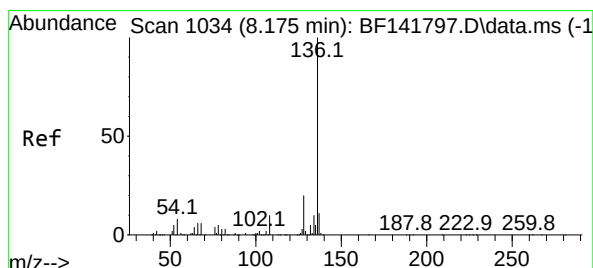
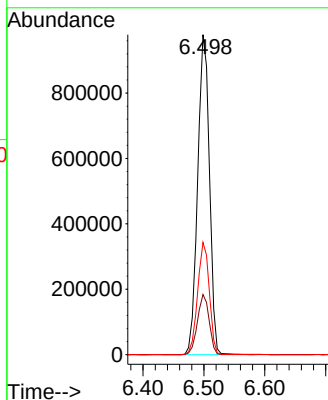
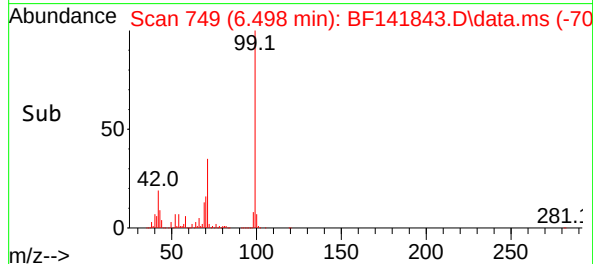
Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01



Tgt Ion: 99 Resp: 1311040
Ion Ratio Lower Upper
99 100
42 18.8 15.2 22.8
71 35.1 28.2 42.2

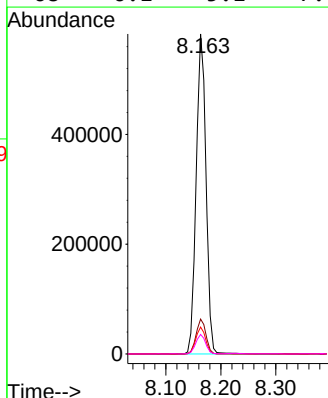
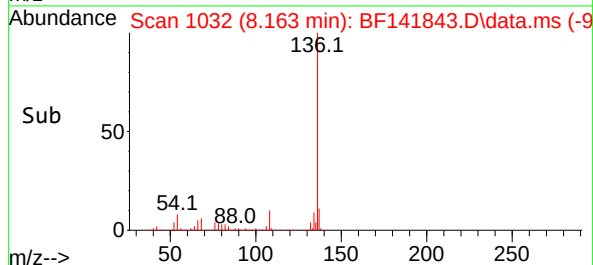
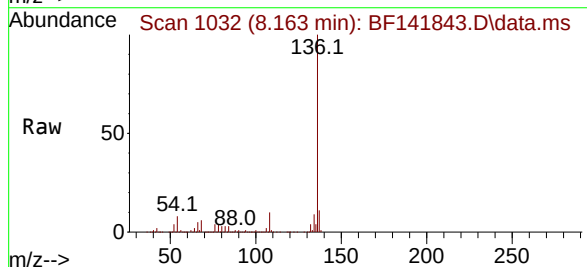
Manual Integrations
APPROVED

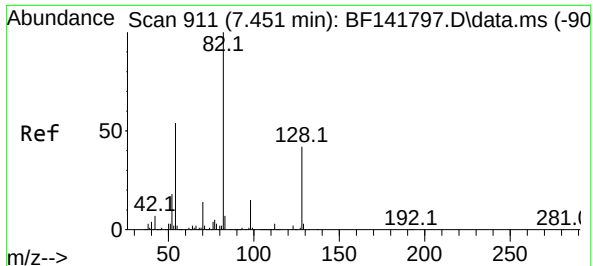
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:136 Resp: 725608
Ion Ratio Lower Upper
136 100
137 10.9 8.9 13.3
54 8.4 6.9 10.3
68 6.1 5.1 7.7





#23

Nitrobenzene-d5

Concen: 72.111 ng

RT: 7.440 min Scan# 909

Delta R.T. -0.012 min

Lab File: BF141843.D

Acq: 05 Mar 2025 14:52

Instrument :

BNA_F

ClientSampleId :

ENV-104-SB01

Tgt Ion: 82 Resp: 81859

Ion Ratio Lower Upper

82 100

128 43.7 33.5 50.3

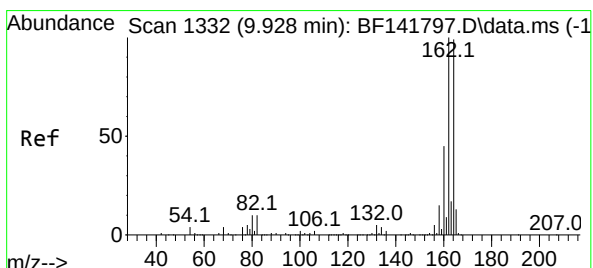
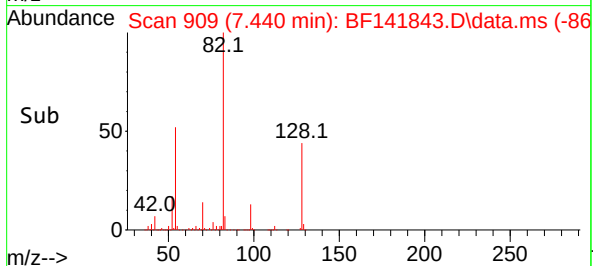
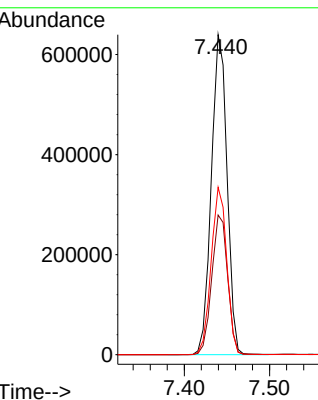
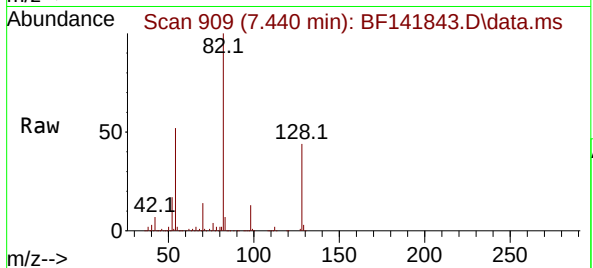
54 52.3 42.7 64.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/06/2025

Supervised By :Jagrut Upadhyay 03/06/2025



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1330

Delta R.T. -0.012 min

Lab File: BF141843.D

Acq: 05 Mar 2025 14:52

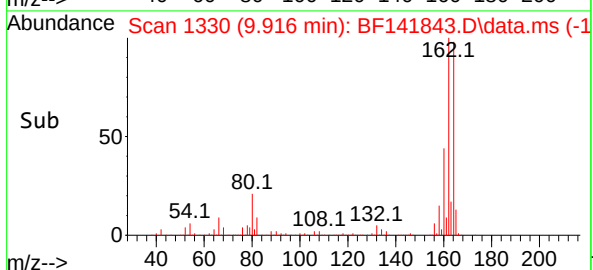
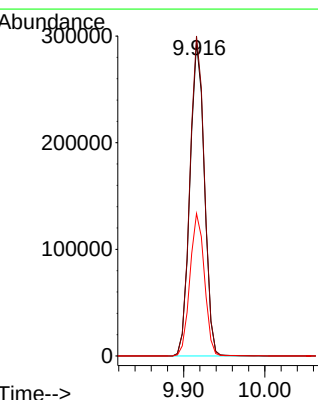
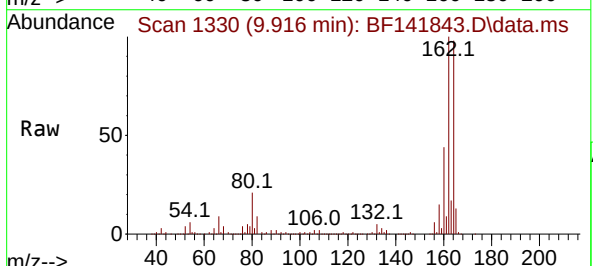
Tgt Ion:164 Resp: 362334

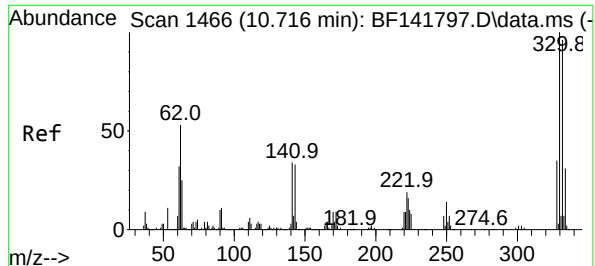
Ion Ratio Lower Upper

164 100

162 102.1 80.6 120.8

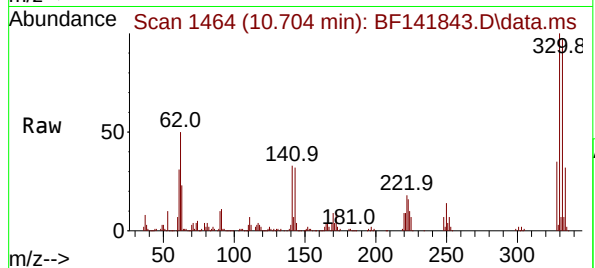
160 45.4 36.3 54.5





#42
2,4,6-Tribromophenol
Concen: 81.711 ng
RT: 10.704 min Scan# 1464
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

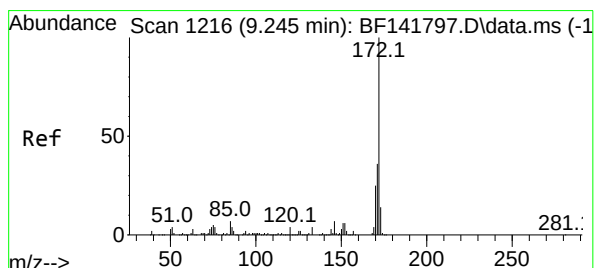
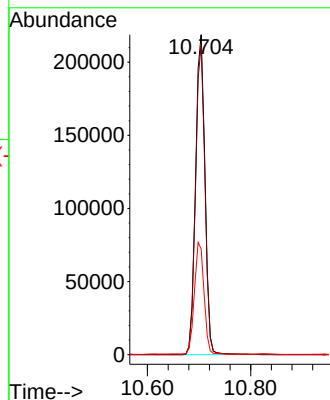
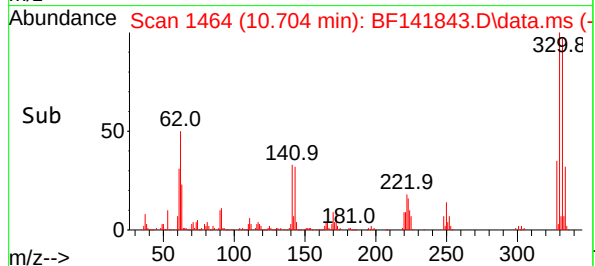
Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01



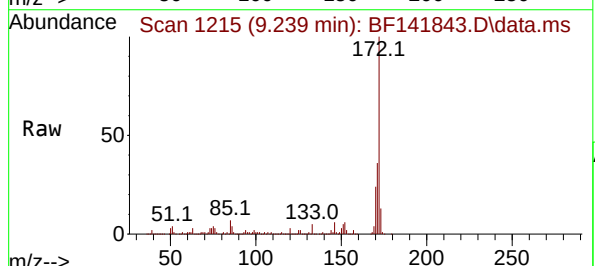
Tgt Ion: 330 Resp: 27795
Ion Ratio Lower Upper
330 100
332 96.1 76.6 115.0
141 35.7 29.0 43.4

Manual Integrations
APPROVED

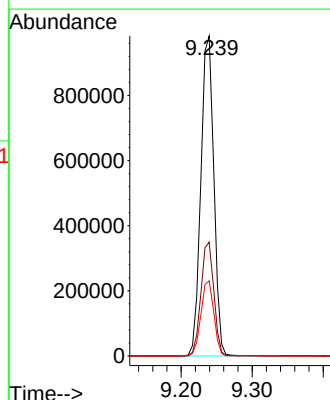
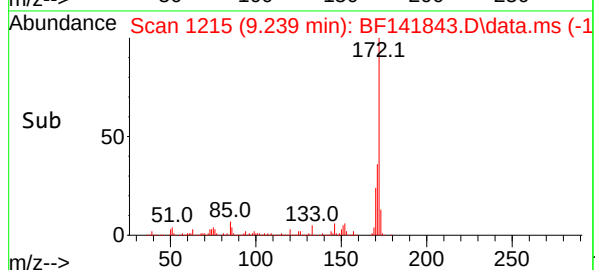
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

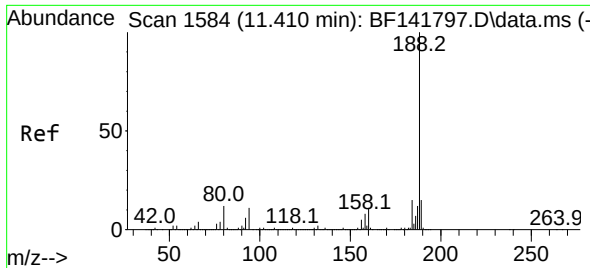


#45
2-Fluorobiphenyl
Concen: 55.503 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52



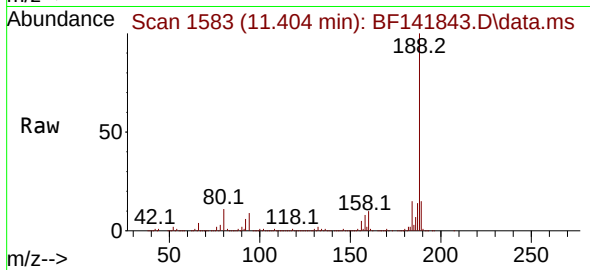
Tgt Ion: 172 Resp: 1254219
Ion Ratio Lower Upper
172 100
171 35.5 29.2 43.8
170 23.5 19.7 29.5





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

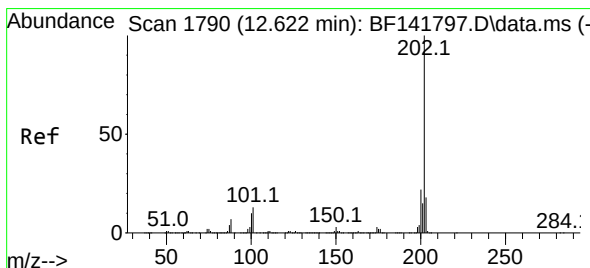
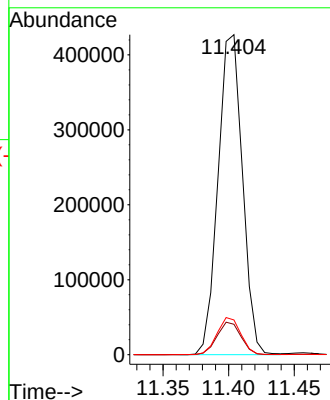
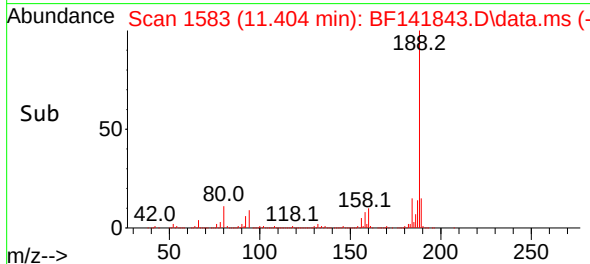
Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01



Tgt Ion:188 Resp: 55187
Ion Ratio Lower Upper
188 100
94 9.5 8.9 13.3
80 10.8 9.7 14.5

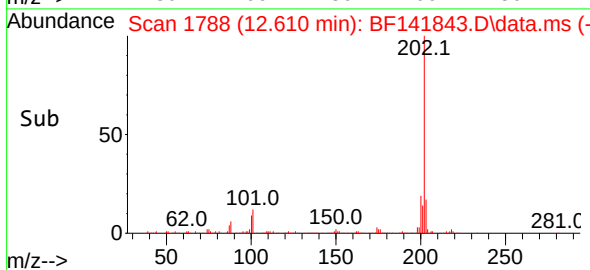
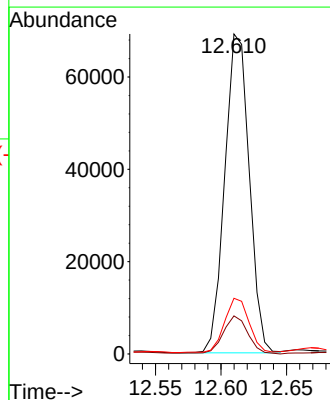
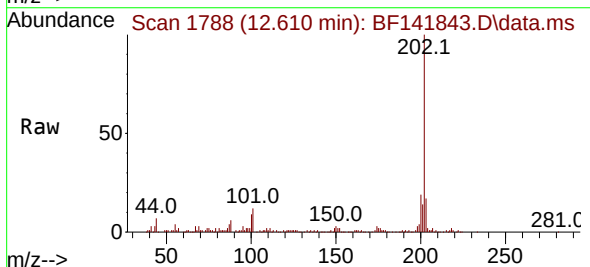
Manual Integrations
APPROVED

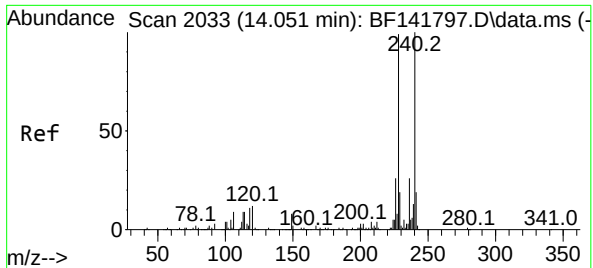
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#75
Fluoranthene
Concen: 2.969 ng
RT: 12.610 min Scan# 1788
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

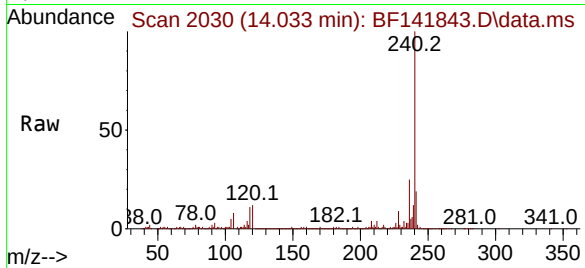
Tgt Ion:202 Resp: 89800
Ion Ratio Lower Upper
202 100
101 11.9 0.0 32.8
203 17.4 0.0 38.0





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2033
Delta R.T. -0.018 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

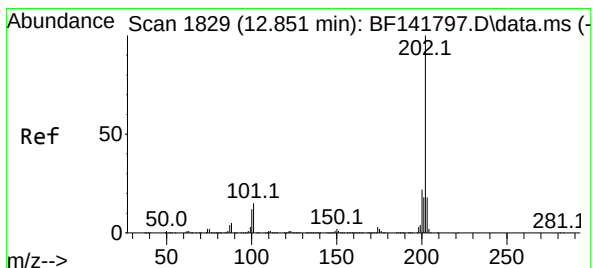
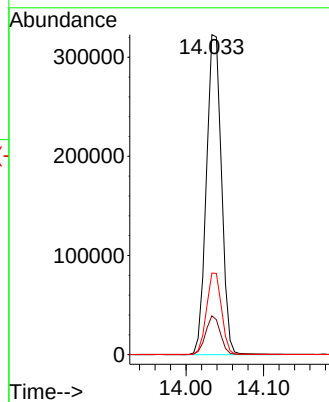
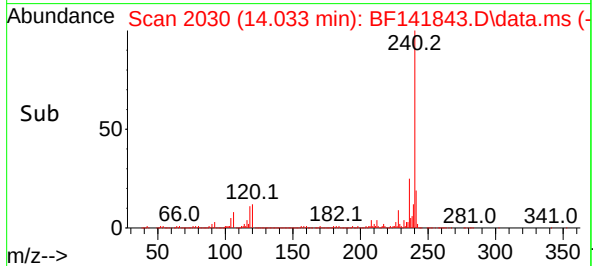
Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01



Tgt Ion:240 Resp: 435864
Ion Ratio Lower Upper
240 100
120 12.2 9.7 14.5
236 25.5 21.0 31.4

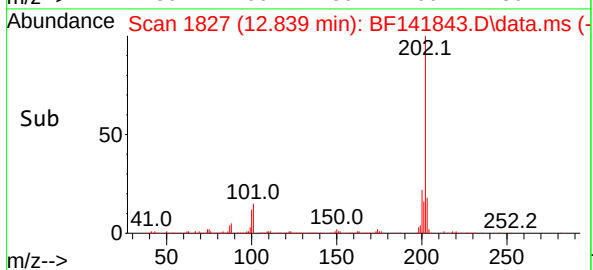
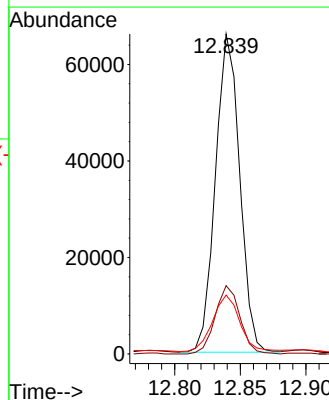
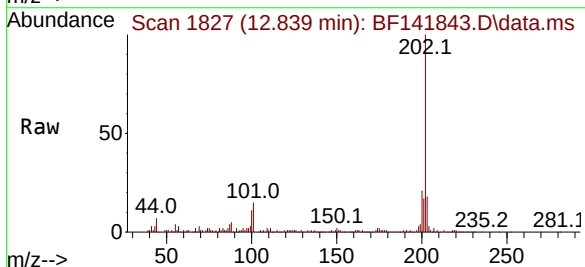
Manual Integrations
APPROVED

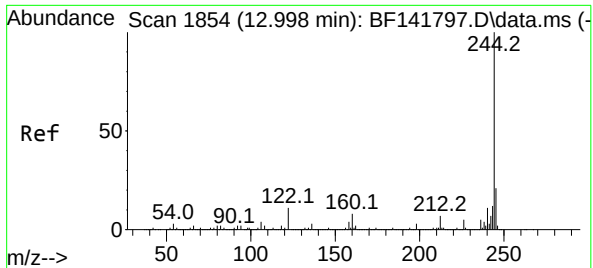
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#78
Pyrene
Concen: 2.247 ng
RT: 12.839 min Scan# 1827
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

Tgt Ion:202 Resp: 84804
Ion Ratio Lower Upper
202 100
200 21.4 17.4 26.0
203 18.4 14.6 22.0





#79

Terphenyl-d14

Concen: 36.308 ng

RT: 12.986 min Scan# 1852

Delta R.T. -0.012 min

Lab File: BF141843.D

Acq: 05 Mar 2025 14:52

Instrument :

BNA_F

ClientSampleId :

ENV-104-SB01

Tgt Ion:244 Resp: 97812

Ion Ratio Lower Upper

244 100

212 6.8 6.0 9.0

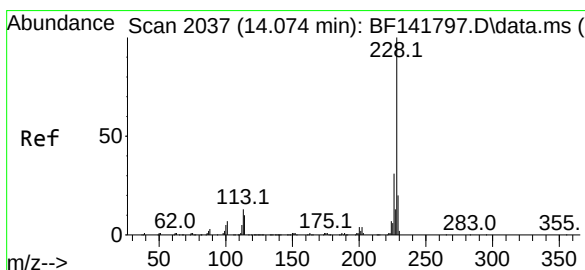
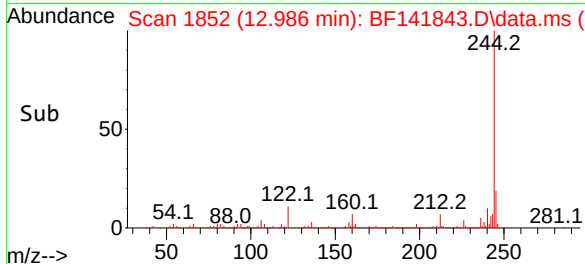
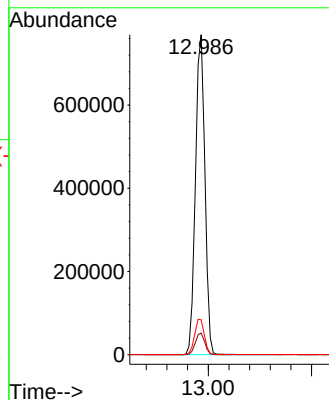
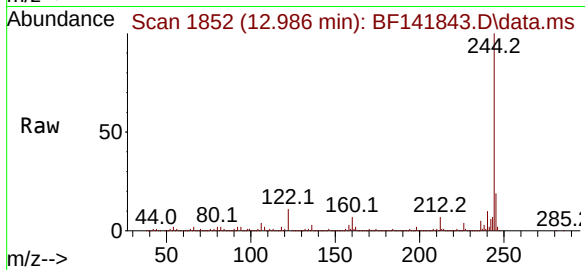
122 10.9 9.0 13.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/06/2025

Supervised By :Jagrut Upadhyay 03/06/2025



#83

Chrysene

Concen: 2.434 ng

RT: 14.063 min Scan# 2035

Delta R.T. -0.012 min

Lab File: BF141843.D

Acq: 05 Mar 2025 14:52

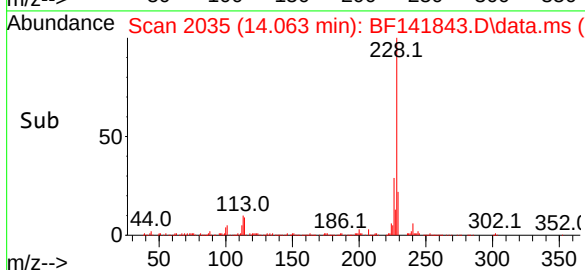
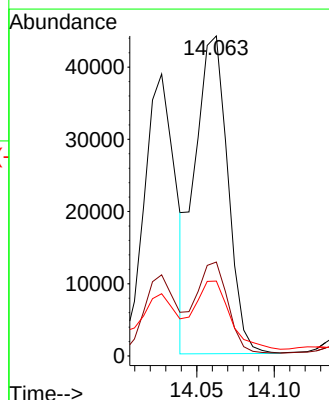
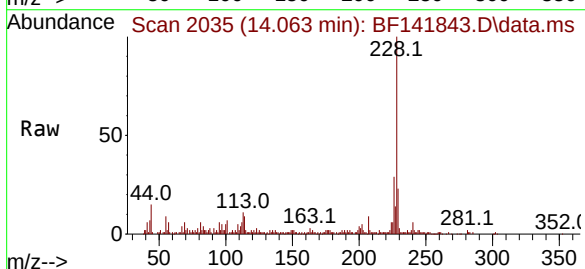
Tgt Ion:228 Resp: 64592

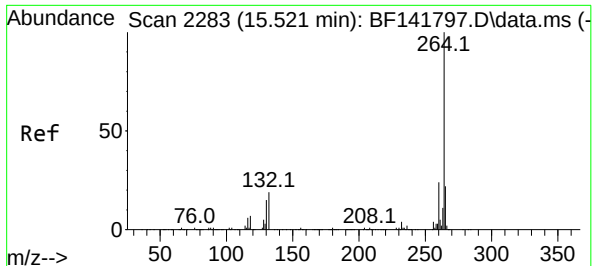
Ion Ratio Lower Upper

228 100

226 29.4 24.6 37.0

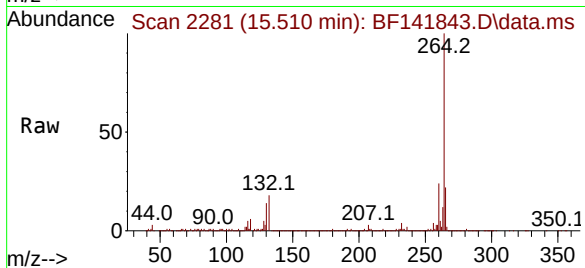
229 23.4 16.1 24.1





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52

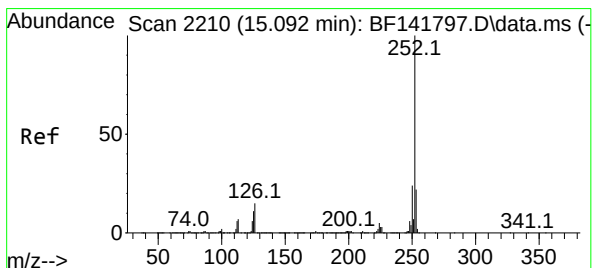
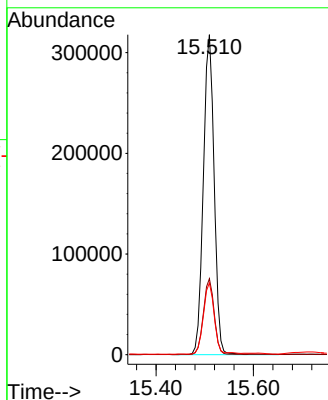
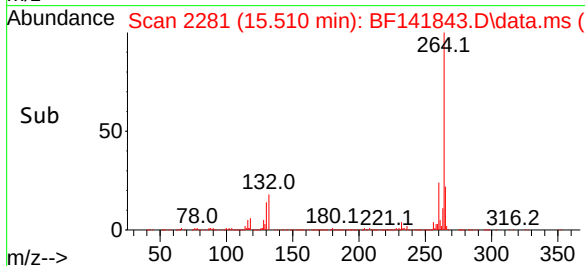
Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01



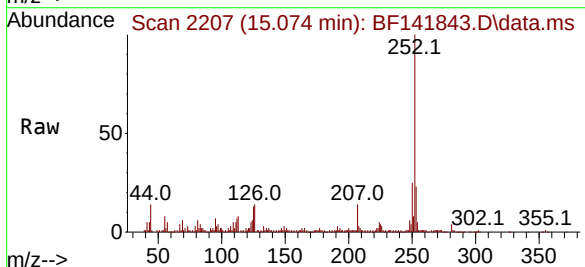
Tgt Ion:264 Resp: 48816
Ion Ratio Lower Upper
264 100
260 23.8 18.9 28.3
265 22.4 17.4 26.0

Manual Integrations
APPROVED

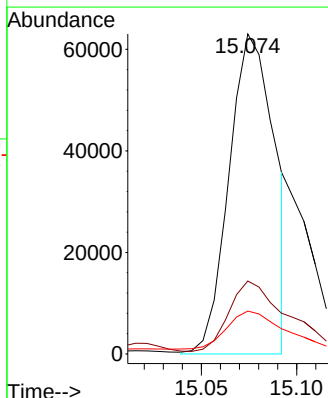
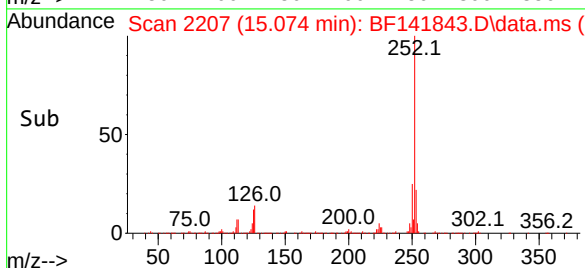
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

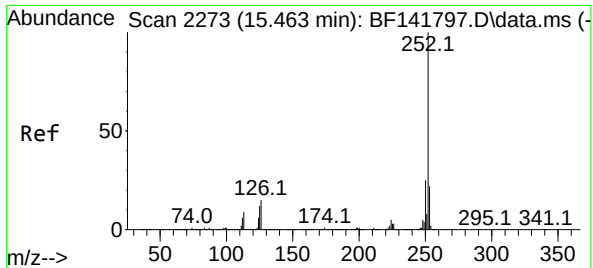


#88
Benzo(b)fluoranthene
Concen: 3.148 ng m
RT: 15.074 min Scan# 2207
Delta R.T. -0.018 min
Lab File: BF141843.D
Acq: 05 Mar 2025 14:52



Tgt Ion:252 Resp: 104685
Ion Ratio Lower Upper
252 100
253 22.8 17.7 26.5
125 13.4 8.6 13.0#





#90

Benzo(a)pyrene

Concen: 2.304 ng

RT: 15.445 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF141843.D

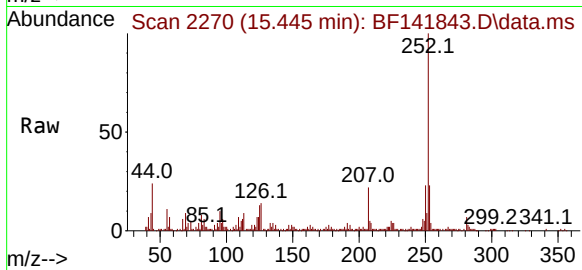
Acq: 05 Mar 2025 14:52

Instrument :

BNA_F

ClientSampleId :

ENV-104-SB01



Tgt Ion:252 Resp: 6144

Ion Ratio Lower Upper

252 100

253 23.0 17.5 26.3

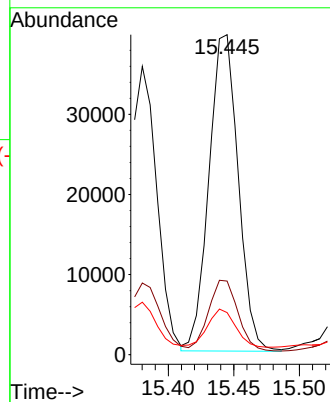
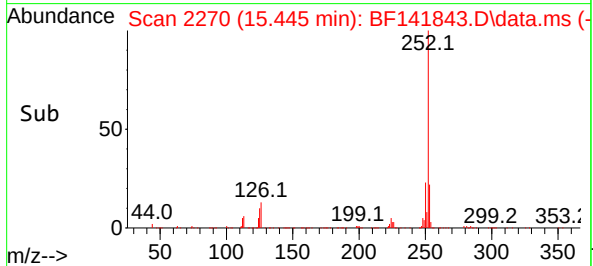
125 13.1 9.4 14.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/06/2025

Supervised By :Jagrut Upadhyay 03/06/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

A
B
C
D
E
F
G
H
I
J
K

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-BF022725.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141843.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.169	5	13	26	rVB	1173065	1864823	49.25%	5.714%
2	5.110	509	513	519	rVB2	33303	53879	1.42%	0.165%
3	5.498	573	579	584	rBV	2844702	3713108	98.07%	11.378%
4	6.498	743	749	759	rBV	2781960	3786299	100.00%	11.602%
5	6.887	809	815	821	rVB	932841	1167396	30.83%	3.577%
6	7.440	901	909	914	rBV	1876660	2417207	63.84%	7.407%
7	7.692	948	952	958	rVB	91494	113787	3.01%	0.349%
8	8.163	1026	1032	1039	rBV	1182559	1510343	39.89%	4.628%
9	8.375	1063	1068	1076	rVB2	39940	58674	1.55%	0.180%
10	8.875	1146	1153	1158	rVB	53400	67758	1.79%	0.208%
11	8.975	1166	1170	1174	rBV	46299	54035	1.43%	0.166%
12	9.239	1209	1215	1220	rBV	2870613	3692003	97.51%	11.313%
13	9.322	1224	1229	1235	rVB2	31544	53959	1.43%	0.165%
14	9.575	1265	1272	1274	rBV	36053	52945	1.40%	0.162%
15	9.916	1324	1330	1335	rBV	1267609	1583722	41.83%	4.853%
16	10.628	1445	1451	1458	rBV	307754	387402	10.23%	1.187%
17	10.698	1458	1463	1478	rVV	1700314	2295535	60.63%	7.034%
18	10.828	1480	1485	1492	rVB2	47847	81799	2.16%	0.251%
19	11.269	1554	1560	1563	rBV3	27300	46927	1.24%	0.144%
20	11.404	1577	1583	1590	rBV	1082434	1549322	40.92%	4.747%
21	11.628	1616	1621	1628	rBV2	34722	66861	1.77%	0.205%
22	11.927	1664	1672	1680	rBV2	357903	603851	15.95%	1.850%
23	11.998	1680	1684	1689	rVV2	62673	135846	3.59%	0.416%
24	12.086	1692	1699	1705	rVB2	69049	186635	4.93%	0.572%
25	12.492	1763	1768	1773	rVB3	60057	116524	3.08%	0.357%
26	12.610	1784	1788	1794	rBV	159439	210613	5.56%	0.645%
27	12.710	1801	1805	1813	rBV2	58413	103736	2.74%	0.318%
28	12.839	1822	1827	1834	rBV2	145054	260460	6.88%	0.798%
29	12.986	1846	1852	1859	rVB	2004684	2598058	68.62%	7.961%
30	13.169	1880	1883	1889	rVB4	34463	53731	1.42%	0.165%
31	13.886	2000	2005	2014	rVB2	139274	243634	6.43%	0.747%
32	14.033	2025	2030	2044	rVB2	958697	1490757	39.37%	4.568%
33	15.074	2203	2207	2217	rVB	158723	318578	8.41%	0.976%
34	15.380	2255	2259	2265	rVB	94695	140356	3.71%	0.430%
35	15.439	2265	2269	2275	rVV	97908	153298	4.05%	0.470%
36	15.510	2275	2281	2293	rVB	859658	1401178	37.01%	4.293%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

A

B

C

D

E

F

G

H

I

J

K

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-BF022725.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

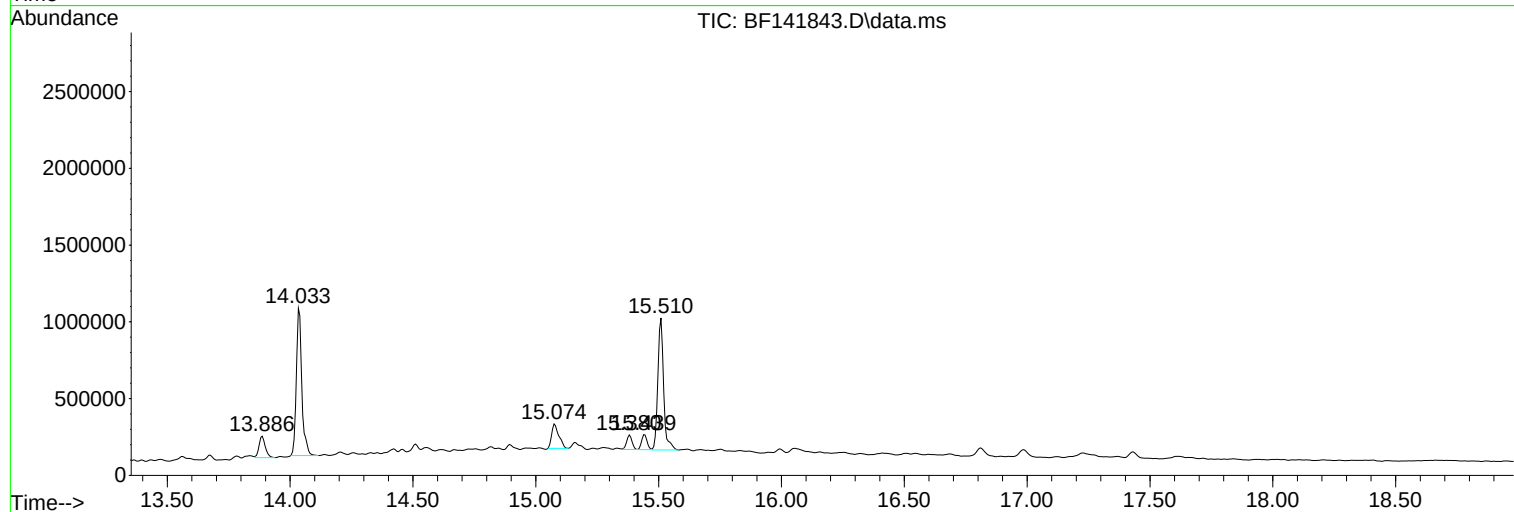
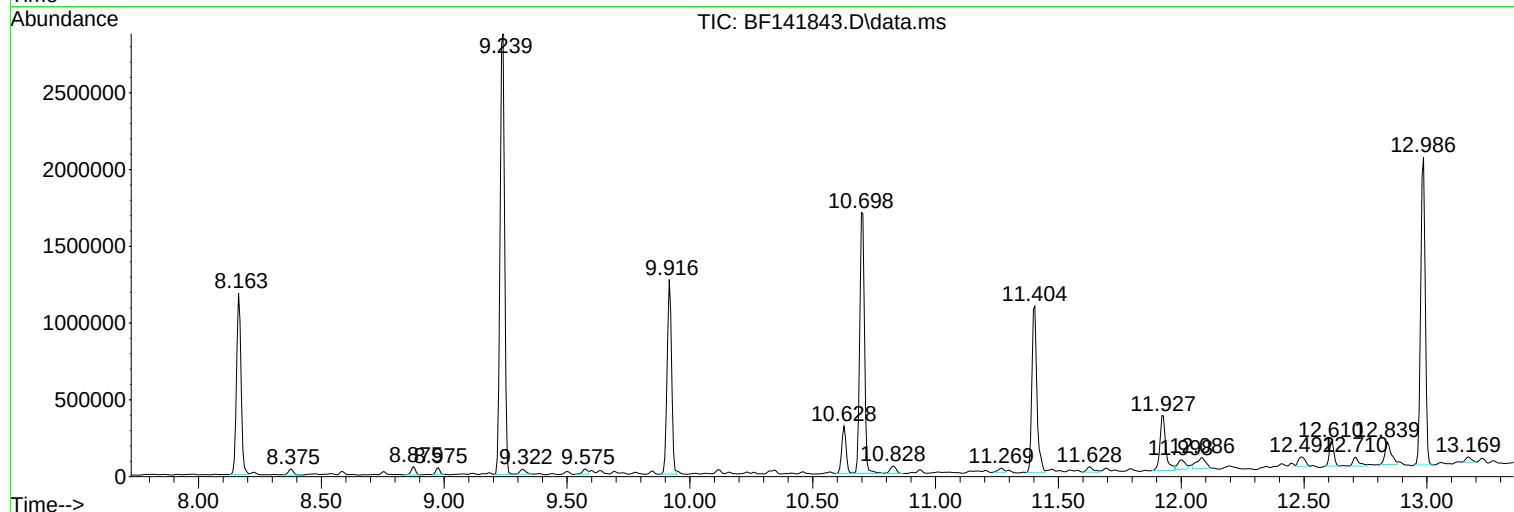
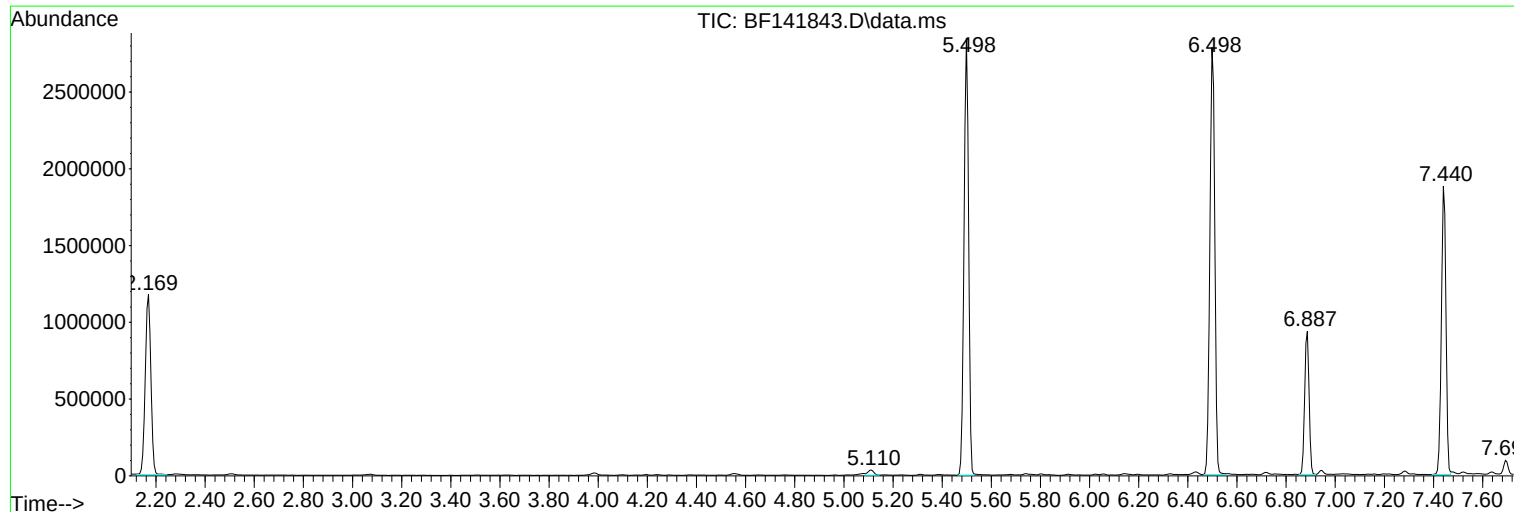
Sum of corrected areas: 32635039

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

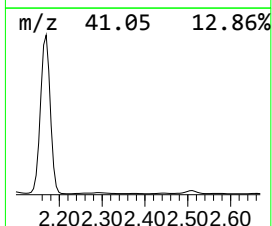
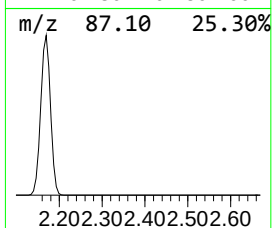
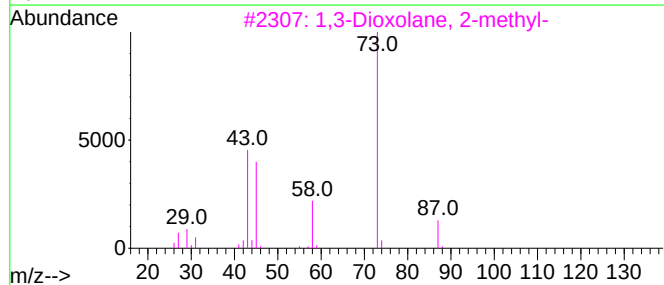
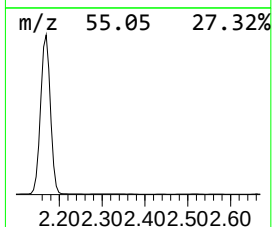
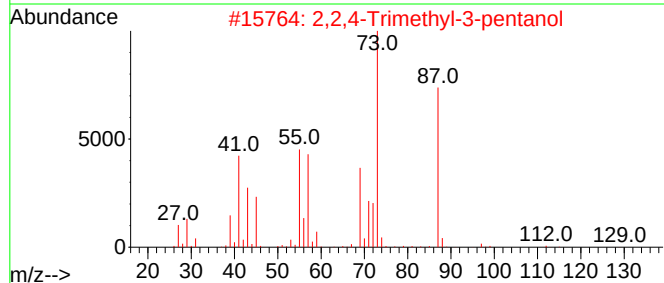
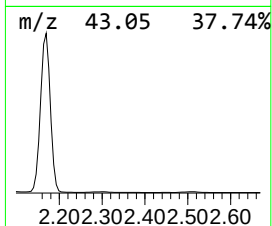
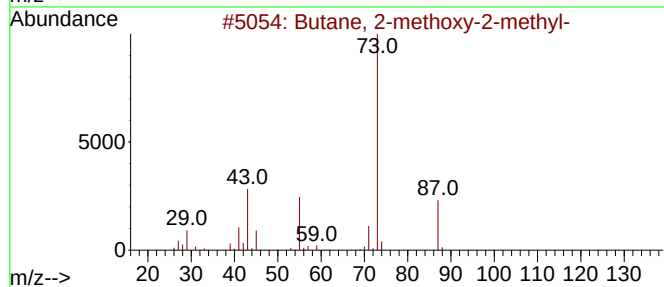
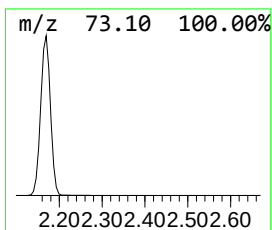
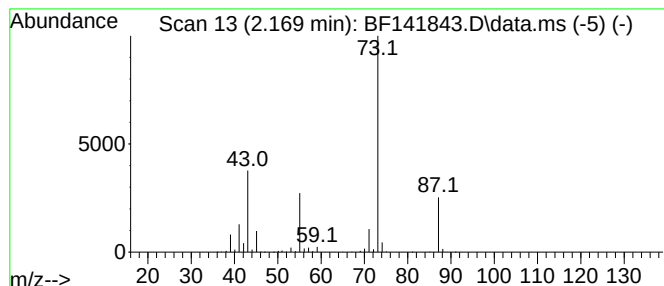
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.169	31.95 ng	1864820	1,4-Dichlorobenzene-d4	6.887

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2			2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3			1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4			Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
5			Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

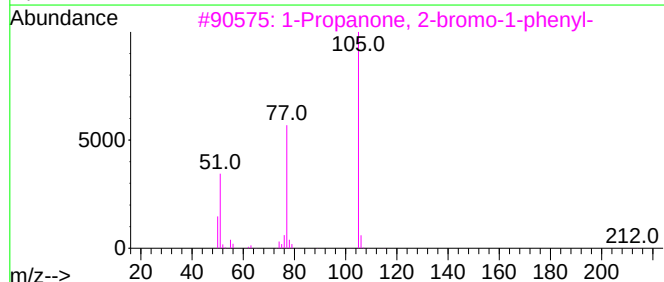
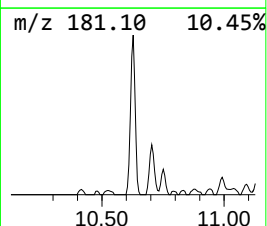
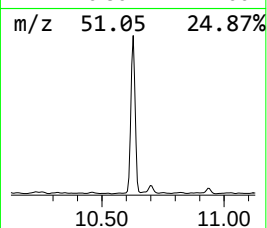
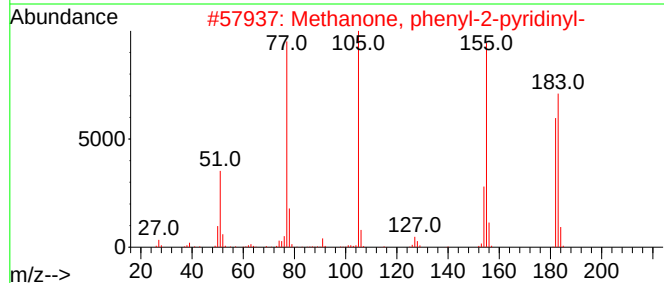
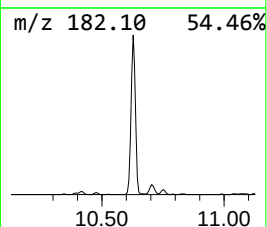
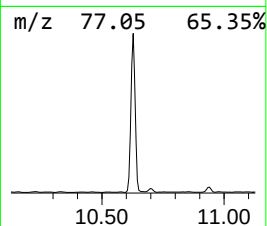
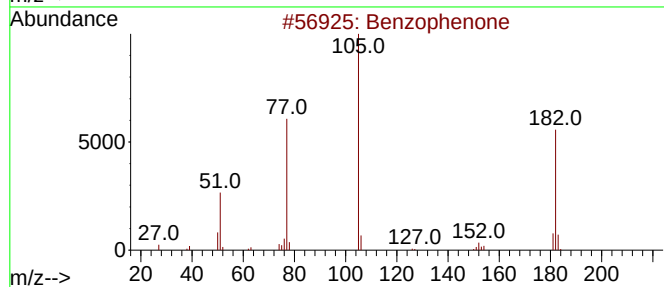
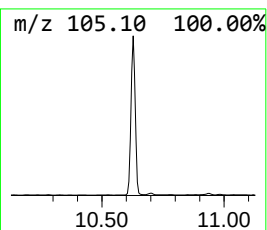
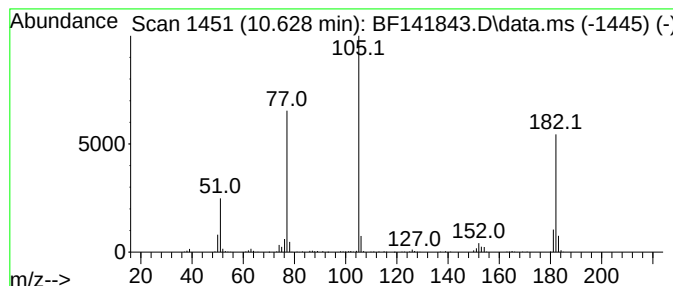
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.628	4.89 ng	387402	Acenaphthene-d10	9.916

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Methanone, phenyl-2-pyridinyl-	183	C12H9NO	000091-02-1	72
3			1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47
4			2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	47
5			Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

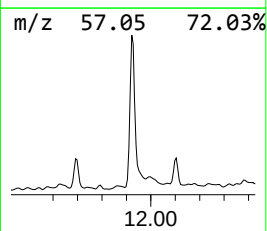
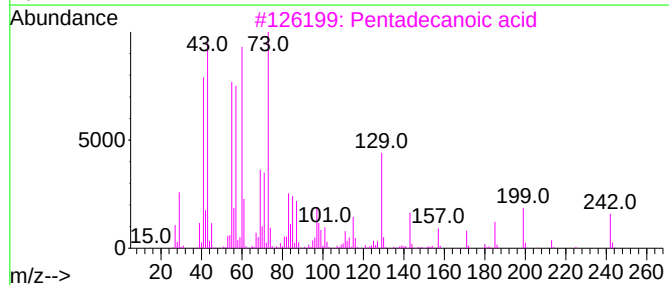
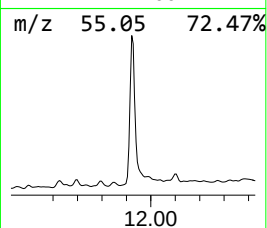
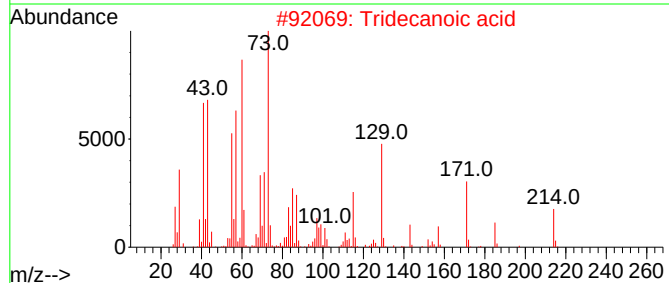
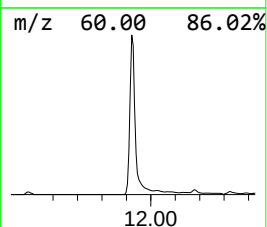
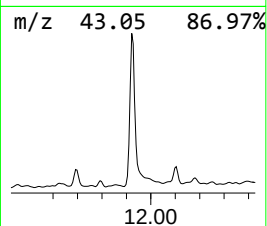
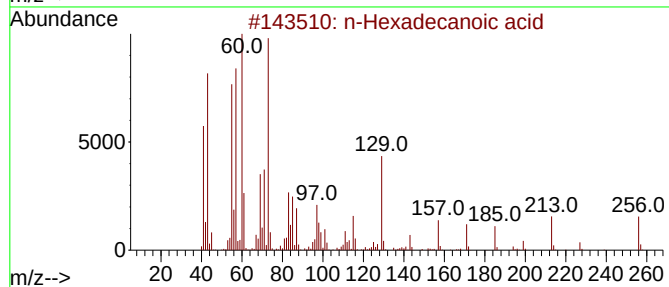
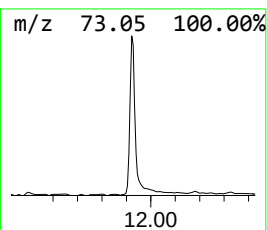
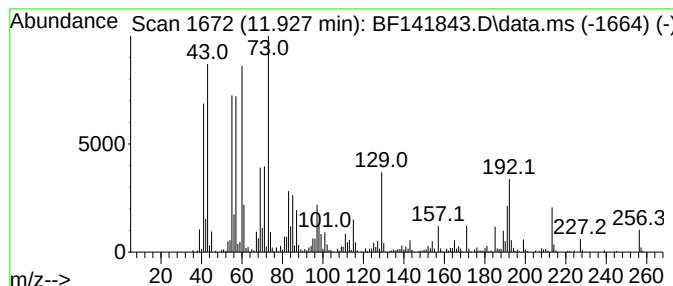
Instrument :
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ClientSampleId :
ENV-104-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD		R.T.	
11.928	7.80 ng	603851	Phenanthrene-d10		11.404	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid		256	C16H32O2	000057-10-3	99
2	Tridecanoic acid		214	C13H26O2	000638-53-9	93
3	Pentadecanoic acid		242	C15H30O2	001002-84-2	89
4	Tetradecanoic acid		228	C14H28O2	000544-63-8	89
5	8-Methylnonanoic acid		172	C10H20O2	005963-14-4	60



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

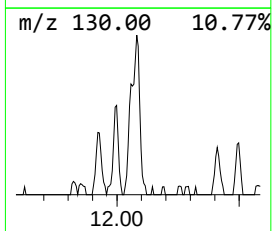
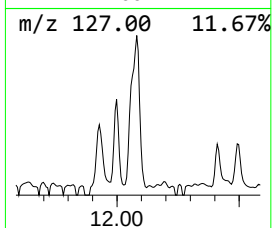
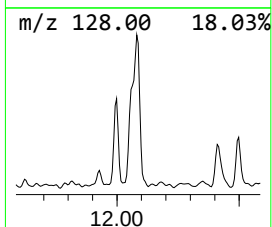
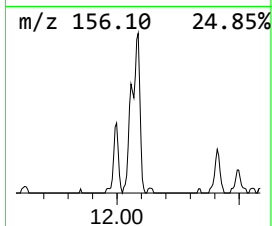
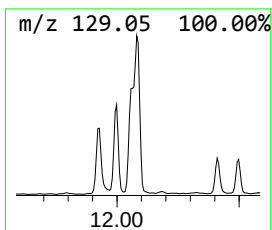
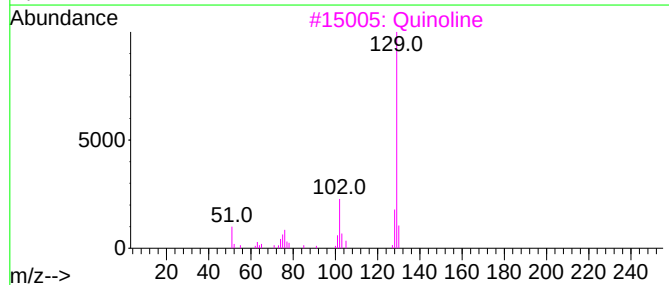
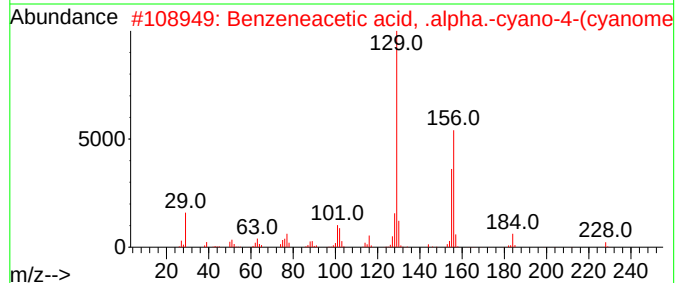
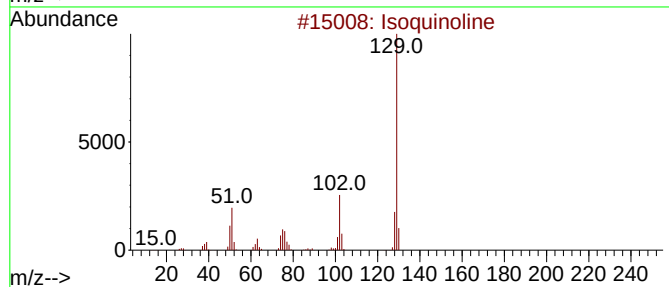
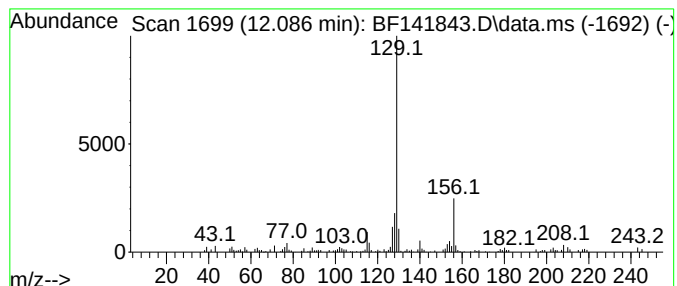
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Isoquinoline Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.086	2.41 ng	186635	Phenanthrene-d10	11.404

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Isoquinoline	129	C9H7N	000119-65-3	58
2		Benzeneacetic acid, .alpha.-cyan...	228	C13H12N2O2	134882-04-5	56
3		Quinoline	129	C9H7N	000091-22-5	53
4		Benzeneacetoneitrile, .alpha.-met...	129	C9H7N	000495-10-3	50
5		1-Deuteronaphthalene	129	C10H7D	000875-62-7	40



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

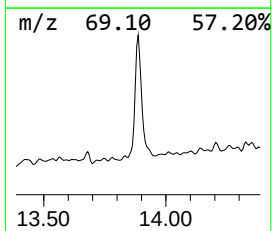
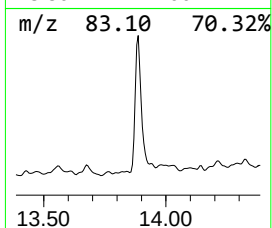
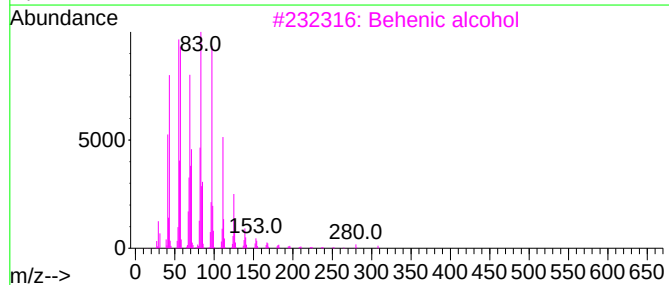
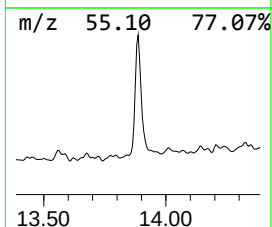
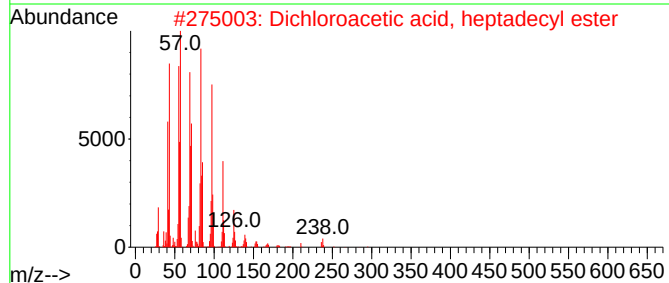
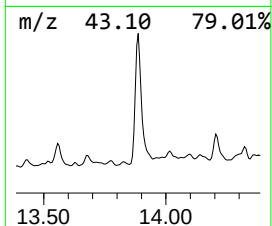
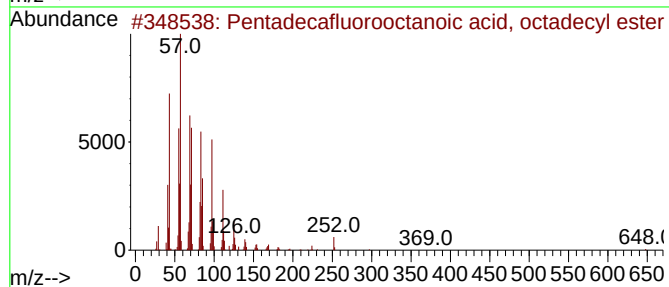
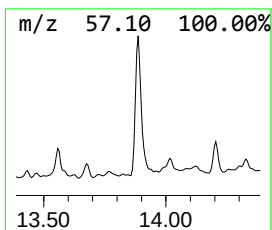
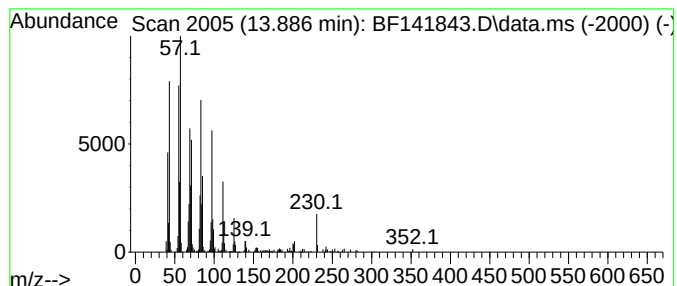
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ClientSampleId :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Pentadecafluorooctanoic aci... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.886	3.27 ng	243634	Chrysene-d12	14.033	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	95
2	Dichloroacetic acid, heptadecyl ...	366	C19H36Cl2O2	1000282-98-2	94
3	Behenic alcohol	326	C22H46O	000661-19-8	93
4	n-Nonadecanol-1	284	C19H40O	001454-84-8	93
5	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	93



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

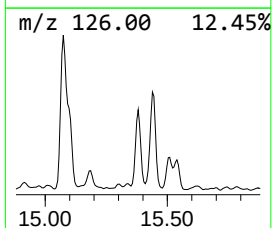
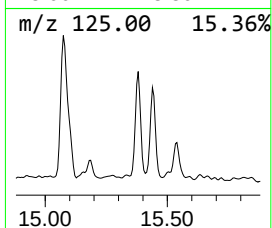
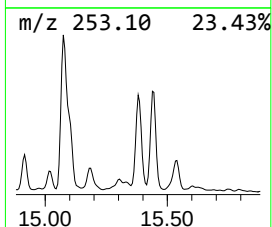
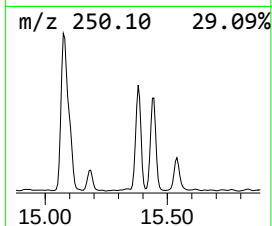
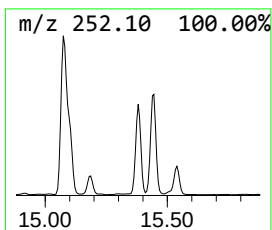
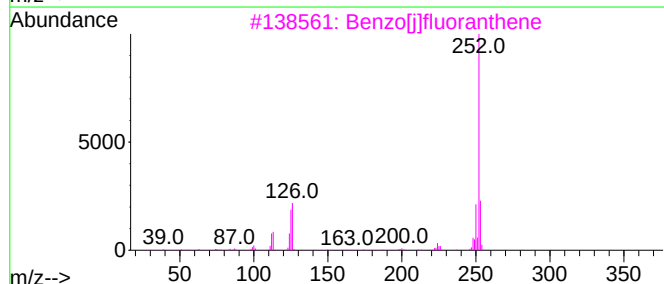
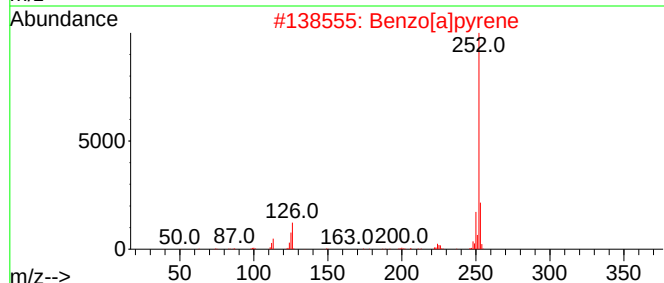
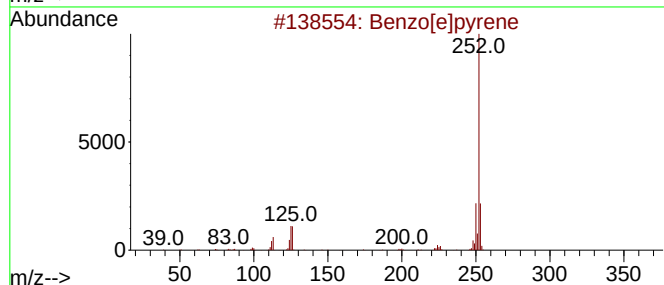
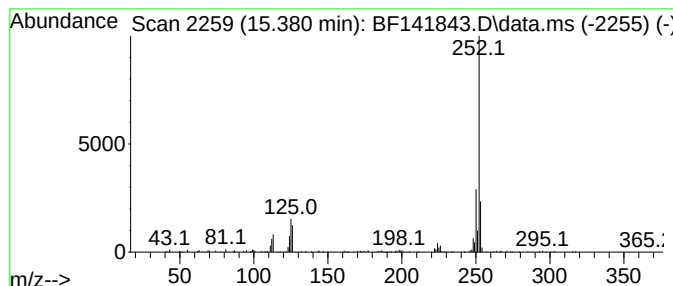
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Benzo[e]pyrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.380	2.00 ng	140356	Perylene-d12	15.510

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzo[e]pyrene	252	C20H12	000192-97-2	98
2			Benzo[a]pyrene	252	C20H12	000050-32-8	94
3			Benzo[j]fluoranthene	252	C20H12	000205-82-3	93
4			Benzo[b]fluoranthene	252	C20H12	000205-99-2	93
5			Benzo[k]fluoranthene	252	C20H12	000207-08-9	93



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141843.D
Acq On : 05 Mar 2025 14:52
Operator : RC/JU
Sample : Q1488-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Butane, 2-metho...	2.169	31.9	ng	1864820	1	6.887	1167400	20.0
Benzophenone	10.628	4.9	ng	387402	3	9.916	1583720	20.0
n-Hexadecanoic ...	11.928	7.8	ng	603851	4	11.404	1549320	20.0
Isoquinoline	12.086	2.4	ng	186635	4	11.404	1549320	20.0
Pentadecafluoro...	13.886	3.3	ng	243634	5	14.033	1490760	20.0
Benzo[e]pyrene	15.380	2.0	ng	140356	6	15.510	1401180	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

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Quant Time: Mar 05 15:07:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	200259	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	760393	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	389790	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	614563	20.000	ng	0.00
76) Chrysene-d12	14.039	240	462576	20.000	ng	-0.01
86) Perylene-d12	15.509	264	512973	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1091570	87.048	ng	0.00
7) Phenol-d6	6.498	99	1376053	84.308	ng	-0.01
23) Nitrobenzene-d5	7.439	82	849034	71.371	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	336547	91.967	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	1437189	59.120	ng	0.00
79) Terphenyl-d14	12.986	244	1168427	40.867	ng	-0.01

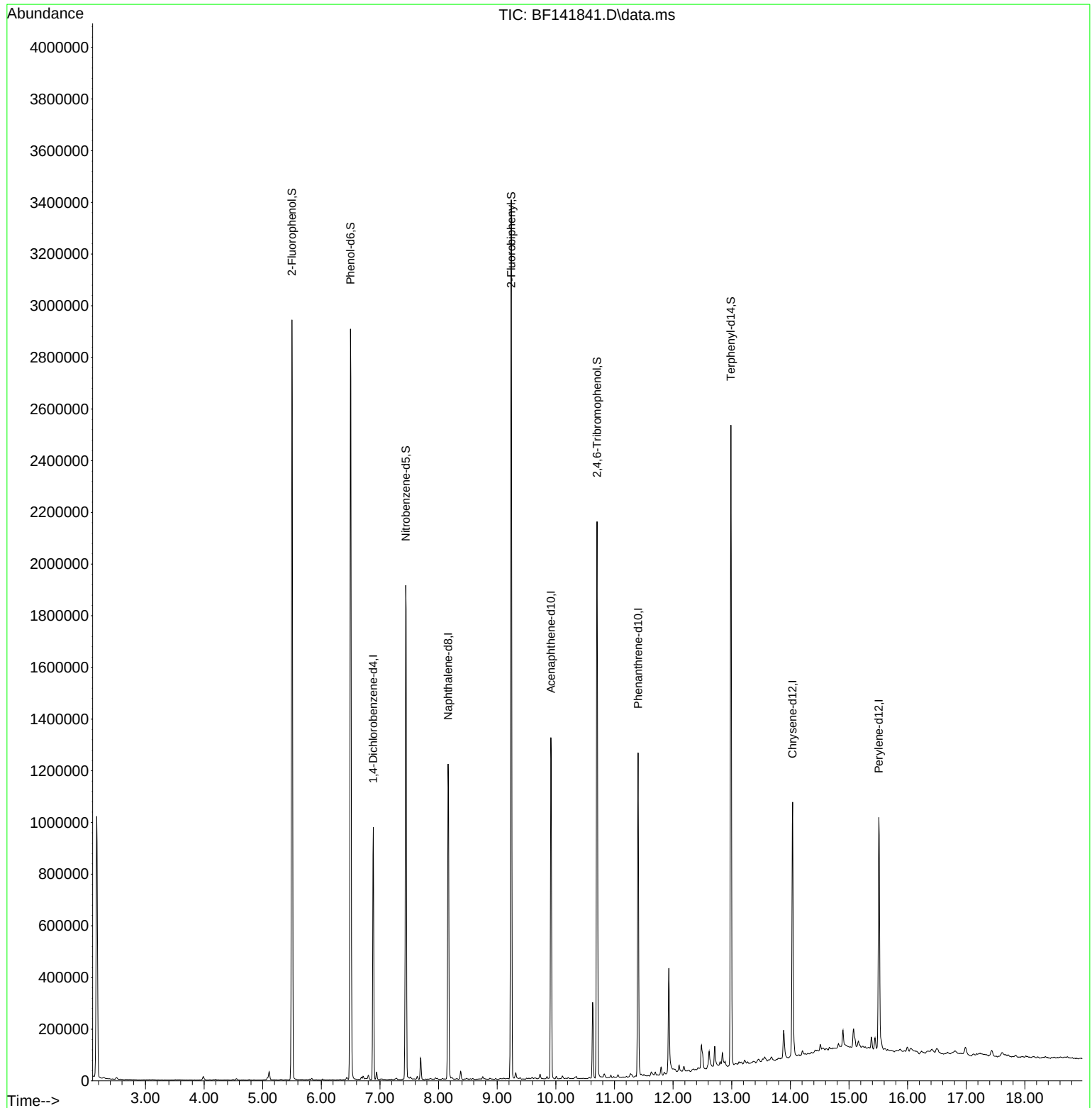
Target Compounds	Qvalue

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

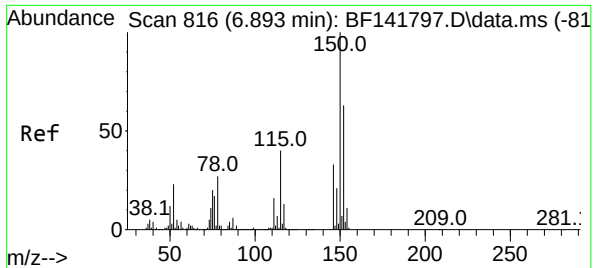
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Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Quant Time: Mar 05 15:07:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



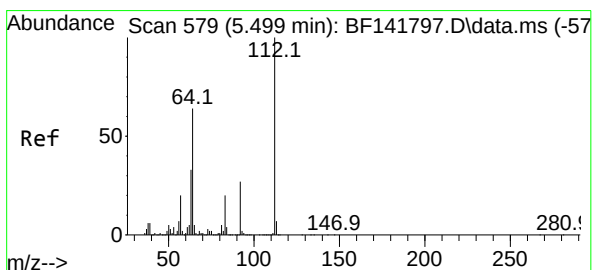
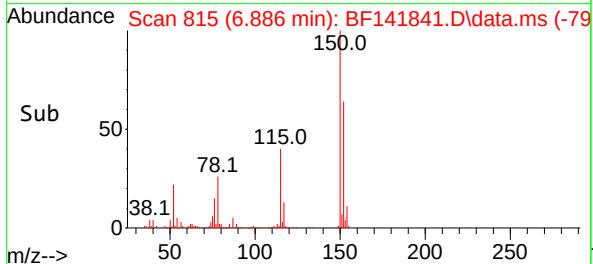
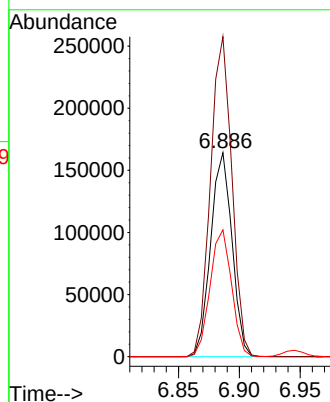
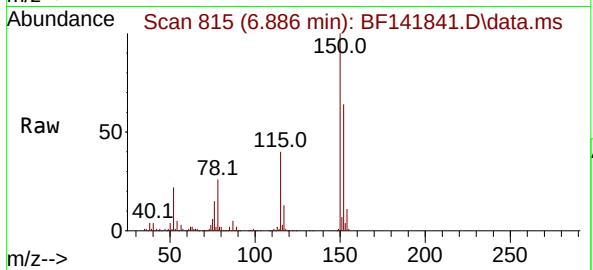
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#1
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RT: 6.886 min Scan# 816
Delta R.T. -0.007 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

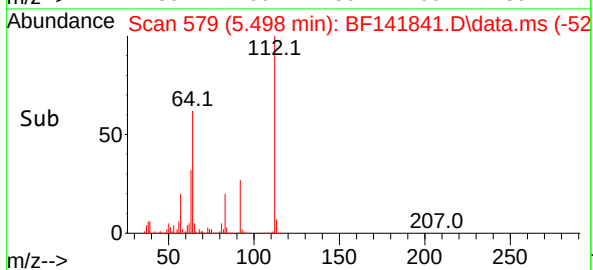
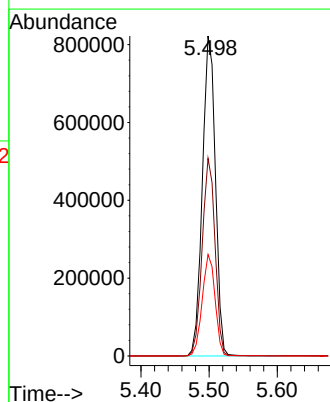
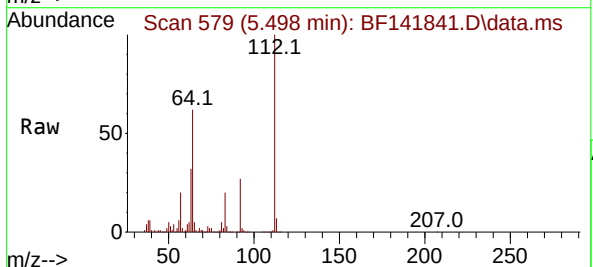
Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

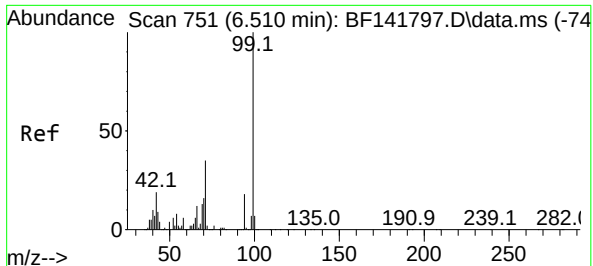
Tgt Ion:152 Resp: 200259
Ion Ratio Lower Upper
152 100
150 156.9 127.5 191.3
115 62.2 51.4 77.2



#5
2-Fluorophenol
Concen: 87.048 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Tgt Ion:112 Resp: 1091570
Ion Ratio Lower Upper
112 100
64 61.8 51.3 76.9
63 31.7 26.2 39.4

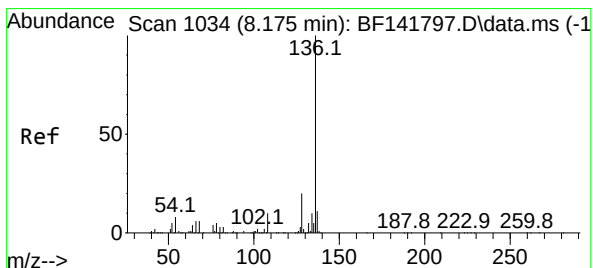
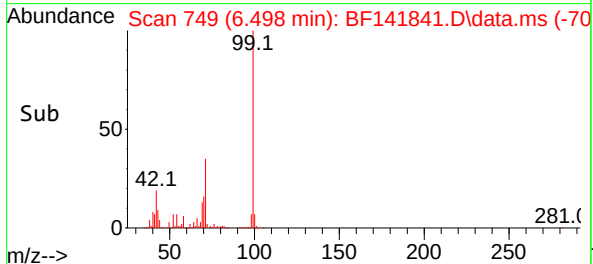
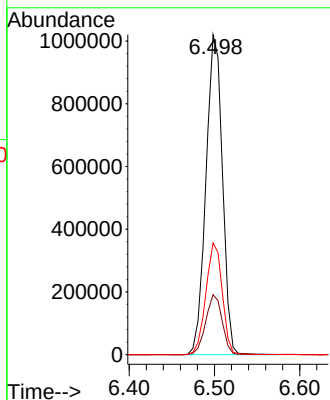
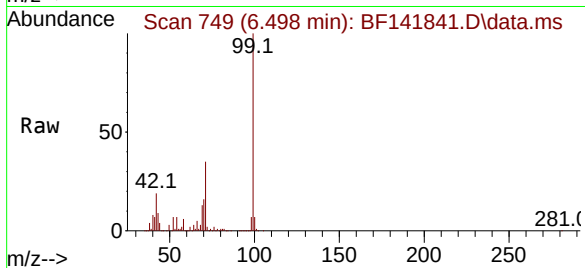




#7
Phenol-d6
Concen: 84.308 ng
RT: 6.498 min Scan# 749
Delta R.T. -0.012 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

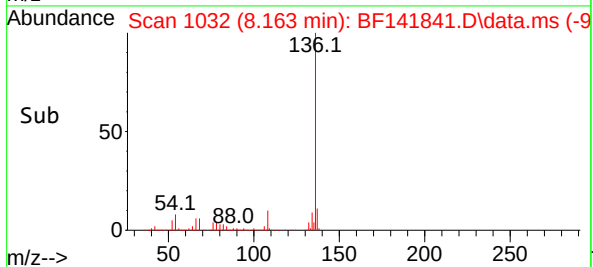
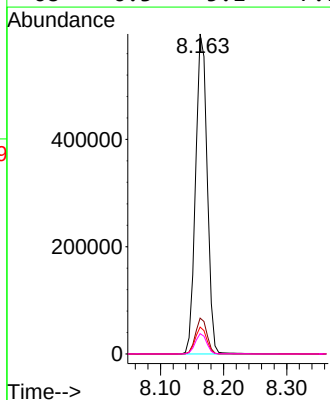
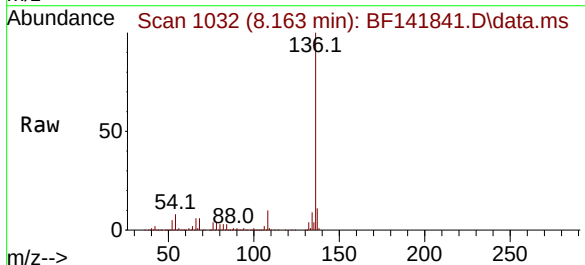
Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

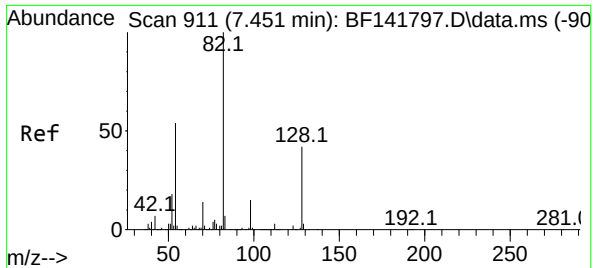
Tgt Ion: 99 Resp: 1376053
Ion Ratio Lower Upper
99 100
42 18.8 15.2 22.8
71 34.9 28.2 42.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Tgt Ion: 136 Resp: 760393
Ion Ratio Lower Upper
136 100
137 11.2 8.9 13.3
54 8.4 6.9 10.3
68 6.3 5.1 7.7





#23

Nitrobenzene-d5

Concen: 71.371 ng

RT: 7.439 min Scan# 909

Delta R.T. -0.012 min

Lab File: BF141841.D

Acq: 05 Mar 2025 13:53

Instrument :

BNA_F

ClientSampleId :

ENV-104-SB02

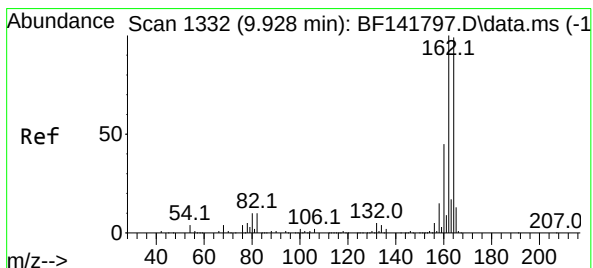
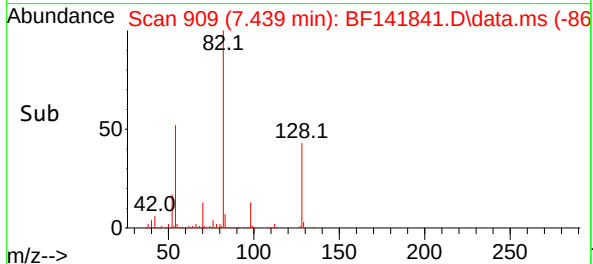
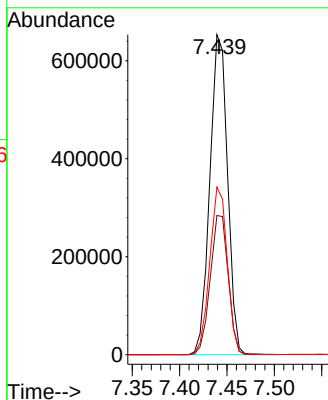
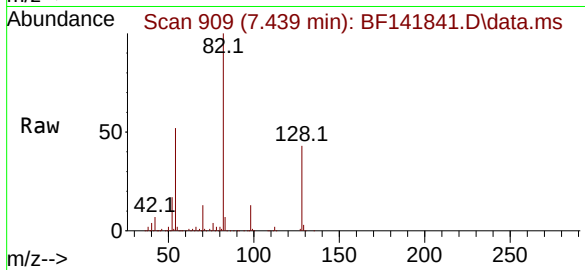
Tgt Ion: 82 Resp: 849034

Ion Ratio Lower Upper

82 100

128 43.5 33.5 50.3

54 52.4 42.7 64.1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1330

Delta R.T. -0.012 min

Lab File: BF141841.D

Acq: 05 Mar 2025 13:53

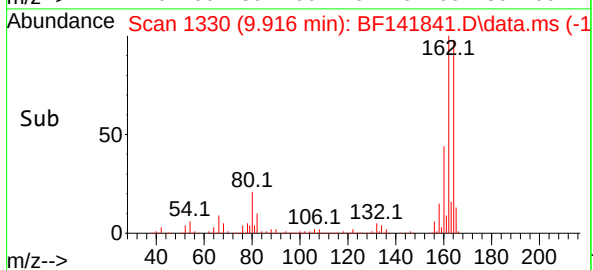
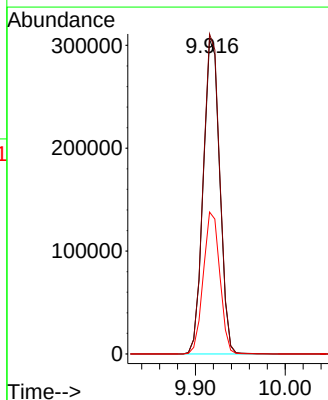
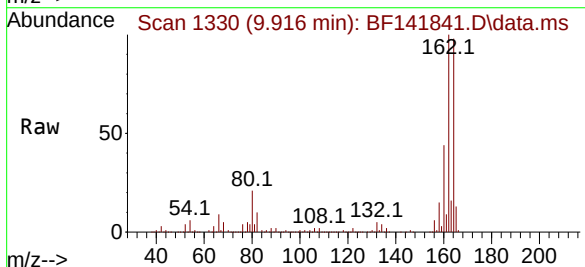
Tgt Ion: 164 Resp: 389790

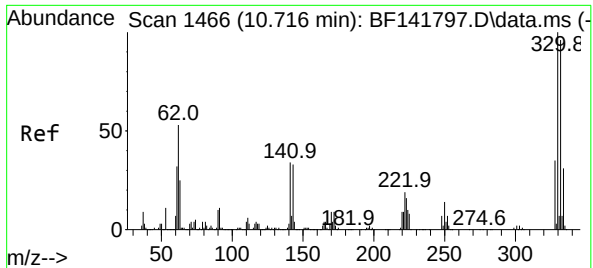
Ion Ratio Lower Upper

164 100

162 101.7 80.6 120.8

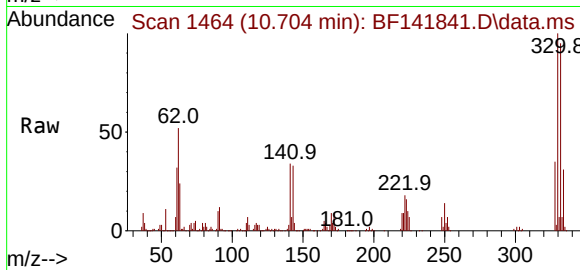
160 45.1 36.3 54.5



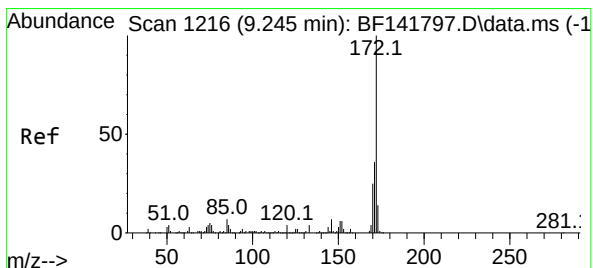
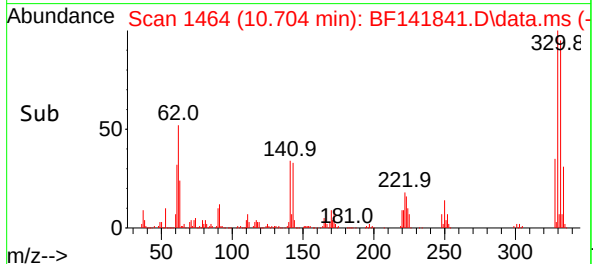
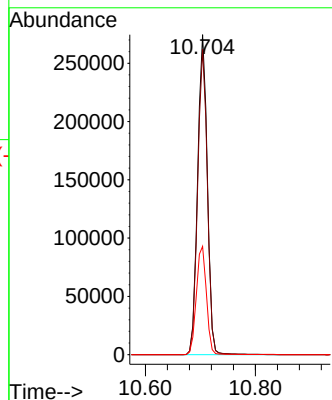


#42
2,4,6-Tribromophenol
Concen: 91.967 ng
RT: 10.704 min Scan# 1464
Delta R.T. -0.012 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

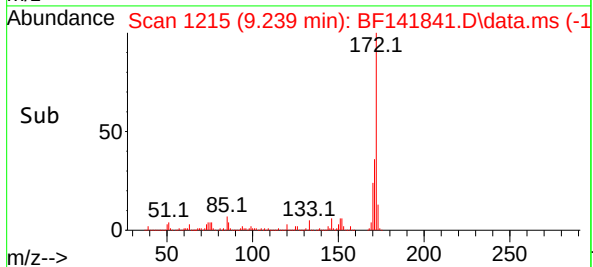
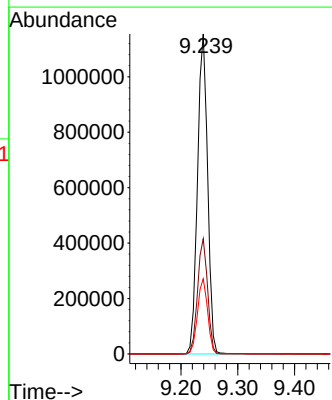
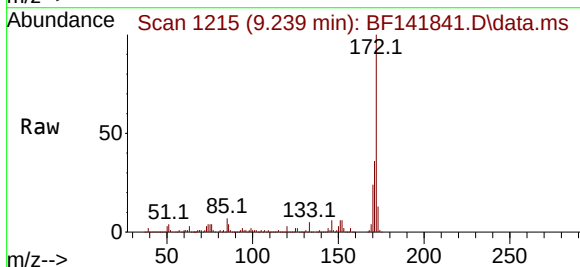


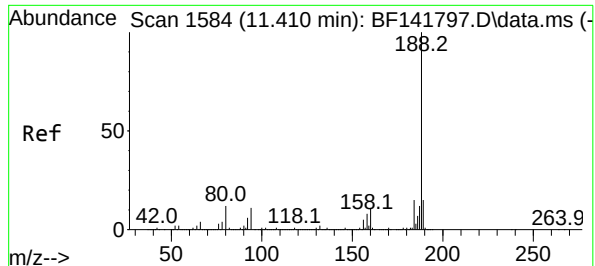
Tgt Ion:330 Resp: 336547
Ion Ratio Lower Upper
330 100
332 95.5 76.6 115.0
141 35.1 29.0 43.4



#45
2-Fluorobiphenyl
Concen: 59.120 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Tgt Ion:172 Resp: 1437189
Ion Ratio Lower Upper
172 100
171 36.0 29.2 43.8
170 23.5 19.7 29.5





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.404 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF141841.D

Acq: 05 Mar 2025 13:53

Instrument :

BNA_F

ClientSampleId :

ENV-104-SB02

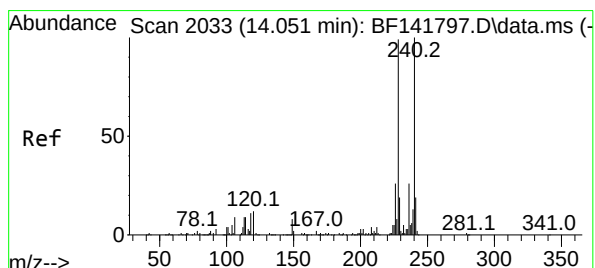
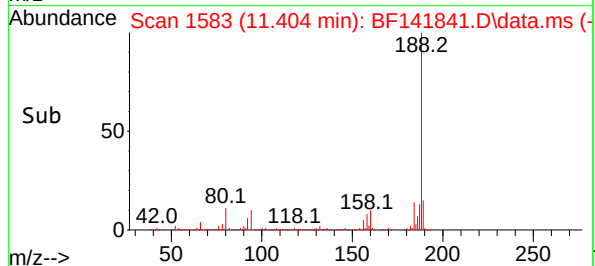
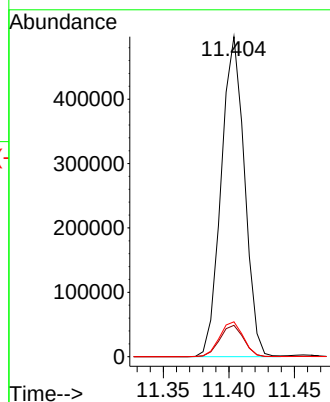
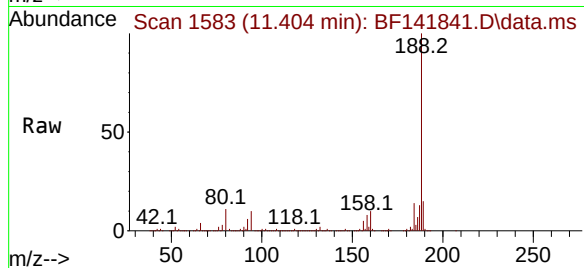
Tgt Ion:188 Resp: 614563

Ion Ratio Lower Upper

188 100

94 9.8 8.9 13.3

80 10.9 9.7 14.5



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.039 min Scan# 2031

Delta R.T. -0.012 min

Lab File: BF141841.D

Acq: 05 Mar 2025 13:53

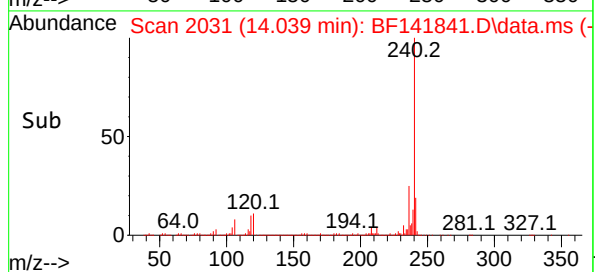
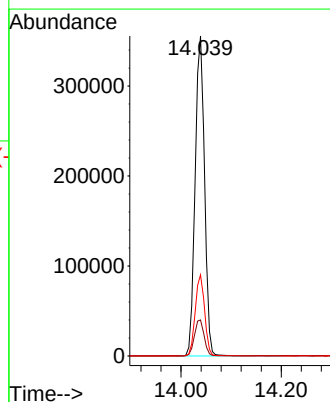
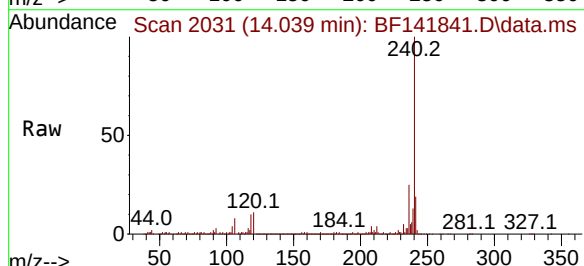
Tgt Ion:240 Resp: 462576

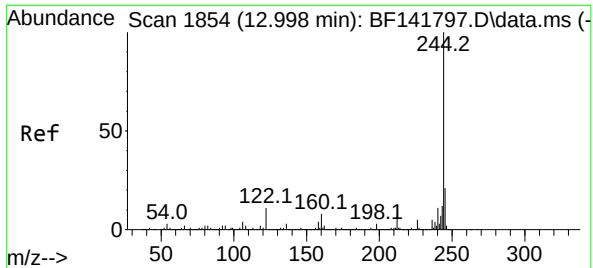
Ion Ratio Lower Upper

240 100

120 11.3 9.7 14.5

236 25.3 21.0 31.4

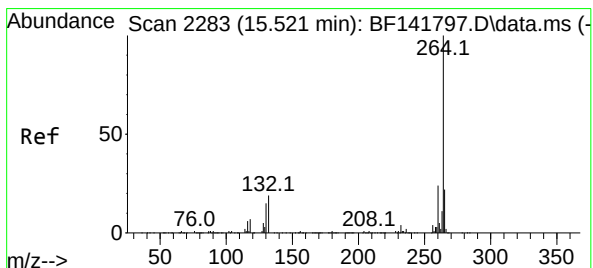
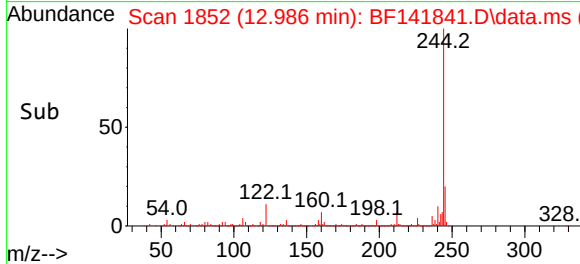
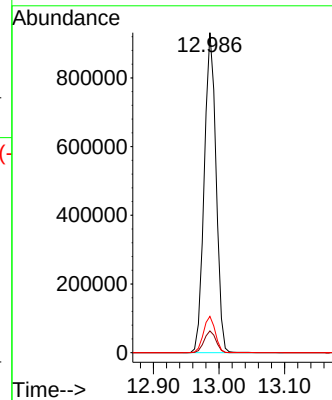
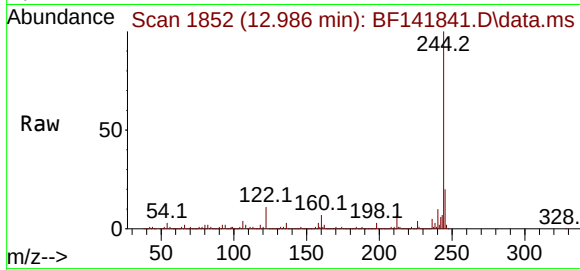




#79
Terphenyl-d14
Concen: 40.867 ng
RT: 12.986 min Scan# 1852
Delta R.T. -0.012 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

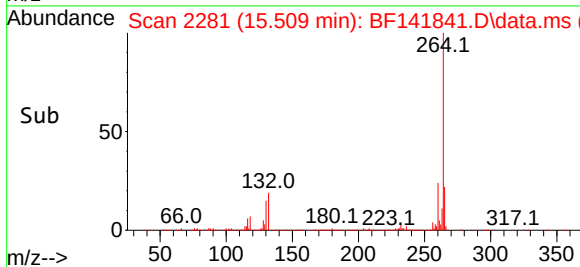
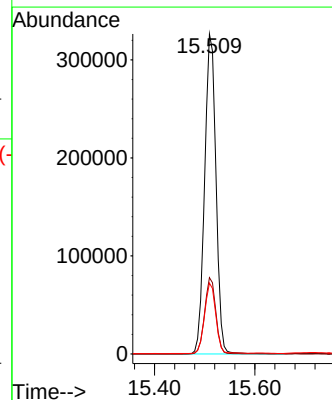
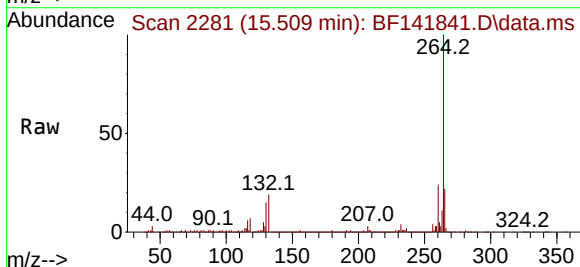
Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Tgt Ion:244 Resp: 1168427
Ion Ratio Lower Upper
244 100
212 6.8 6.0 9.0
122 11.3 9.0 13.6



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141841.D
Acq: 05 Mar 2025 13:53

Tgt Ion:264 Resp: 512973
Ion Ratio Lower Upper
264 100
260 23.9 18.9 28.3
265 22.2 17.4 26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs : 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141841.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.169	6	13	29	rVB	1013467	1614472	38.09%	4.853%
2	5.110	499	513	519	rBV2	31332	59491	1.40%	0.179%
3	5.498	573	579	584	rBV	2941856	3867796	91.26%	11.627%
4	6.498	743	749	763	rBV	2904662	3994341	94.25%	12.008%
5	6.886	809	815	820	rBV	976155	1204423	28.42%	3.621%
6	7.439	903	909	914	rBV	1911461	2489839	58.75%	7.485%
7	7.692	948	952	960	rVB	82867	105069	2.48%	0.316%
8	8.163	1026	1032	1040	rBV	1219125	1563229	36.89%	4.699%
9	8.375	1063	1068	1076	rVB2	32007	45994	1.09%	0.138%
10	9.239	1209	1215	1220	rBV	3403635	4238028	100.00%	12.740%
11	9.916	1325	1330	1336	rBV	1318802	1673935	39.50%	5.032%
12	10.627	1446	1451	1458	rBV	293649	366543	8.65%	1.102%
13	10.704	1458	1464	1469	rBV	2153680	2702677	63.77%	8.125%
14	11.404	1578	1583	1590	rBV	1251628	1585655	37.41%	4.767%
15	11.798	1645	1650	1655	rVB	31939	45050	1.06%	0.135%
16	11.927	1666	1672	1684	rBV	407307	636086	15.01%	1.912%
17	12.486	1762	1767	1778	rVB3	91635	186634	4.40%	0.561%
18	12.615	1782	1789	1798	rBV	65147	137548	3.25%	0.413%
19	12.710	1801	1805	1817	rBV	77774	130929	3.09%	0.394%
20	12.839	1824	1827	1833	rBV	42855	60177	1.42%	0.181%
21	12.986	1847	1852	1860	rBV	2477050	3126522	73.77%	9.399%
22	13.886	2001	2005	2015	rVB	105691	181518	4.28%	0.546%
23	14.039	2025	2031	2044	rVB	980625	1390727	32.82%	4.181%
24	14.898	2173	2177	2197	rVB2	65023	124676	2.94%	0.375%
25	15.080	2204	2208	2216	rVB	68123	141643	3.34%	0.426%
26	15.380	2256	2259	2265	rVB	45719	67624	1.60%	0.203%
27	15.445	2267	2270	2275	rVV	44581	64179	1.51%	0.193%
28	15.509	2275	2281	2295	rVB	897339	1460023	34.45%	4.389%

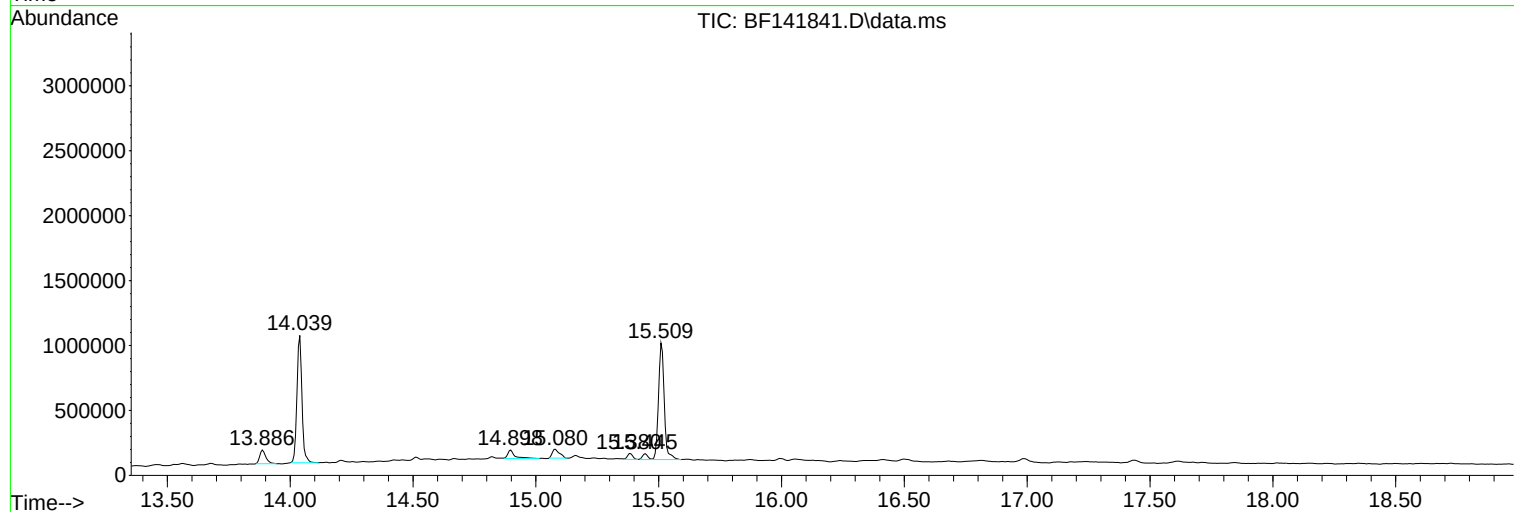
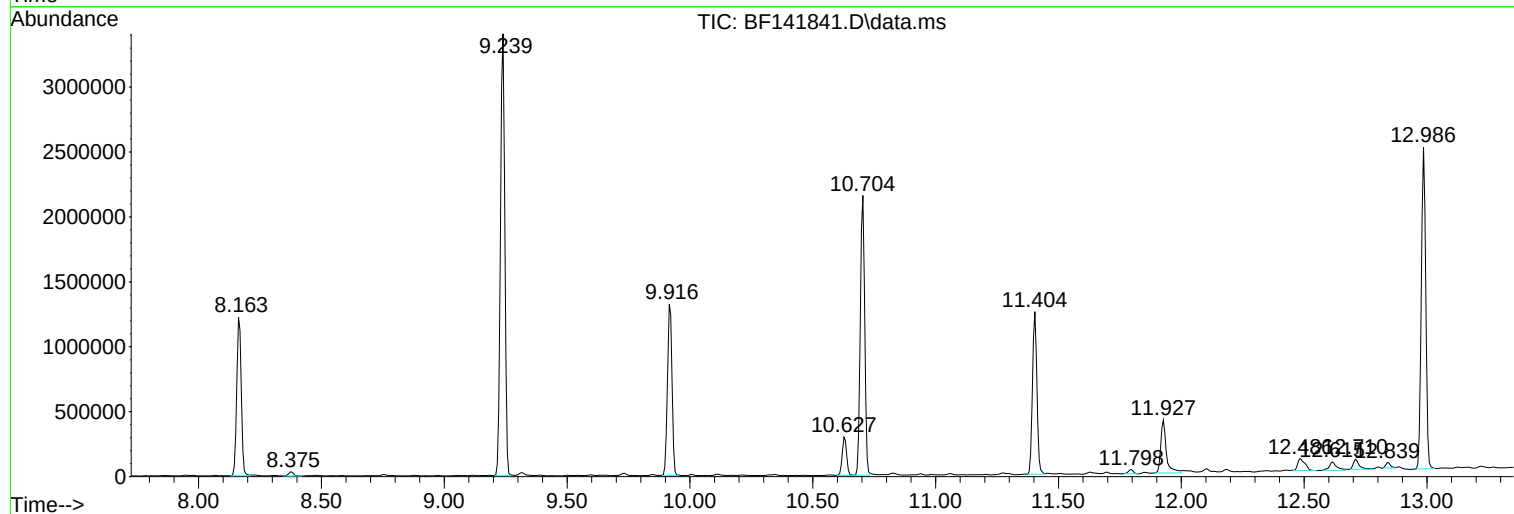
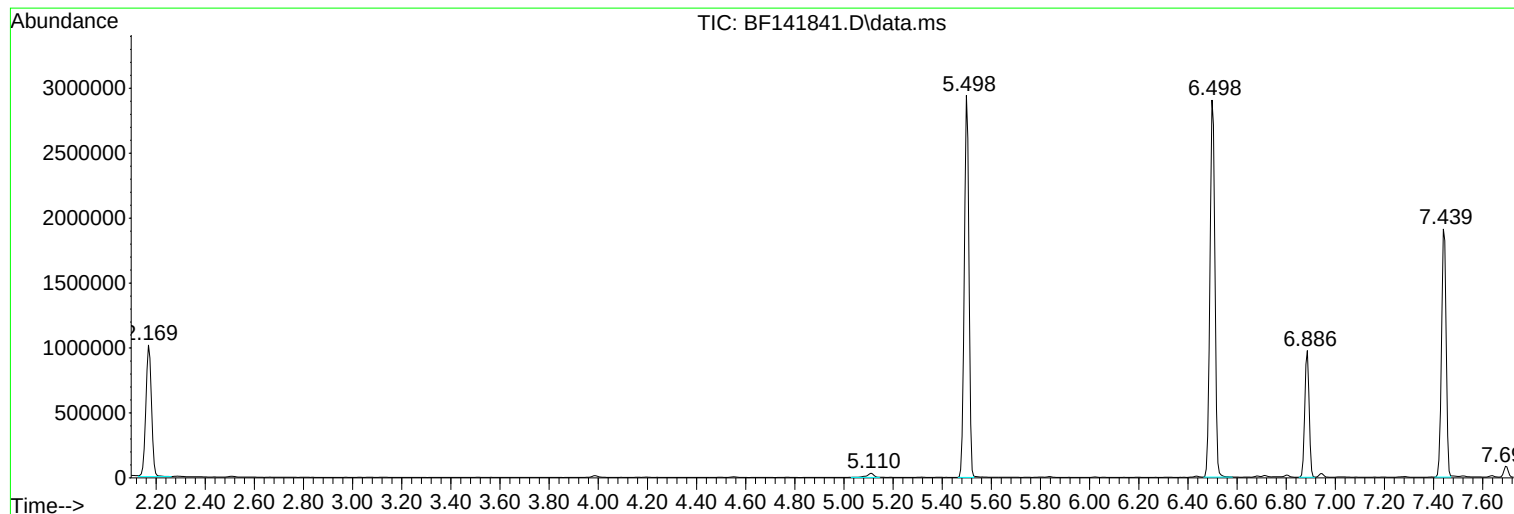
Sum of corrected areas: 33264828

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

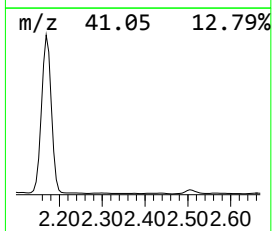
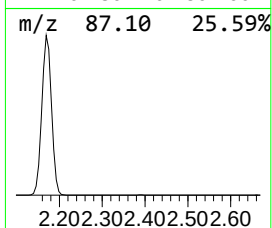
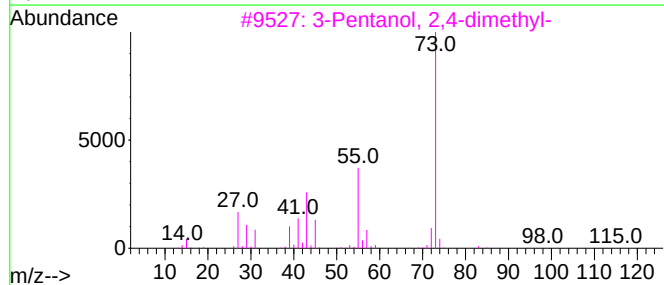
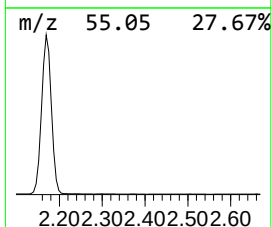
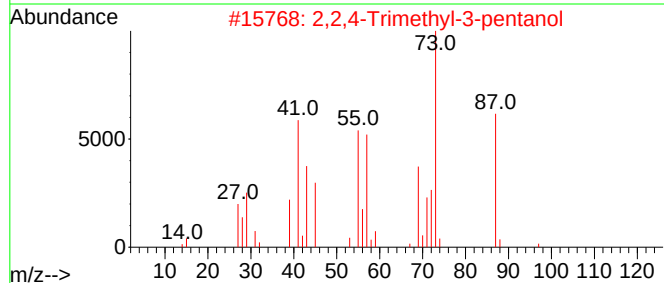
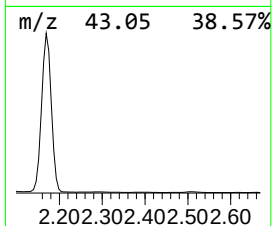
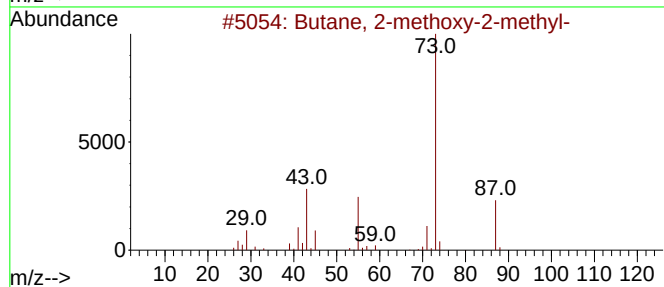
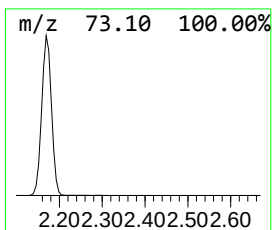
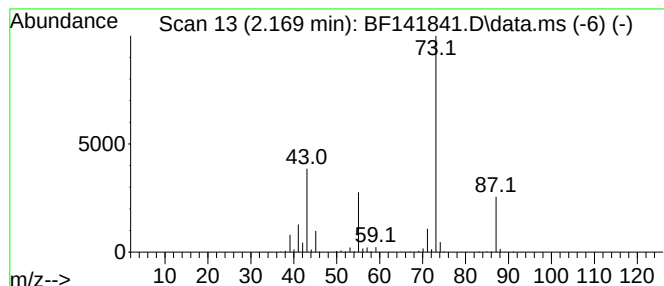
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.169	26.81 ng	1614470	1,4-Dichlorobenzene-d4	6.886

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2			2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3			3-Pentanol, 2,4-dimethyl-	116	C7H16O	000600-36-2	37
4			Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	27
5			1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

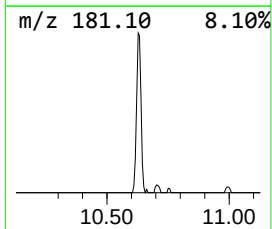
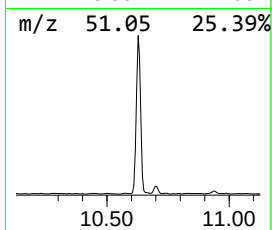
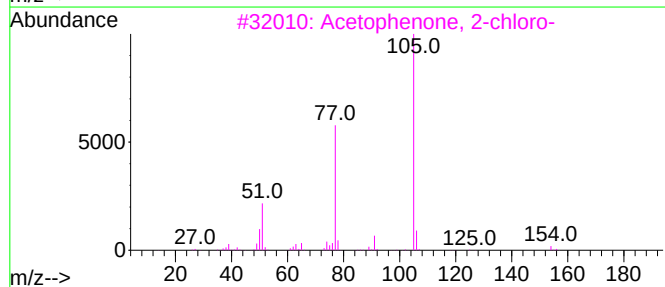
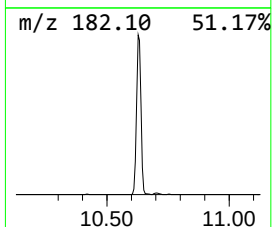
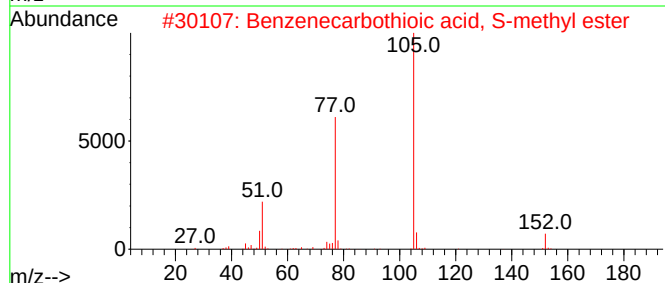
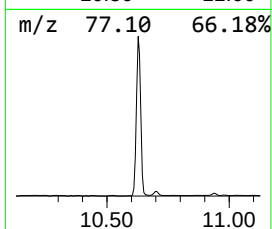
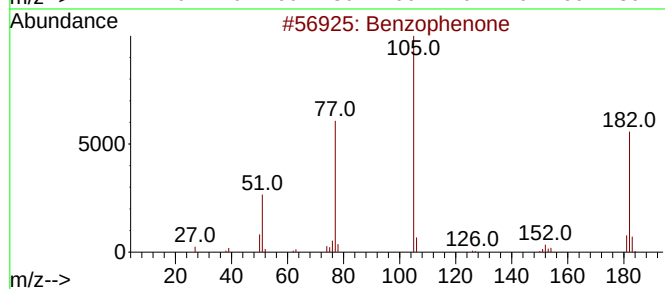
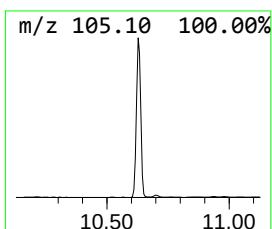
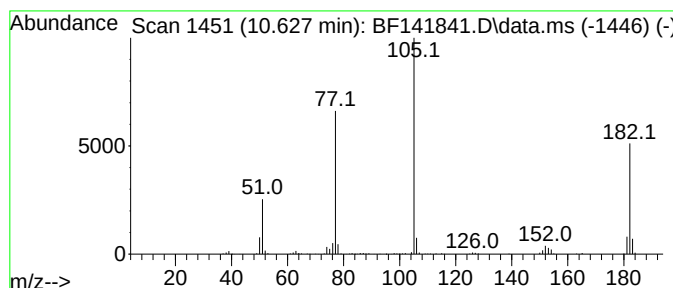
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.627	4.38 ng	366543	Acenaphthene-d10	9.916

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
3			Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4			Vinyl benzoate	148	C9H8O2	000769-78-8	47
5			1,2-Propanedione, 1-phenyl-	148	C9H8O2	000579-07-7	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

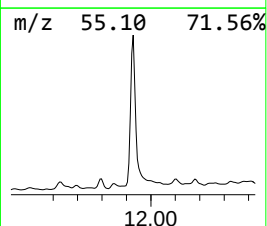
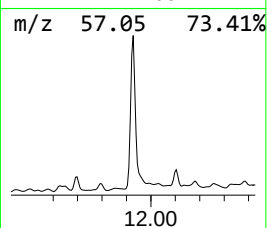
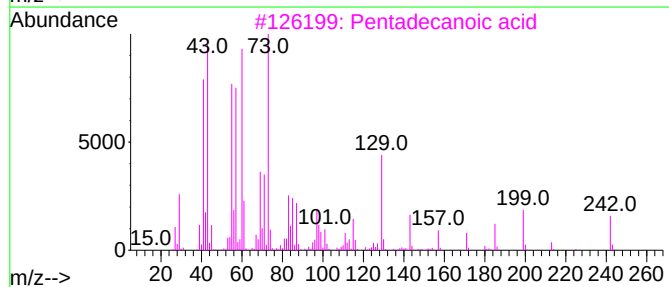
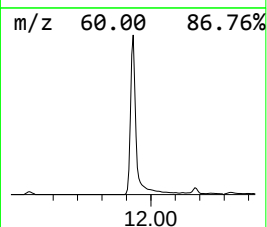
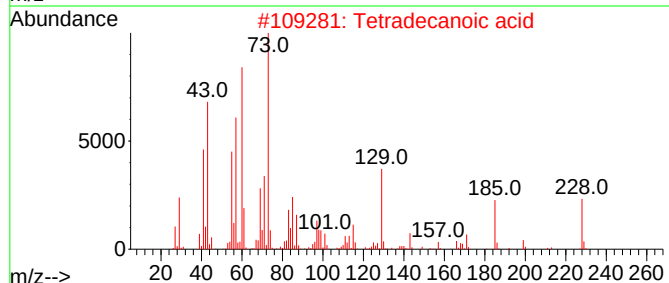
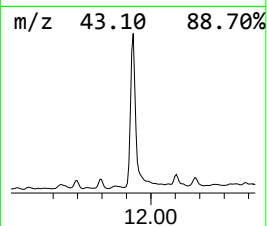
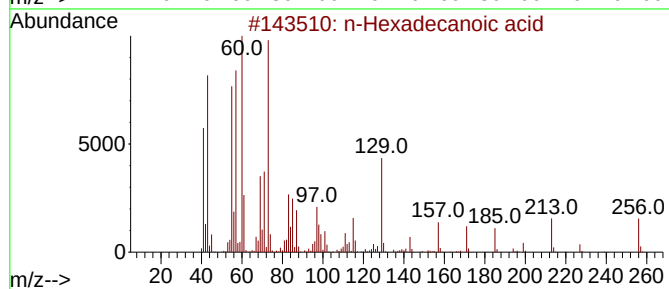
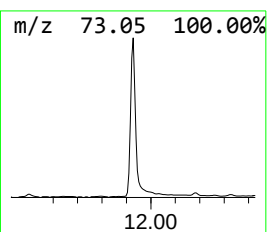
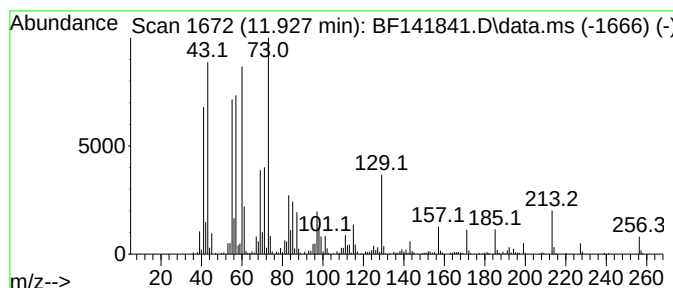
Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.927	8.02 ng	636086	Phenanthrene-d10	11.404	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
4	Tridecanoic acid	214	C13H26O2	000638-53-9	87
5	8-Methylnonanoic acid	172	C10H20O2	005963-14-4	60



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

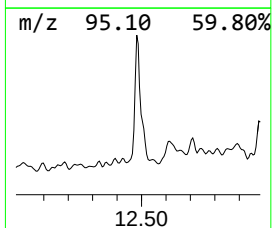
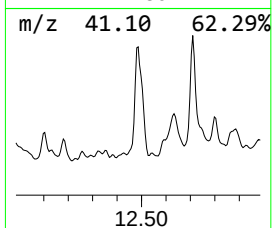
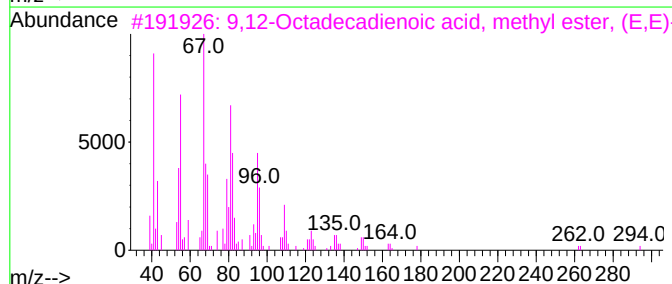
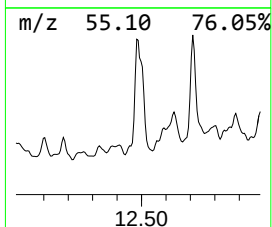
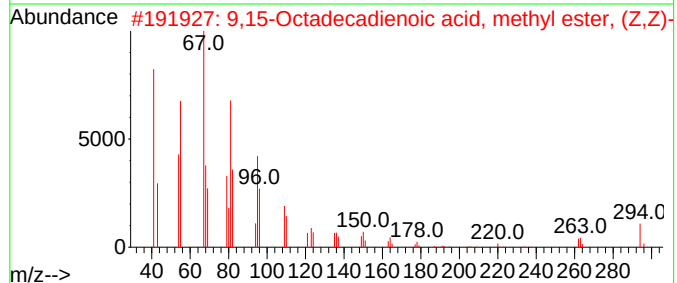
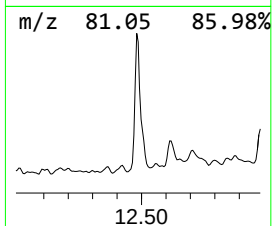
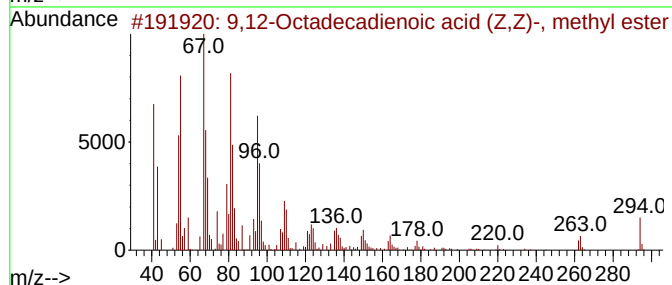
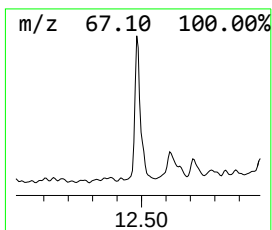
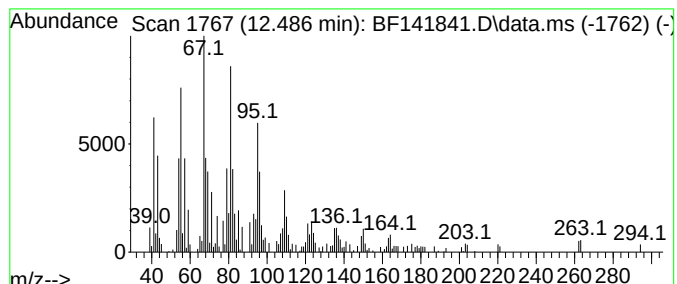
Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 9,12-Octadecadienoic acid (... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.486	2.35 ng	186634	Phenanthrene-d10	11.404	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,12-Octadecadienoic acid (Z,Z)-...	294	C19H34O2	000112-63-0	99
2	9,15-Octadecadienoic acid, methy...	294	C19H34O2	017309-05-6	99
3	9,12-Octadecadienoic acid, methy...	294	C19H34O2	002566-97-4	96
4	11,14-Octadecadienoic acid, meth...	294	C19H34O2	056554-61-1	94
5	9,12-Octadecadienoic acid, methy...	294	C19H34O2	002462-85-3	93



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

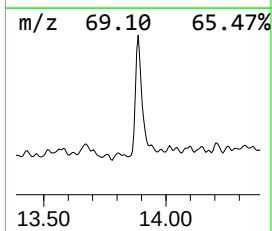
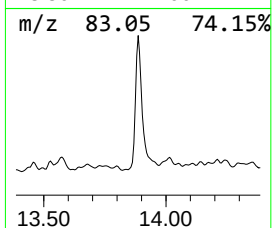
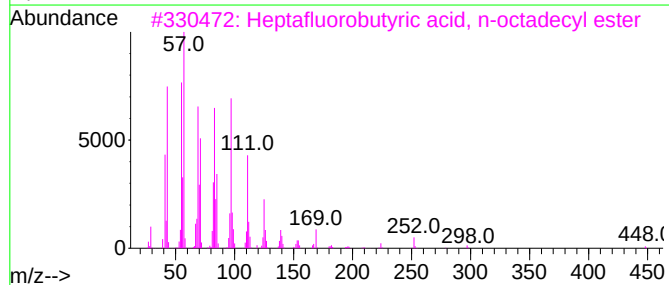
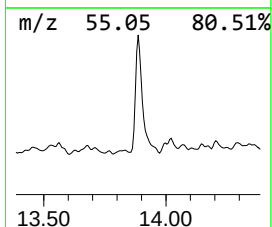
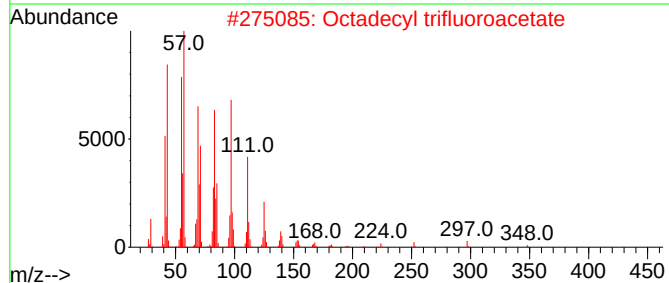
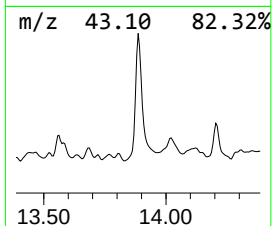
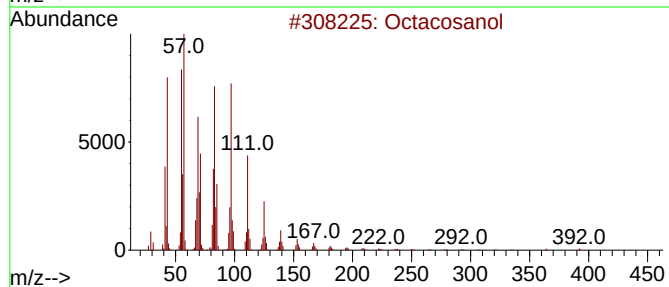
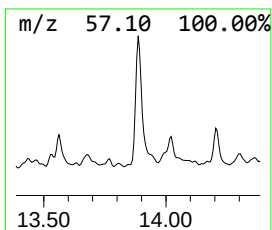
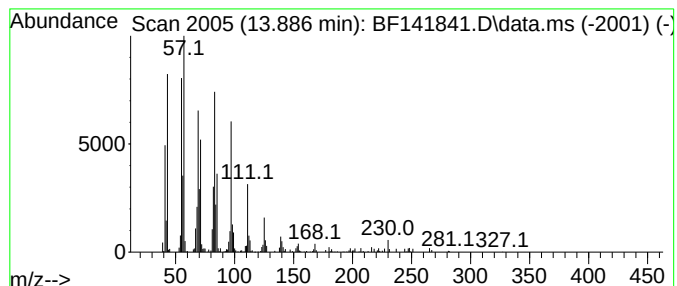
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Octacosanol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.886	2.61 ng	181518	Chrysene-d12	14.039

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Octacosanol	410	C28H58O	000557-61-9	91
2			Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	91
3			Heptafluorobutyric acid, n-octadecyl ester	466	C22H37F7O2	000400-57-7	91
4			Butyl docosyl ether	382	C26H54O	1000406-40-8	91
5			Eicosyl pentafluoropropionate	444	C23H41F5O2	1000351-80-8	91



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141841.D
Acq On : 05 Mar 2025 13:53
Operator : RC/JU
Sample : Q1488-11
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-SB02

A

B

C

D

E

F

G

H

I

J

K

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Butane, 2-metho...	2.169	26.8	ng	1614470	1	6.886	1204420	20.0
Benzophenone	10.627	4.4	ng	366543	3	9.916	1673940	20.0
n-Hexadecanoic ...	11.927	8.0	ng	636086	4	11.404	1585660	20.0
9,12-Octadecadi...	12.486	2.4	ng	186634	4	11.404	1585660	20.0
Octacosanol	13.886	2.6	ng	181518	5	14.039	1390730	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Quant Time: Mar 06 16:56:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

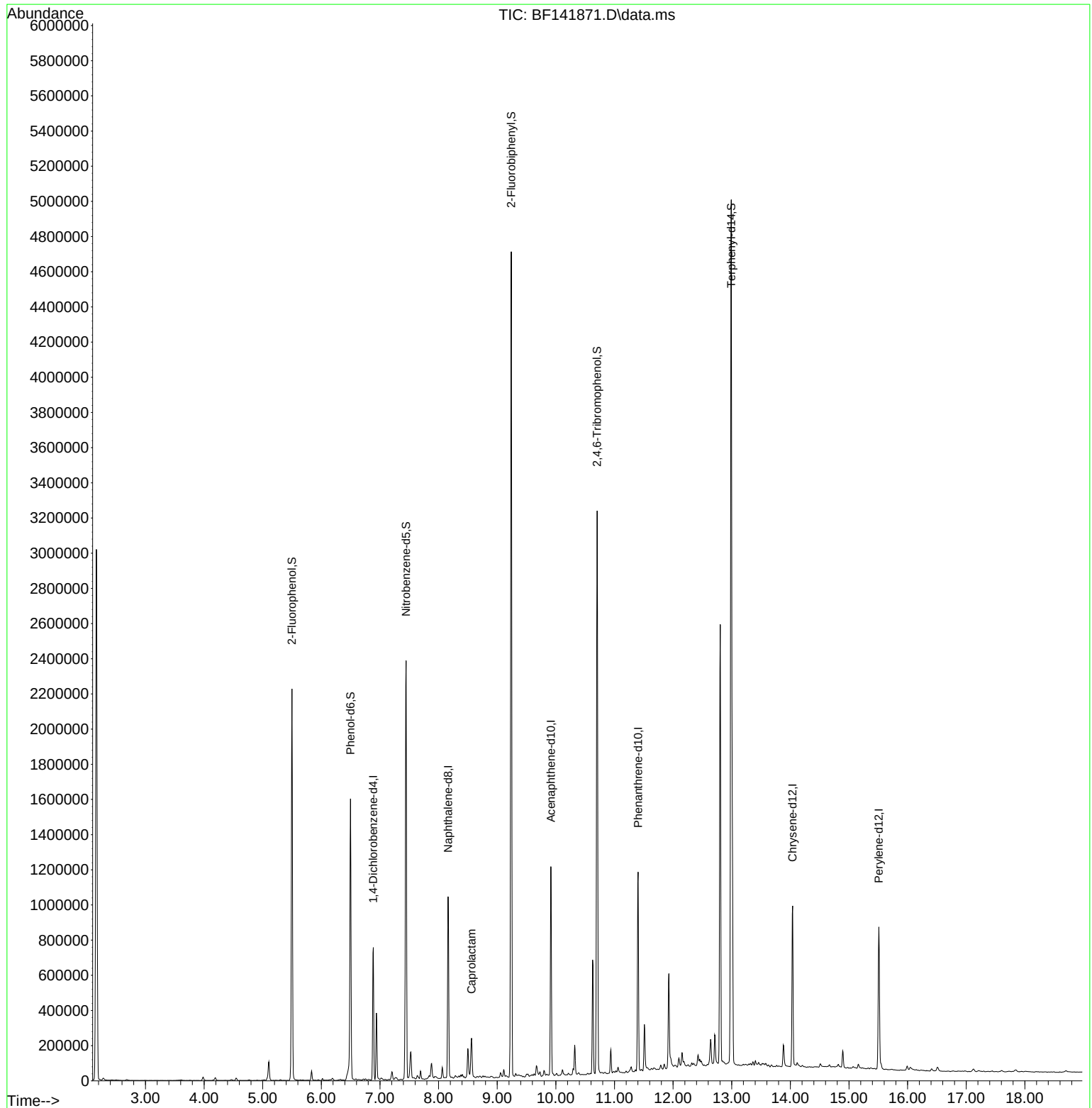
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	157960	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	631847	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	343111	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	586477	20.000	ng	# 0.00
76) Chrysene-d12	14.039	240	448542	20.000	ng	-0.01
86) Perylene-d12	15.510	264	460671	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	817936	82.694	ng	0.00
7) Phenol-d6	6.498	99	708314	55.018	ng	-0.01
23) Nitrobenzene-d5	7.445	82	1104750	111.761	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	561334	174.263	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	2021701	94.479	ng	0.00
79) Terphenyl-d14	12.992	244	2430546	87.671	ng	0.00
Target Compounds						
35) Caprolactam	8.563	113	37378	13.492	ng	Qvalue 93

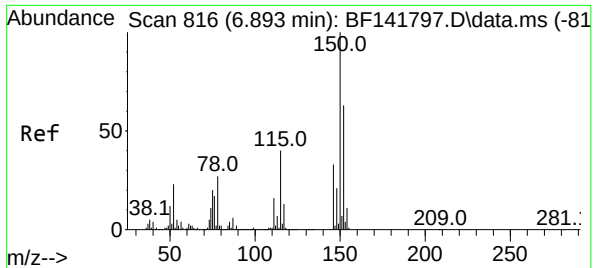
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Quant Time: Mar 06 16:56:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

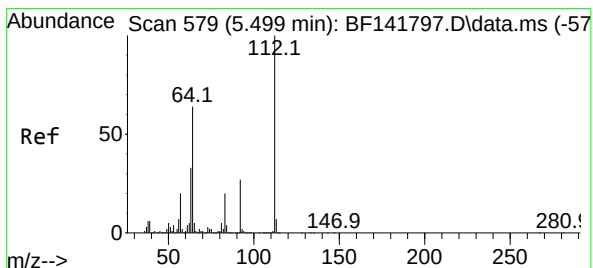
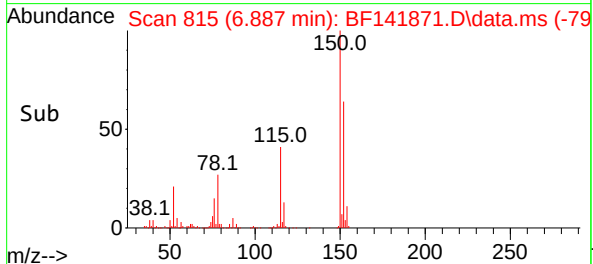
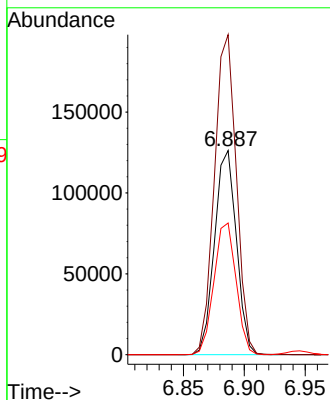
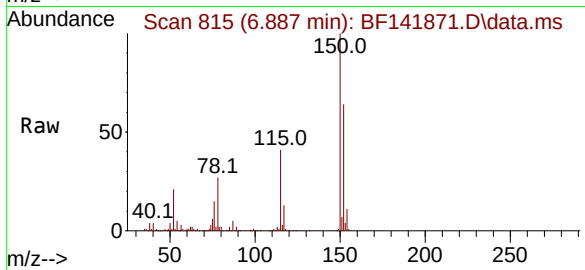




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 816
Delta R.T. -0.006 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

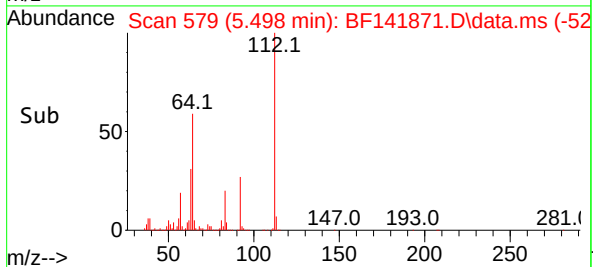
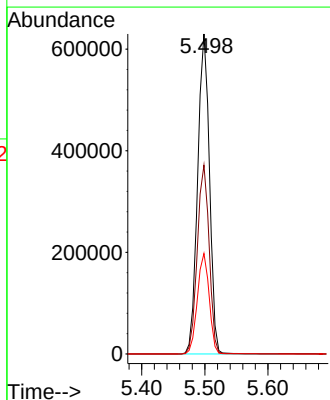
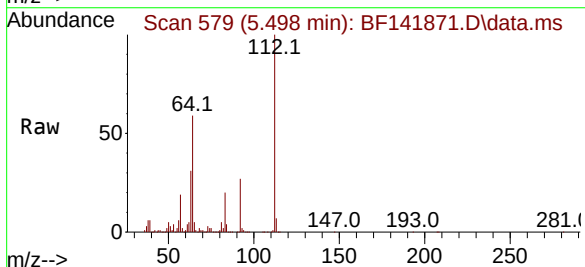
Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

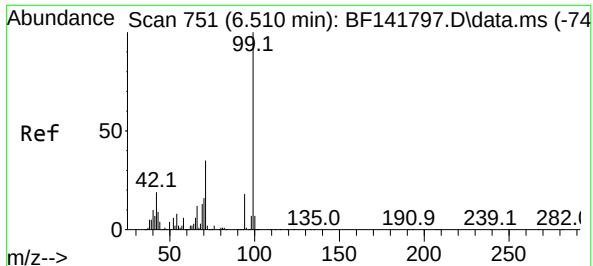
Tgt Ion:152 Resp: 157960
Ion Ratio Lower Upper
152 100
150 156.7 127.5 191.3
115 64.5 51.4 77.2



#5
2-Fluorophenol
Concen: 82.694 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Tgt Ion:112 Resp: 817936
Ion Ratio Lower Upper
112 100
64 59.0 51.3 76.9
63 31.4 26.2 39.4

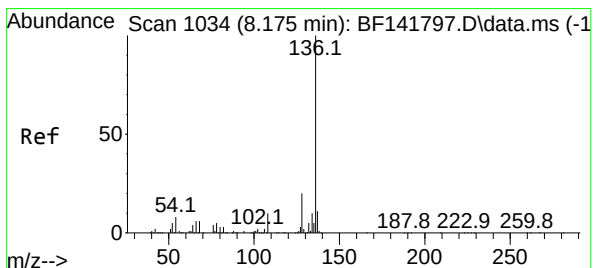
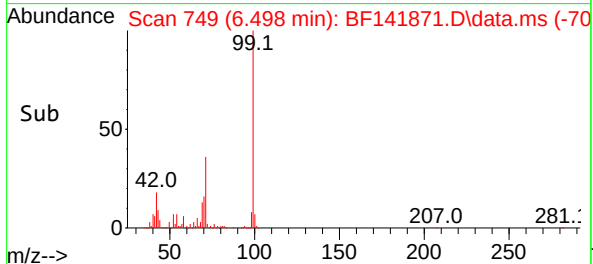
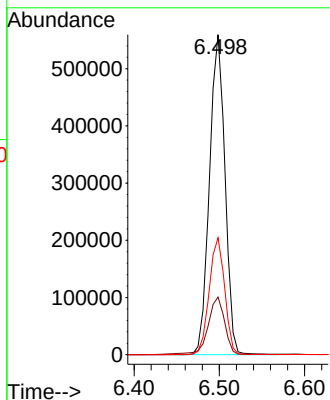
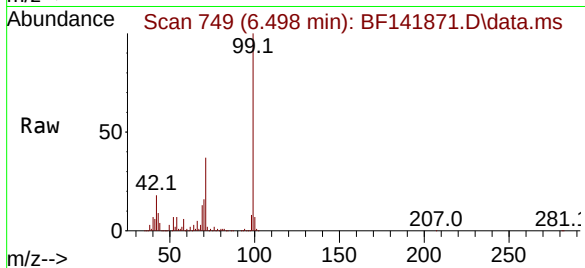




#7
Phenol-d6
Concen: 55.018 ng
RT: 6.498 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

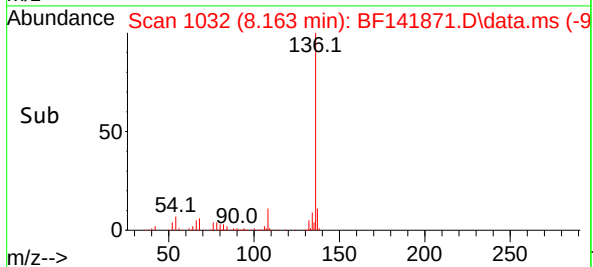
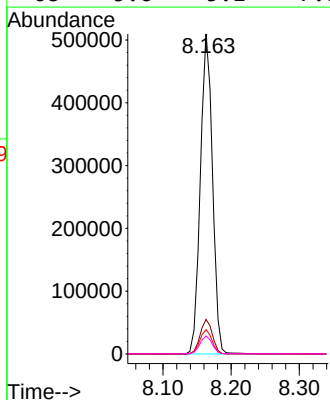
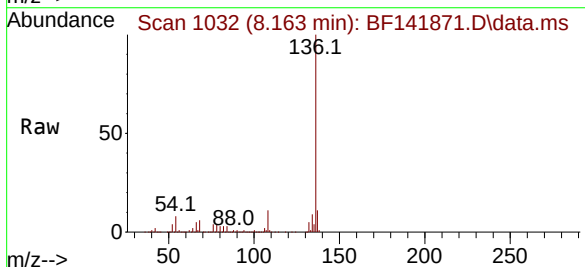
Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

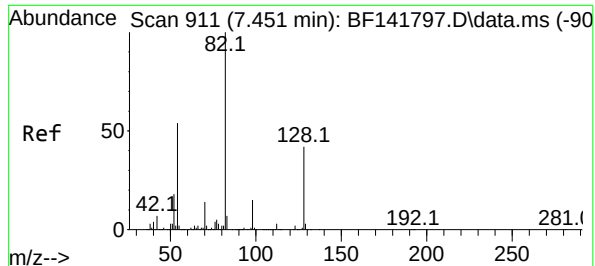
Tgt Ion: 99 Resp: 708314
Ion Ratio Lower Upper
99 100
42 18.0 15.2 22.8
71 36.5 28.2 42.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Tgt Ion: 136 Resp: 631847
Ion Ratio Lower Upper
136 100
137 10.8 8.9 13.3
54 7.6 6.9 10.3
68 5.6 5.1 7.7





#23

Nitrobenzene-d5

Concen: 111.761 ng

RT: 7.445 min Scan# 911

Delta R.T. -0.006 min

Lab File: BF141871.D

Acq: 06 Mar 2025 16:29

Instrument :

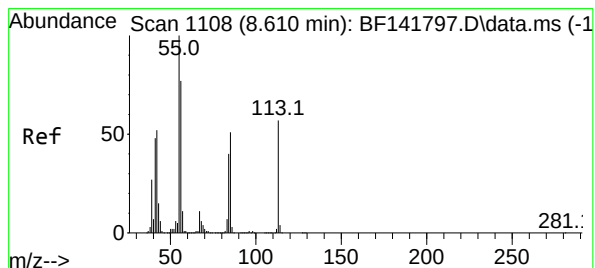
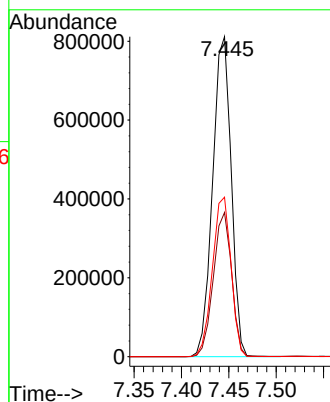
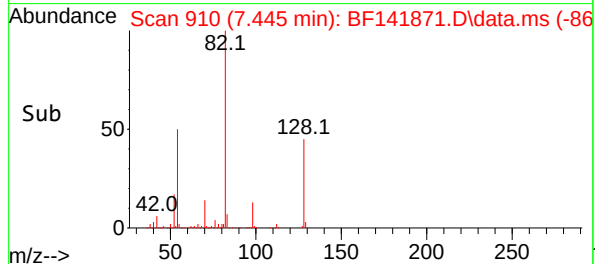
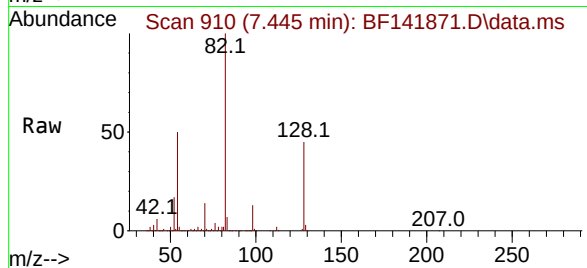
BNA_F

ClientSampleId :

ENV-102-GW01

Tgt Ion: 82 Resp: 1104750

Ion	Ratio	Lower	Upper
82	100		
128	45.1	33.5	50.3
54	49.8	42.7	64.1



#35

Caprolactam

Concen: 13.492 ng

RT: 8.563 min Scan# 1100

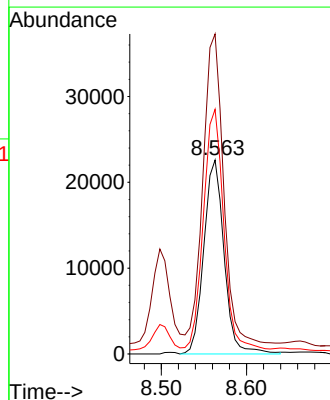
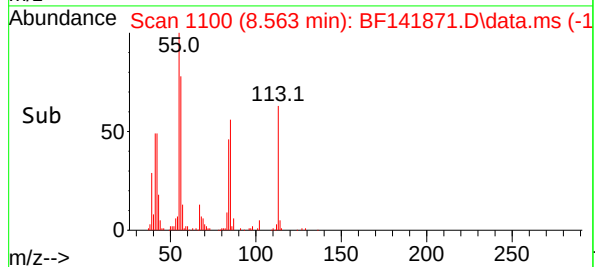
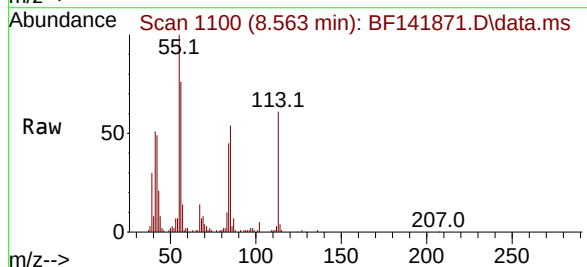
Delta R.T. -0.047 min

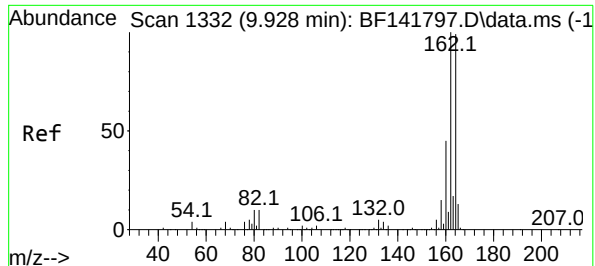
Lab File: BF141871.D

Acq: 06 Mar 2025 16:29

Tgt Ion: 113 Resp: 37378

Ion	Ratio	Lower	Upper
113	100		
55	165.0	155.6	195.6
56	126.2	114.6	154.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF141871.D

Acq: 06 Mar 2025 16:29

Instrument :

BNA_F

ClientSampleId :

ENV-102-GW01

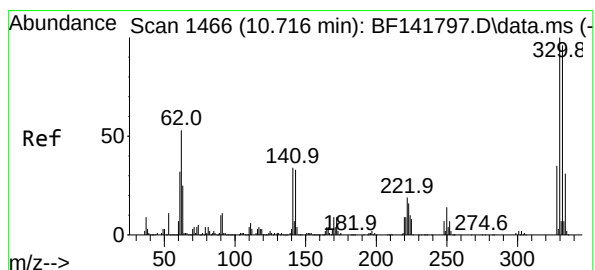
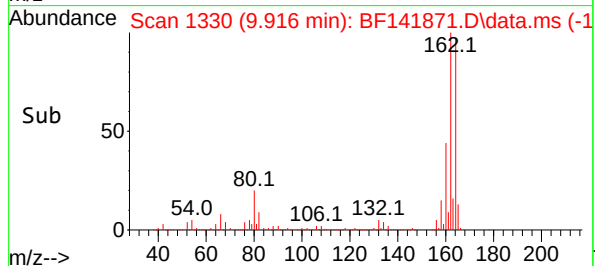
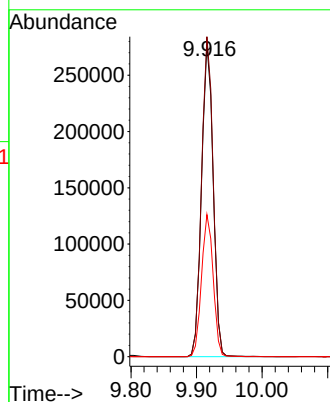
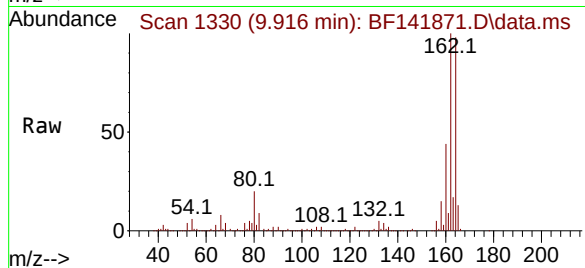
Tgt Ion:164 Resp: 343111

Ion Ratio Lower Upper

164 100

162 102.4 80.6 120.8

160 45.5 36.3 54.5



#42

2,4,6-Tribromophenol

Concen: 174.263 ng

RT: 10.704 min Scan# 1464

Delta R.T. -0.012 min

Lab File: BF141871.D

Acq: 06 Mar 2025 16:29

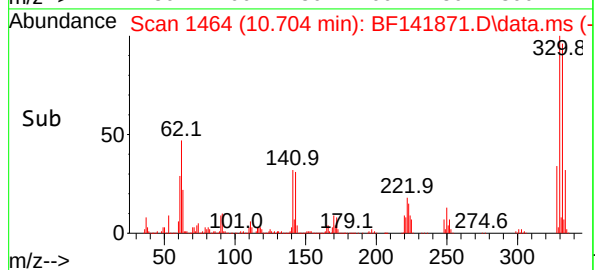
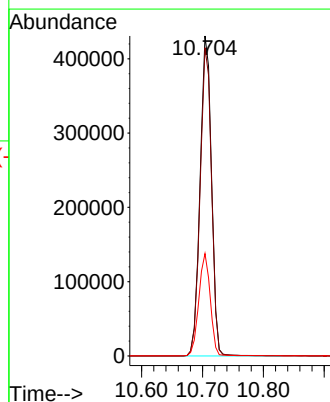
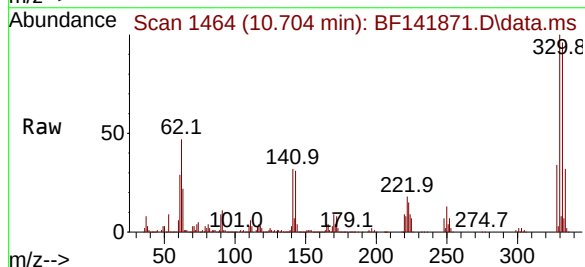
Tgt Ion:330 Resp: 561334

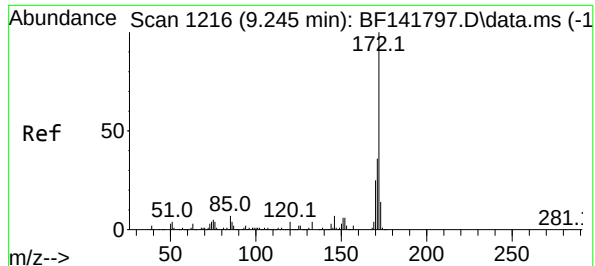
Ion Ratio Lower Upper

330 100

332 96.5 76.6 115.0

141 32.0 29.0 43.4





#45

2-Fluorobiphenyl

Concen: 94.479 ng

RT: 9.239 min Scan# 1215

Delta R.T. -0.006 min

Lab File: BF141871.D

Acq: 06 Mar 2025 16:29

Instrument :

BNA_F

ClientSampleId :

ENV-102-GW01

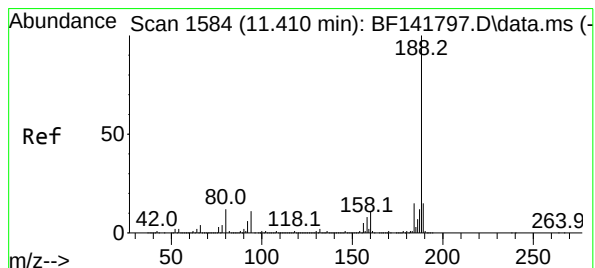
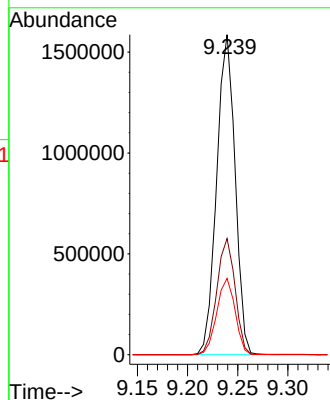
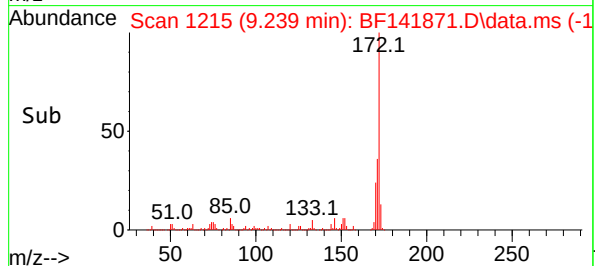
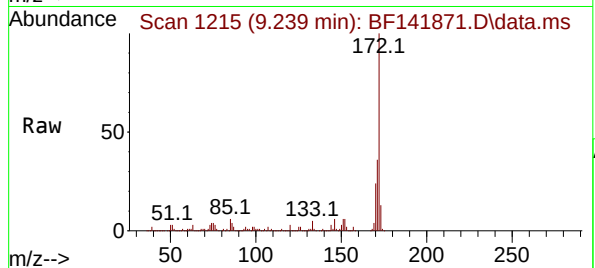
Tgt Ion:172 Resp: 2021701

Ion Ratio Lower Upper

172 100

171 36.3 29.2 43.8

170 23.9 19.7 29.5



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.404 min Scan# 1583

Delta R.T. -0.006 min

Lab File: BF141871.D

Acq: 06 Mar 2025 16:29

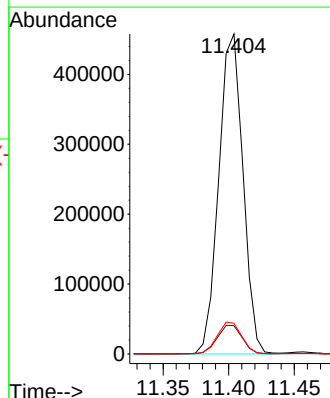
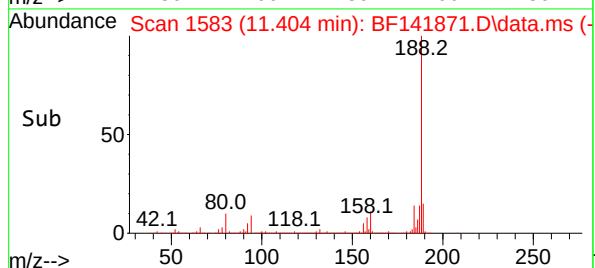
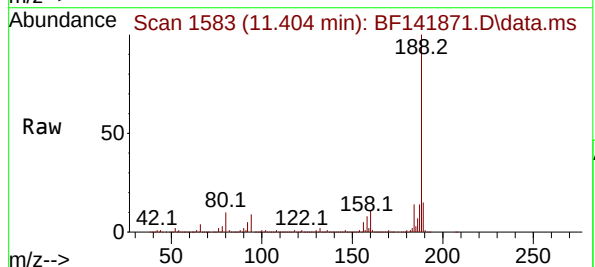
Tgt Ion:188 Resp: 586477

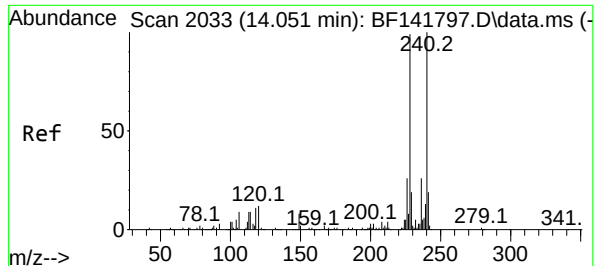
Ion Ratio Lower Upper

188 100

94 8.9 8.9 13.3#

80 9.6 9.7 14.5#

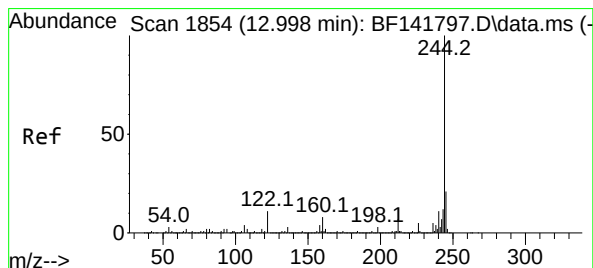
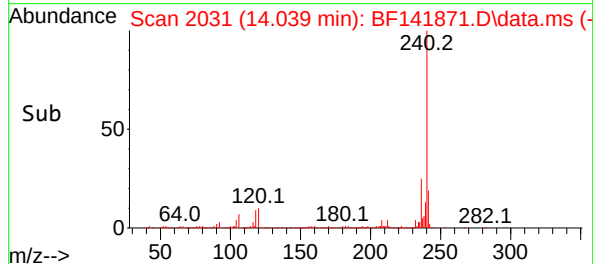
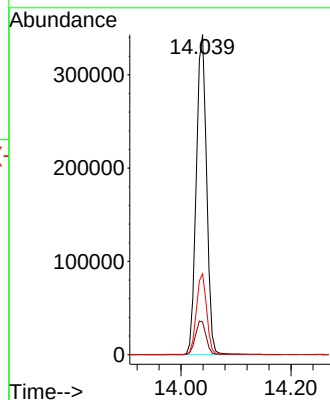
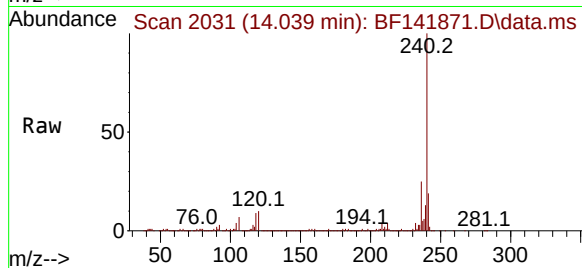




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

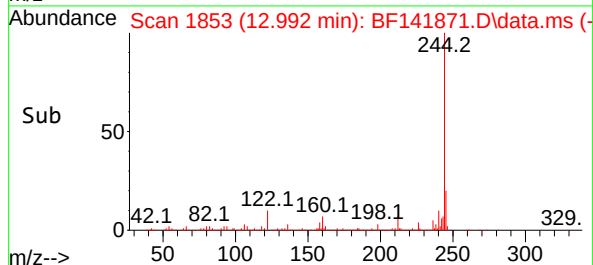
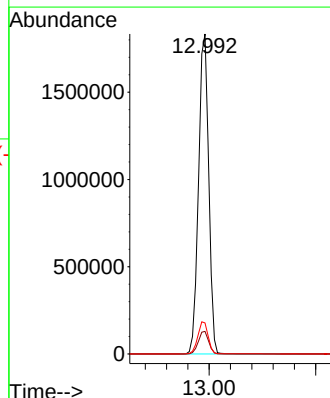
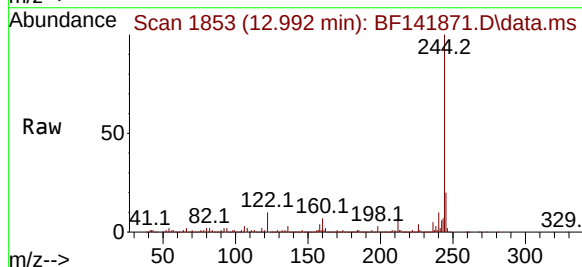
Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

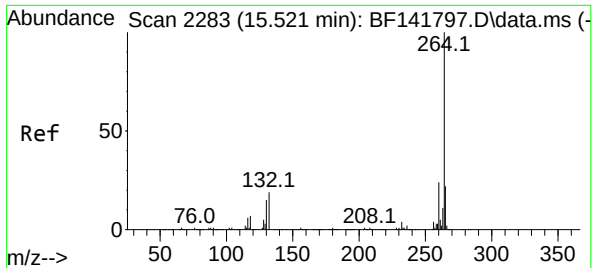
Tgt Ion:240 Resp: 448542
Ion Ratio Lower Upper
240 100
120 10.3 9.7 14.5
236 25.3 21.0 31.4



#79
Terphenyl-d14
Concen: 87.671 ng
RT: 12.992 min Scan# 1853
Delta R.T. -0.006 min
Lab File: BF141871.D
Acq: 06 Mar 2025 16:29

Tgt Ion:244 Resp: 2430546
Ion Ratio Lower Upper
244 100
212 7.1 6.0 9.0
122 9.7 9.0 13.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.510 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF141871.D

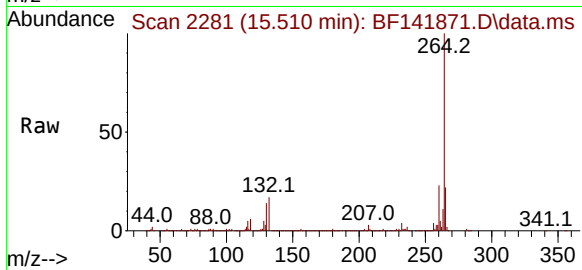
Acq: 06 Mar 2025 16:29

Instrument :

BNA_F

ClientSampleId :

ENV-102-GW01



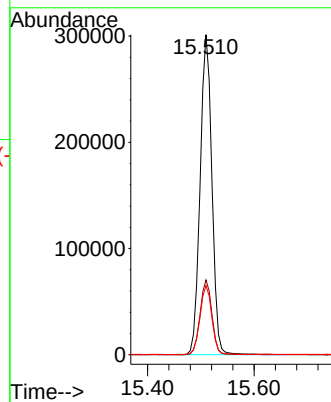
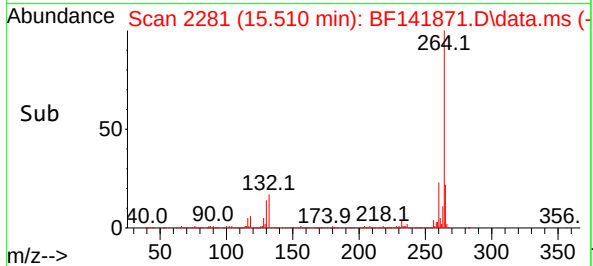
Tgt Ion:264 Resp: 460671

Ion Ratio Lower Upper

264 100

260 23.4 18.9 28.3

265 21.6 17.4 26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141871.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.163	3	12	19	rBV	3016352	4872593	60.84%	10.232%
2	5.104	503	512	521	rVB2	105976	179102	2.24%	0.376%
3	5.498	570	579	592	rBV	2225982	2938320	36.69%	6.170%
4	6.498	732	749	761	rBV	1600521	2279612	28.47%	4.787%
5	6.887	809	815	820	rBV	752922	960693	12.00%	2.017%
6	6.940	820	824	834	rVB	378499	474973	5.93%	0.997%
7	7.445	899	910	915	rBV	2382172	3259251	40.70%	6.844%
8	7.528	915	924	929	rVB	147960	258404	3.23%	0.543%
9	7.881	979	984	991	rVB2	81330	132060	1.65%	0.277%
10	8.063	1011	1015	1020	rBV	61750	81570	1.02%	0.171%
11	8.163	1027	1032	1040	rBV	1028838	1275634	15.93%	2.679%
12	8.498	1081	1089	1094	rBV2	166997	258256	3.22%	0.542%
13	8.563	1094	1100	1112	rVB	225054	390636	4.88%	0.820%
14	9.239	1209	1215	1220	rBV	4692181	6003064	74.96%	12.606%
15	9.669	1284	1288	1295	rBV	53551	90187	1.13%	0.189%
16	9.916	1325	1330	1335	rBV	1184540	1465251	18.30%	3.077%
17	10.322	1396	1399	1406	rVB2	166324	208266	2.60%	0.437%
18	10.628	1447	1451	1458	rVB	646631	818259	10.22%	1.718%
19	10.704	1458	1464	1469	rBV	3200175	4167822	52.04%	8.752%
20	10.939	1499	1504	1508	rBV	133446	167781	2.10%	0.352%
21	11.404	1577	1583	1589	rBV	1130756	1466662	18.31%	3.080%
22	11.510	1596	1601	1608	rBV	264890	386031	4.82%	0.811%
23	11.927	1667	1672	1686	rBV2	533555	818519	10.22%	1.719%
24	12.151	1707	1710	1714	rBV	67720	94576	1.18%	0.199%
25	12.427	1753	1757	1760	rBV	55443	82511	1.03%	0.173%
26	12.639	1789	1793	1799	rVB	137465	195766	2.44%	0.411%
27	12.710	1801	1805	1815	rBV	163085	233284	2.91%	0.490%
28	12.804	1815	1821	1826	rBV	2495070	3186351	39.79%	6.691%
29	12.992	1847	1853	1861	rVB2	4906573	8008284	100.00%	16.817%
30	13.880	2000	2004	2021	rVB	122824	195898	2.45%	0.411%
31	14.039	2025	2031	2041	rBV	912404	1228364	15.34%	2.580%
32	14.892	2172	2176	2186	rVB	98122	144783	1.81%	0.304%
33	15.510	2275	2281	2297	rVB	810124	1296892	16.19%	2.723%

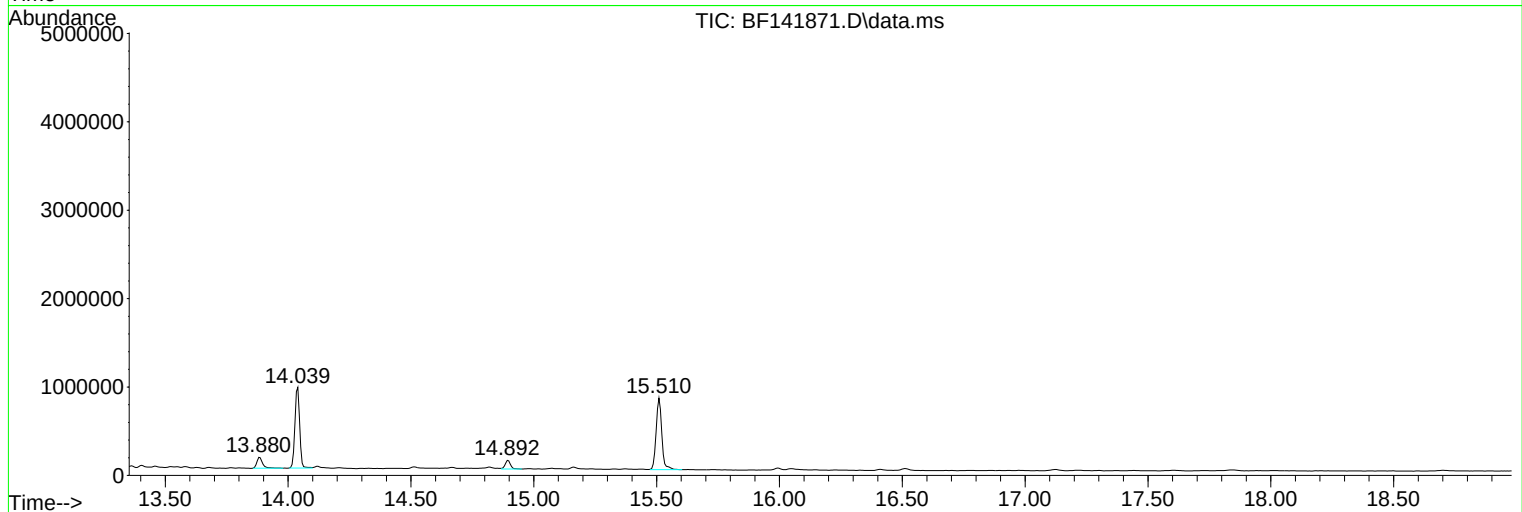
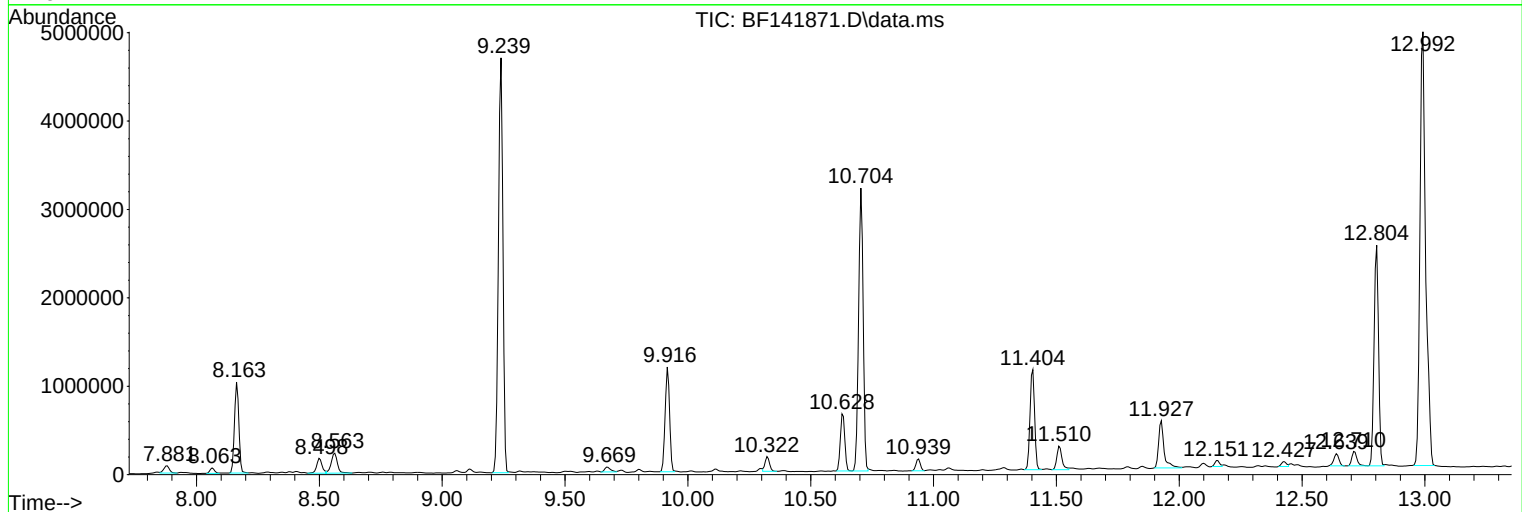
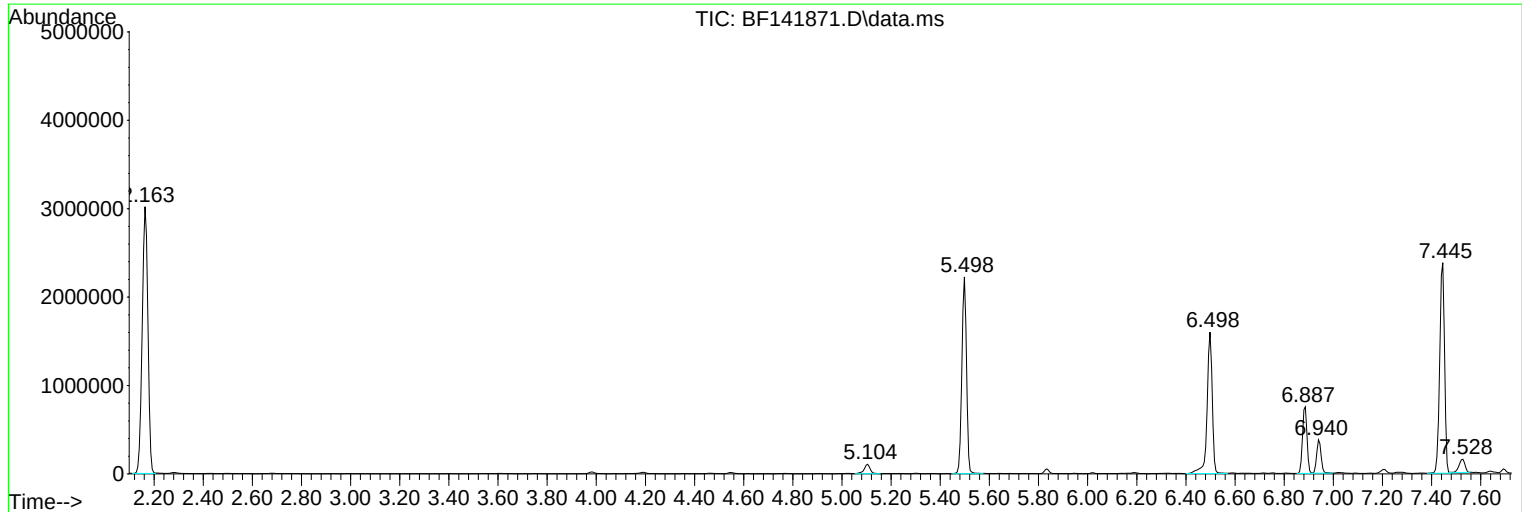
Sum of corrected areas: 47619655

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

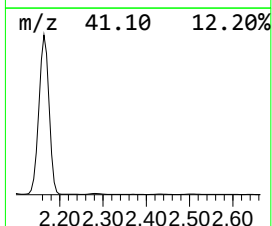
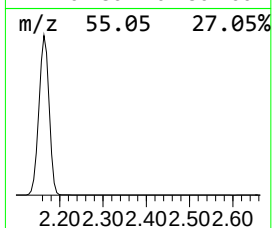
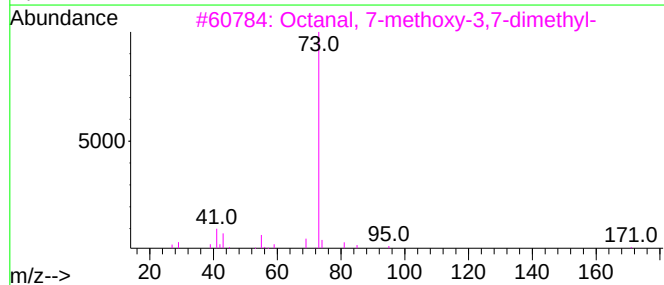
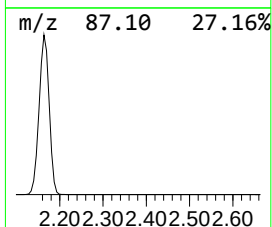
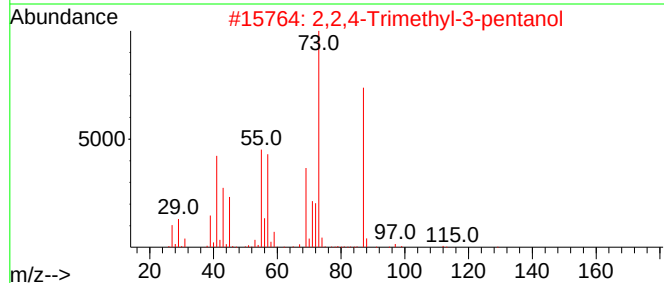
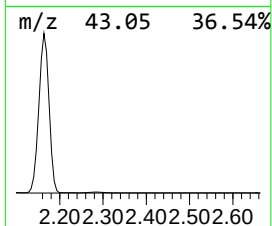
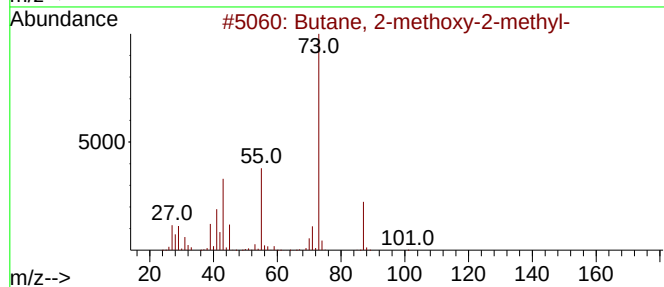
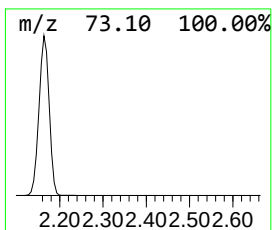
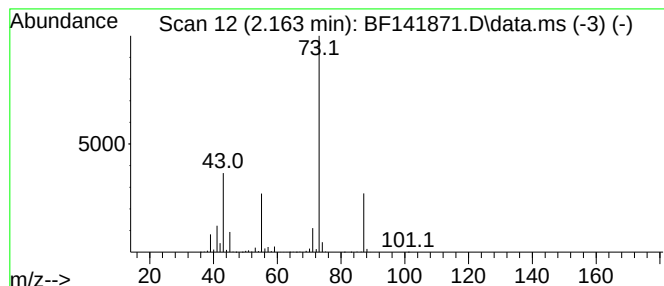
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.163	101.44 ng	4872590	1,4-Dichlorobenzene-d4	6.887

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2			2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3			Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	23
4			Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
5			Silane, tetramethyl-	88	C4H12Si	000075-76-3	12



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

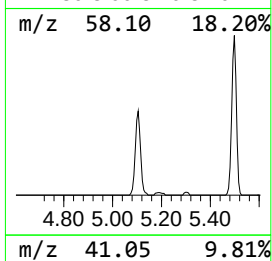
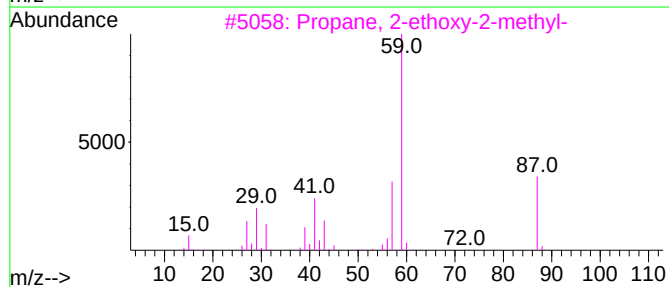
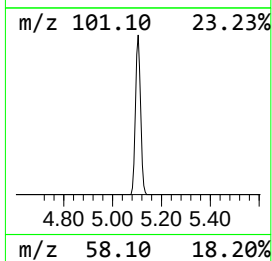
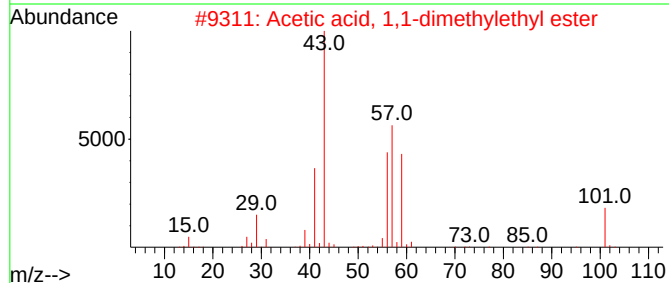
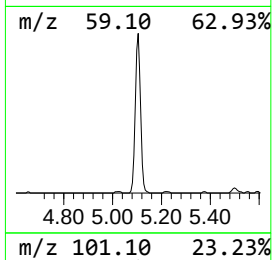
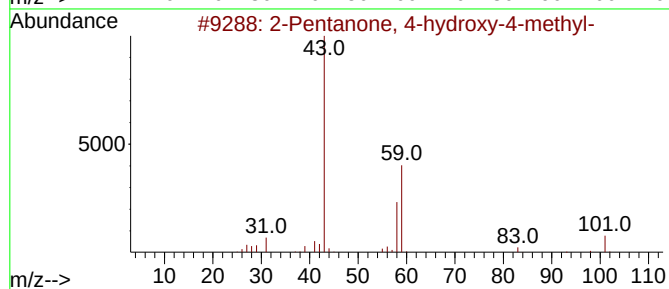
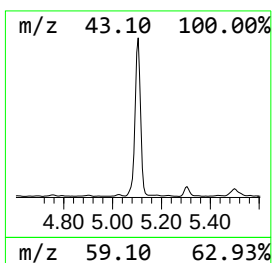
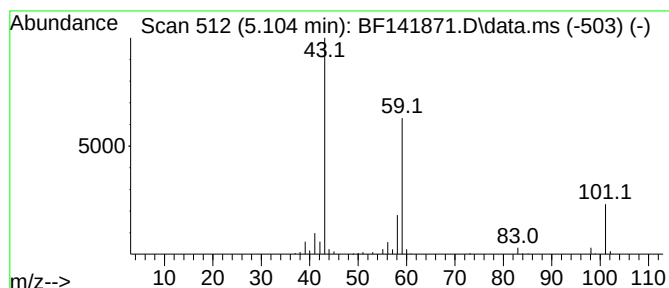
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.104	3.73 ng	179102	1,4-Dichlorobenzene-d4	6.887

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2		Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
3		Propane, 2-ethoxy-2-methyl-	102	C6H14O	000637-92-3	17
4		1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5		Acetone	58	C3H6O	000067-64-1	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
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Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

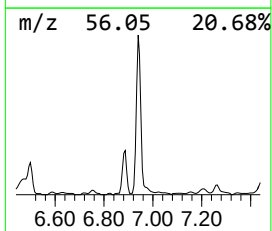
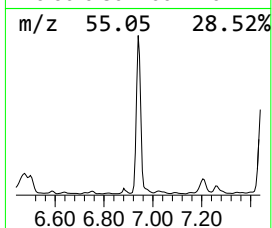
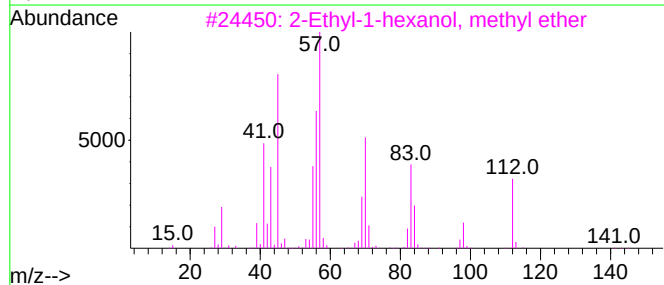
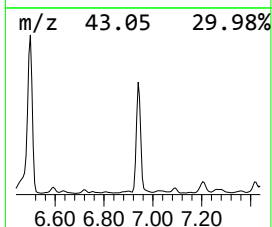
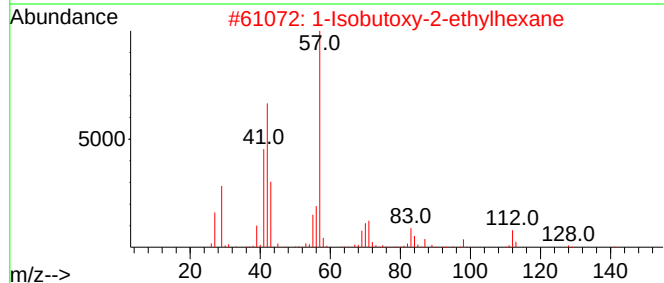
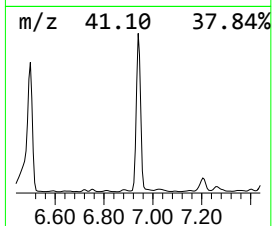
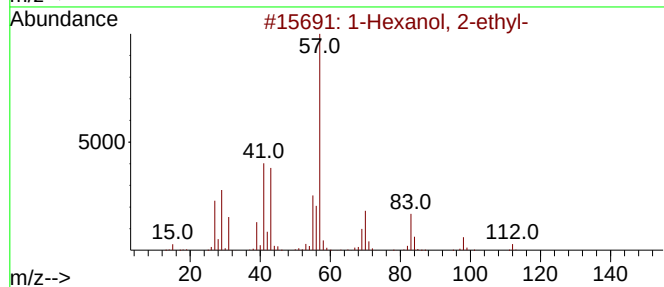
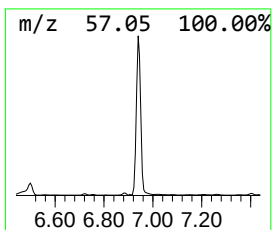
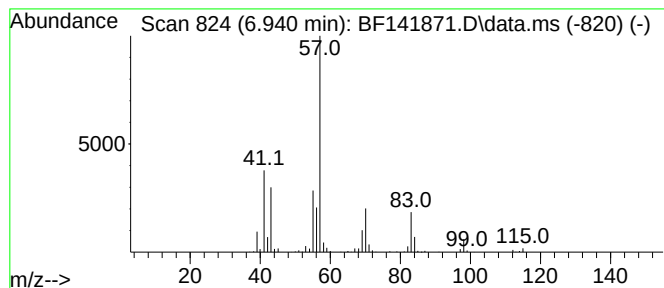
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 1-Hexanol, 2-ethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.940	9.89 ng	474973	1,4-Dichlorobenzene-d4	6.887

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	78
2			1-Isobutoxy-2-ethylhexane	186	C12H26O	1000139-90-3	64
3			2-Ethyl-1-hexanol, methyl ether	144	C9H20O	1000365-10-2	53
4			Pentadecafluorooctanoic acid, 2-...	526	C16H17F15O2	1000406-80-9	42
5			2-Propyl-1-pentanol	130	C8H18O	058175-57-8	42



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
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ClientSampleId :
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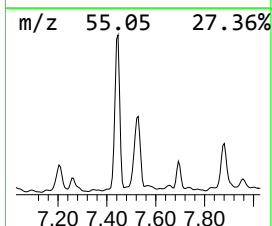
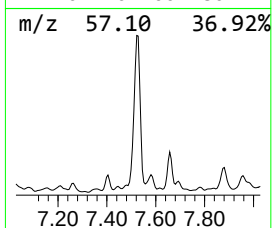
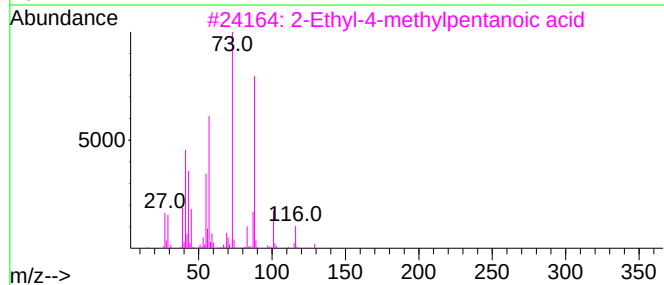
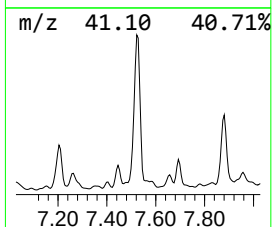
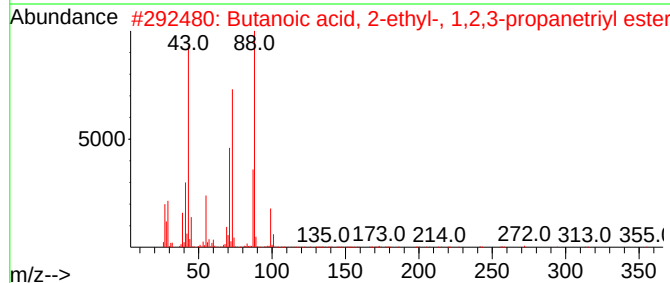
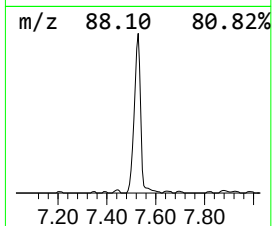
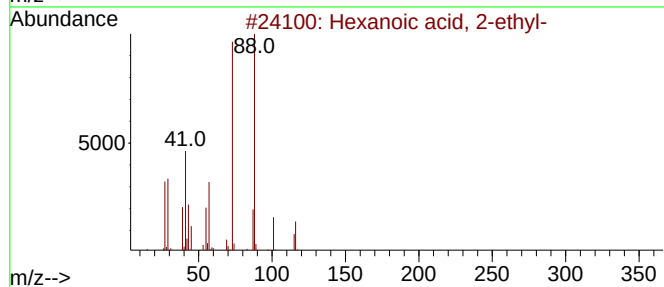
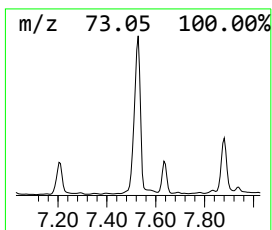
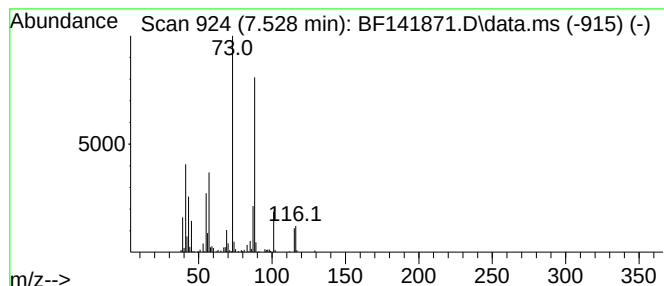
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Hexanoic acid, 2-ethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.528	4.05 ng	258404	Naphthalene-d8	8.163

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	90
2			Butanoic acid, 2-ethyl-, 1,2,3-p...	386	C21H38O6	056554-54-2	59
3			2-Ethyl-4-methylpentanoic acid	144	C8H16O2	000108-81-6	56
4			Heptanoic acid, ethyl ester	158	C9H18O2	000106-30-9	45
5			1,4-Dioxane	88	C4H8O2	000123-91-1	43



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

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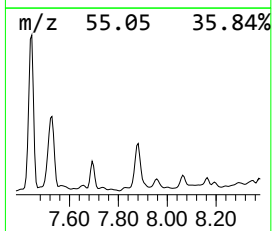
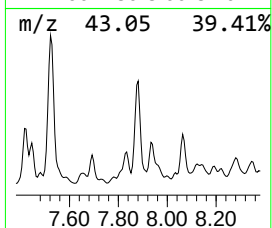
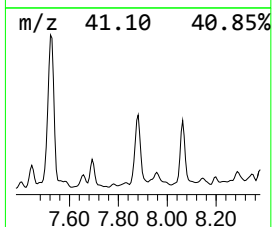
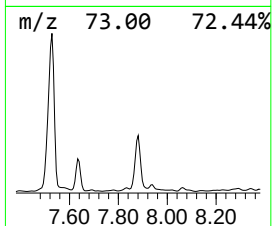
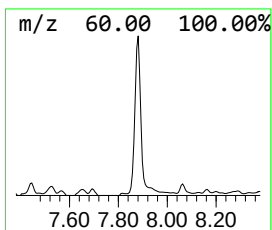
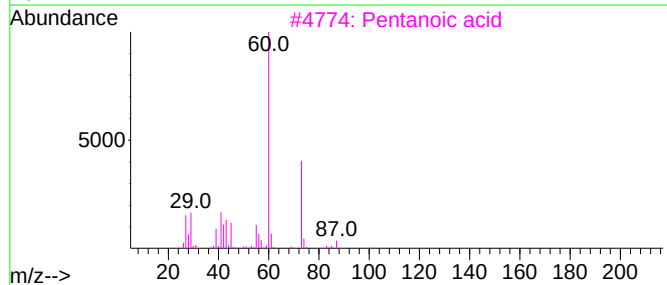
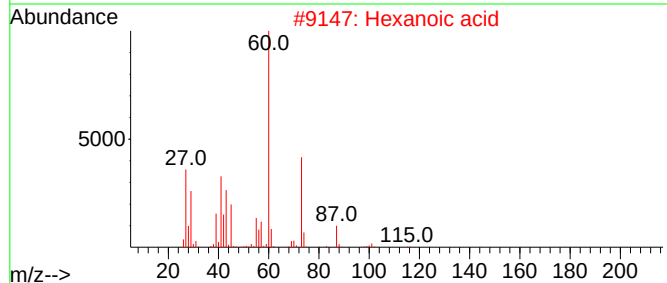
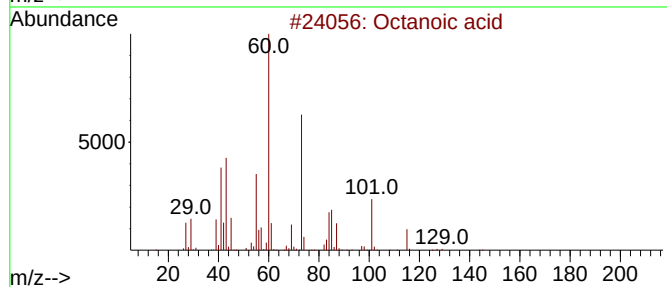
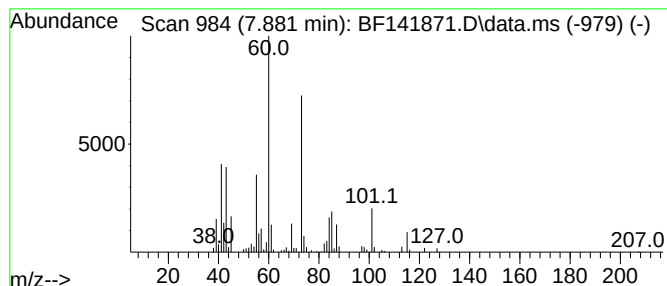
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Octanoic acid Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.881	2.07 ng	132060	Naphthalene-d8	8.163

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Octanoic acid	144	C8H16O2	000124-07-2	91
2			Hexanoic acid	116	C6H12O2	000142-62-1	53
3			Pentanoic acid	102	C5H10O2	000109-52-4	50
4			Butanoic acid, 3-methyl-	102	C5H10O2	000503-74-2	50
5			Heptanoic acid	130	C7H14O2	000111-14-8	40



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

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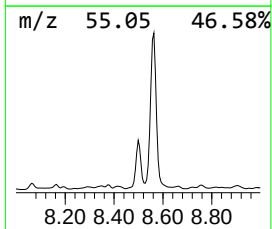
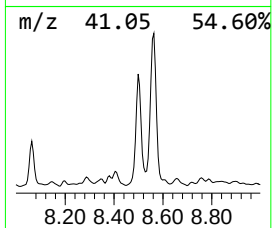
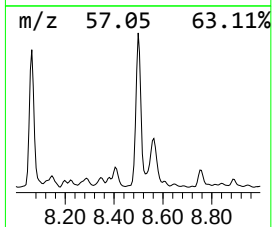
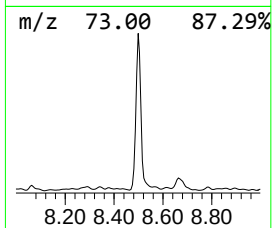
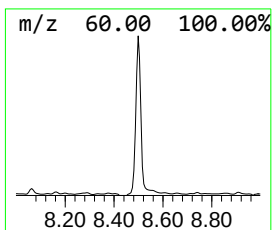
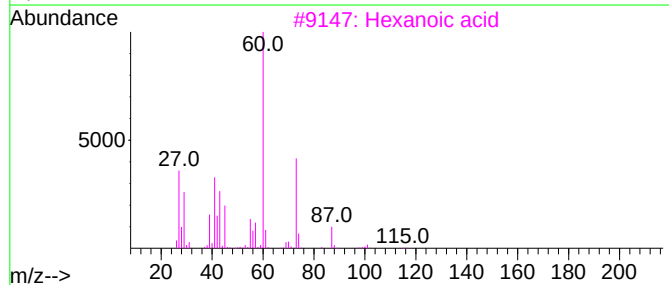
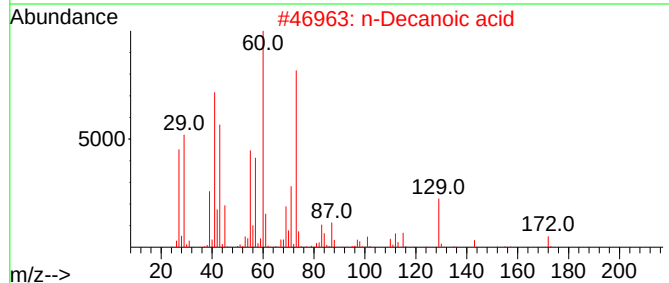
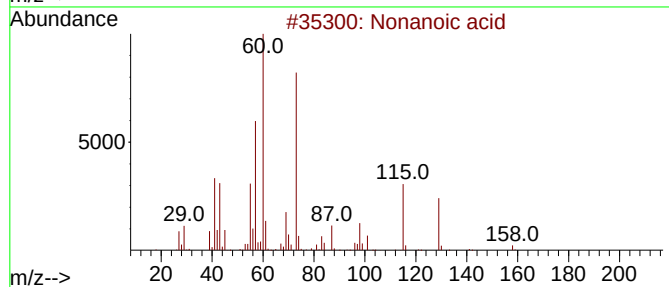
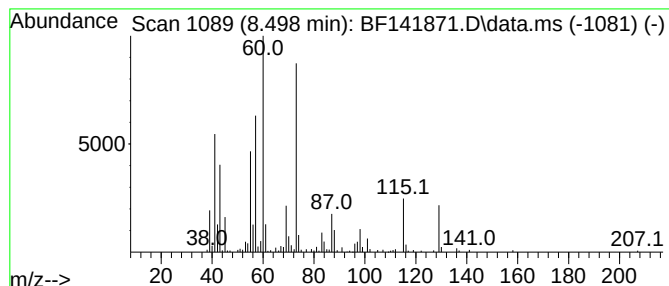
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Nonanoic acid Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.498	4.05 ng	258256	Naphthalene-d8	8.163

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Nonanoic acid	158	C9H18O2	000112-05-0	94
2			n-Decanoic acid	172	C10H20O2	000334-48-5	59
3			Hexanoic acid	116	C6H12O2	000142-62-1	50
4			Octanoic acid	144	C8H16O2	000124-07-2	47
5			Pentanoic acid, 3-methyl-	116	C6H12O2	000105-43-1	43



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
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Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

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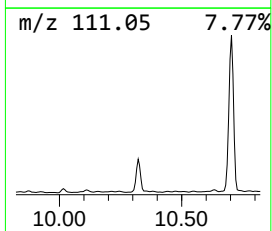
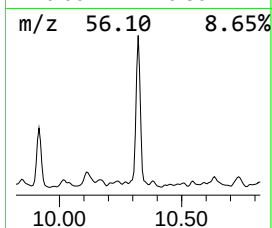
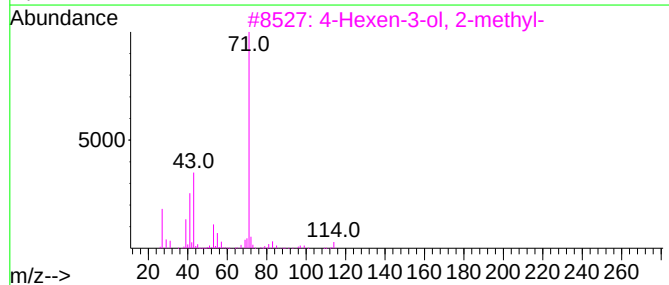
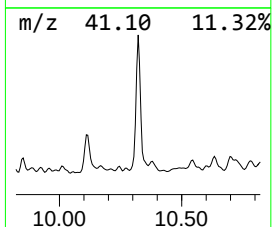
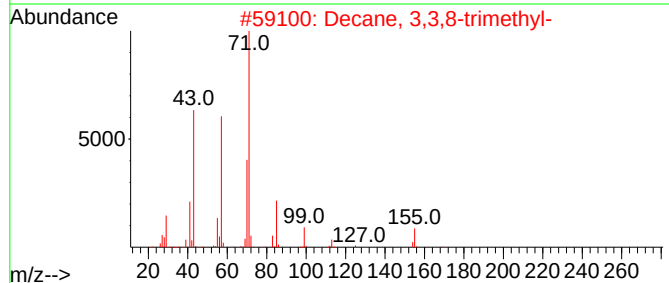
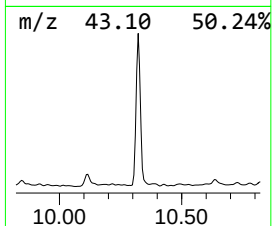
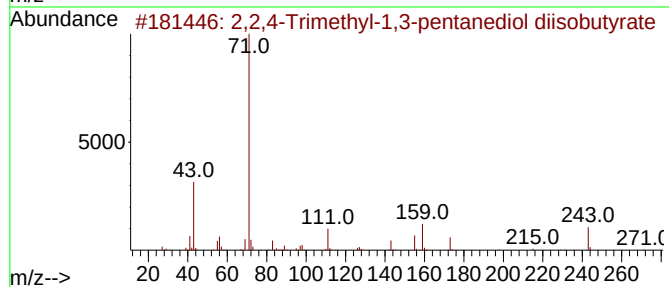
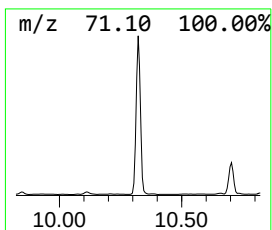
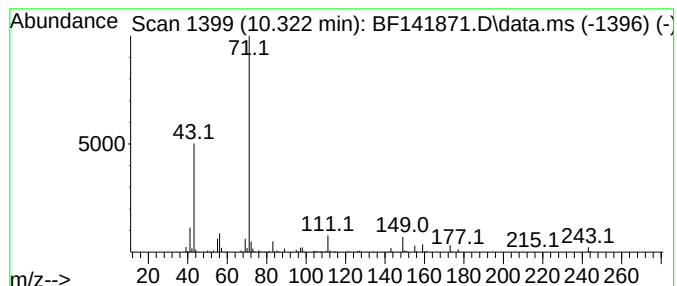
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 2,2,4-Trimethyl-1,3-pentane... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.322	2.84 ng	208266	Acenaphthene-d10	9.916

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2,2,4-Trimethyl-1,3-pentanediol ...	286	C16H30O4	006846-50-0	78
2			Decane, 3,3,8-trimethyl-	184	C13H28	062338-16-3	45
3			4-Hexen-3-ol, 2-methyl-	114	C7H14O	004798-60-1	45
4			Cyclopropanemethanol, .alpha.-bu...	128	C8H16O	004379-16-2	45
5			Succinic acid, 2,2-dichloroethyl...	298	C11H16Cl2O5	1000390-71-6	45



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
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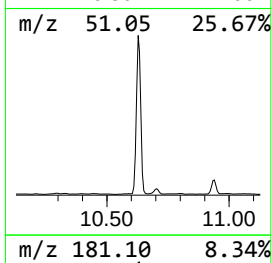
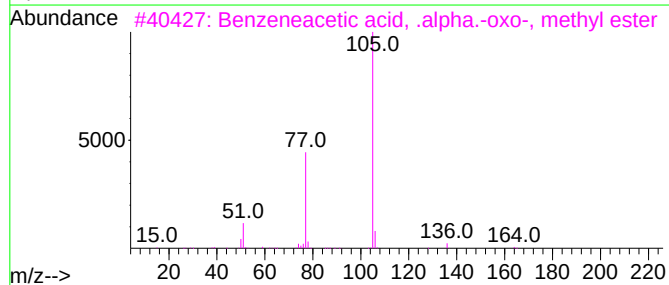
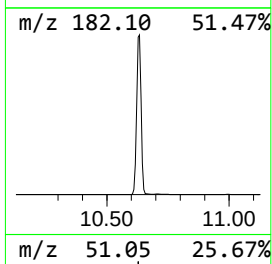
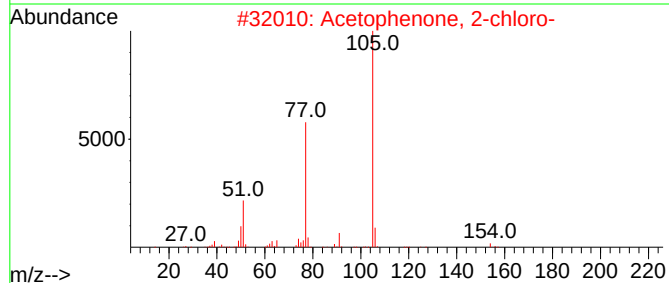
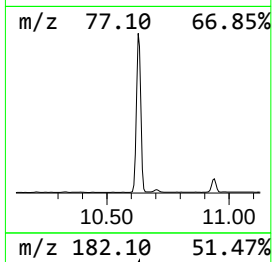
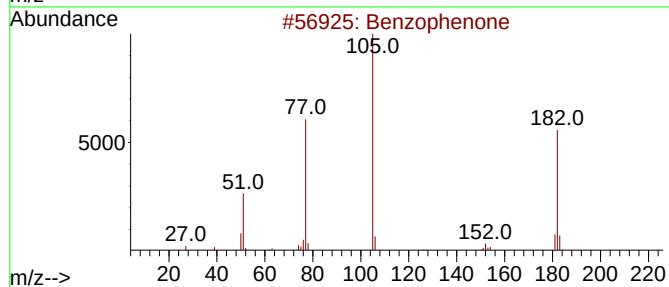
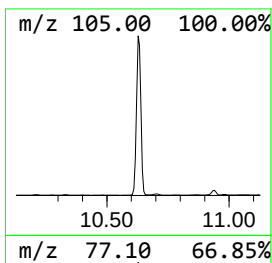
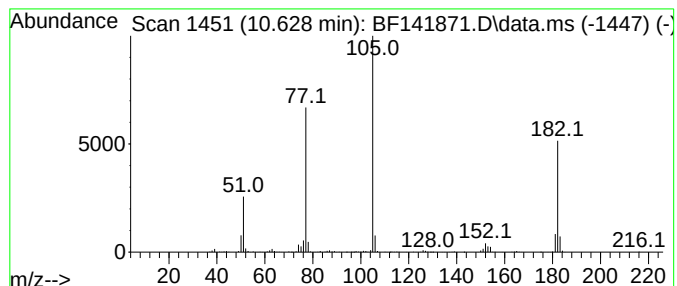
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD		R.T.	
10.628	11.17 ng	818259	Acenaphthene-d10		9.916	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Benzophenone		182	C13H10O	000119-61-9	96
2	Acetophenone, 2-chloro-		154	C8H7ClO	000532-27-4	49
3	Benzeneacetic acid, .alpha.-oxo-...		164	C9H8O3	015206-55-0	49
4	Benzenebutanoic acid, .gamma.-oxo-		178	C10H10O3	002051-95-8	47
5	N-Methylbenzamide, N-trifluoroac...		231	C10H8F3NO2	1000446-91-5	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
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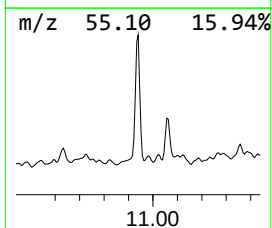
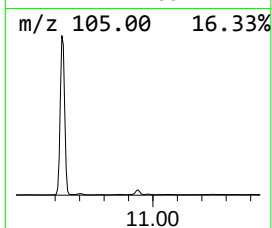
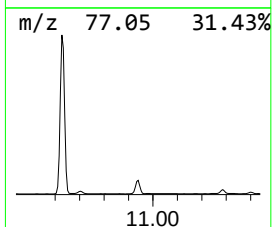
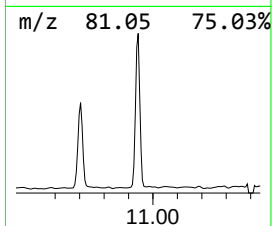
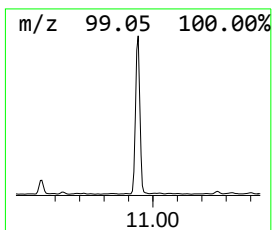
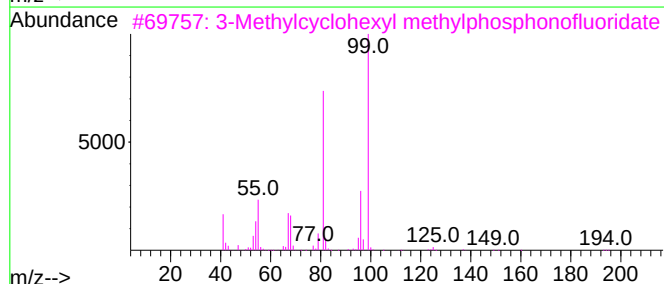
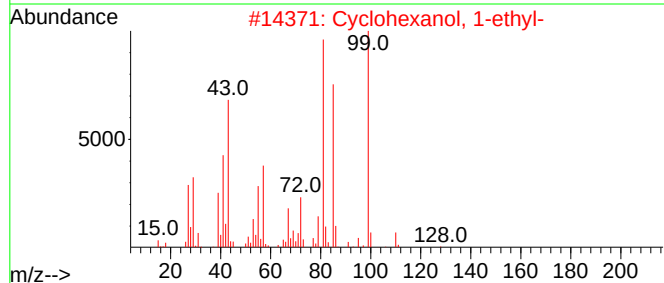
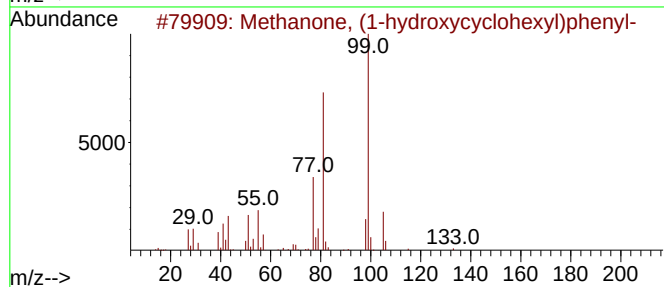
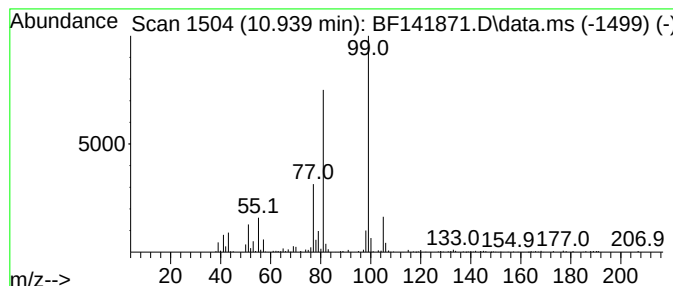
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Methanone, (1-hydroxycyclohexyl) Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.939	2.29 ng	167781	Phenanthrene-d10	11.404

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Methanone, (1-hydroxycyclohexyl)...	204	C13H16O2	000947-19-3	83
2			Cyclohexanol, 1-ethyl-	128	C8H16O	001940-18-7	45
3			3-Methylcyclohexyl methylphospho...	194	C8H16FO2P	113548-86-0	42
4			Cyclopentane, 1-methyl-2-methylene-	96	C7H12	041158-41-2	16
5			1,1'-Bicyclohexyl-1,1'-diol	198	C12H22O2	002888-11-1	16



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Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

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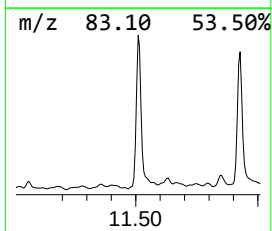
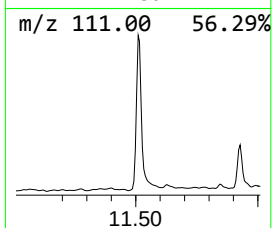
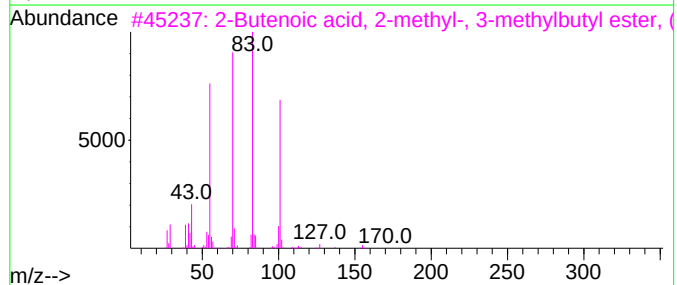
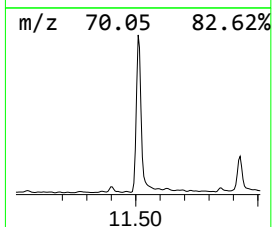
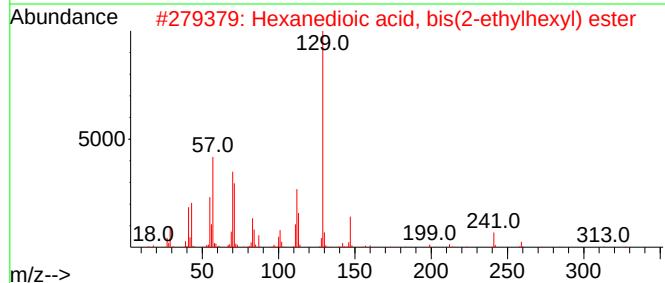
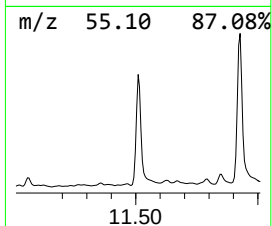
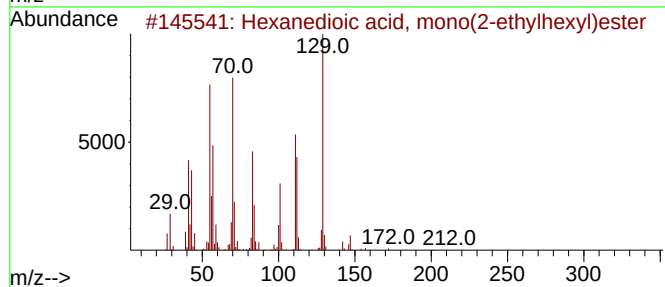
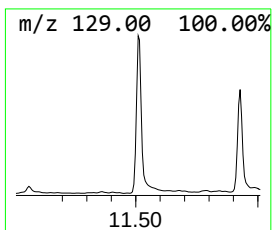
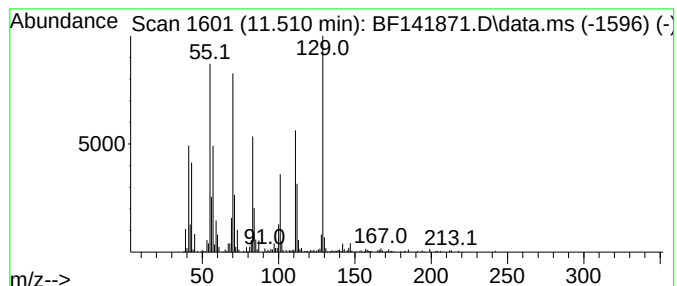
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TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 Hexanedioic acid, mono(2-et... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.510	5.26 ng	386031	Phenanthrene-d10	11.404

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Hexanedioic acid, mono(2-ethylhe...	258	C14H26O4	004337-65-9	86
2		Hexanedioic acid, bis(2-ethylhex...	370	C22H42O4	000103-23-1	38
3		2-Butenoic acid, 2-methyl-, 3-me...	170	C10H18O2	041519-18-0	35
4		4-Undecene, 9-methyl-, (Z)-	168	C12H24	074630-56-1	27
5		Cyclobutanecarboxylic acid, dode...	268	C17H32O2	1000280-40-8	22



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
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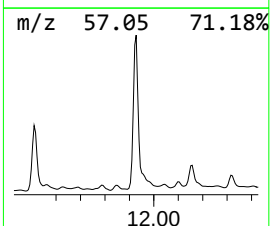
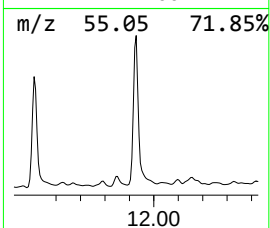
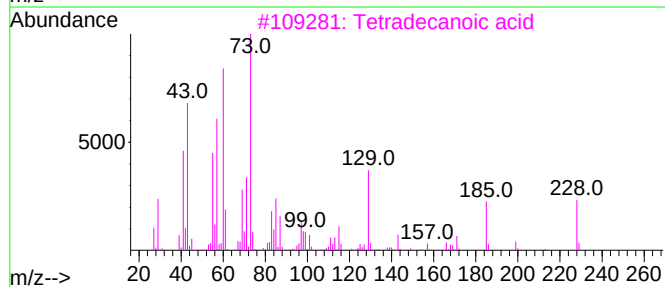
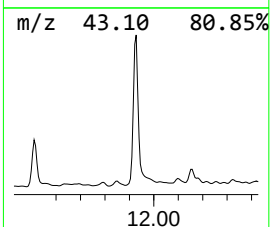
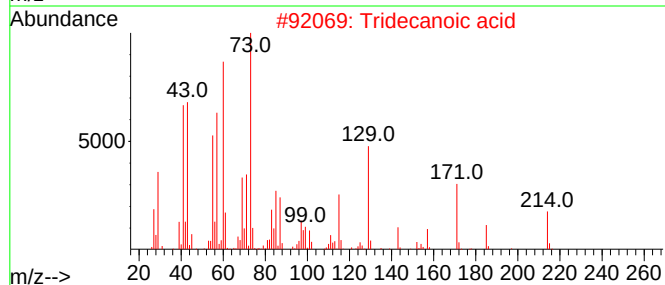
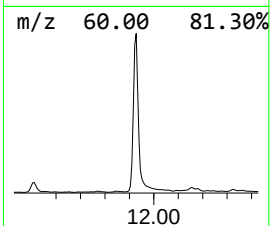
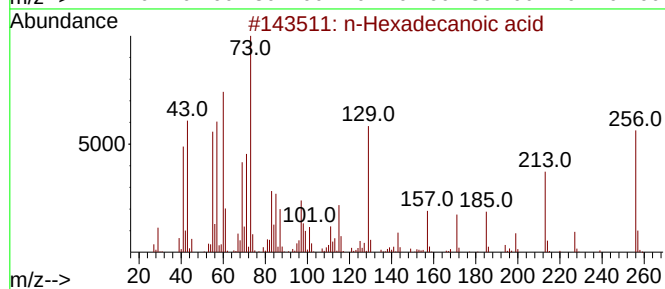
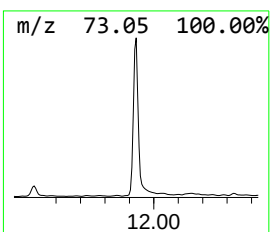
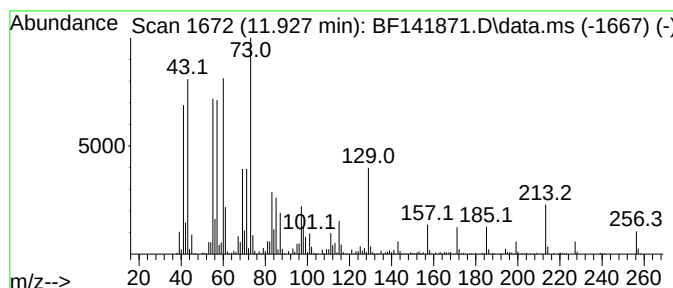
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TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 11 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.928	11.16 ng	818519	Phenanthrene-d10	11.404

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2		Tridecanoic acid	214	C13H26O2	000638-53-9	94
3		Tetradecanoic acid	228	C14H28O2	000544-63-8	93
4		Pentadecanoic acid	242	C15H30O2	001002-84-2	93
5		n-Decanoic acid	172	C10H20O2	000334-48-5	68



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
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Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

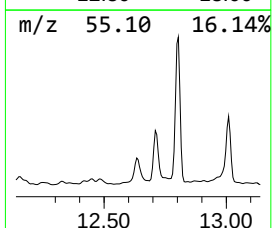
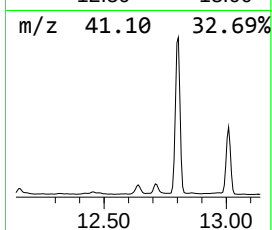
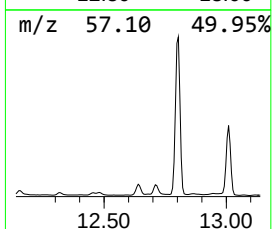
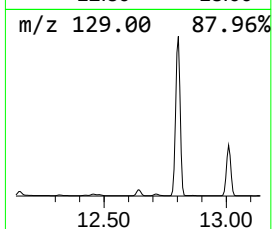
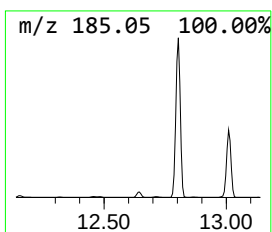
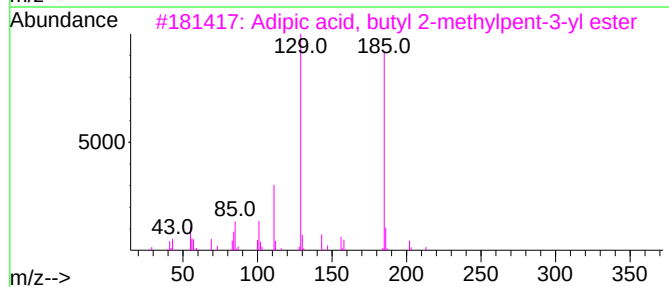
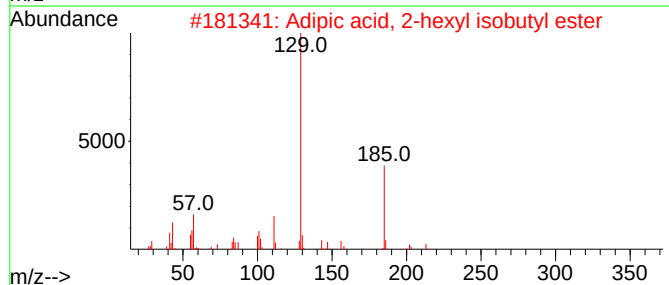
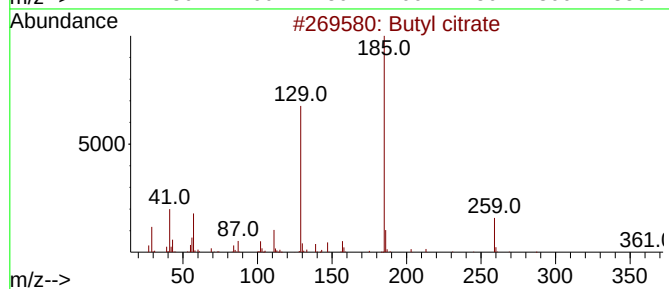
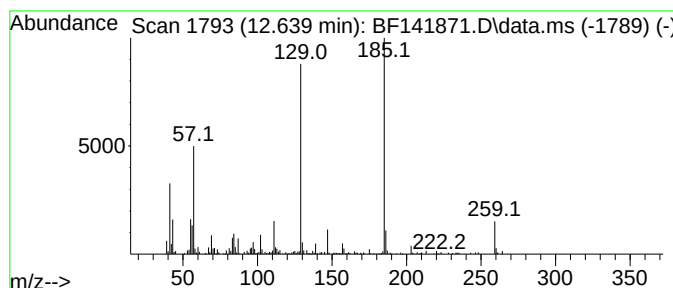
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Butyl citrate Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.639	2.67 ng	195766	Phenanthrene-d10	11.404	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butyl citrate	360	C18H32O7	000077-94-1	87
2	Adipic acid, 2-hexyl isobutyl ester	286	C16H30O4	1000353-70-9	72
3	Adipic acid, butyl 2-methylpent-...	286	C16H30O4	1010353-55-8	56
4	Adipic acid, isobutyl 2-pentyl e...	272	C15H28O4	1000324-15-6	56
5	Adipic acid, 2-decyl isobutyl ester	342	C20H38O4	1000353-59-6	50



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
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Sample : Q1488-13
Misc :
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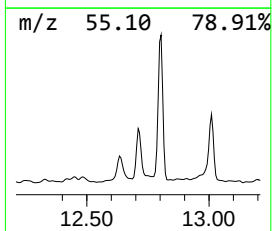
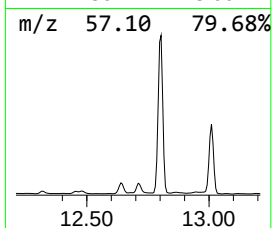
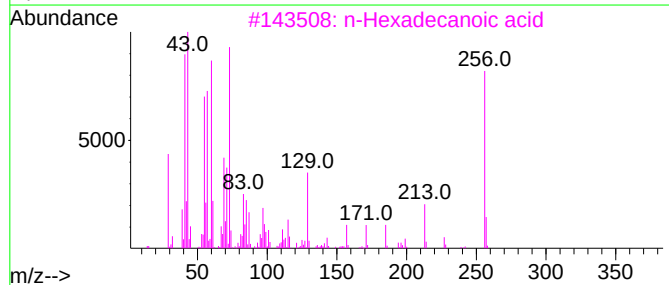
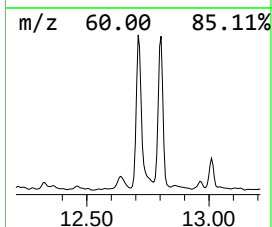
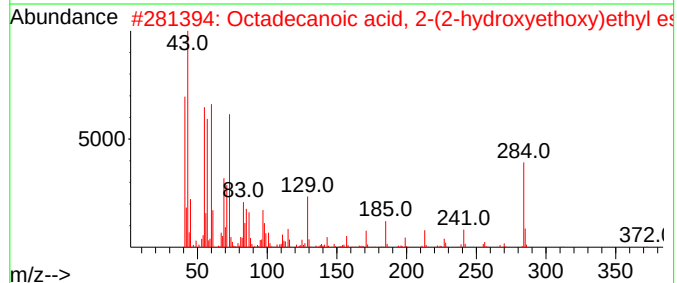
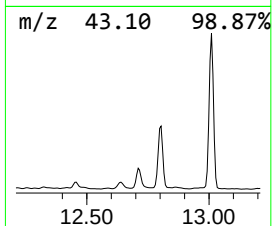
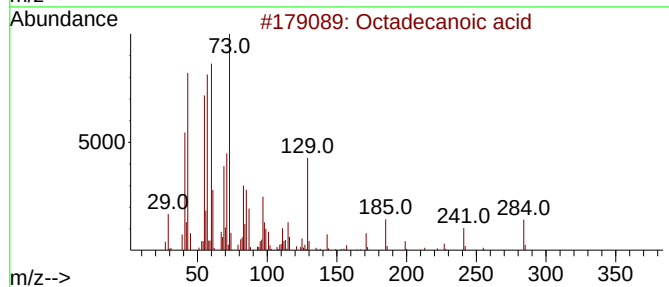
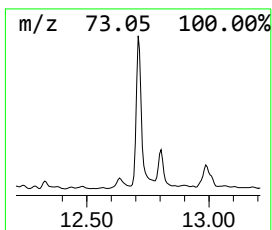
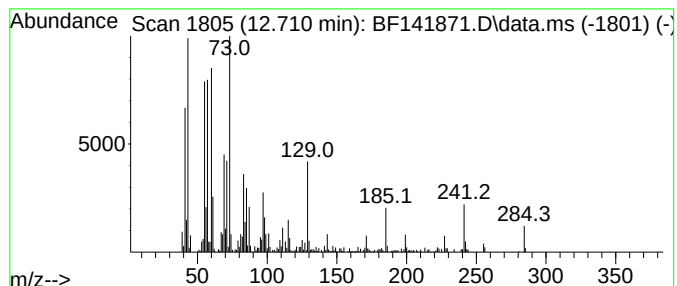
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Octadecanoic acid Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.710	3.18 ng	233284	Phenanthrene-d10	11.404	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	91
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	91
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	87



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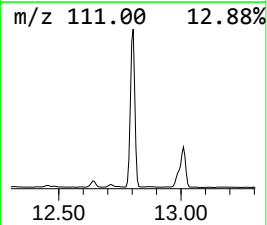
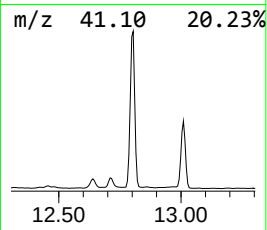
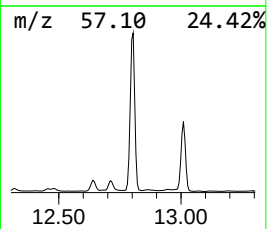
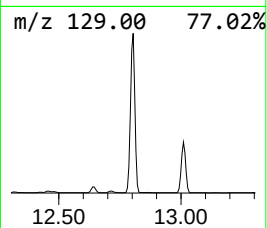
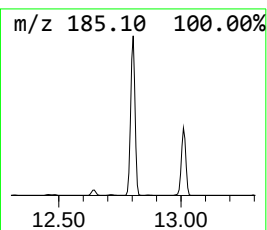
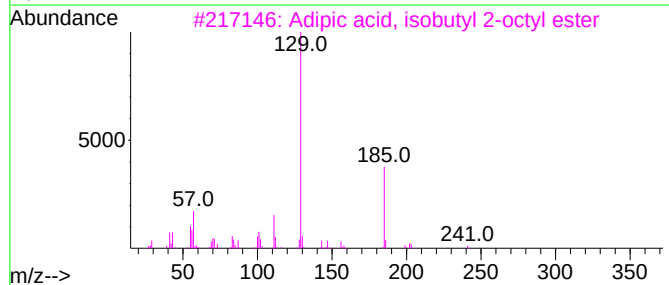
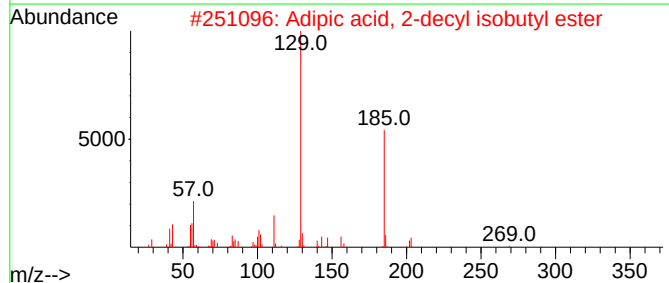
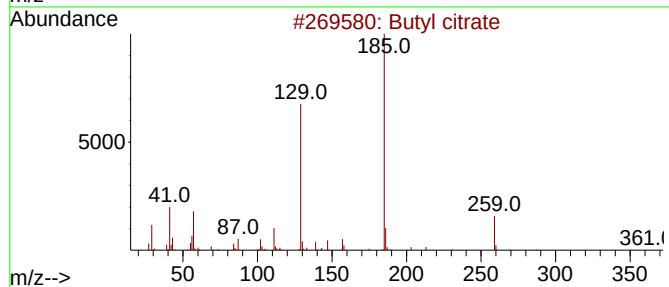
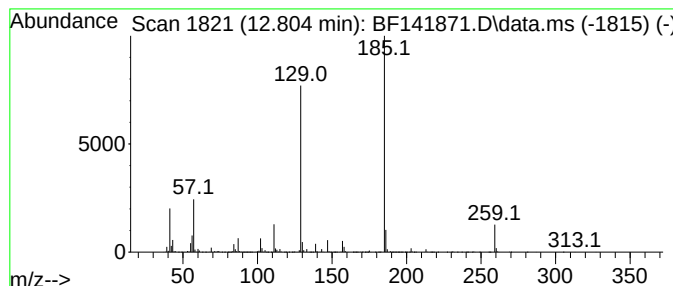
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Adipic acid, 2-decyl isobut... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.804	51.88 ng	3186350	Chrysene-d12	14.039

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Butyl citrate	360	C18H32O7	000077-94-1	91
2		Adipic acid, 2-decyl isobutyl ester	342	C20H38O4	1000353-59-6	78
3		Adipic acid, isobutyl 2-octyl ester	314	C18H34O4	1000324-44-5	64
4		Adipic acid, 3,3-dimethylbut-2-y...	286	C16H30O4	1000353-66-7	56
5		Adipic acid, 2-ethylcyclohexyl i...	312	C18H32O4	1000324-22-5	56



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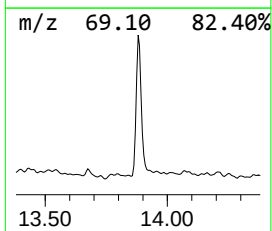
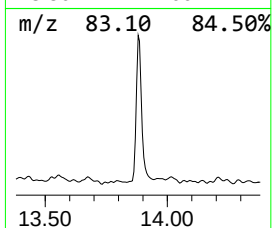
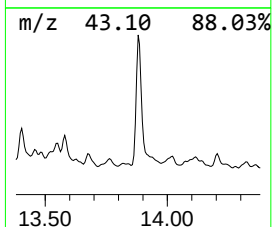
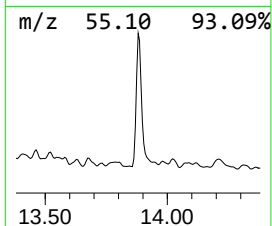
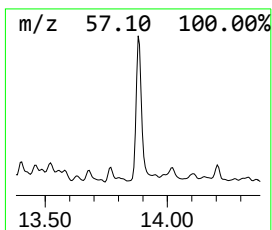
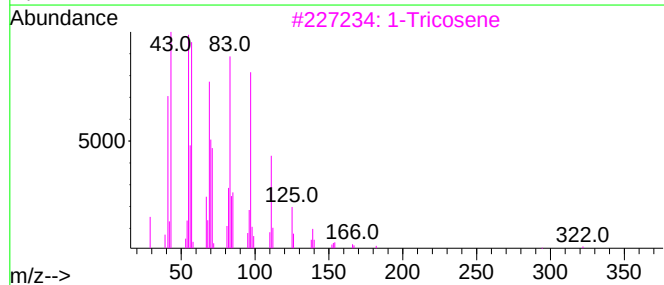
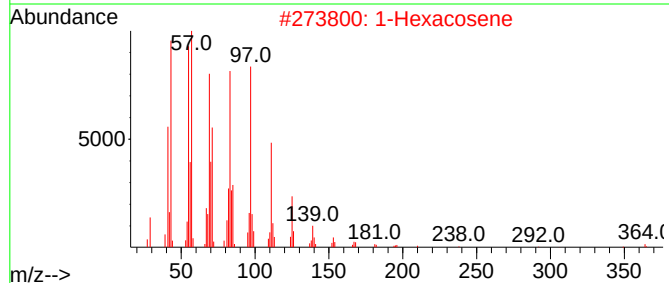
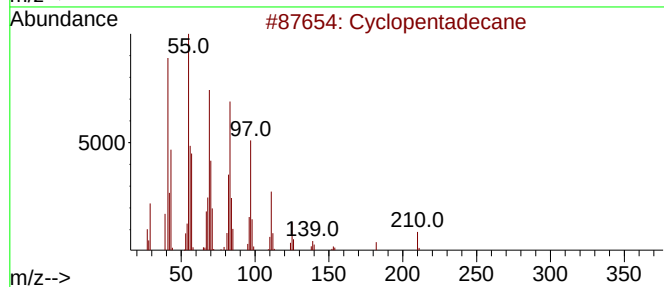
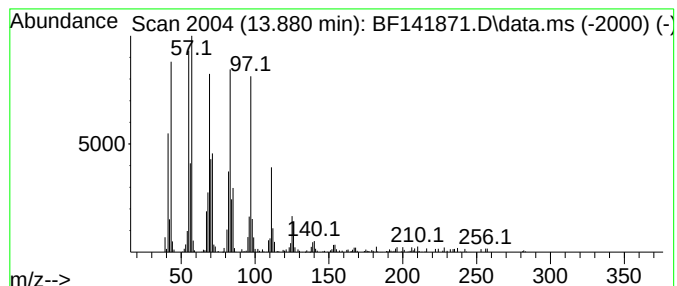
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TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 15 Cyclopentadecane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.880	3.19 ng	195898	Chrysene-d12	14.039

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Cyclopentadecane	210	C15H30	000295-48-7	96
2		1-Hexacosene	364	C26H52	018835-33-1	94
3		1-Tricosene	322	C23H46	018835-32-0	94
4		Behenic alcohol	326	C22H46O	000661-19-8	94
5		Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	94



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
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Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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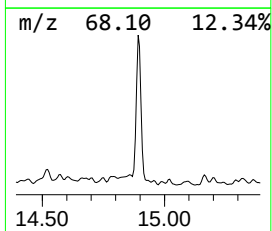
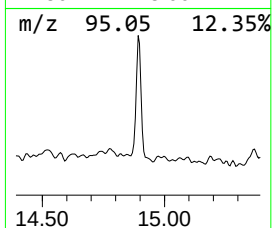
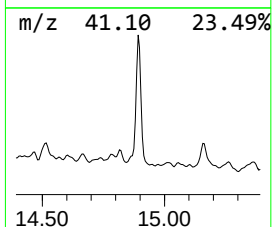
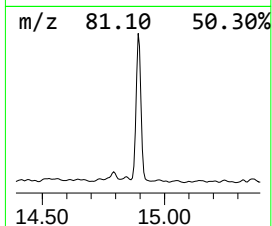
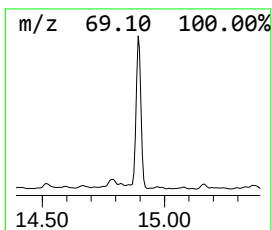
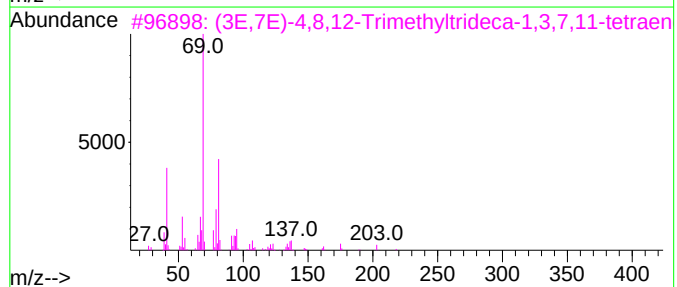
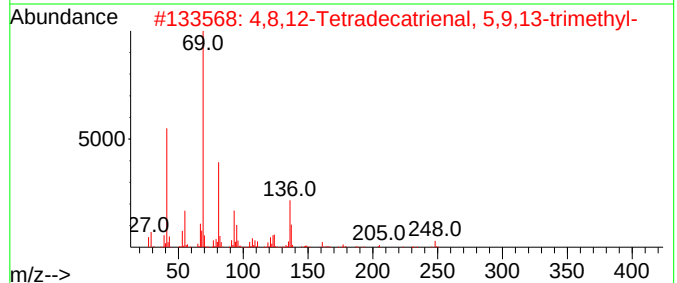
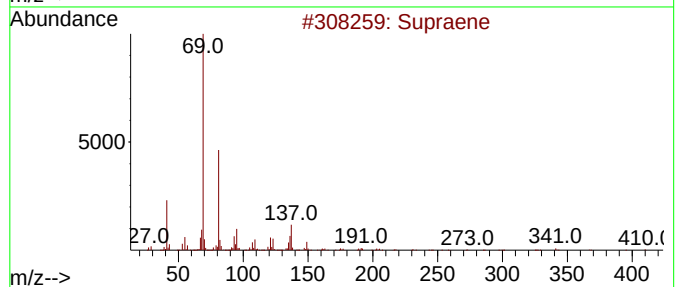
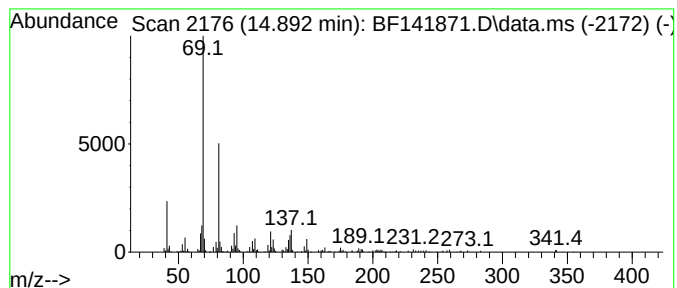
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Supraene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.892	2.23 ng	144783	Perylene-d12	15.510

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Supraene	410	C30H50	007683-64-9	91
2			4,8,12-Tetradecatrienal, 5,9,13-...	248	C17H28O	066408-55-7	64
3			(3E,7E)-4,8,12-Trimethyltrideca-...	218	C16H26	062235-06-7	64
4			7,11-Dimethyldodeca-2,6,10-trien...	208	C14H24O	125529-10-4	64
5			Cyclopentane, bromo-	148	C5H9Br	000137-43-9	49



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141871.D
Acq On : 06 Mar 2025 16:29
Operator : RC/JU
Sample : Q1488-13
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-102-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Butane, 2-metho...	2.163	101.4	ng	4872590	1	6.887	960693	20.0
2-Pentanone, 4-...	5.104	3.7	ng	179102	1	6.887	960693	20.0
1-Hexanol, 2-et...	6.940	9.9	ng	474973	1	6.887	960693	20.0
Hexanoic acid, ...	7.528	4.0	ng	258404	2	8.163	1275630	20.0
Octanoic acid	7.881	2.1	ng	132060	2	8.163	1275630	20.0
Nonanoic acid	8.498	4.0	ng	258256	2	8.163	1275630	20.0
2,2,4-Trimethyl...	10.322	2.8	ng	208266	3	9.916	1465250	20.0
Benzophenone	10.628	11.2	ng	818259	3	9.916	1465250	20.0
Methanone, (1-h...	10.939	2.3	ng	167781	4	11.404	1466660	20.0
Hexanedioic aci...	11.510	5.3	ng	386031	4	11.404	1466660	20.0
n-Hexadecanoic ...	11.928	11.2	ng	818519	4	11.404	1466660	20.0
Butyl citrate	12.639	2.7	ng	195766	4	11.404	1466660	20.0
Octadecanoic acid	12.710	3.2	ng	233284	4	11.404	1466660	20.0
Adipic acid, 2-...	12.804	51.9	ng	3186350	5	14.039	1228360	20.0
Cyclopentadecane	13.880	3.2	ng	195898	5	14.039	1228360	20.0
Supraene	14.892	2.2	ng	144783	6	15.510	1296890	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Quant Time: Mar 06 16:30:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

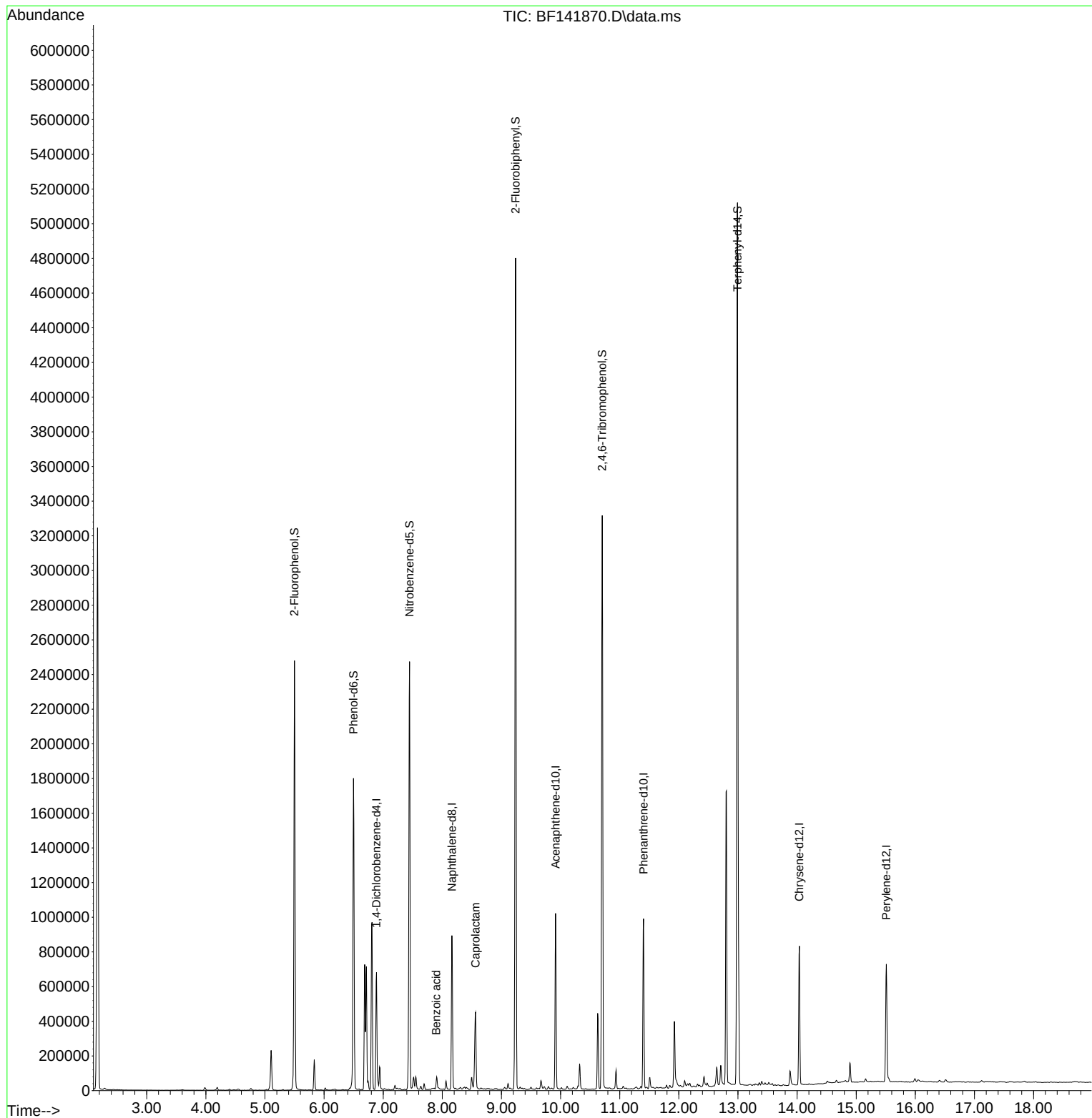
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	140013	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	541385	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	290279	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	493097	20.000	ng	0.00
76) Chrysene-d12	14.039	240	386724	20.000	ng	-0.01
86) Perylene-d12	15.509	264	390388	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	916932	104.585	ng	0.00
7) Phenol-d6	6.498	99	832242	72.931	ng	-0.01
23) Nitrobenzene-d5	7.445	82	1138168	134.381	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	573671	210.507	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	2059546	113.765	ng	0.00
79) Terphenyl-d14	12.992	244	2570569	107.544	ng	0.00
Target Compounds						
32) Benzoic acid	7.898	122	8588	8.983	ng	95
35) Caprolactam	8.563	113	79297	33.405	ng	# 86

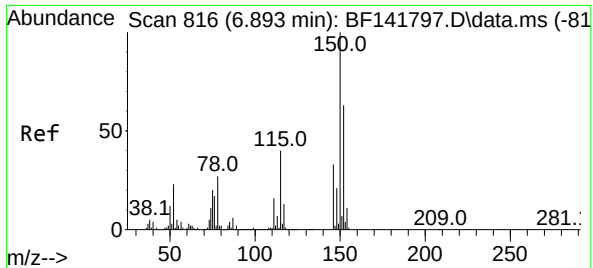
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Quant Time: Mar 06 16:30:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

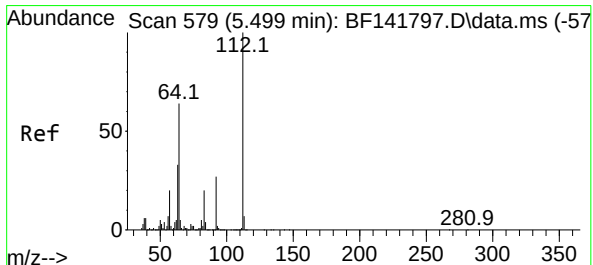
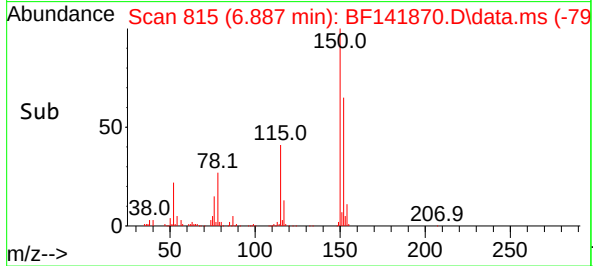
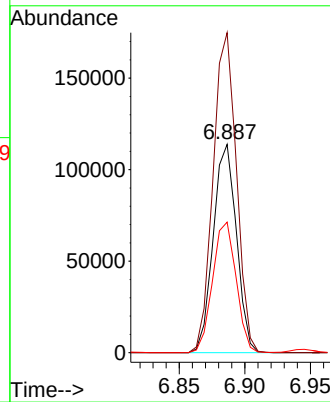
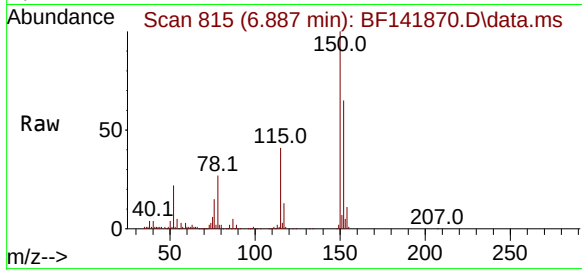




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.887 min Scan# 816
 Delta R.T. -0.006 min
 Lab File: BF141870.D
 Acq: 06 Mar 2025 16:00

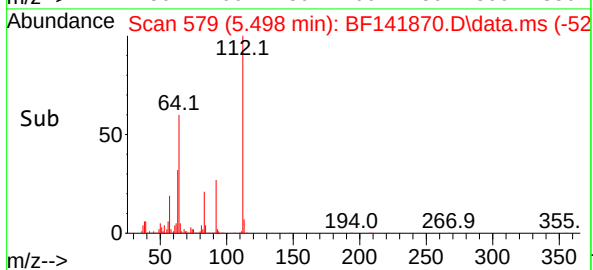
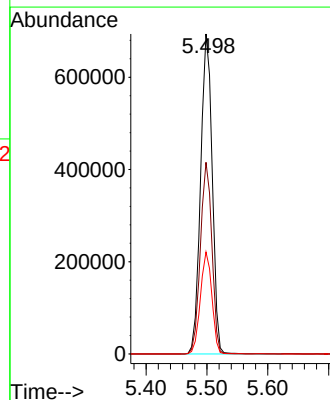
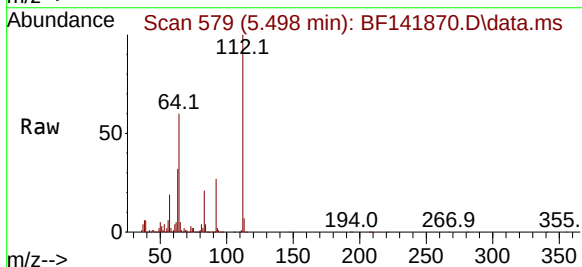
Instrument :
 BNA_F
 ClientSampleId :
 ENV-104-GW01

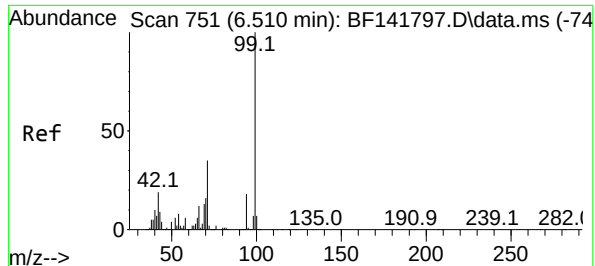
Tgt Ion:152 Resp: 140013
 Ion Ratio Lower Upper
 152 100
 150 153.6 127.5 191.3
 115 62.7 51.4 77.2



#5
 2-Fluorophenol
 Concen: 104.585 ng
 RT: 5.498 min Scan# 579
 Delta R.T. -0.000 min
 Lab File: BF141870.D
 Acq: 06 Mar 2025 16:00

Tgt Ion:112 Resp: 916932
 Ion Ratio Lower Upper
 112 100
 64 59.9 51.3 76.9
 63 31.8 26.2 39.4

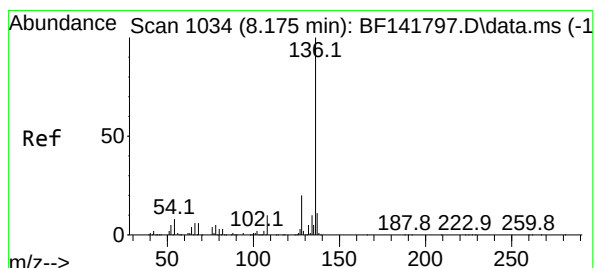
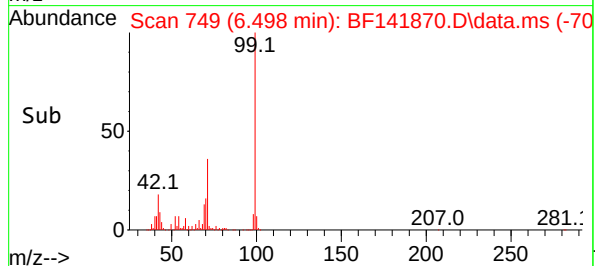
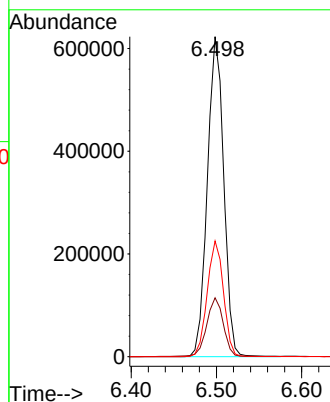
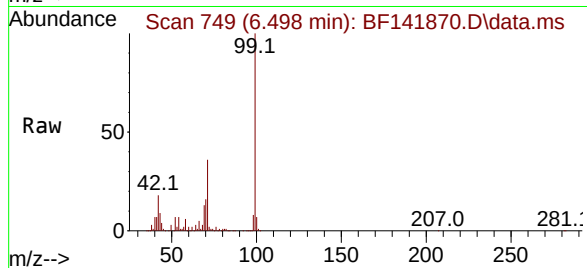




#7
Phenol-d6
Concen: 72.931 ng
RT: 6.498 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

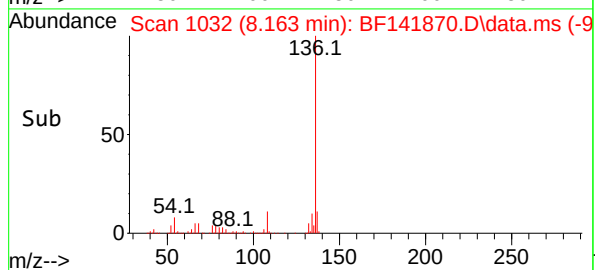
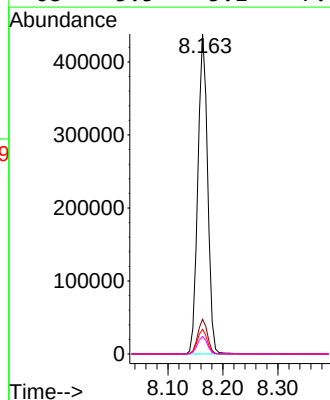
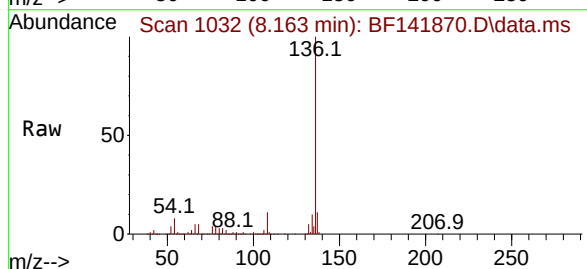
Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

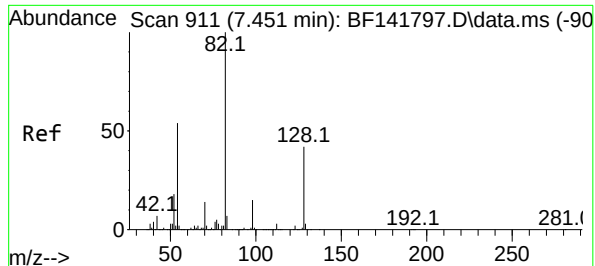
Tgt Ion: 99 Resp: 832242
Ion Ratio Lower Upper
99 100
42 18.4 15.2 22.8
71 36.2 28.2 42.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Tgt Ion: 136 Resp: 541385
Ion Ratio Lower Upper
136 100
137 10.9 8.9 13.3
54 7.7 6.9 10.3
68 5.5 5.1 7.7





#23

Nitrobenzene-d5

Concen: 134.381 ng

RT: 7.445 min Scan# 911

Delta R.T. -0.006 min

Lab File: BF141870.D

Acq: 06 Mar 2025 16:00

Instrument :

BNA_F

ClientSampleId :

ENV-104-GW01

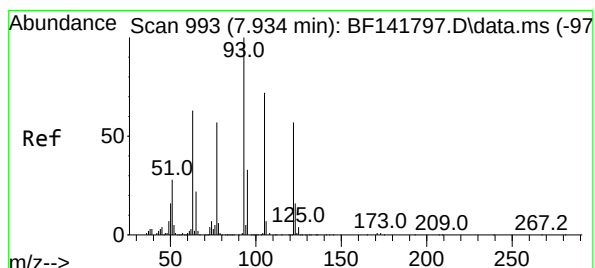
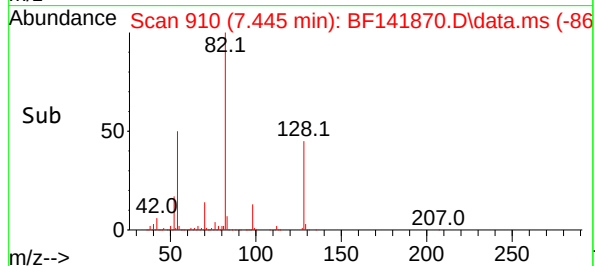
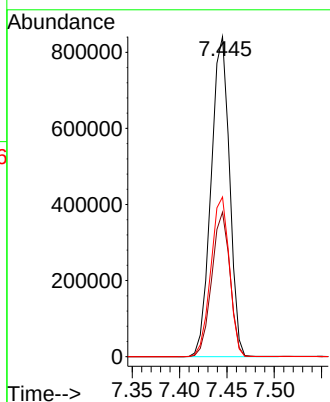
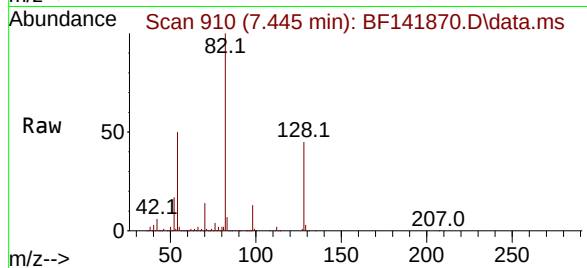
Tgt Ion: 82 Resp: 1138168

Ion Ratio Lower Upper

82 100

128 45.1 33.5 50.3

54 49.9 42.7 64.1



#32

Benzoic acid

Concen: 8.983 ng

RT: 7.898 min Scan# 987

Delta R.T. -0.036 min

Lab File: BF141870.D

Acq: 06 Mar 2025 16:00

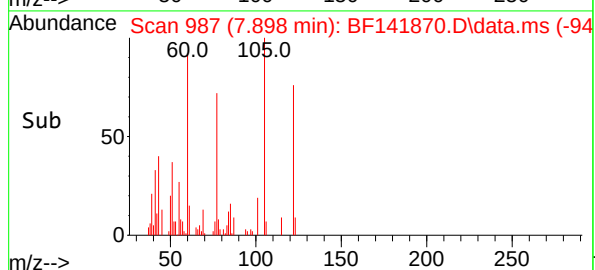
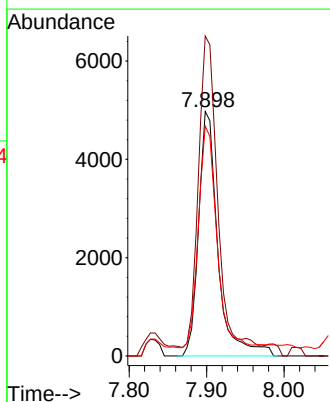
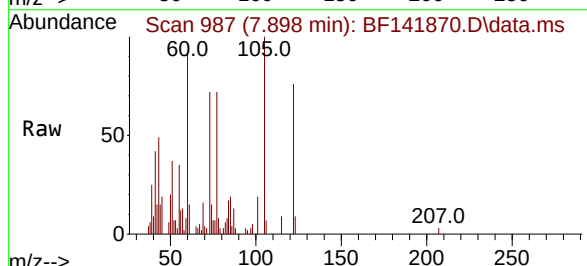
Tgt Ion:122 Resp: 8588

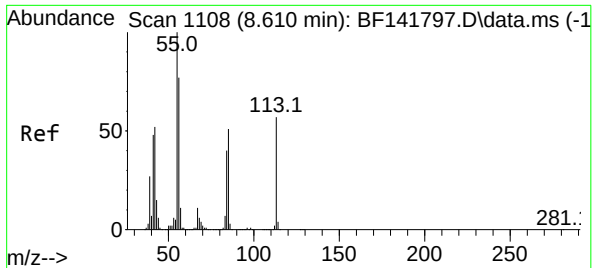
Ion Ratio Lower Upper

122 100

105 130.8 105.8 145.8

77 94.0 79.9 119.9





#35

Caprolactam

Concen: 33.405 ng

RT: 8.563 min Scan# 1100

Delta R.T. -0.047 min

Lab File: BF141870.D

Acq: 06 Mar 2025 16:00

Instrument :

BNA_F

ClientSampleId :

ENV-104-GW01

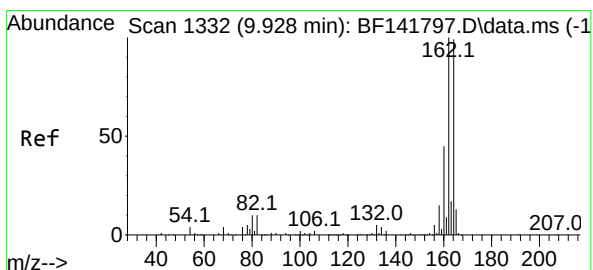
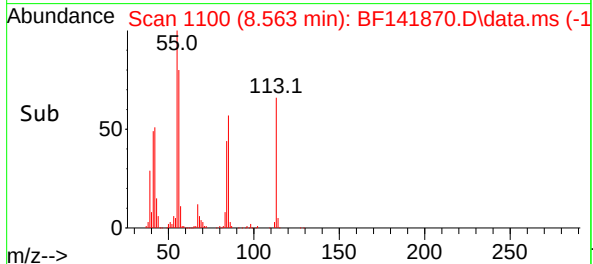
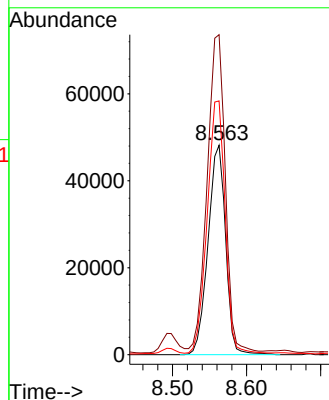
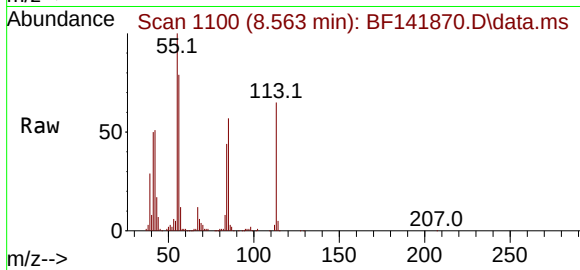
Tgt Ion:113 Resp: 79297

Ion Ratio Lower Upper

113 100

55 152.8 155.6 195.6#

56 121.2 114.6 154.6



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1330

Delta R.T. -0.012 min

Lab File: BF141870.D

Acq: 06 Mar 2025 16:00

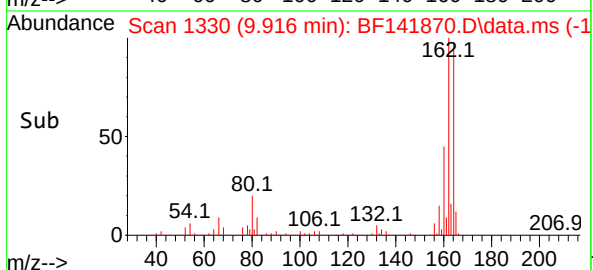
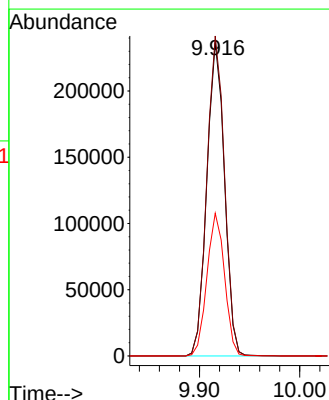
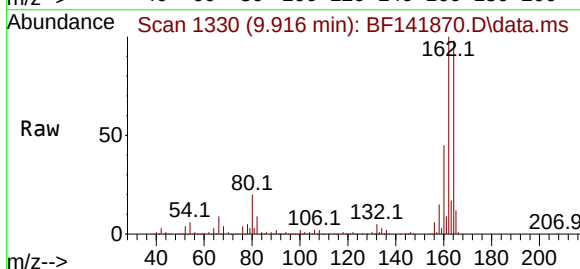
Tgt Ion:164 Resp: 290279

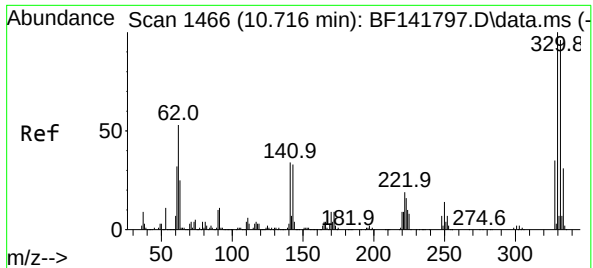
Ion Ratio Lower Upper

164 100

162 102.1 80.6 120.8

160 45.5 36.3 54.5





#42

2,4,6-Tribromophenol

Concen: 210.507 ng

RT: 10.704 min Scan# 1464

Delta R.T. -0.012 min

Lab File: BF141870.D

Acq: 06 Mar 2025 16:00

Instrument :

BNA_F

ClientSampleId :

ENV-104-GW01

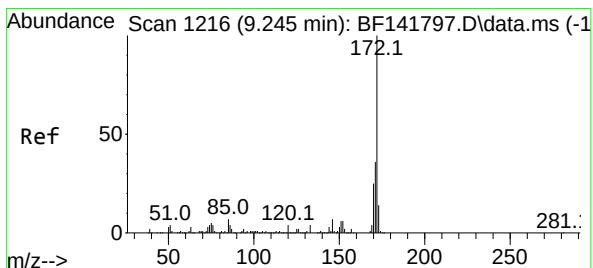
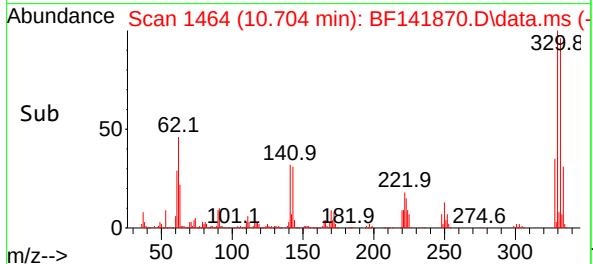
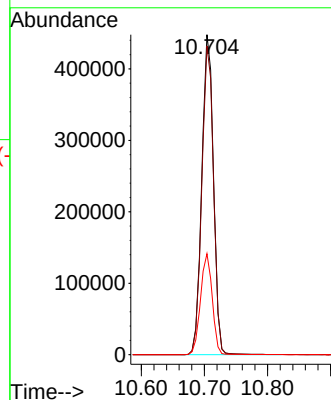
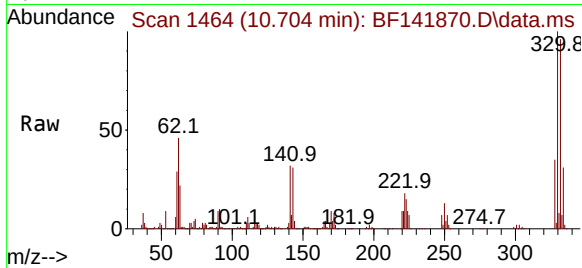
Tgt Ion:330 Resp: 573671

Ion Ratio Lower Upper

330 100

332 96.6 76.6 115.0

141 31.7 29.0 43.4



#45

2-Fluorobiphenyl

Concen: 113.765 ng

RT: 9.239 min Scan# 1215

Delta R.T. -0.006 min

Lab File: BF141870.D

Acq: 06 Mar 2025 16:00

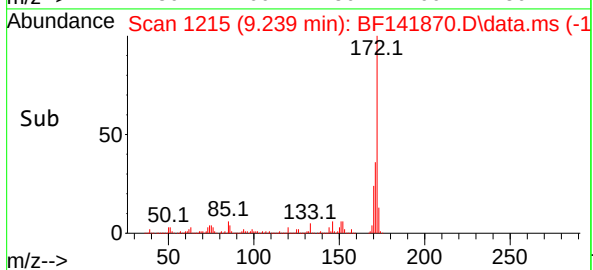
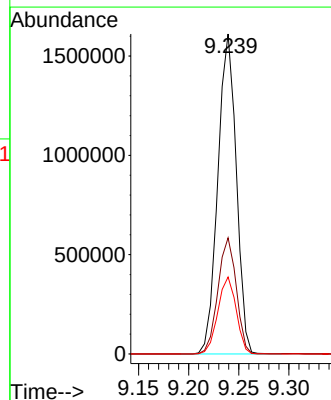
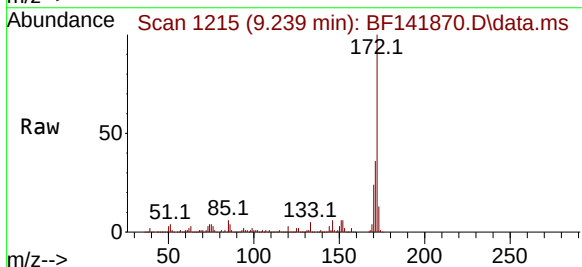
Tgt Ion:172 Resp: 2059546

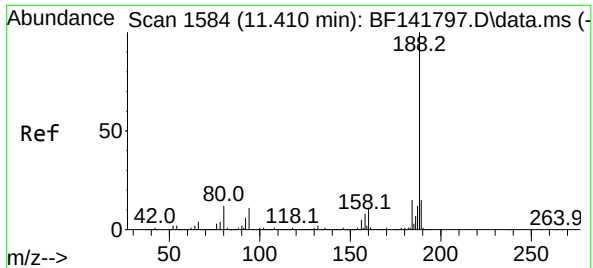
Ion Ratio Lower Upper

172 100

171 36.3 29.2 43.8

170 24.0 19.7 29.5

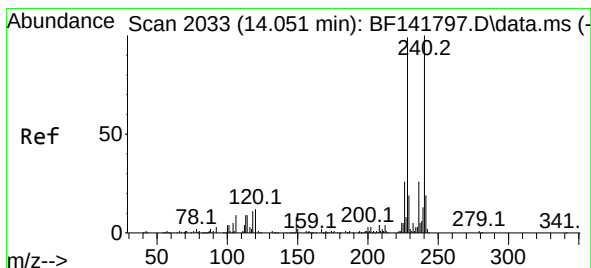
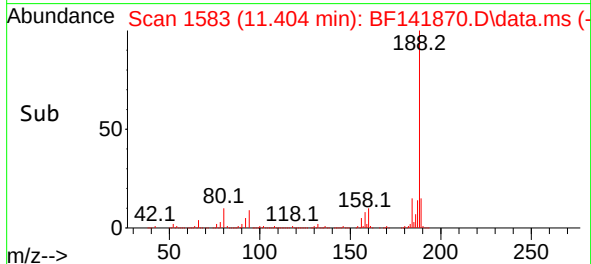
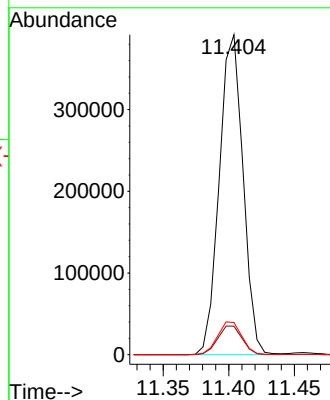
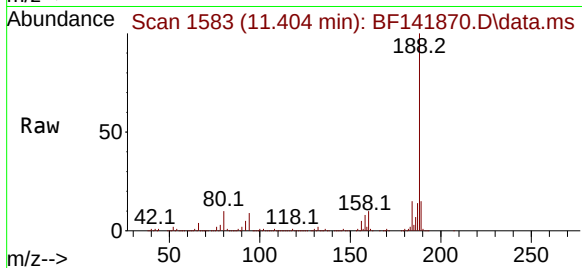




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

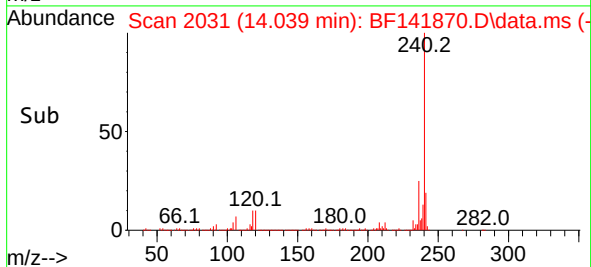
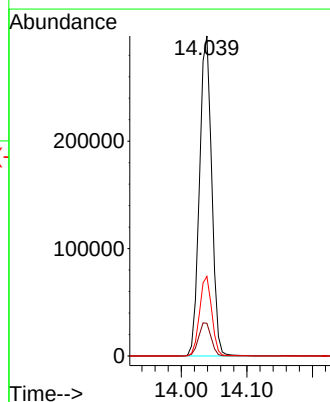
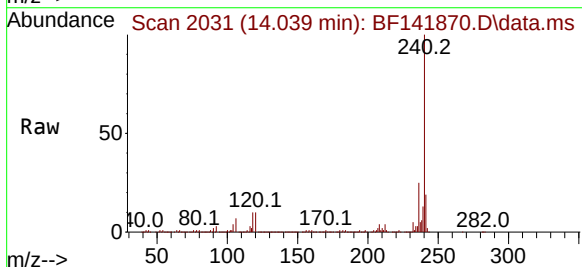
Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

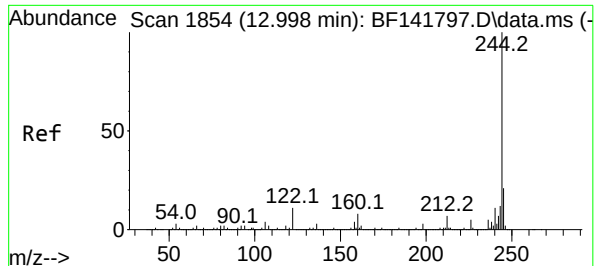
Tgt Ion:188 Resp: 493097
Ion Ratio Lower Upper
188 100
94 8.9 8.9 13.3
80 10.1 9.7 14.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141870.D
Acq: 06 Mar 2025 16:00

Tgt Ion:240 Resp: 386724
Ion Ratio Lower Upper
240 100
120 10.2 9.7 14.5
236 24.8 21.0 31.4





#79

Terphenyl-d14

Concen: 107.544 ng

RT: 12.992 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF141870.D

Acq: 06 Mar 2025 16:00

Instrument :

BNA_F

ClientSampleId :

ENV-104-GW01

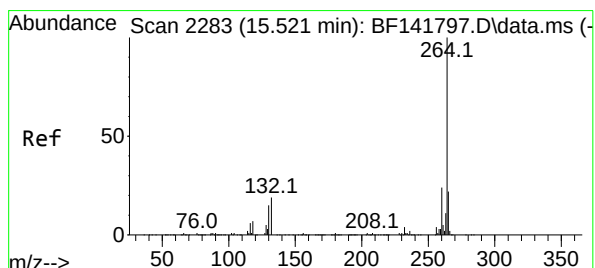
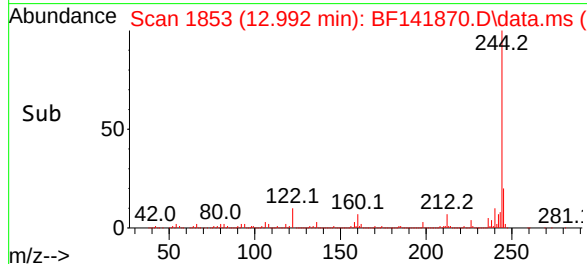
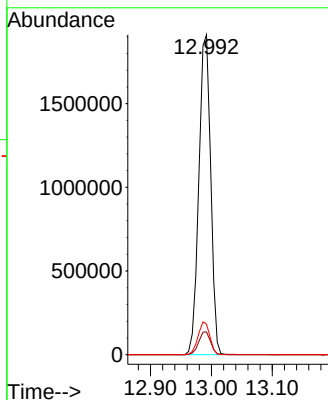
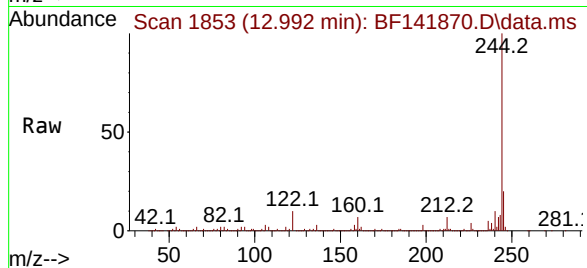
Tgt Ion:244 Resp: 2570569

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

122 9.5 9.0 13.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.509 min Scan# 2281

Delta R.T. -0.012 min

Lab File: BF141870.D

Acq: 06 Mar 2025 16:00

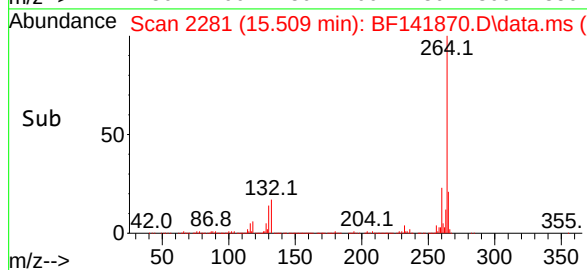
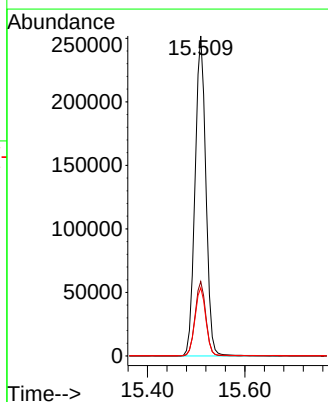
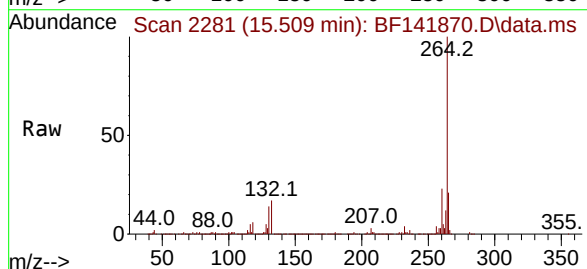
Tgt Ion:264 Resp: 390388

Ion Ratio Lower Upper

264 100

260 23.2 18.9 28.3

265 21.3 17.4 26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141870.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.169	5	13	28	rVB	3238359	5245557	68.11%	10.773%
2	5.104	503	512	524	rVB	229204	367973	4.78%	0.756%
3	5.498	564	579	599	rBV	2477921	3340148	43.37%	6.860%
4	5.834	631	636	645	rBV	174814	220234	2.86%	0.452%
5	6.498	740	749	761	rVB	1794335	2504758	32.52%	5.144%
6	6.687	776	781	783	rBV	722418	895975	11.63%	1.840%
7	6.716	783	786	790	rVB	675085	797169	10.35%	1.637%
8	6.810	796	802	807	rBV	964489	1272314	16.52%	2.613%
9	6.887	810	815	821	rVV	676180	913939	11.87%	1.877%
10	6.939	821	824	834	rVB	129631	171031	2.22%	0.351%
11	7.445	899	910	915	rBV	2469622	3373892	43.81%	6.929%
12	7.516	915	922	925	rVV	69923	121312	1.58%	0.249%
13	7.551	925	928	938	rVB	71914	104484	1.36%	0.215%
14	7.904	983	988	1001	rVB3	71001	114062	1.48%	0.234%
15	8.163	1027	1032	1040	rBV	886661	1100759	14.29%	2.261%
16	8.498	1083	1089	1093	rBV3	69024	109828	1.43%	0.226%
17	8.563	1093	1100	1112	rVB	442905	755935	9.81%	1.552%
18	9.239	1209	1215	1220	rBV	4792855	6136608	79.68%	12.603%
19	9.916	1325	1330	1335	rBV	1012498	1244593	16.16%	2.556%
20	10.322	1395	1399	1406	rVB	145606	191841	2.49%	0.394%
21	10.627	1446	1451	1458	rVB	434320	549239	7.13%	1.128%
22	10.704	1458	1464	1469	rBV	3305527	4237823	55.02%	8.703%
23	10.939	1494	1504	1508	rBV	108861	144176	1.87%	0.296%
24	11.404	1578	1583	1588	rVB	975691	1232763	16.01%	2.532%
25	11.510	1596	1601	1608	rBV	65936	106595	1.38%	0.219%
26	11.927	1666	1672	1686	rBV2	378509	618168	8.03%	1.270%
27	12.427	1752	1757	1763	rBV	55497	91026	1.18%	0.187%
28	12.639	1786	1793	1799	rBV	106238	174343	2.26%	0.358%
29	12.710	1800	1805	1815	rVV	111504	169266	2.20%	0.348%
30	12.804	1815	1821	1826	rBV	1692567	2229397	28.95%	4.579%
31	12.992	1846	1853	1864	rVB	5087829	7701943	100.00%	15.818%
32	13.880	1999	2004	2020	rBV	83521	155488	2.02%	0.319%
33	14.039	2025	2031	2038	rBV	799603	1059705	13.76%	2.176%
34	14.892	2172	2176	2182	rVB	110799	157719	2.05%	0.324%
35	15.509	2275	2281	2293	rVB	678106	1081955	14.05%	2.222%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

A
B
C
D
E
F
G
H
I
J
K

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-BF022725.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

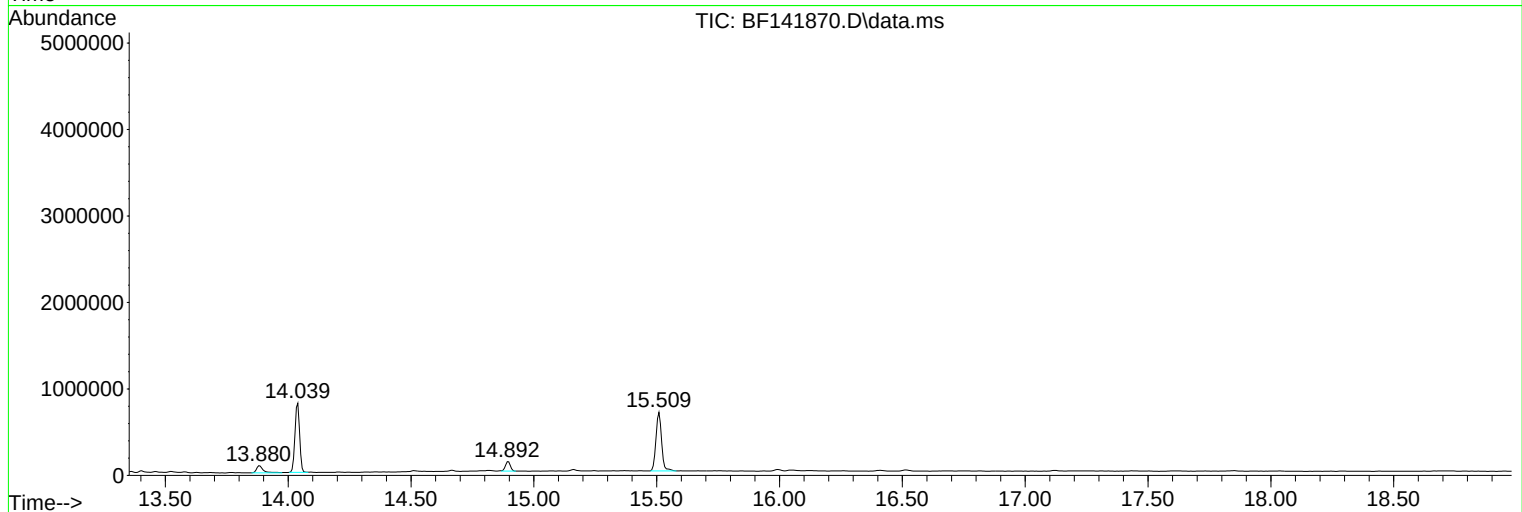
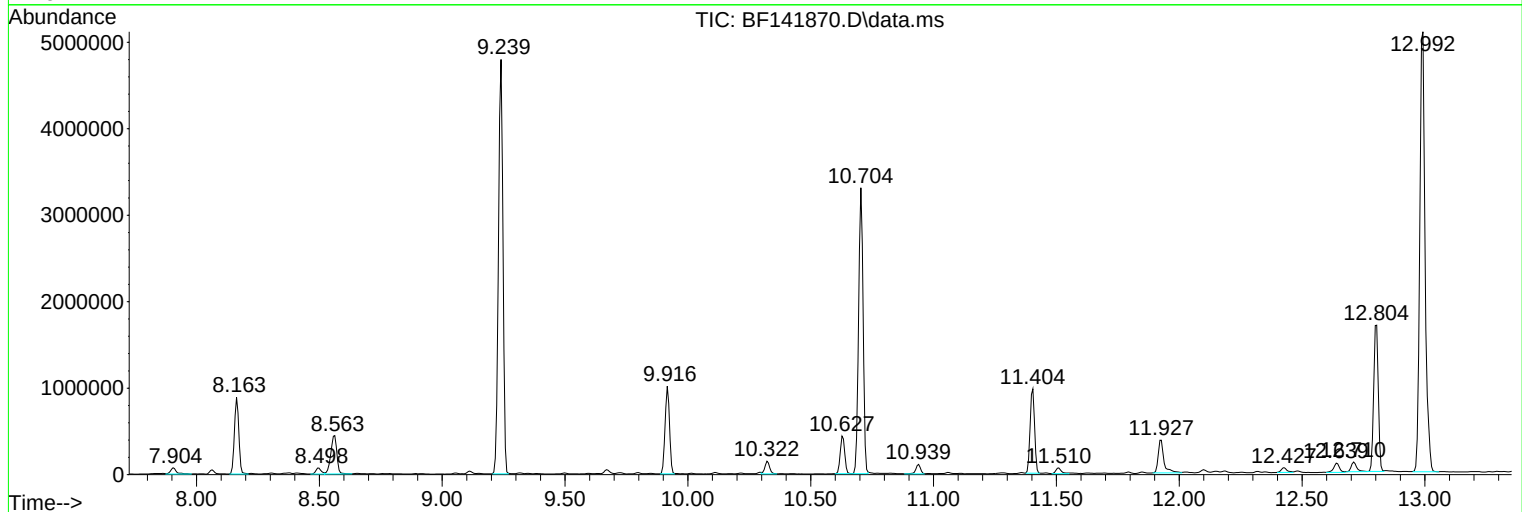
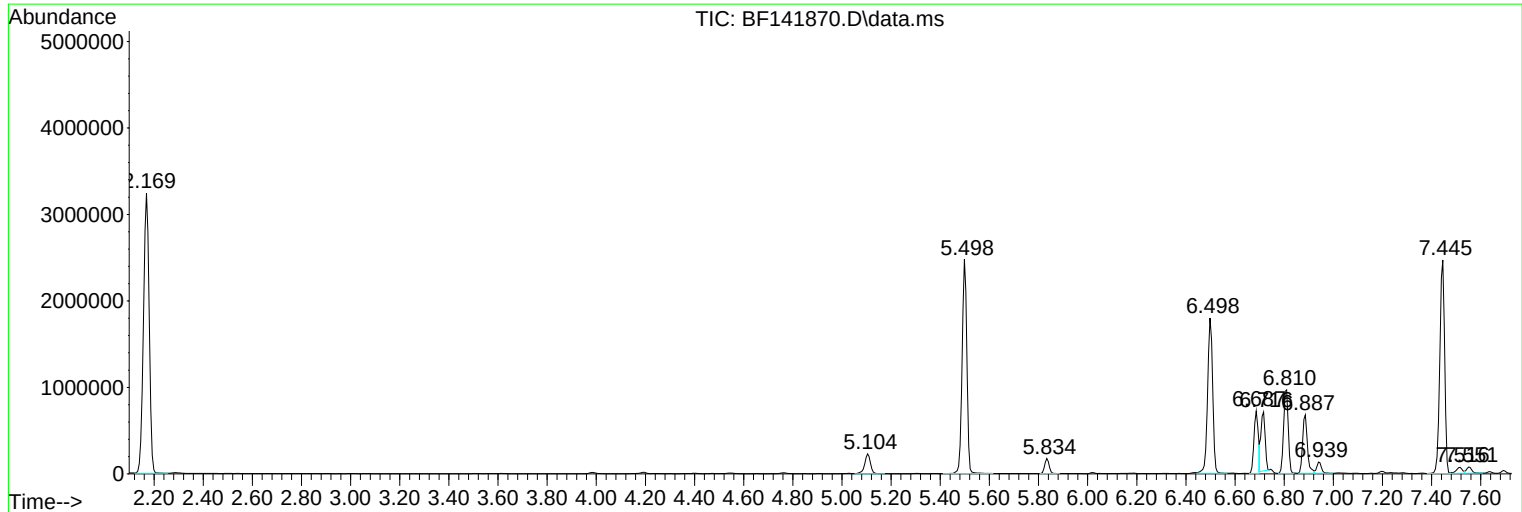
Sum of corrected areas: 48692018

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

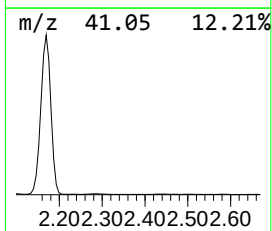
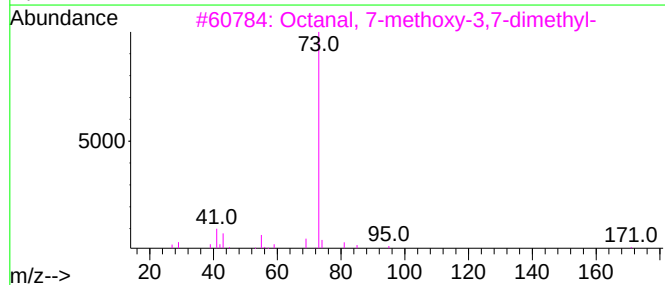
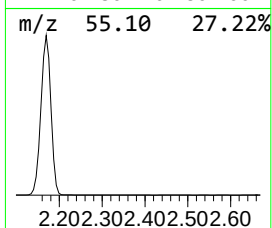
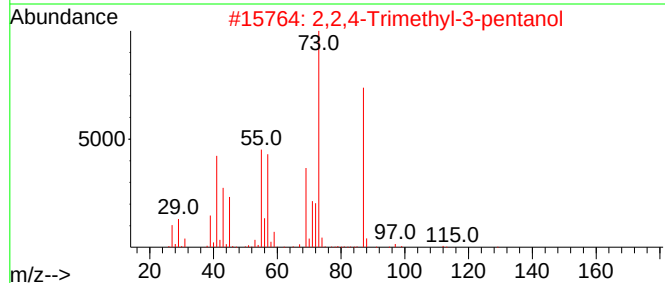
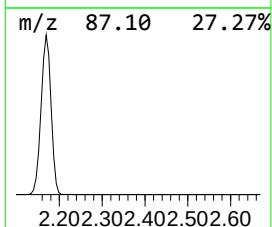
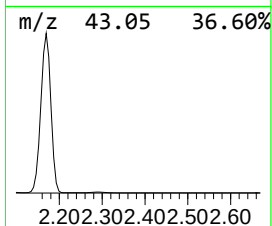
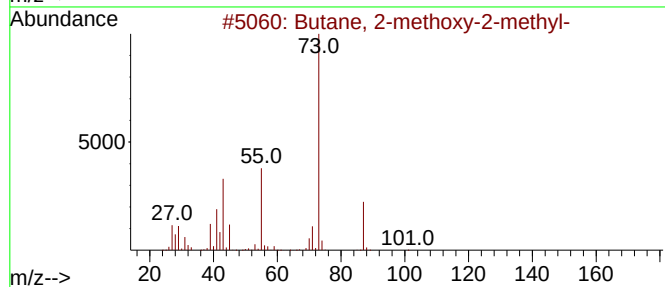
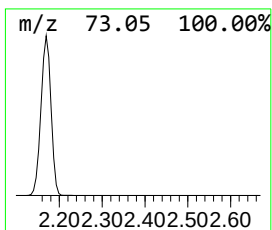
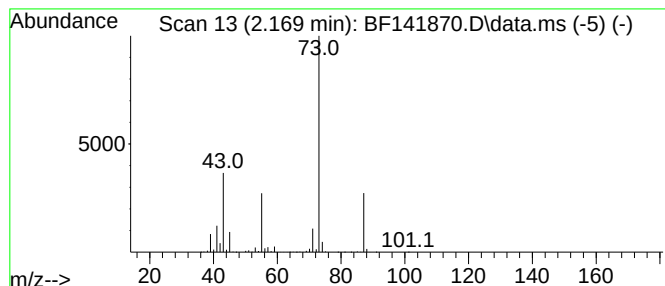
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.169	114.79 ng	5245560	1,4-Dichlorobenzene-d4	6.887

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2			2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3			Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	23
4			Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
5			Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

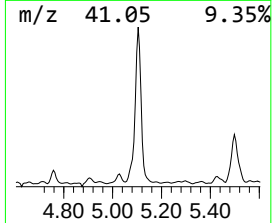
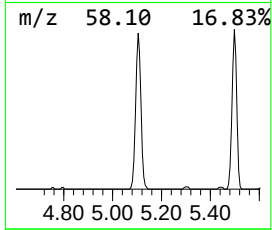
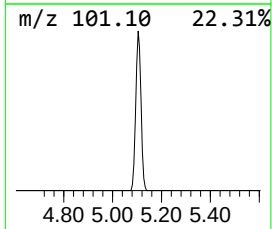
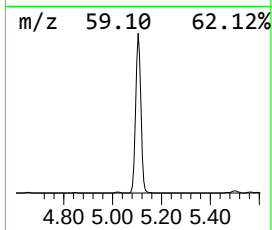
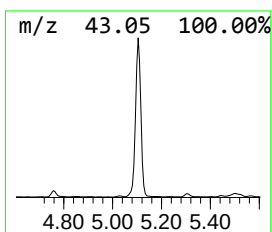
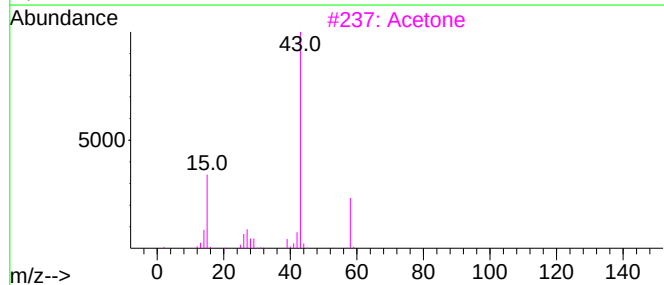
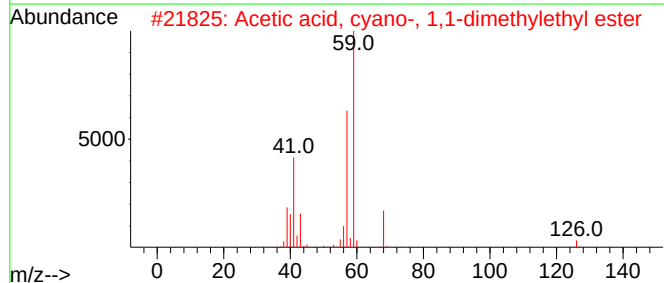
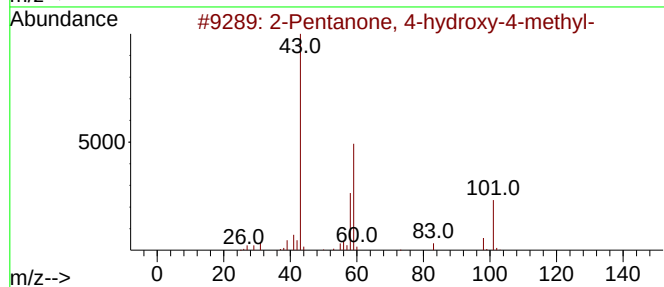
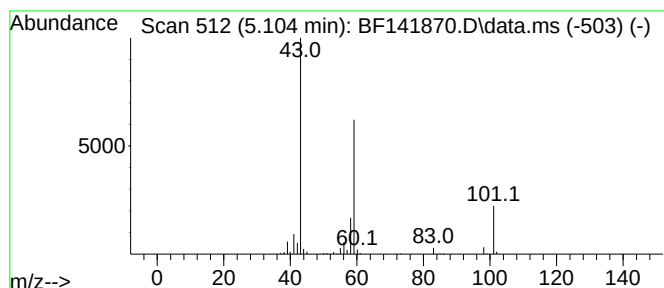
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.104	8.05 ng	367973	1,4-Dichlorobenzene-d4	6.887

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2		Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
3		Acetone	58	C3H6O	000067-64-1	10
4		1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5		5-Hexen-2-one	98	C6H10O	000109-49-9	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

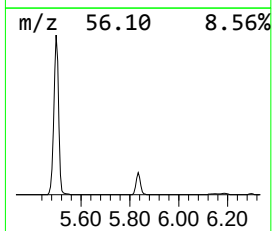
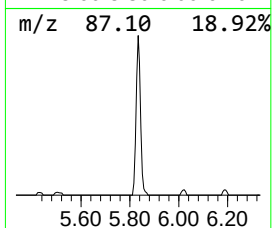
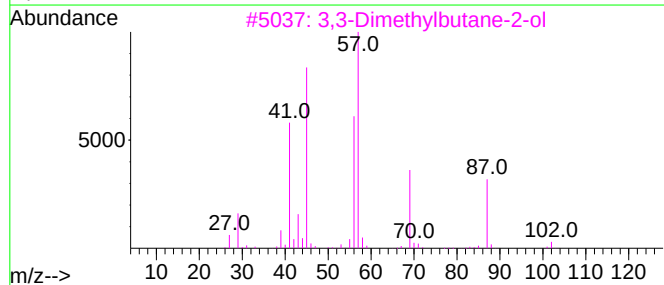
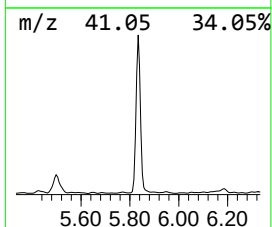
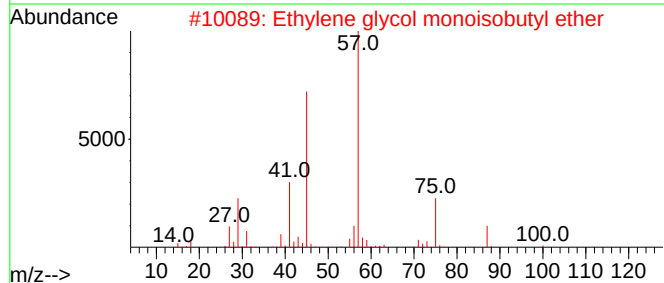
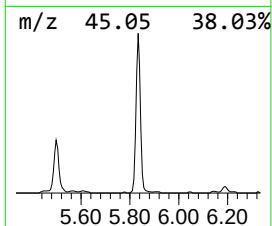
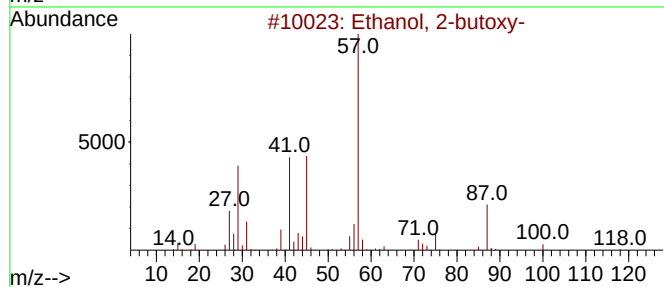
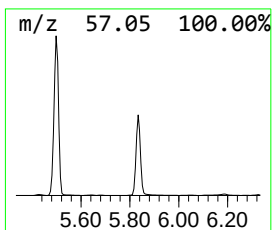
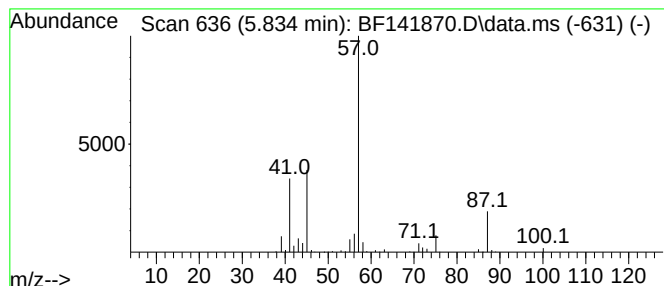
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 Ethanol, 2-butoxy- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.834	4.82 ng	220234	1,4-Dichlorobenzene-d4	6.887

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Ethanol, 2-butoxy-	118	C6H14O2	000111-76-2	83
2			Ethylene glycol monoisobutyl ether	118	C6H14O2	004439-24-1	42
3			3,3-Dimethylbutane-2-ol	102	C6H14O	000464-07-3	33
4			n-Butyl ether	130	C8H18O	000142-96-1	32
5			Propanoic acid, 2-methylpropyl e...	130	C7H14O2	000540-42-1	25



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

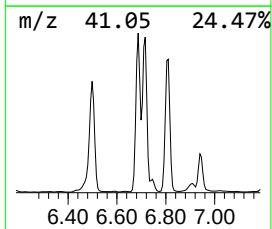
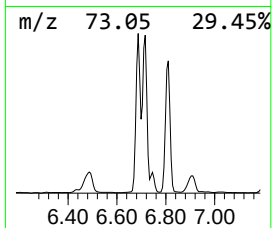
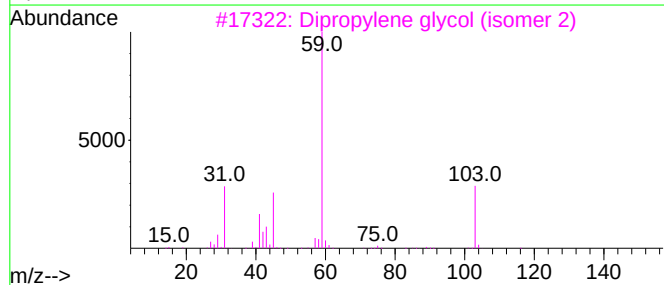
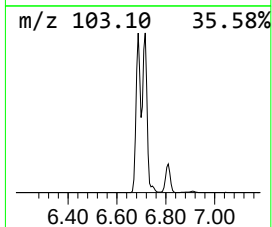
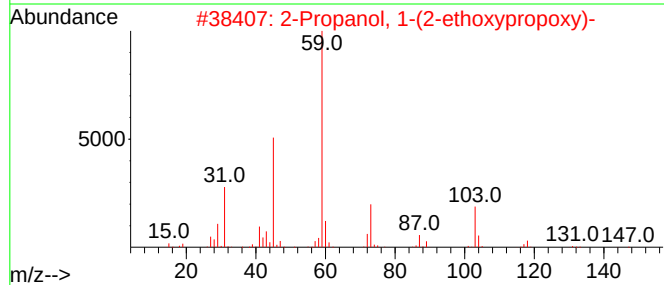
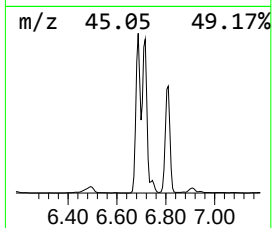
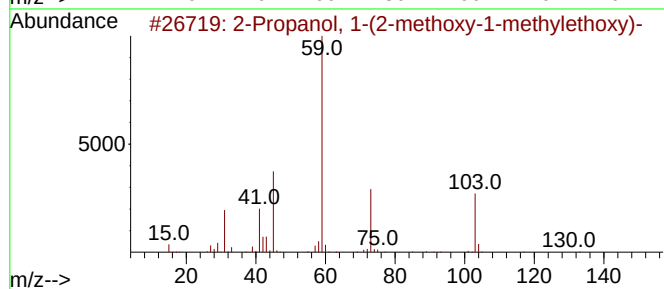
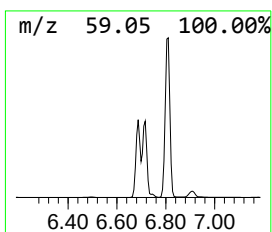
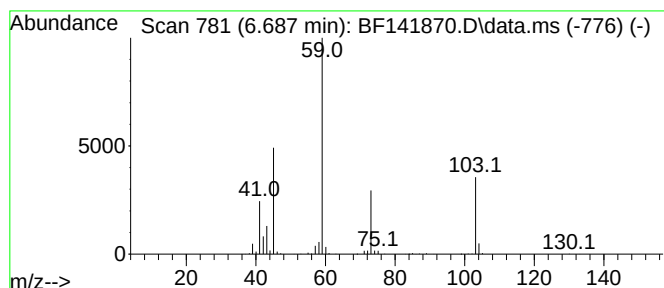
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 2-Propanol, 1-(2-methoxy-1-... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.687	19.61 ng	895975	1,4-Dichlorobenzene-d4	6.887

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-(2-methoxy-1-methy...	148	C7H16O3	020324-32-7	83		
2	2-Propanol, 1-(2-ethoxypropoxy)-	162	C8H18O3	010143-32-5	64		
3	Dipropylene glycol (isomer 2)	134	C6H14O3	1000506-25-4	50		
4	1-Propanol, 2,2'-oxybis-	134	C6H14O3	000108-61-2	50		
5	Dipropylene glycol (isomer 3)	134	C6H14O3	1000506-25-5	50		



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

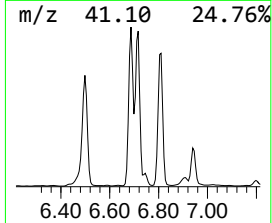
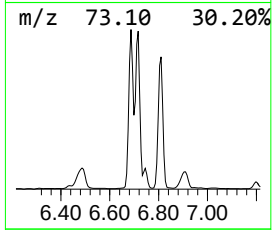
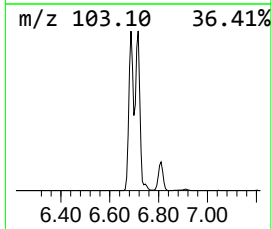
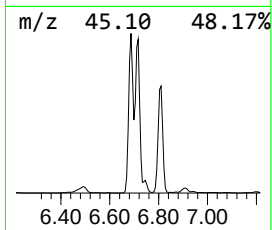
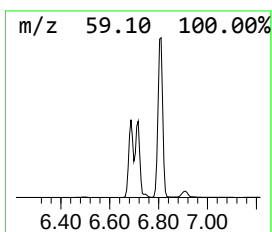
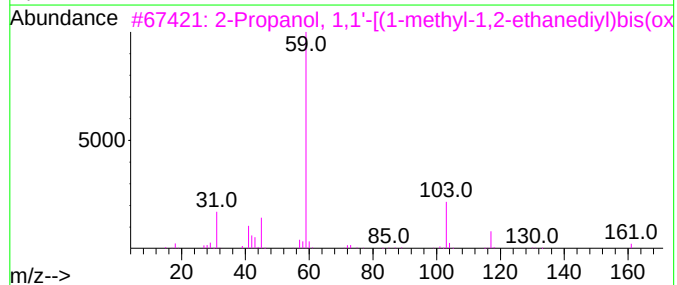
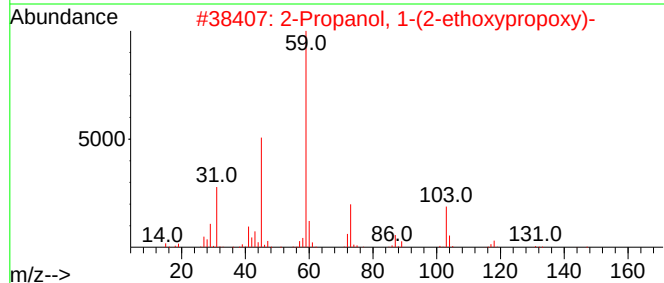
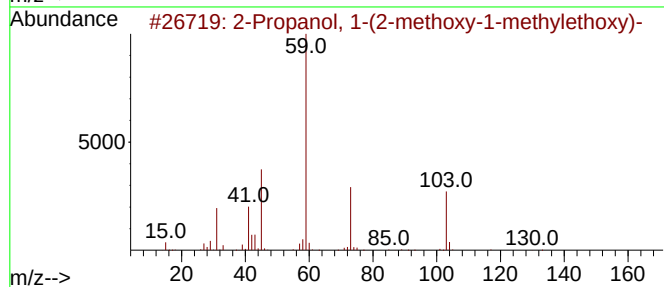
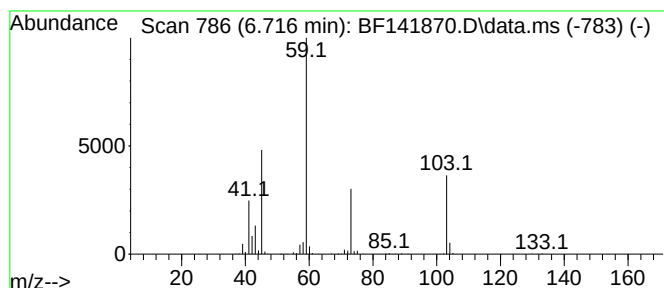
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 2-Propanol, 1-(2-ethoxyprop... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.716	17.44 ng	797169	1,4-Dichlorobenzene-d4	6.887

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-(2-methoxy-1-methy...	148	C7H16O3	020324-32-7	83	
2	2-Propanol, 1-(2-ethoxypropoxy)-	162	C8H18O3	010143-32-5	56	
3	2-Propanol, 1,1'-[(1-methyl-1,2-...	192	C9H20O4	001638-16-0	53	
4	Dipropylene glycol (isomer 2)	134	C6H14O3	1000506-25-4	50	
5	1-Propanol, 2,2'-oxybis-	134	C6H14O3	000108-61-2	50	



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

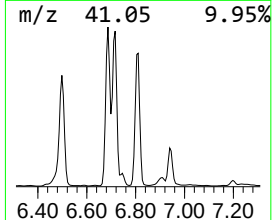
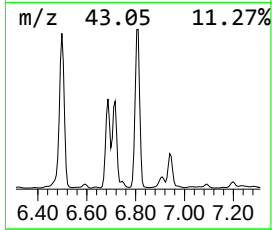
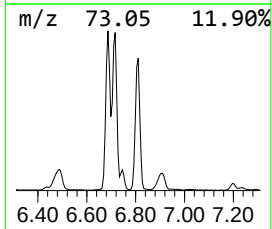
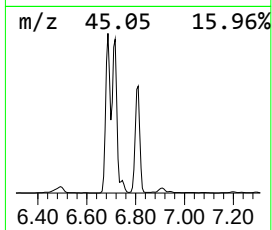
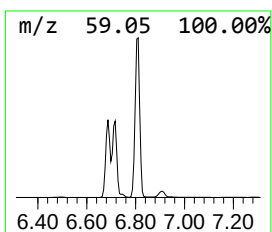
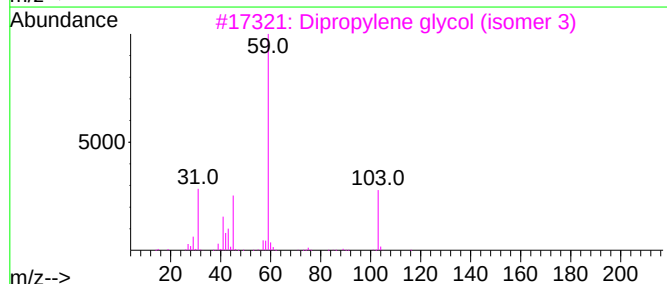
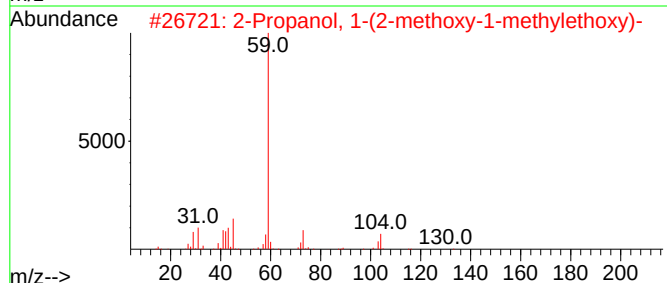
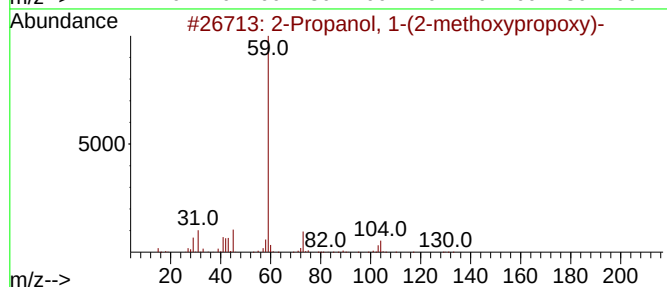
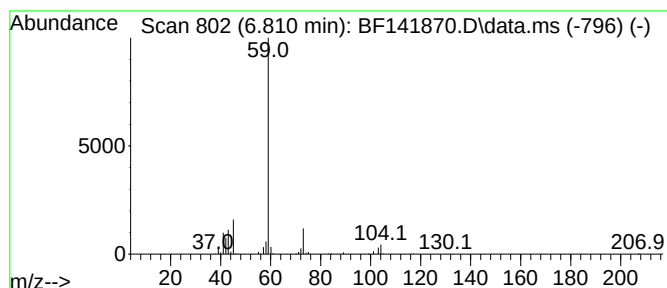
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 2-Propanol, 1-(2-methoxypro... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.810	27.84 ng	1272310	1,4-Dichlorobenzene-d4	6.887

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol,	1-(2-methoxypropoxy)-	148	C7H16O3	013429-07-7	83
2	2-Propanol,	1-(2-methoxy-1-methy...	148	C7H16O3	020324-32-7	83
3	Dipropylene glycol	(isomer 3)	134	C6H14O3	1000506-25-5	64
4	Dipropylene glycol	(isomer 2)	134	C6H14O3	1000506-25-4	64
5	1-Propanol,	2-(2-hydroxypropoxy)-	134	C6H14O3	000106-62-7	64



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

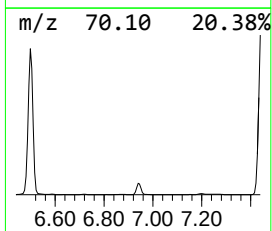
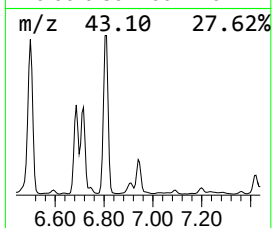
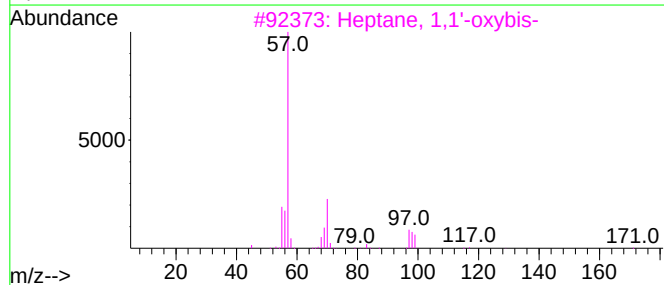
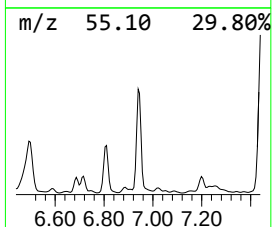
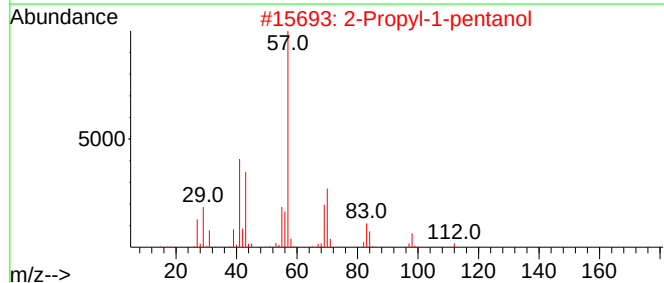
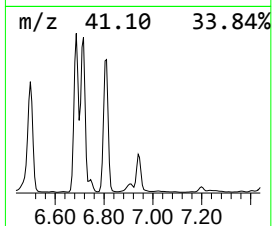
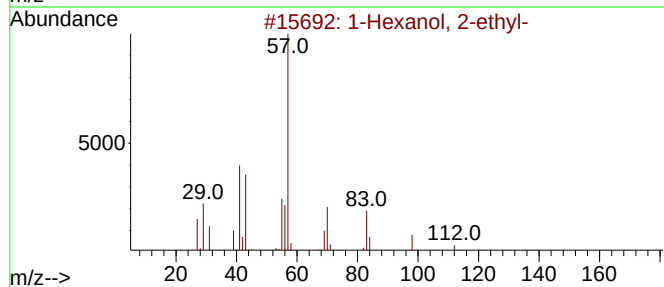
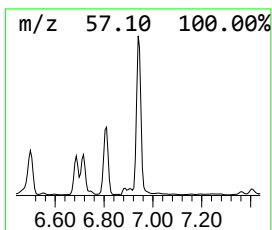
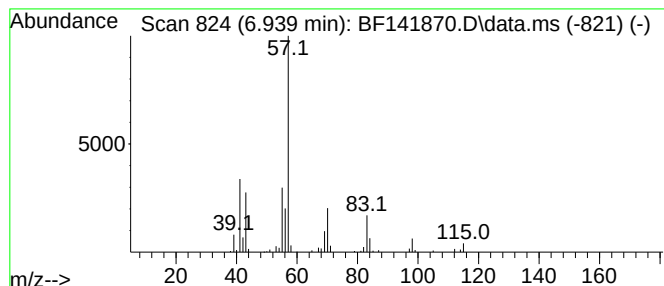
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 1-Hexanol, 2-ethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD			R.T.
6.939	3.74 ng	171031	1,4-Dichlorobenzene-d4			6.887

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	78	
2	2-Propyl-1-pentanol	130	C8H18O	058175-57-8	53	
3	Heptane, 1,1'-oxybis-	214	C14H30O	000629-64-1	45	
4	1-Pentanol, 2-ethyl-4-methyl-	130	C8H18O	000106-67-2	40	
5	1-Isobutoxy-2-ethylhexane	186	C12H26O	1000139-90-3	39	



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

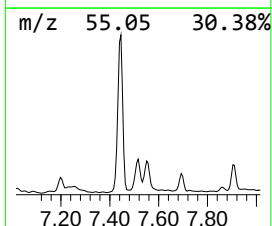
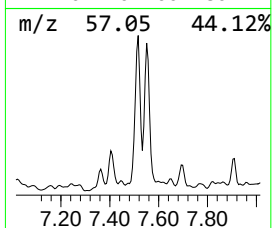
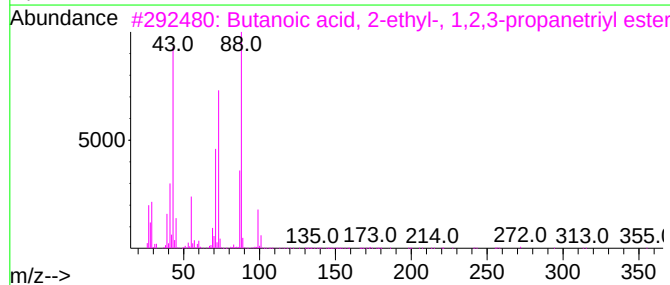
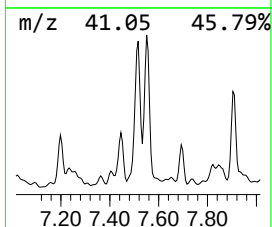
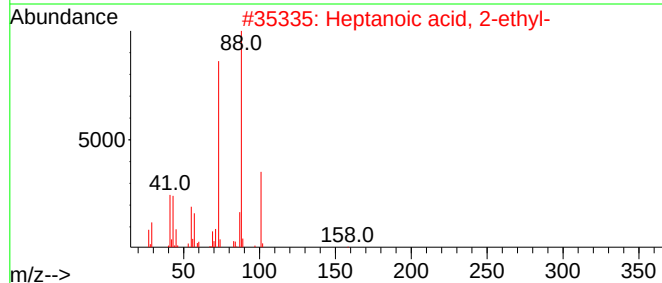
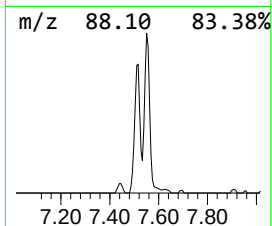
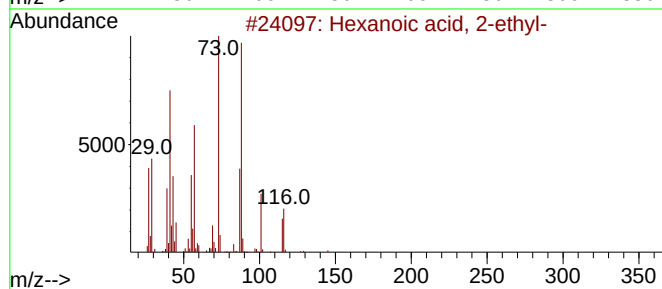
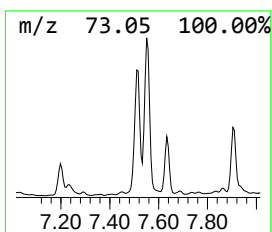
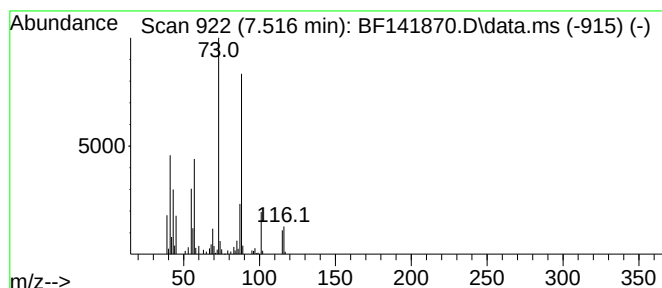
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Hexanoic acid, 2-ethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.	
7.516	2.65 ng	121312	1,4-Dichlorobenzene-d4	6.887	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	86
2	Heptanoic acid, 2-ethyl-	158	C9H18O2	003274-29-1	53
3	Butanoic acid, 2-ethyl-, 1,2,3-p...	386	C21H38O6	056554-54-2	53
4	2-Ethyl-4-methylpentanoic acid	144	C8H16O2	000108-81-6	50
5	3-Dodecyloxypropanoic acid, Me d...	272	C16H32O3	1000497-89-8	42



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
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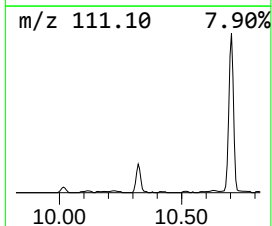
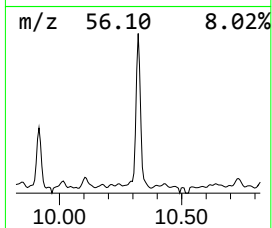
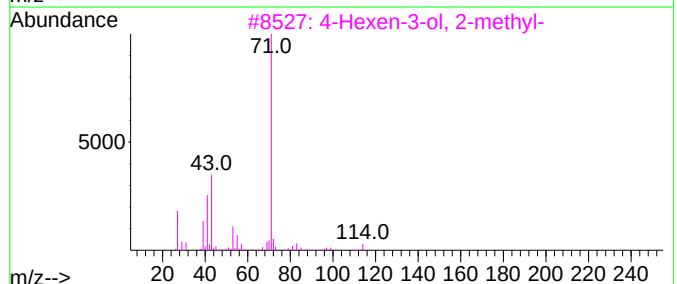
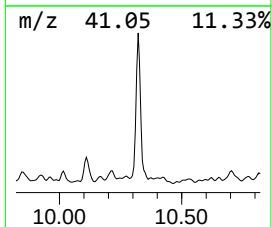
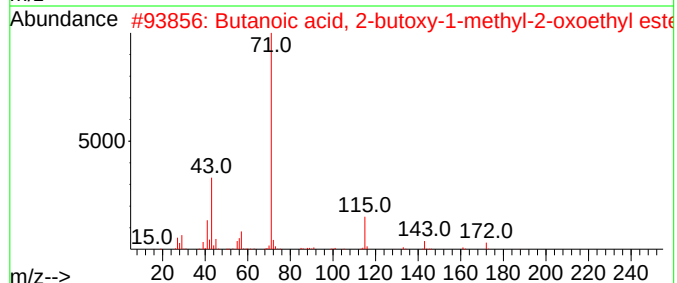
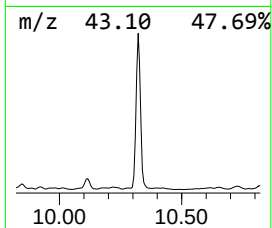
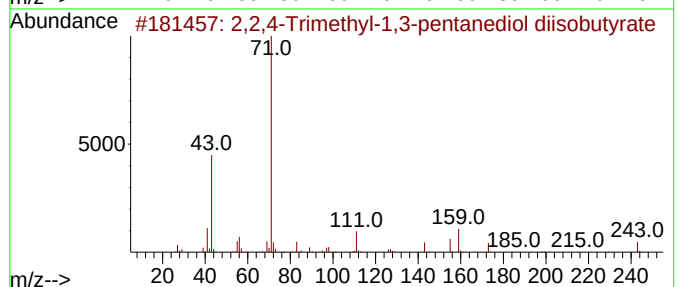
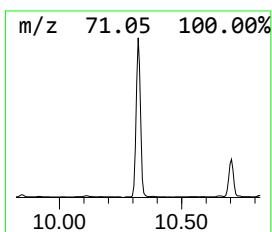
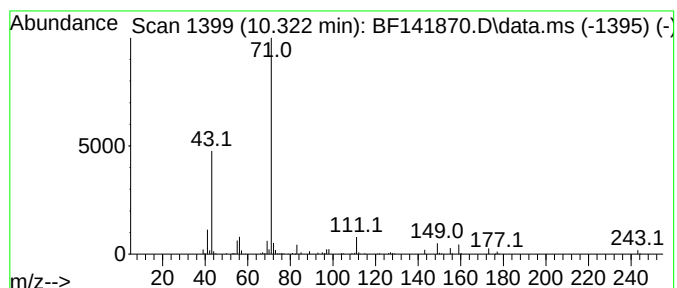
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 2,2,4-Trimethyl-1,3-pentane... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD		R.T.	
10.322	3.08 ng	191841	Acenaphthene-d10		9.916	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	2,2,4-Trimethyl-1,3-pentanediol ...		286	C16H30O4	006846-50-0	72
2	Butanoic acid, 2-butoxy-1-methyl...		216	C11H20O4	007492-70-8	45
3	4-Hexen-3-ol, 2-methyl-		114	C7H14O	004798-60-1	45
4	Succinic acid, 2,2-dichloroethyl...		298	C11H16Cl2O5	1000390-71-6	45
5	Diethylmalonic acid, monochlorid...		262	C12H19ClO4	1000370-65-0	45



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
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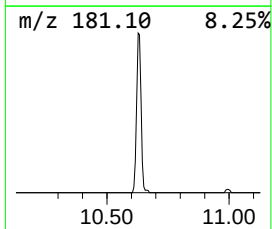
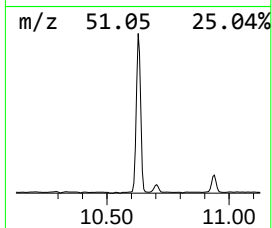
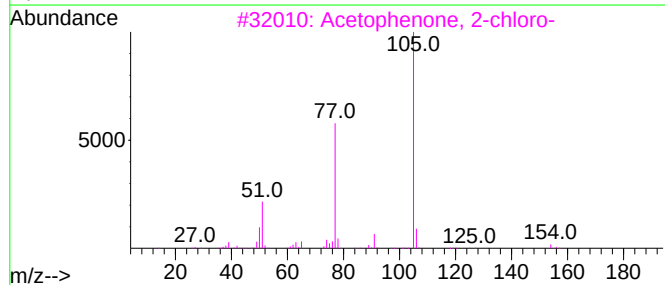
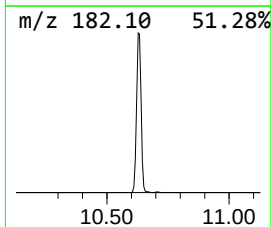
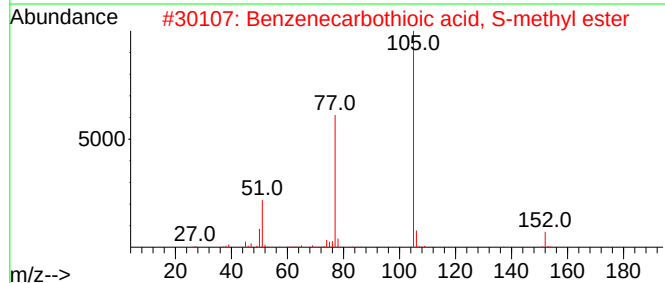
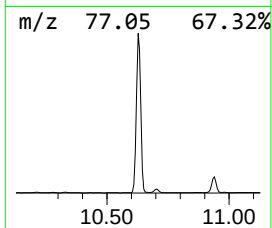
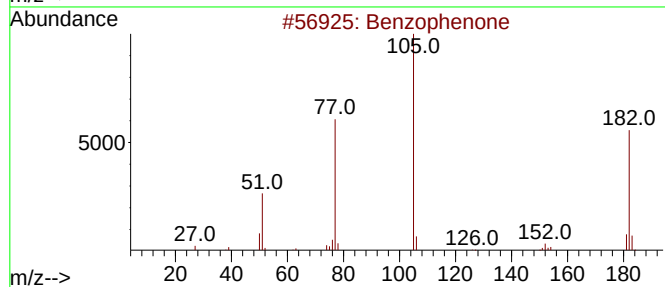
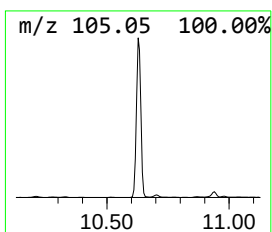
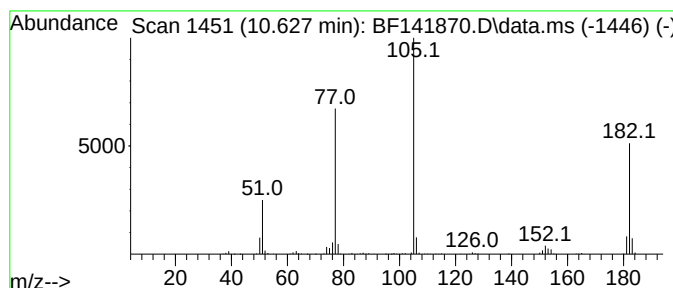
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Benzophenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD			R.T.
10.628	8.83 ng	549239	Acenaphthene-d10			9.916
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Benzophenone		182	C13H10O	000119-61-9	96
2	Benzenecarbothioic acid, S-methy...		152	C8H8OS	005925-68-8	52
3	Acetophenone, 2-chloro-		154	C8H7ClO	000532-27-4	49
4	Benzilamide		227	C14H13NO2	004746-87-6	47
5	Vinyl benzoate		148	C9H8O2	000769-78-8	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
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ALS Vial : 14 Sample Multiplier: 1

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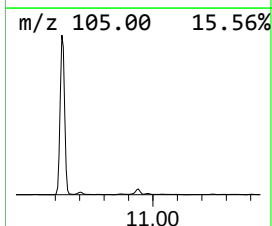
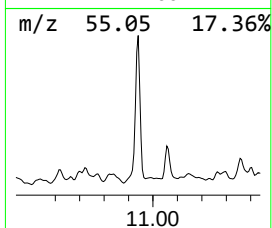
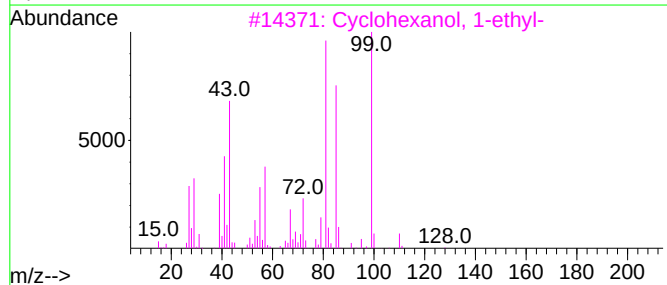
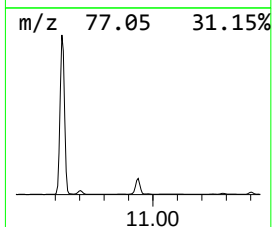
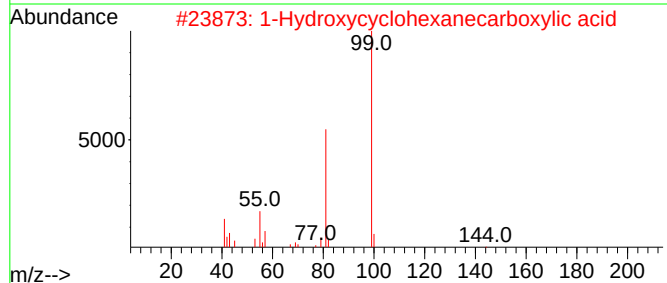
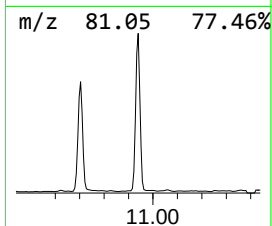
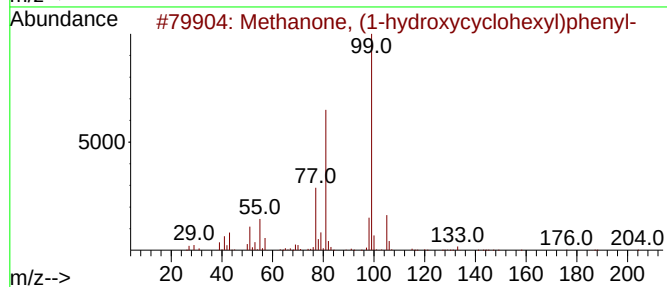
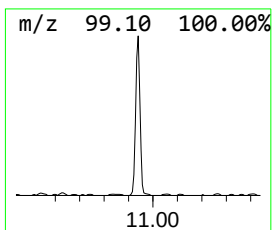
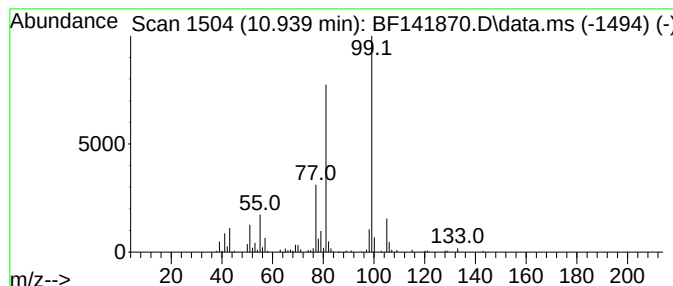
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Methanone, (1-hydroxycyclohexyl) Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.939	2.34 ng	144176	Phenanthrene-d10	11.404

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Methanone, (1-hydroxycyclohexyl)...	204	C13H16O2	000947-19-3	90
2		1-Hydroxycyclohexanecarboxylic acid	144	C7H12O3	001123-28-0	45
3		Cyclohexanol, 1-ethyl-	128	C8H16O	001940-18-7	36
4		Hexanethioic acid, S-heptyl ester	230	C13H26O2S	002432-80-6	22
5		1,1'-Bicyclohexyl-1,1'-diol	198	C12H22O2	002888-11-1	16



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Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

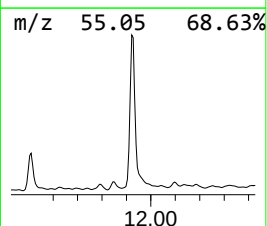
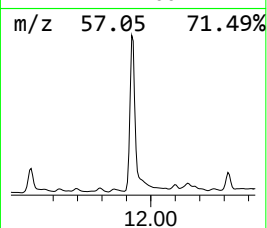
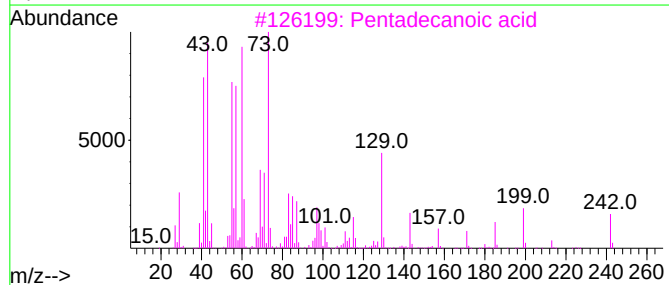
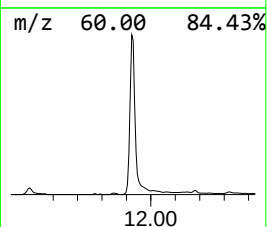
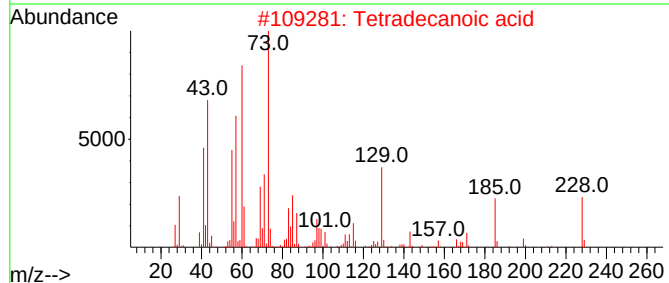
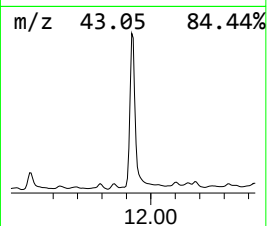
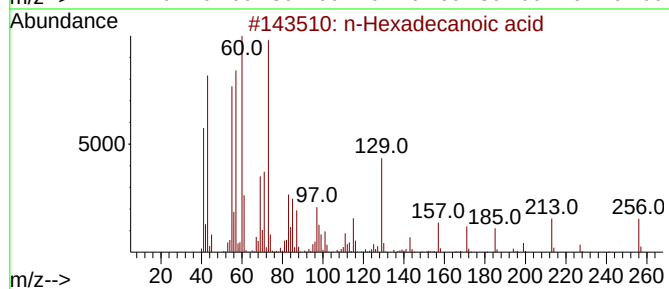
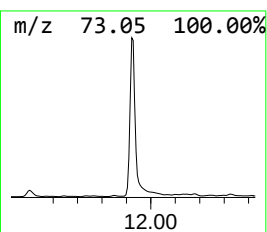
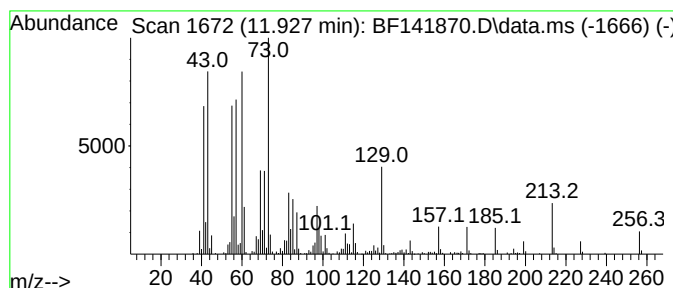
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 n-Hexadecanoic acid Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.927	10.03 ng	618168	Phenanthrene-d10	11.404

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2			Tetradecanoic acid	228	C14H28O2	000544-63-8	94
3			Pentadecanoic acid	242	C15H30O2	001002-84-2	93
4			Tridecanoic acid	214	C13H26O2	000638-53-9	80
5			n-Decanoic acid	172	C10H20O2	000334-48-5	68



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

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ClientSampleId :
ENV-104-GW01

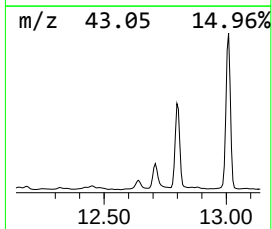
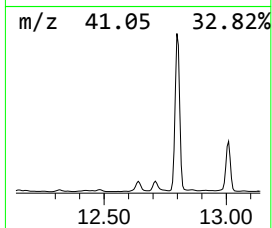
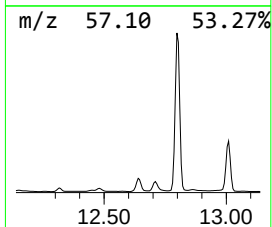
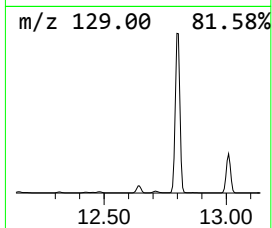
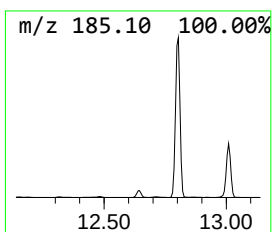
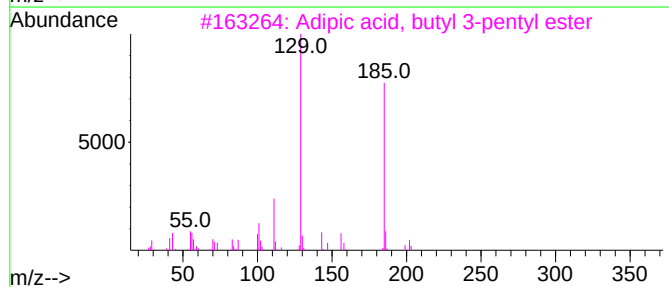
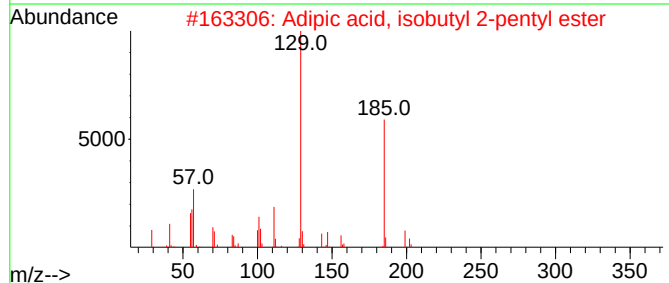
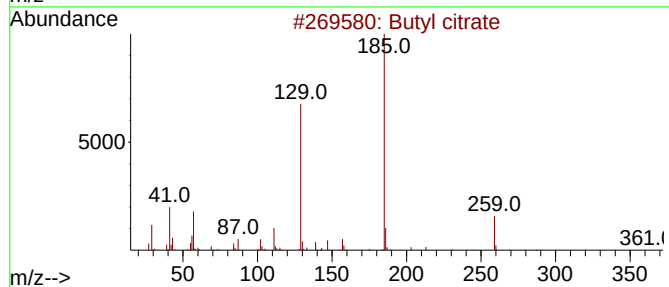
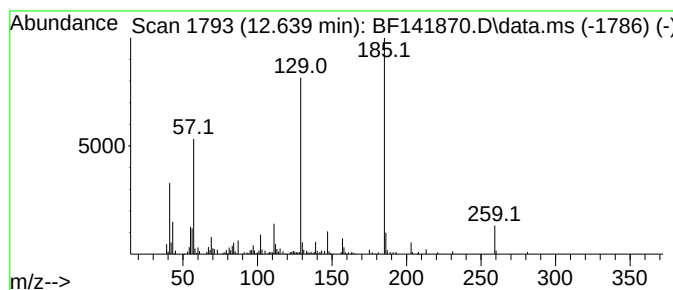
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Butyl citrate Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.639	2.83 ng	174343	Phenanthrene-d10	11.404

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Butyl citrate	360	C18H32O7	000077-94-1	83
2		Adipic acid, isobutyl 2-pentyl e...	272	C15H28O4	1000324-15-6	78
3		Adipic acid, butyl 3-pentyl ester	272	C15H28O4	1000324-60-5	72
4		Adipic acid, isobutyl 2-methylbu...	272	C15H28O4	1000324-67-1	53
5		Adipic acid, 2-decyl isobutyl ester	342	C20H38O4	1000353-59-6	53



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-104-GW01

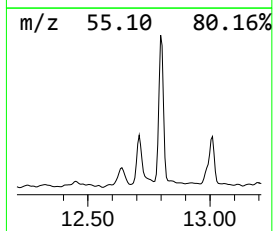
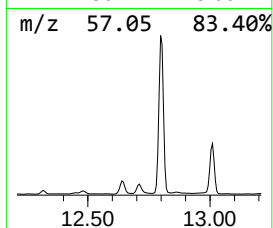
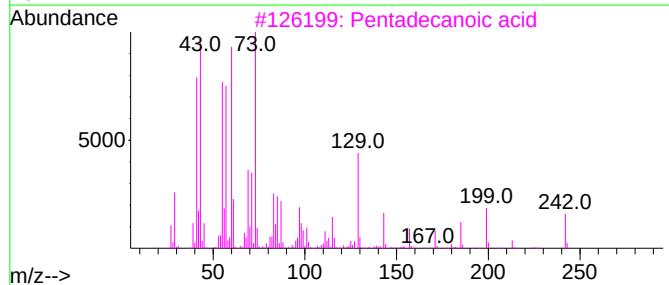
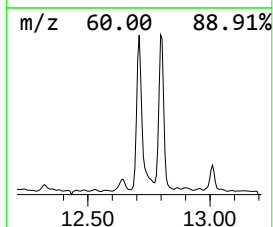
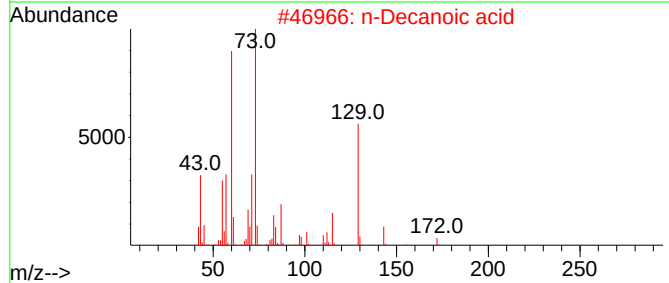
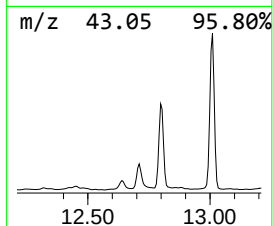
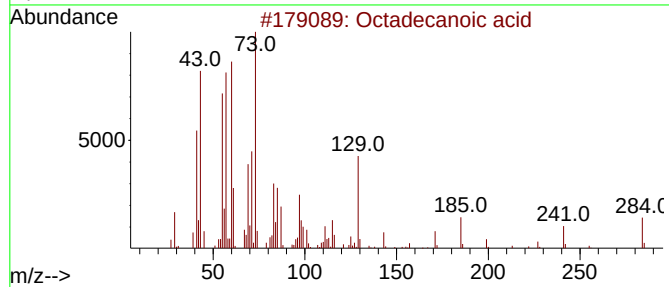
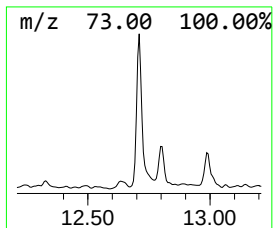
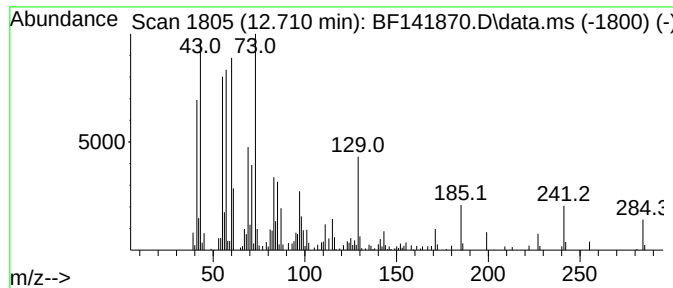
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Octadecanoic acid Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.710	2.75 ng	169266	Phenanthrene-d10	11.404

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Octadecanoic acid	284	C18H36O2	000057-11-4	99
2		n-Decanoic acid	172	C10H20O2	000334-48-5	90
3		Pentadecanoic acid	242	C15H30O2	001002-84-2	89
4		Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5		Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	83



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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
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Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

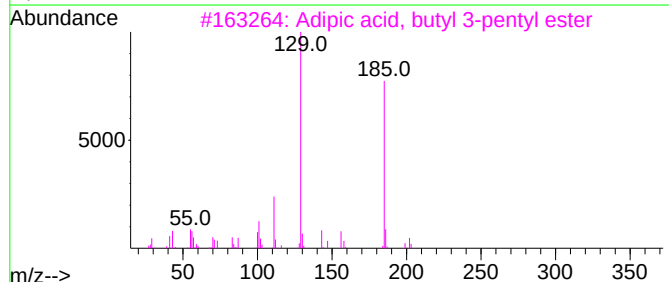
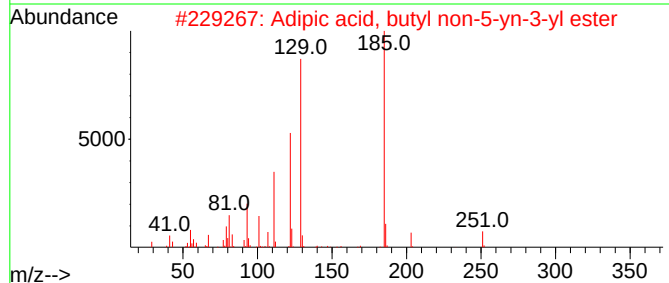
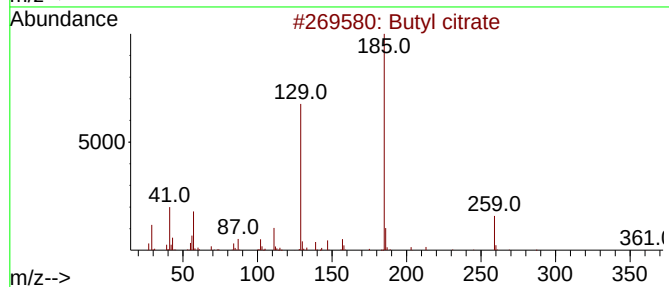
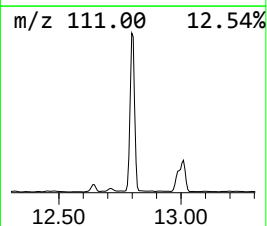
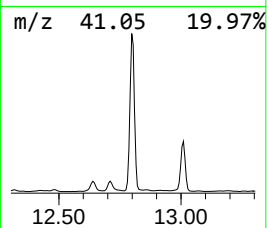
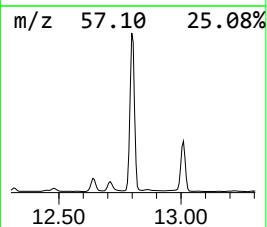
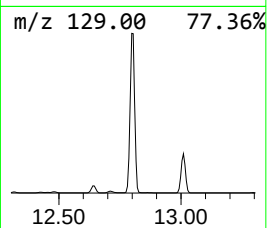
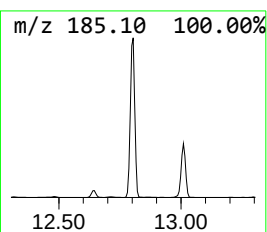
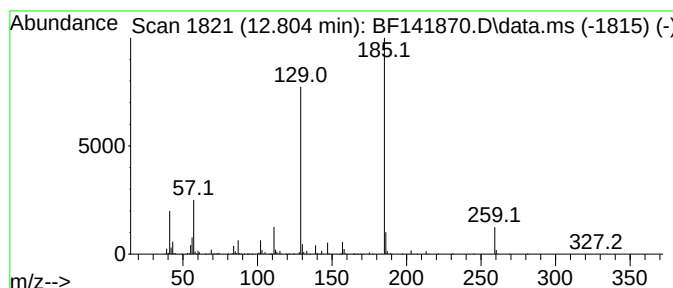
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Adipic acid, butyl non-5-yn... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.		
12.804	42.08 ng	2229400	Chrysene-d12	14.039		
Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Butyl citrate	360	C18H32O7	000077-94-1	91
2		Adipic acid, butyl non-5-yn-3-yl...	324	C19H32O4	1000324-32-5	72
3		Adipic acid, butyl 3-pentyl ester	272	C15H28O4	1000324-60-5	64
4		Adipic acid, isobutyl pent-4-en-...	270	C15H26O4	1000354-11-8	56
5		Adipic acid, butyl isobutyl ester	258	C14H26O4	1010324-09-3	50



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
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Sample : Q1488-14
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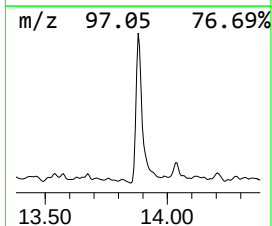
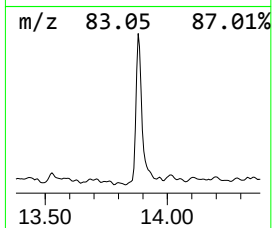
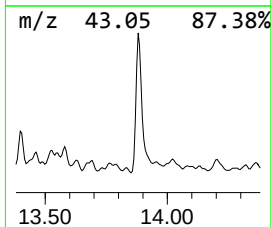
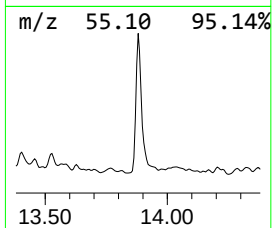
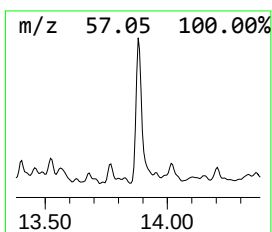
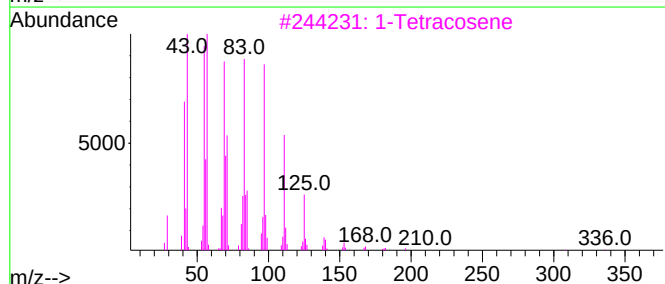
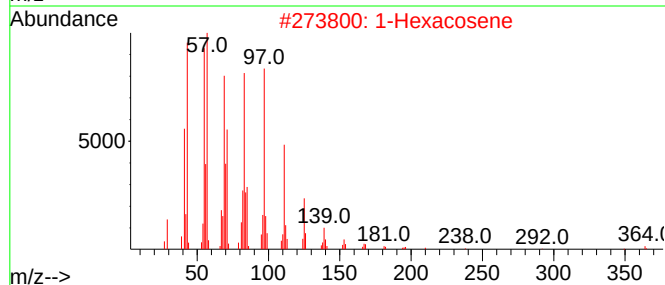
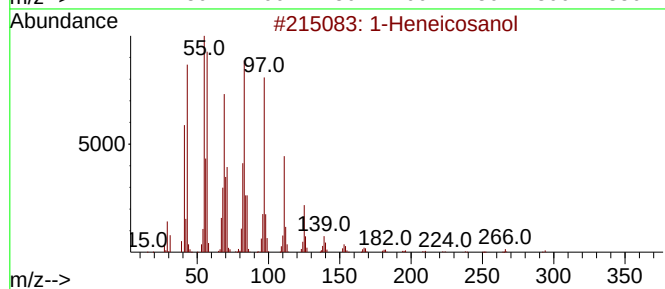
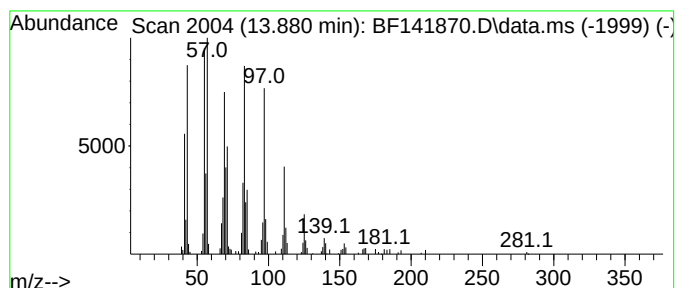
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 1-Heneicosanol Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.880	2.93 ng	155488	Chrysene-d12	14.039	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	95
2	1-Hexacosene	364	C26H52	018835-33-1	95
3	1-Tetracosene	336	C24H48	010192-32-2	94
4	n-Tetracosanol-1	354	C24H50O	000506-51-4	93
5	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	93



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
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Misc :
ALS Vial : 14 Sample Multiplier: 1

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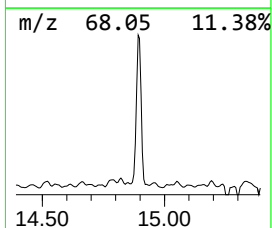
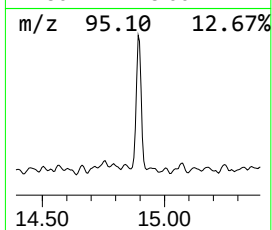
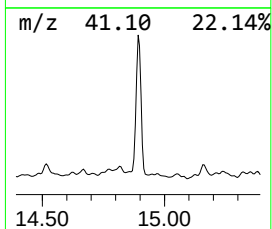
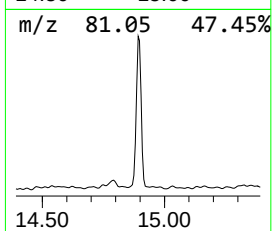
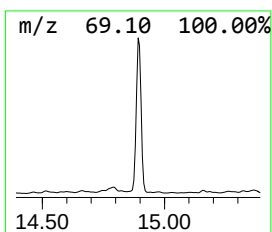
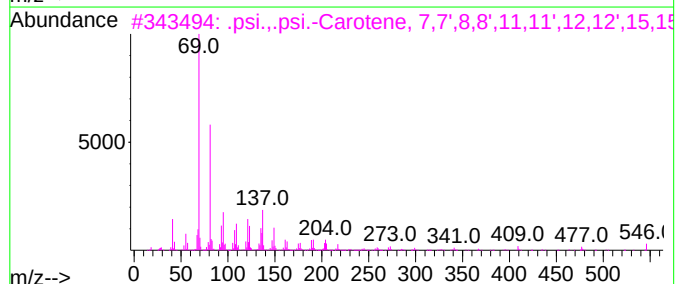
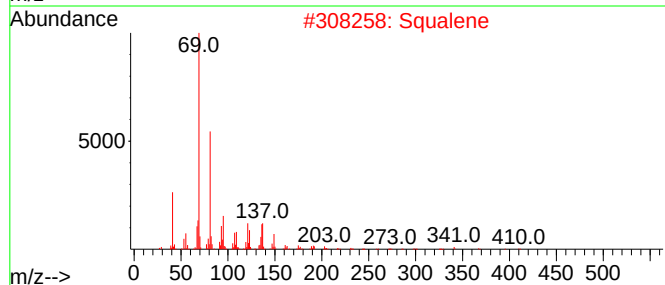
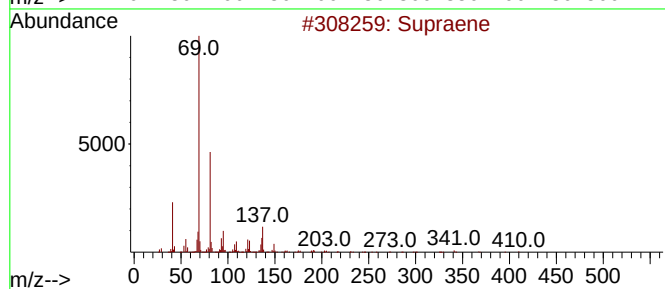
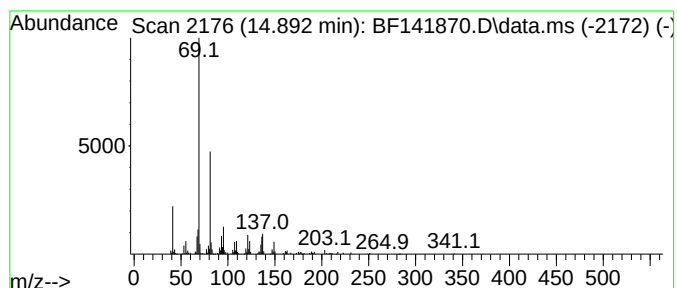
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Supraene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.892	2.92 ng	157719	Perylene-d12	15.509

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Supraene	410	C30H50	007683-64-9	91
2			Squalene	410	C30H50	000111-02-4	91
3			.psi.,.psi.-Carotene, 7,7',8,8',...	547	C40H66	000502-62-5	83
4			4,9,13,17-Tetramethyl-4,8,12,16-...	316	C22H360	056882-09-8	83
5			Docosa-2,6,10,14,18-pentaen-22-a...	384	C27H440	1000163-04-7	83



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141870.D
Acq On : 06 Mar 2025 16:00
Operator : RC/JU
Sample : Q1488-14
Misc :
ALS Vial : 14 Sample Multiplier: 1

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ClientSampleId :
ENV-104-GW01

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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
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2-Pentanone, 4-...	5.104	8.1	ng	367973	1	6.887	913939	20.0
Ethanol, 2-butoxy-	5.834	4.8	ng	220234	1	6.887	913939	20.0
2-Propanol, 1-(...	6.687	19.6	ng	895975	1	6.887	913939	20.0
2-Propanol, 1-(...	6.716	17.4	ng	797169	1	6.887	913939	20.0
2-Propanol, 1-(...	6.810	27.8	ng	1272310	1	6.887	913939	20.0
1-Hexanol, 2-et...	6.939	3.7	ng	171031	1	6.887	913939	20.0
Hexanoic acid, ...	7.516	2.6	ng	121312	1	6.887	913939	20.0
2,2,4-Trimethyl...	10.322	3.1	ng	191841	3	9.916	1244590	20.0
Benzophenone	10.628	8.8	ng	549239	3	9.916	1244590	20.0
Methanone, (1-h...	10.939	2.3	ng	144176	4	11.404	1232760	20.0
n-Hexadecanoic ...	11.927	10.0	ng	618168	4	11.404	1232760	20.0
Butyl citrate	12.639	2.8	ng	174343	4	11.404	1232760	20.0
Octadecanoic acid	12.710	2.8	ng	169266	4	11.404	1232760	20.0
Adipic acid, bu...	12.804	42.1	ng	2229400	5	14.039	1059710	20.0
1-Heneicosanol	13.880	2.9	ng	155488	5	14.039	1059710	20.0
Supraene	14.892	2.9	ng	157719	6	15.509	1081960	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141861.D
Acq On : 06 Mar 2025 11:21
Operator : RC/JU
Sample : PB166982BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Quant Time: Mar 06 11:43:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	212037	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	840031	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	466101	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	808511	20.000	ng	0.00
76) Chrysene-d12	14.039	240	646602	20.000	ng	-0.01
86) Perylene-d12	15.510	264	495069	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	1727468	130.107	ng	0.01
7) Phenol-d6	6.504	99	2126999	123.079	ng	0.00
23) Nitrobenzene-d5	7.445	82	1428020	108.662	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	752761	172.027	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	2730516	93.933	ng	0.00
79) Terphenyl-d14	12.992	244	3482297	87.134	ng	0.00

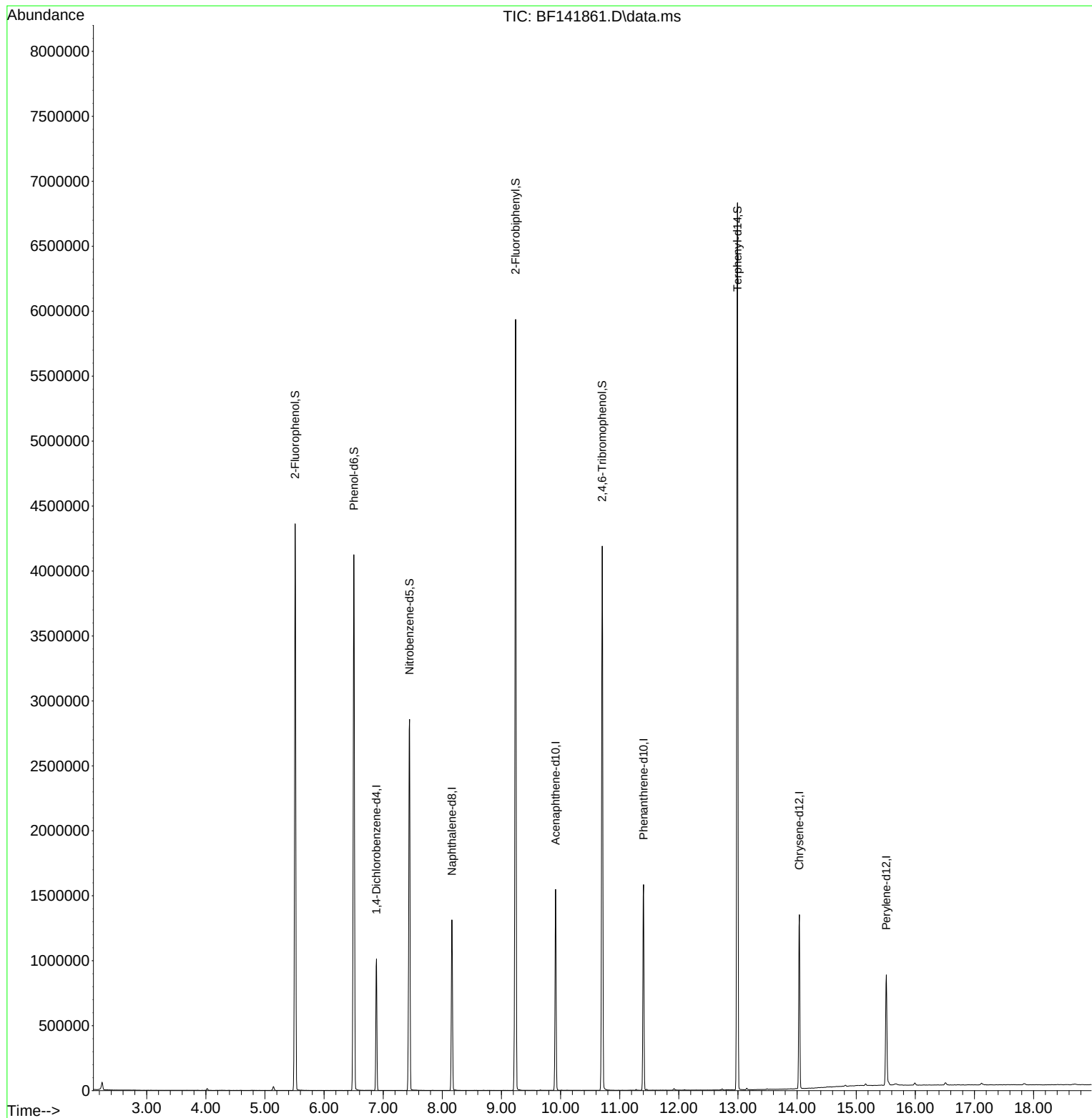
Target Compounds	Qvalue

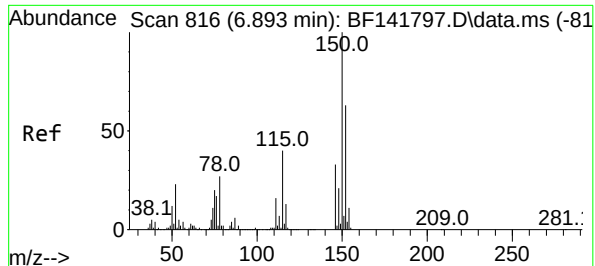
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141861.D
Acq On : 06 Mar 2025 11:21
Operator : RC/JU
Sample : PB166982BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Quant Time: Mar 06 11:43:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

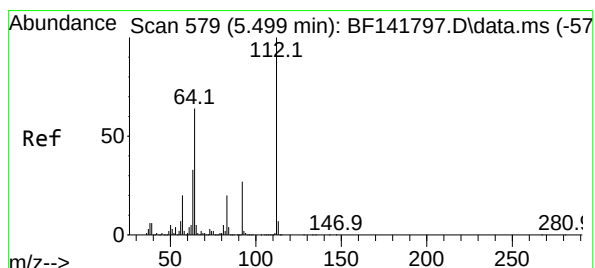
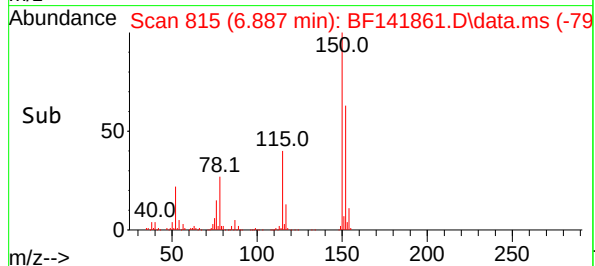
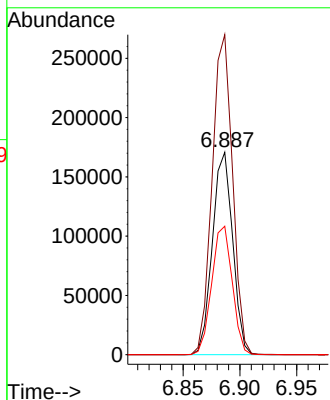
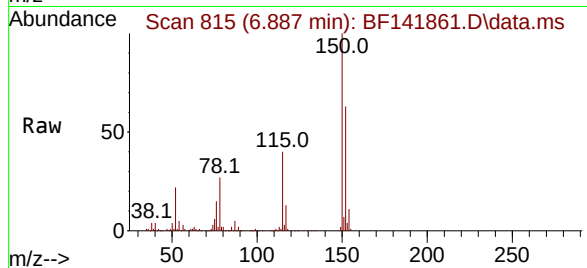




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 816
Delta R.T. -0.006 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

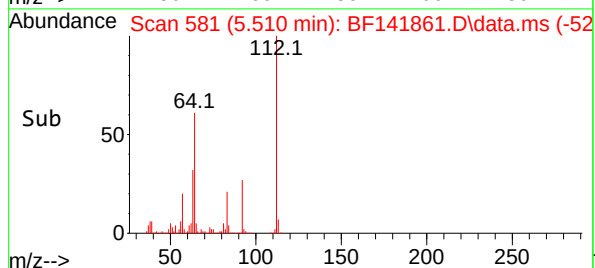
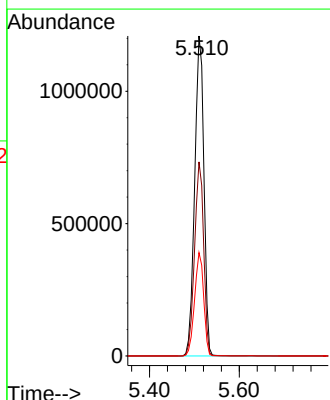
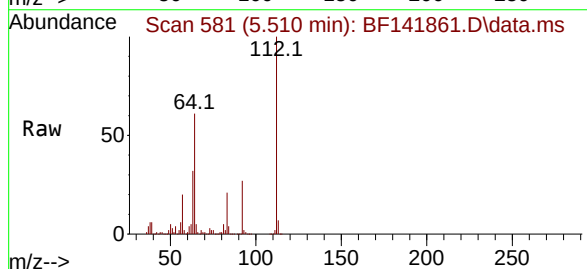
Instrument :
BNA_F
ClientSampleId :
PB166982BL

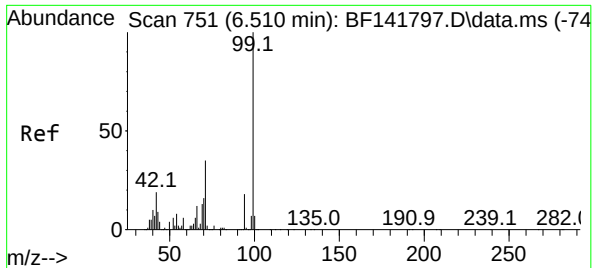
Tgt Ion:152 Resp: 212037
Ion Ratio Lower Upper
152 100
150 158.0 127.5 191.3
115 63.4 51.4 77.2



#5
2-Fluorophenol
Concen: 130.107 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.012 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Tgt Ion:112 Resp: 1727468
Ion Ratio Lower Upper
112 100
64 60.7 51.3 76.9
63 32.3 26.2 39.4



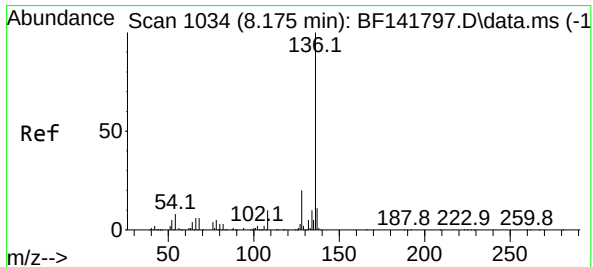
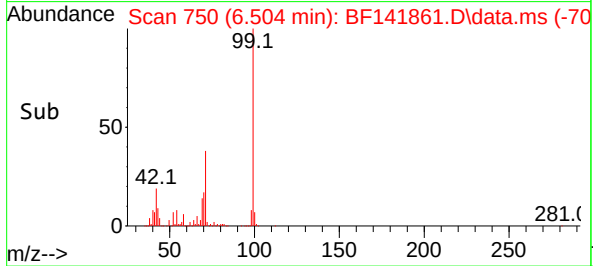
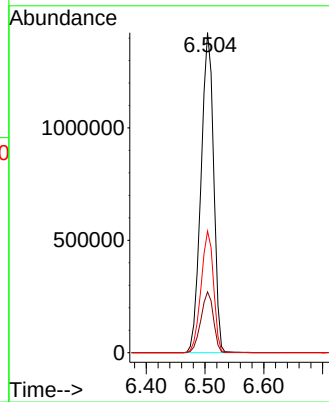
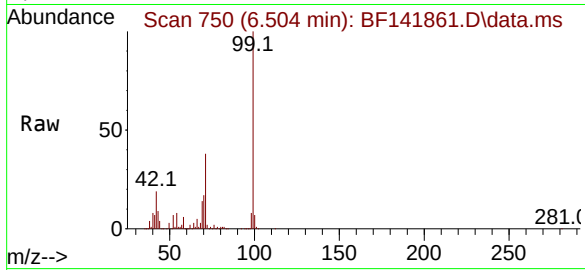


#7
Phenol-d6
Concen: 123.079 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Tgt Ion: 99 Resp: 2126999

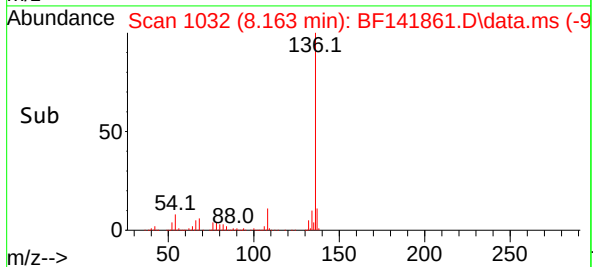
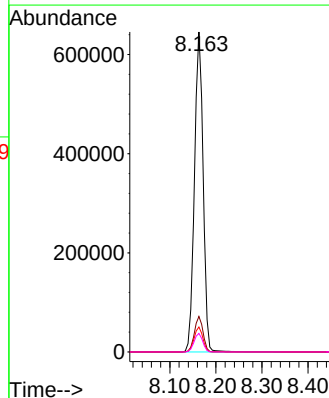
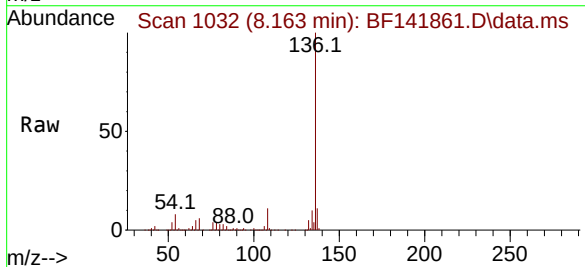
Ion	Ratio	Lower	Upper
99	100		
42	19.0	15.2	22.8
71	38.0	28.2	42.2

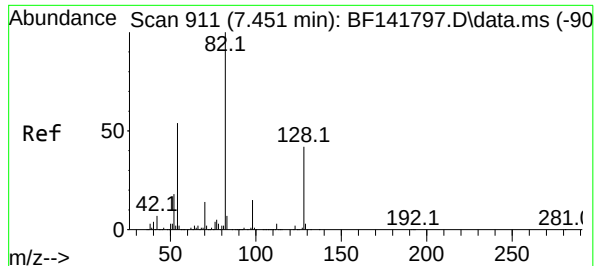


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Tgt Ion: 136 Resp: 840031

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	7.8	6.9	10.3
68	5.8	5.1	7.7





#23

Nitrobenzene-d5

Concen: 108.662 ng

RT: 7.445 min Scan# 911

Delta R.T. -0.006 min

Lab File: BF141861.D

Acq: 06 Mar 2025 11:21

Instrument :

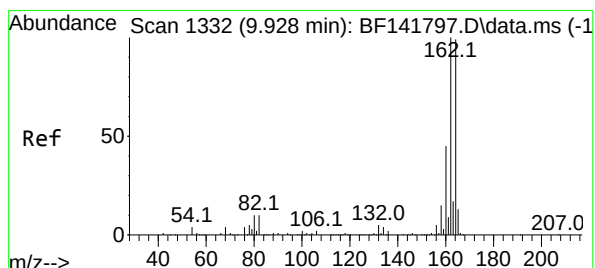
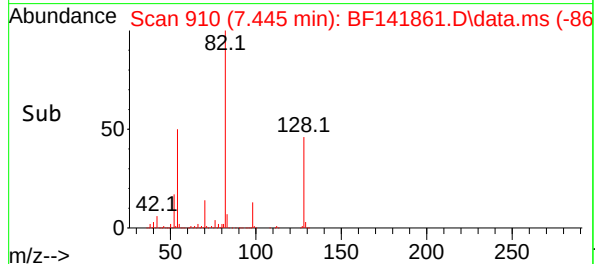
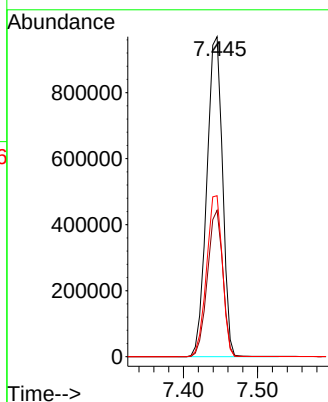
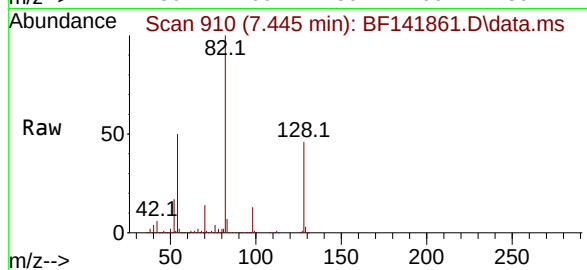
BNA_F

ClientSampleId :

PB166982BL

Tgt Ion: 82 Resp: 1428020

Ion	Ratio	Lower	Upper
82	100		
128	45.8	33.5	50.3
54	50.3	42.7	64.1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1330

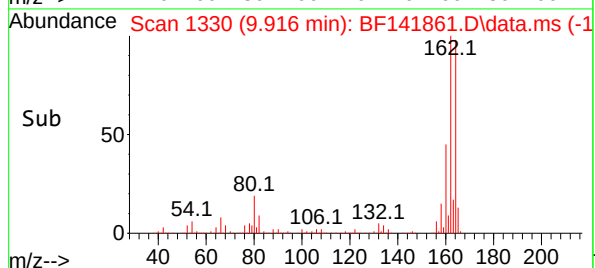
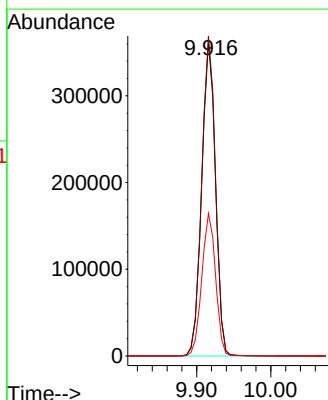
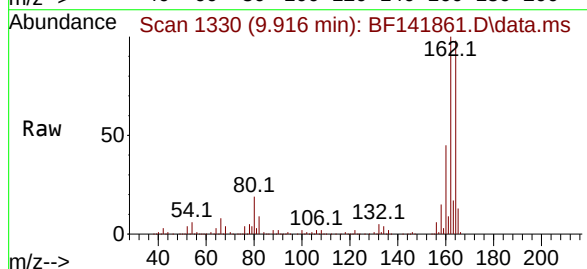
Delta R.T. -0.012 min

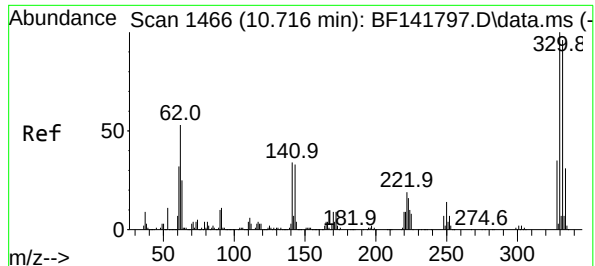
Lab File: BF141861.D

Acq: 06 Mar 2025 11:21

Tgt Ion: 164 Resp: 466101

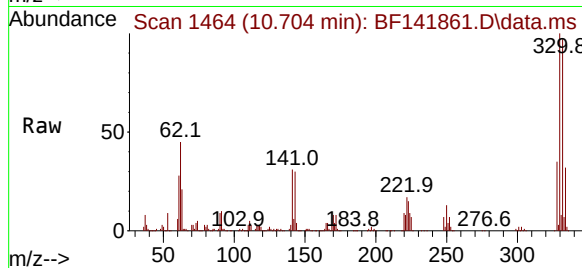
Ion	Ratio	Lower	Upper
164	100		
162	101.9	80.6	120.8
160	45.4	36.3	54.5



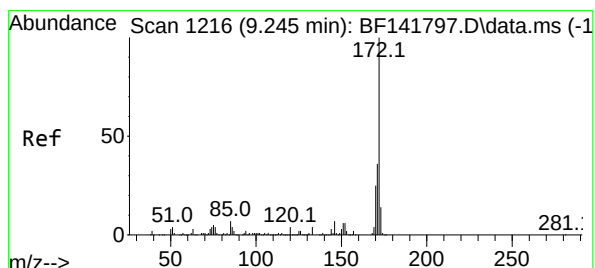
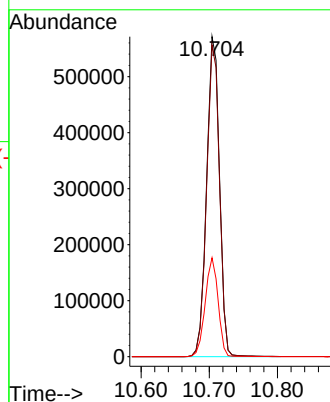
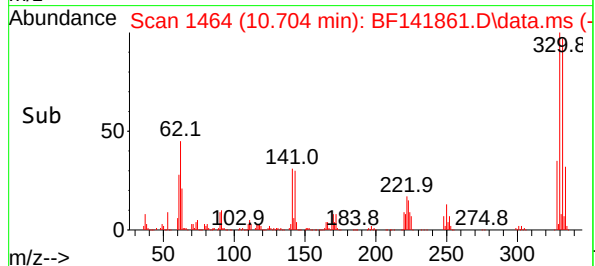


#42
2,4,6-Tribromophenol
Concen: 172.027 ng
RT: 10.704 min Scan# 1464
Delta R.T. -0.012 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

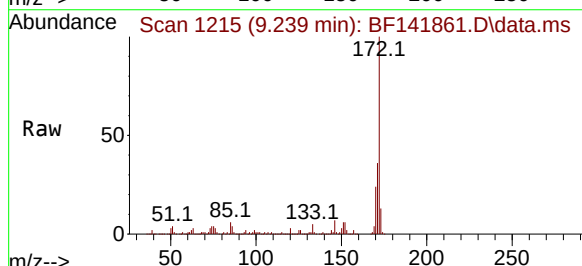
Instrument :
BNA_F
ClientSampleId :
PB166982BL



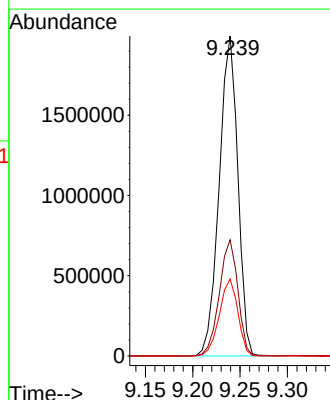
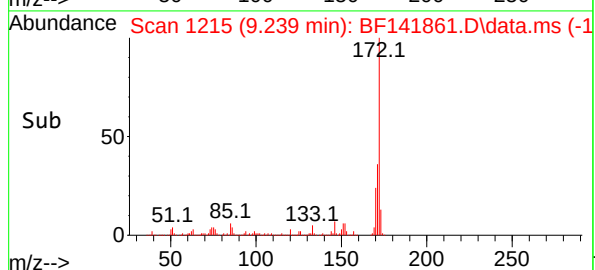
Tgt Ion:330 Resp: 752761
Ion Ratio Lower Upper
330 100
332 97.4 76.6 115.0
141 31.0 29.0 43.4

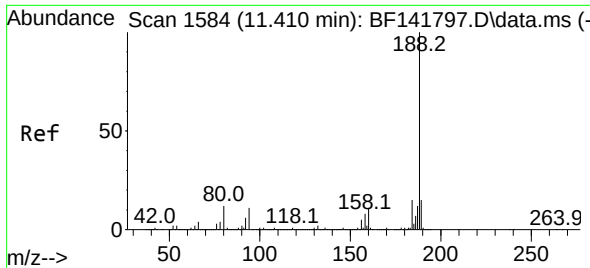


#45
2-Fluorobiphenyl
Concen: 93.933 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21



Tgt Ion:172 Resp: 2730516
Ion Ratio Lower Upper
172 100
171 36.3 29.2 43.8
170 24.1 19.7 29.5

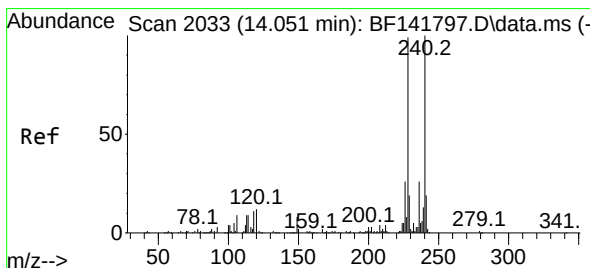
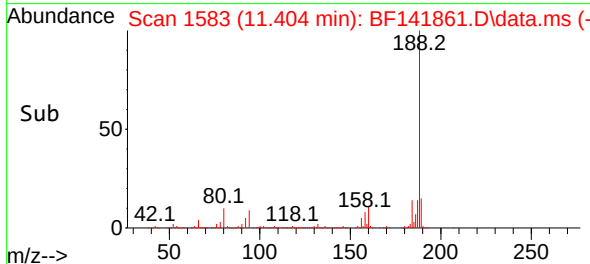
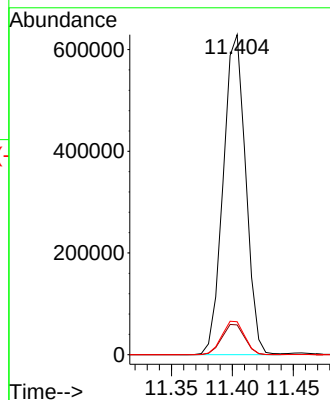
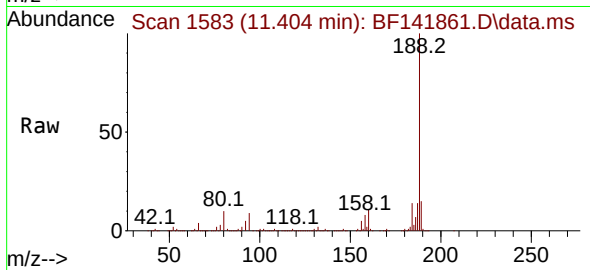




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

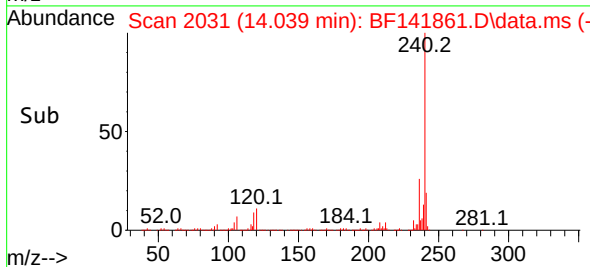
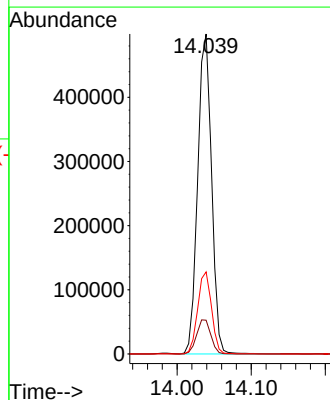
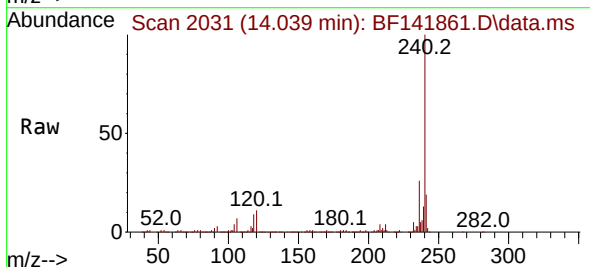
Instrument :
BNA_F
ClientSampleId :
PB166982BL

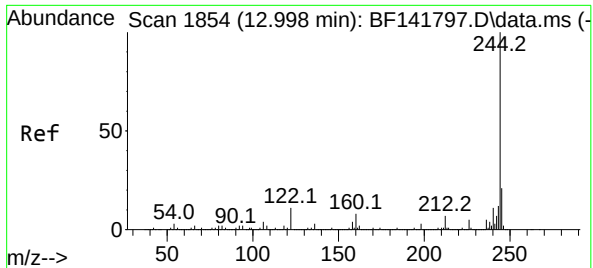
Tgt Ion:188 Resp: 808511
Ion Ratio Lower Upper
188 100
94 9.3 8.9 13.3
80 10.3 9.7 14.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141861.D
Acq: 06 Mar 2025 11:21

Tgt Ion:240 Resp: 646602
Ion Ratio Lower Upper
240 100
120 10.6 9.7 14.5
236 25.6 21.0 31.4





#79

Terphenyl-d14

Concen: 87.134 ng

RT: 12.992 min Scan# 1853

Delta R.T. -0.006 min

Lab File: BF141861.D

Acq: 06 Mar 2025 11:21

Instrument :

BNA_F

ClientSampleId :

PB166982BL

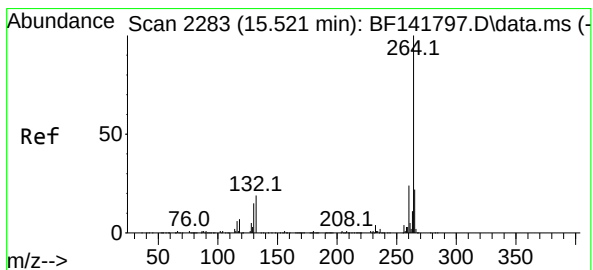
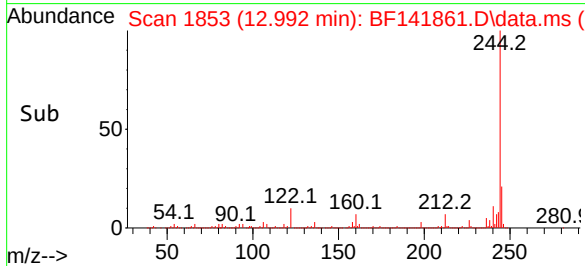
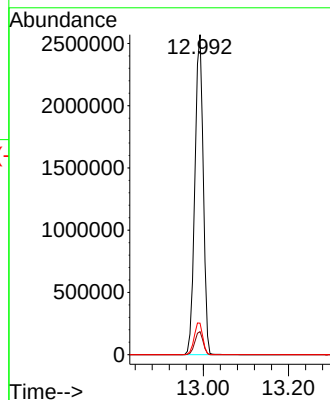
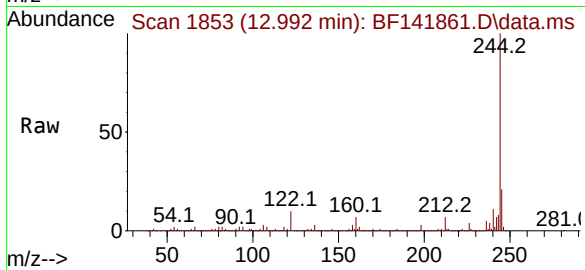
Tgt Ion:244 Resp: 3482297

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

122 9.8 9.0 13.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.510 min Scan# 2281

Delta R.T. -0.012 min

Lab File: BF141861.D

Acq: 06 Mar 2025 11:21

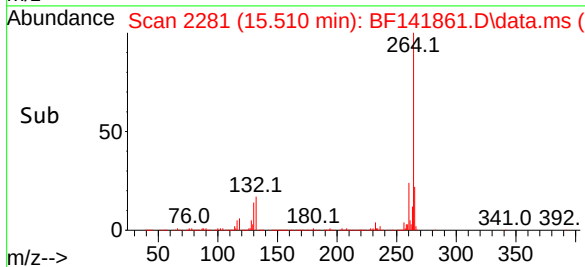
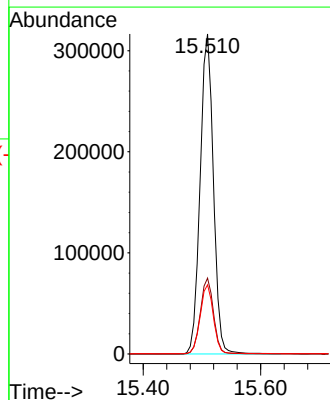
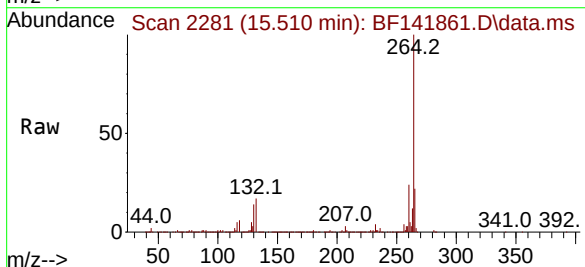
Tgt Ion:264 Resp: 495069

Ion Ratio Lower Upper

264 100

260 23.7 18.9 28.3

265 21.6 17.4 26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141861.D
Acq On : 06 Mar 2025 11:21
Operator : RC/JU
Sample : PB166982BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166982BL

A
B
C
D
E
F
G
H
I
J
K

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-BF022725.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141861.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.246	16	26	32	rVB	55435	102945	1.11%	0.208%
2	5.510	574	581	586	rBV	4362587	6158250	66.30%	12.413%
3	6.504	743	750	755	rBV	4124259	6130832	66.00%	12.358%
4	6.887	809	815	820	rBV	1012818	1272257	13.70%	2.565%
5	7.445	903	910	915	rBV	2856844	4193404	45.14%	8.453%
6	8.163	1026	1032	1037	rBV	1313313	1694537	18.24%	3.416%
7	9.239	1208	1215	1220	rBV	5935221	8109581	87.30%	16.347%
8	9.916	1324	1330	1343	rBV	1547614	1993087	21.46%	4.018%
9	10.704	1457	1464	1469	rBV	4189751	5504064	59.25%	11.095%
10	11.404	1577	1583	1588	rBV	1582941	2040421	21.97%	4.113%
11	12.992	1846	1853	1858	rBV	6829406	9289114	100.00%	18.724%
12	14.039	2025	2031	2036	rBV	1339299	1749387	18.83%	3.526%
13	15.510	2274	2281	2297	rBV	850460	1372181	14.77%	2.766%

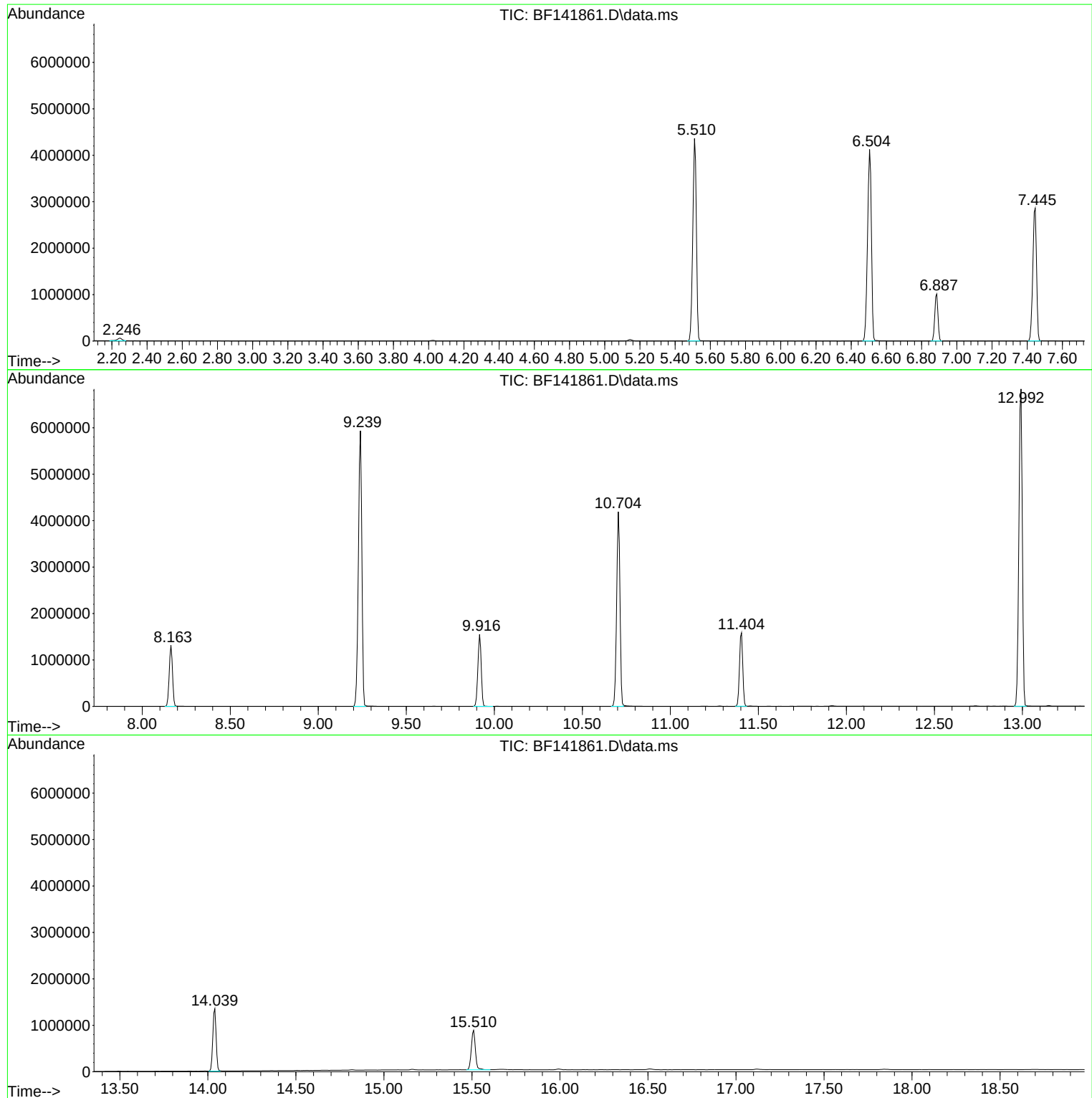
Sum of corrected areas: 49610060

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141861.D
Acq On : 06 Mar 2025 11:21
Operator : RC/JU
Sample : PB166982BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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\BF030625\
Data File : BF141861.D
Acq On : 06 Mar 2025 11:21
Operator : RC/JU
Sample : PB166982BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

No Library Search Compounds Detected

A

B

C

D

E

F

G

H

I

J

K

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141861.D
Acq On : 06 Mar 2025 11:21
Operator : RC/JU
Sample : PB166982BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166982BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166984BL

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Mar 06 10:55:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	218862	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	871720	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	477596	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	848035	20.000	ng	0.00
76) Chrysene-d12	14.039	240	691946	20.000	ng	-0.01
86) Perylene-d12	15.510	264	552165	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	1730529	126.273	ng	0.01
7) Phenol-d6	6.504	99	2123556	119.048	ng	0.00
23) Nitrobenzene-d5	7.445	82	1433035	105.079	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	746687	166.531	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	2725247	91.496	ng	0.00
79) Terphenyl-d14	12.992	244	3529158	82.519	ng	0.00

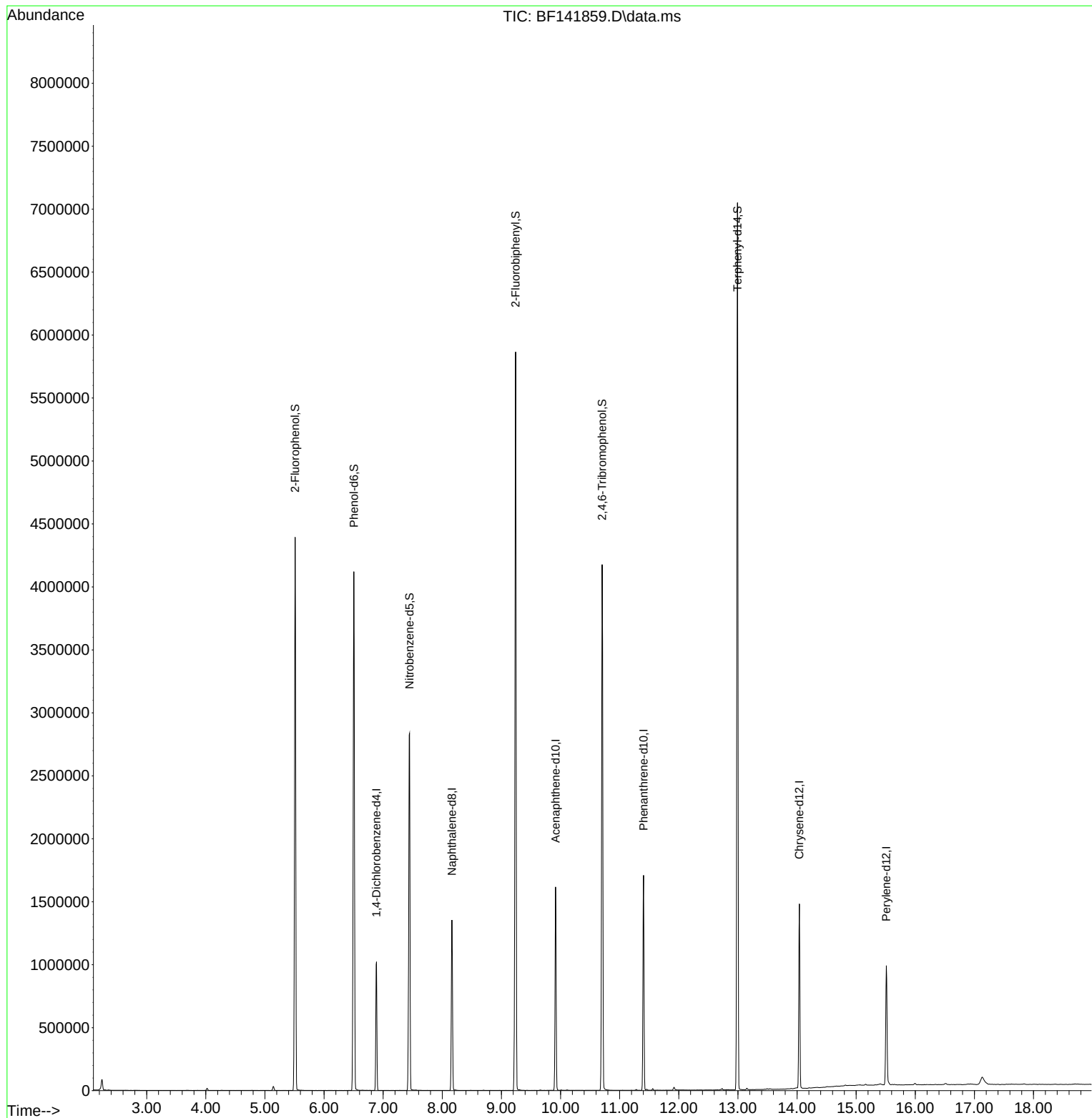
Target Compounds	Qvalue

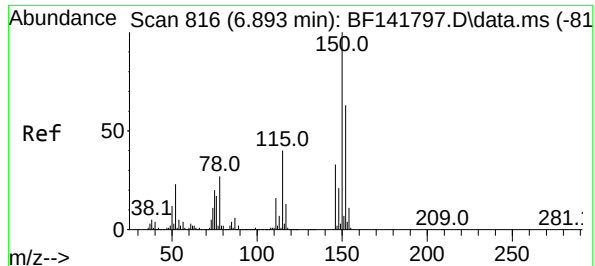
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Quant Time: Mar 06 10:55:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

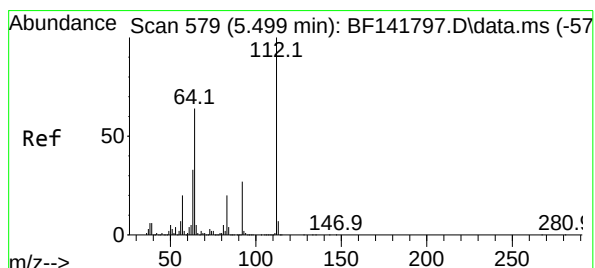
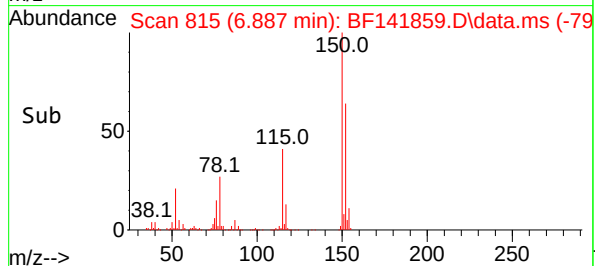
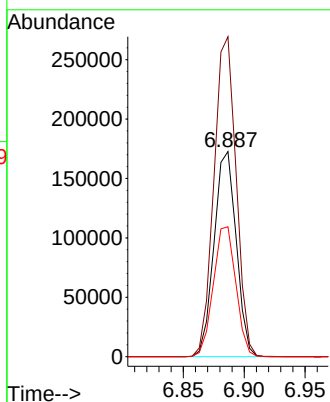
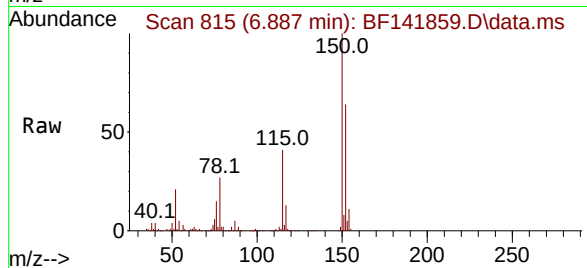




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.887 min Scan# 816
 Delta R.T. -0.006 min
 Lab File: BF141859.D
 Acq: 06 Mar 2025 10:22

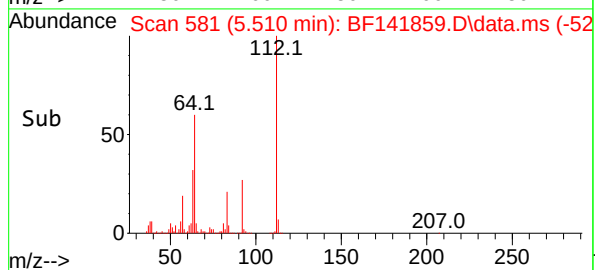
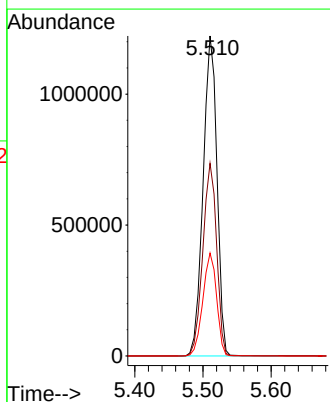
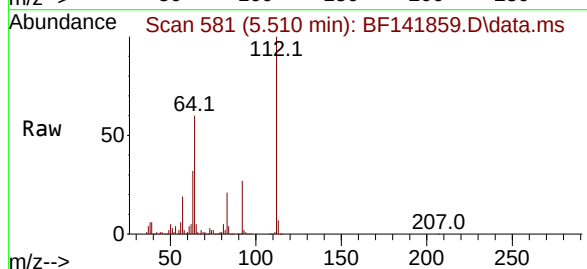
Instrument :
 BNA_F
 ClientSampleId :
 PB166984BL

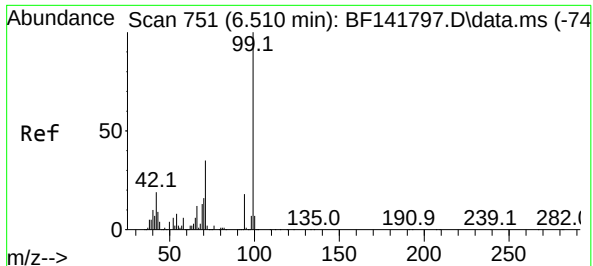
Tgt Ion:152 Resp: 218862
 Ion Ratio Lower Upper
 152 100
 150 155.9 127.5 191.3
 115 63.3 51.4 77.2



#5
 2-Fluorophenol
 Concen: 126.273 ng
 RT: 5.510 min Scan# 581
 Delta R.T. 0.012 min
 Lab File: BF141859.D
 Acq: 06 Mar 2025 10:22

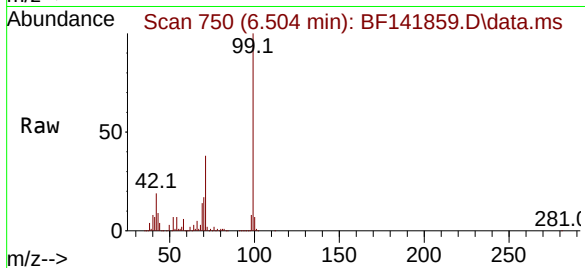
Tgt Ion:112 Resp: 1730529
 Ion Ratio Lower Upper
 112 100
 64 60.2 51.3 76.9
 63 32.2 26.2 39.4



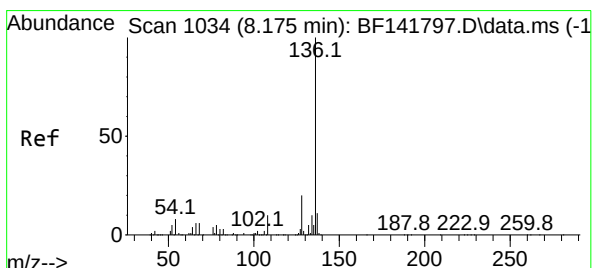
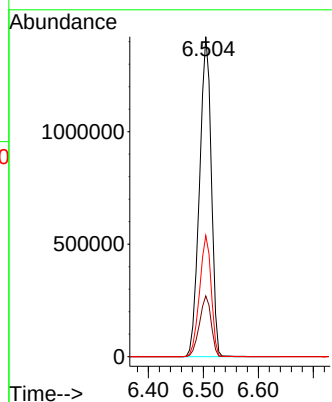
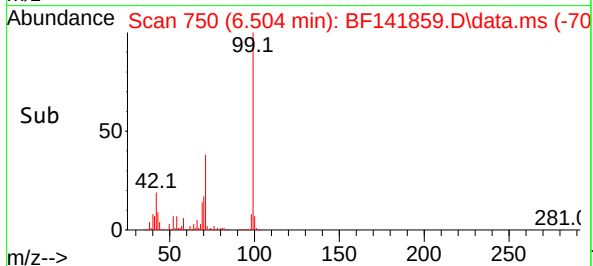


#7
Phenol-d6
Concen: 119.048 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Instrument :
BNA_F
ClientSampleId :
PB166984BL

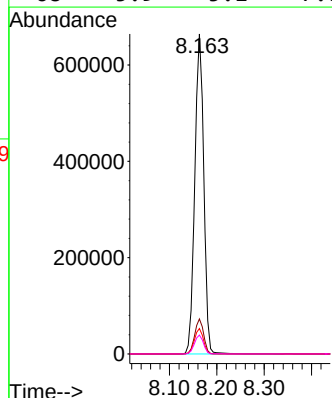
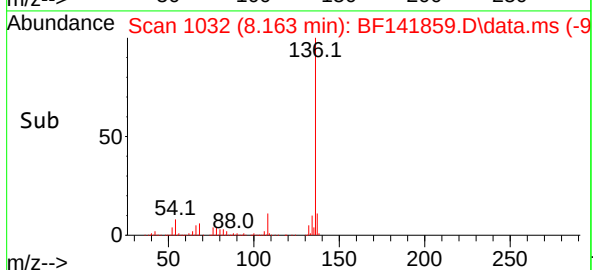
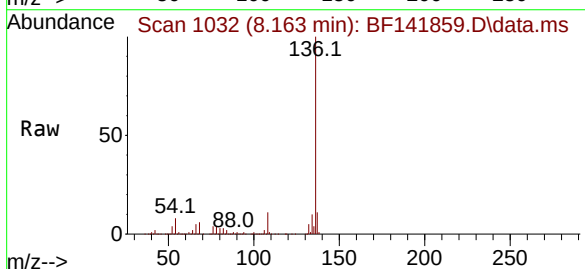


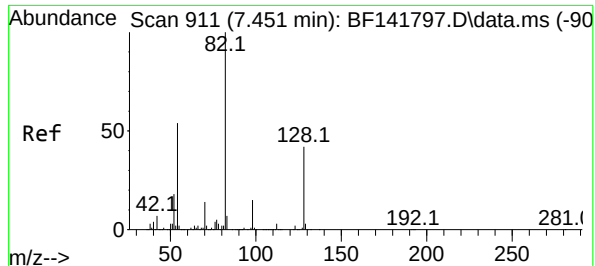
Tgt Ion: 99 Resp: 2123556
Ion Ratio Lower Upper
99 100
42 19.0 15.2 22.8
71 37.8 28.2 42.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion: 136 Resp: 871720
Ion Ratio Lower Upper
136 100
137 10.9 8.9 13.3
54 7.9 6.9 10.3
68 5.9 5.1 7.7





#23

Nitrobenzene-d5

Concen: 105.079 ng

RT: 7.445 min Scan# 911

Delta R.T. -0.006 min

Lab File: BF141859.D

Acq: 06 Mar 2025 10:22

Instrument :

BNA_F

ClientSampleId :

PB166984BL

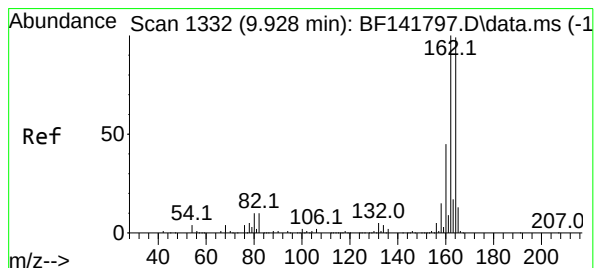
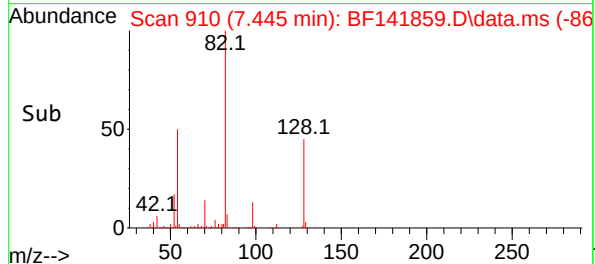
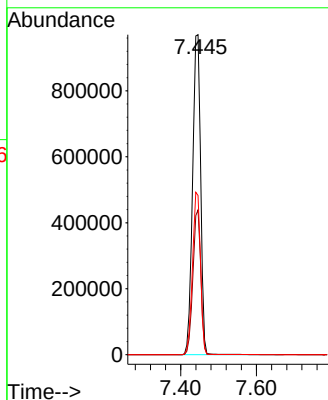
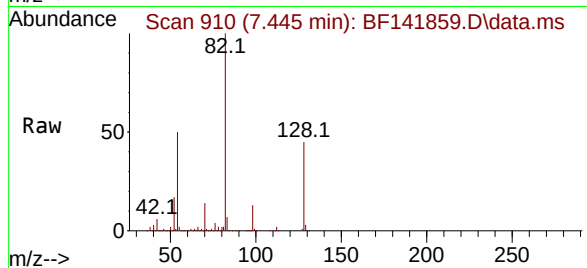
Tgt Ion: 82 Resp: 1433035

Ion Ratio Lower Upper

82 100

128 45.3 33.5 50.3

54 49.8 42.7 64.1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1330

Delta R.T. -0.012 min

Lab File: BF141859.D

Acq: 06 Mar 2025 10:22

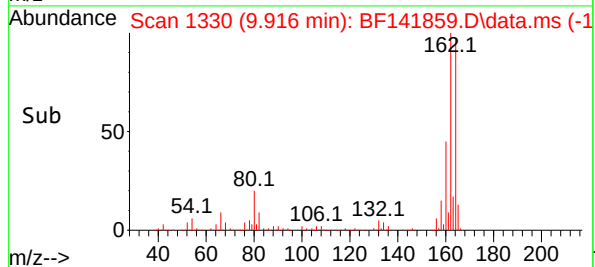
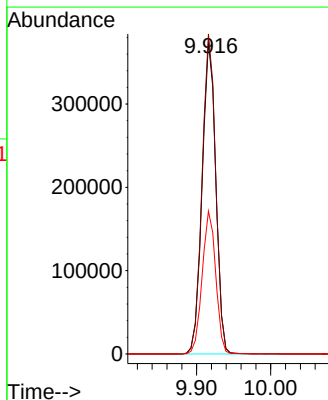
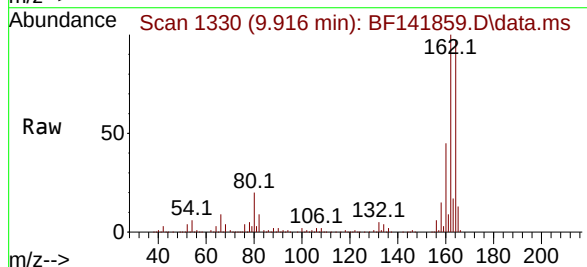
Tgt Ion: 164 Resp: 477596

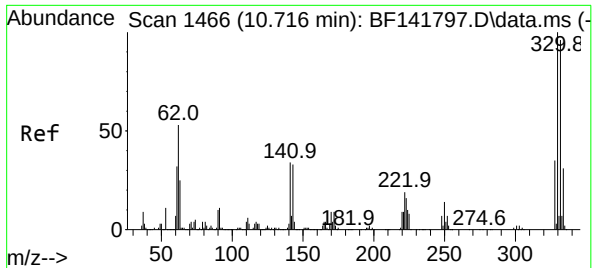
Ion Ratio Lower Upper

164 100

162 102.6 80.6 120.8

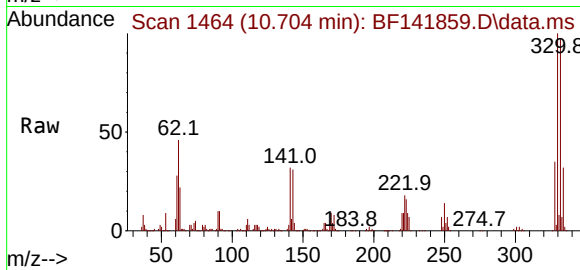
160 45.8 36.3 54.5



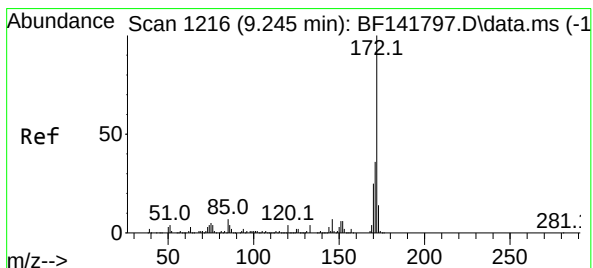
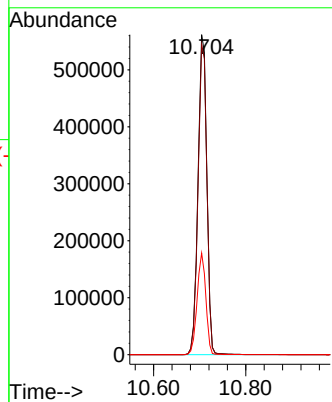
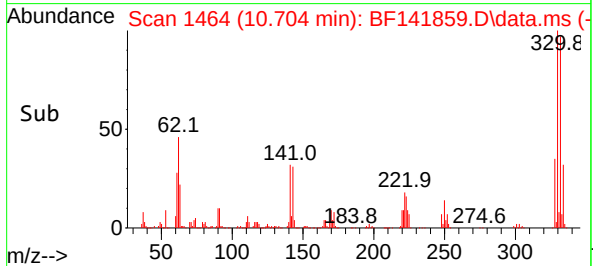


#42
2,4,6-Tribromophenol
Concen: 166.531 ng
RT: 10.704 min Scan# 1464
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Instrument :
BNA_F
ClientSampleId :
PB166984BL

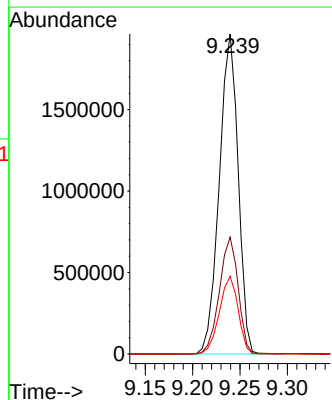
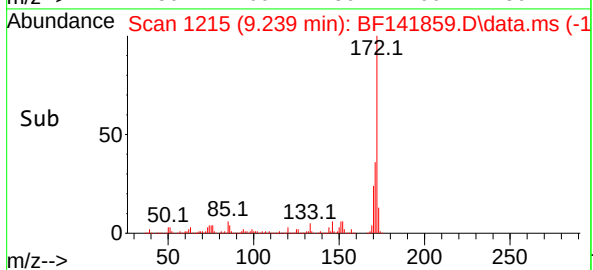
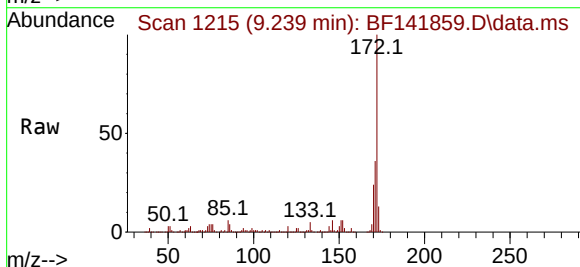


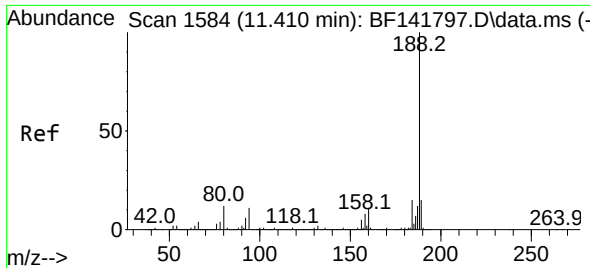
Tgt Ion:330 Resp: 746687
Ion Ratio Lower Upper
330 100
332 97.1 76.6 115.0
141 31.4 29.0 43.4



#45
2-Fluorobiphenyl
Concen: 91.496 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:172 Resp: 2725247
Ion Ratio Lower Upper
172 100
171 36.5 29.2 43.8
170 24.2 19.7 29.5

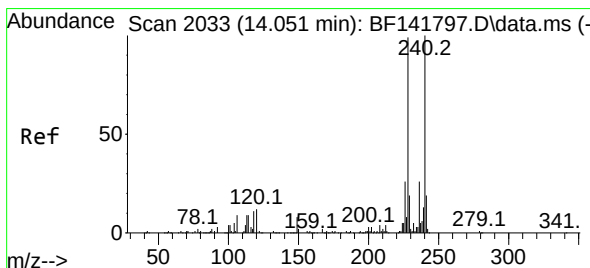
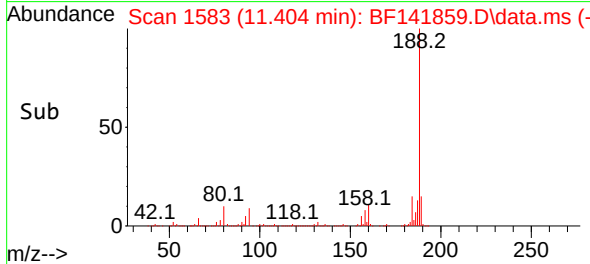
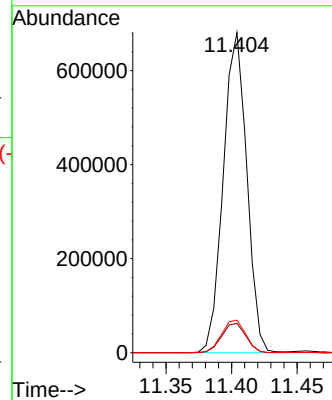
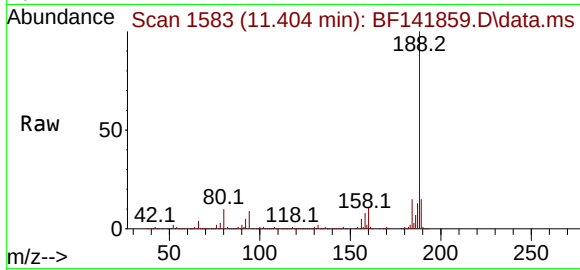




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

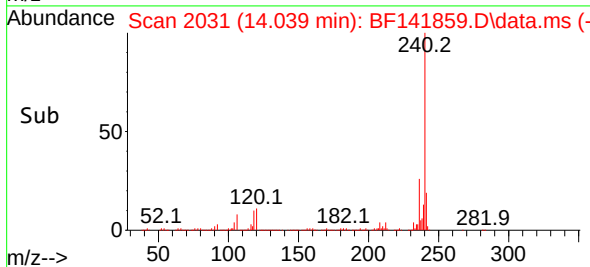
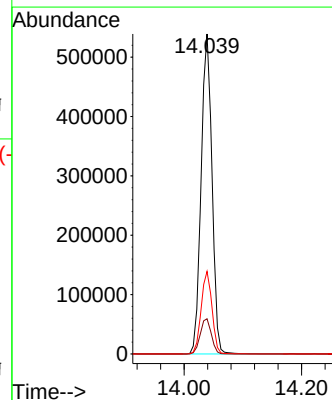
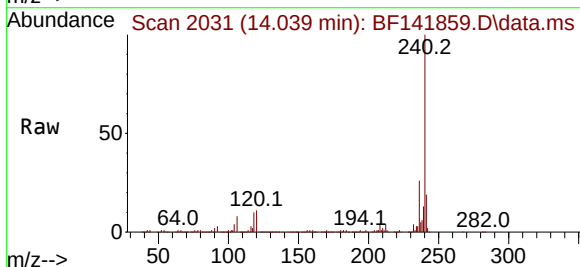
Instrument :
BNA_F
ClientSampleId :
PB166984BL

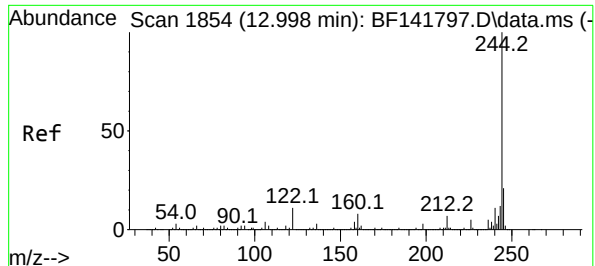
Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.1	8.9	13.3
80	10.1	9.7	14.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.0	9.7	14.5
236	25.8	21.0	31.4





#79

Terphenyl-d14

Concen: 82.519 ng

RT: 12.992 min Scan# 1853

Delta R.T. -0.006 min

Lab File: BF141859.D

Acq: 06 Mar 2025 10:22

Instrument :

BNA_F

ClientSampleId :

PB166984BL

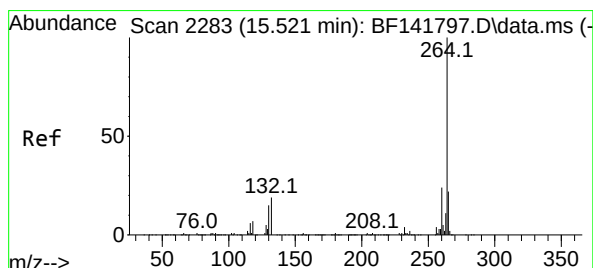
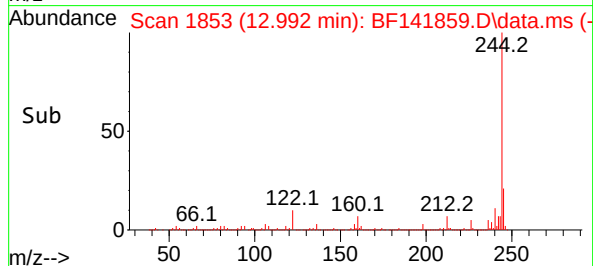
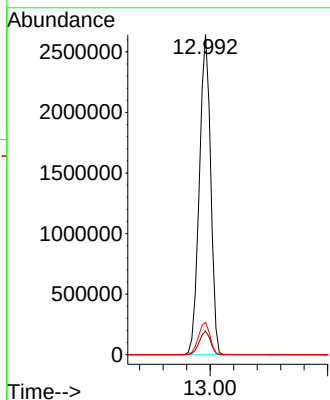
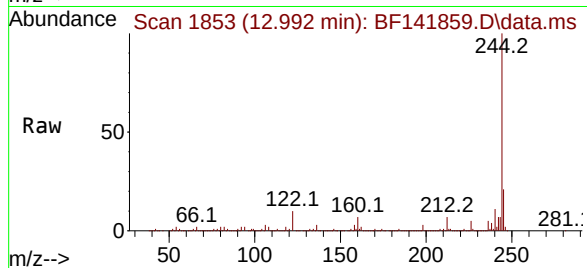
Tgt Ion:244 Resp: 3529158

Ion Ratio Lower Upper

244 100

212 7.4 6.0 9.0

122 10.1 9.0 13.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.510 min Scan# 2281

Delta R.T. -0.012 min

Lab File: BF141859.D

Acq: 06 Mar 2025 10:22

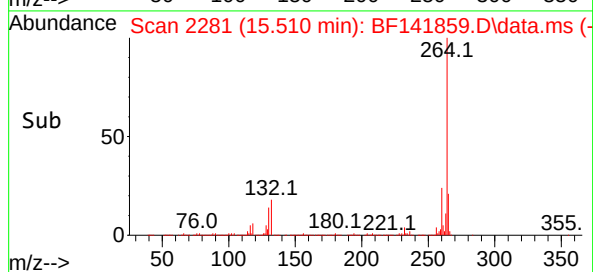
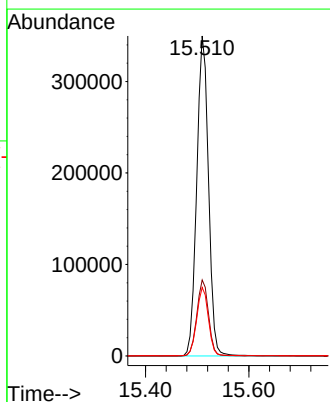
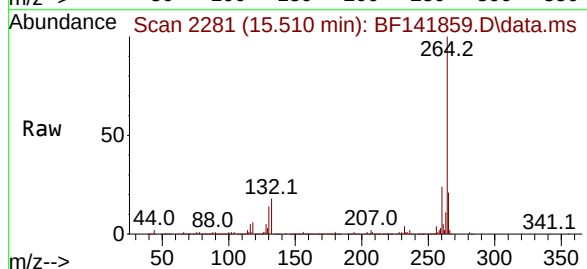
Tgt Ion:264 Resp: 552165

Ion Ratio Lower Upper

264 100

260 23.7 18.9 28.3

265 21.4 17.4 26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141859.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.240	14	25	31	rBV	81610	149341	1.59%	0.297%
2	5.510	574	581	586	rBV	4392822	6178026	65.67%	12.282%
3	6.504	743	750	755	rBV	4119823	6120759	65.06%	12.169%
4	6.887	809	815	820	rBV	1021567	1312062	13.95%	2.609%
5	7.445	903	910	915	rBV	2836233	4167253	44.30%	8.285%
6	8.163	1026	1032	1040	rBV	1353027	1764969	18.76%	3.509%
7	9.239	1208	1215	1220	rBV	5863702	8102468	86.13%	16.108%
8	9.916	1324	1330	1341	rBV	1615098	2058136	21.88%	4.092%
9	10.704	1457	1464	1469	rBV	4174632	5509630	58.57%	10.954%
10	11.404	1577	1583	1588	rBV	1707669	2137813	22.72%	4.250%
11	12.992	1846	1853	1858	rBV	7045093	9407646	100.00%	18.703%
12	14.039	2025	2031	2041	rVB	1463852	1886443	20.05%	3.750%
13	15.510	2275	2281	2295	rVB	945753	1504913	16.00%	2.992%

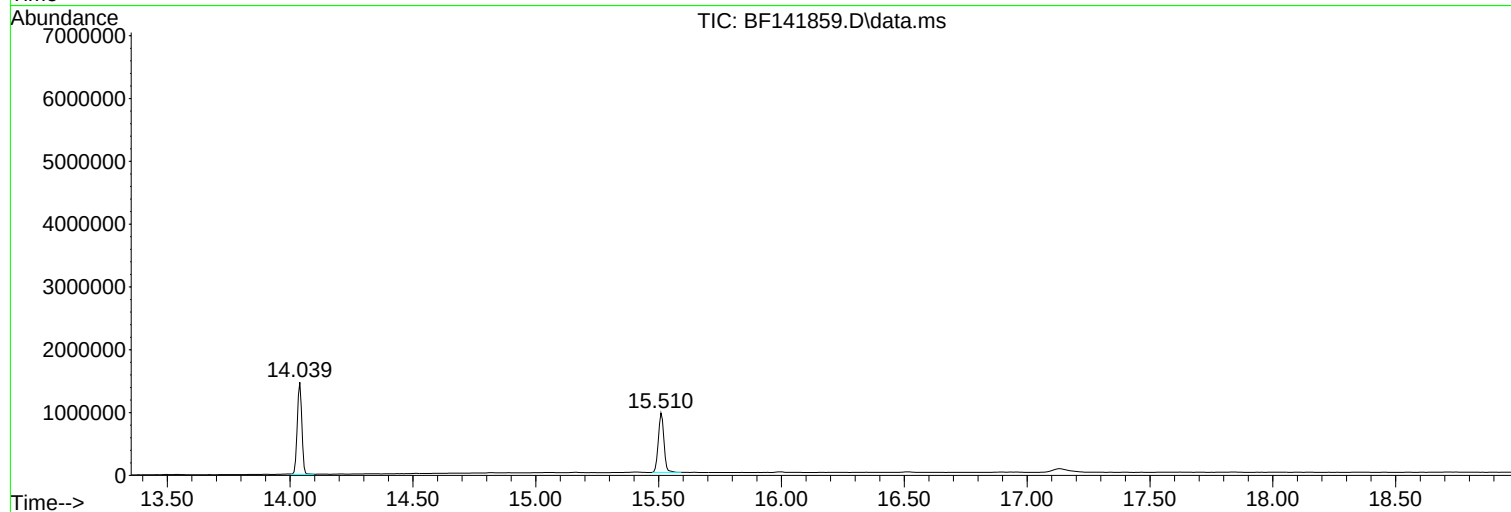
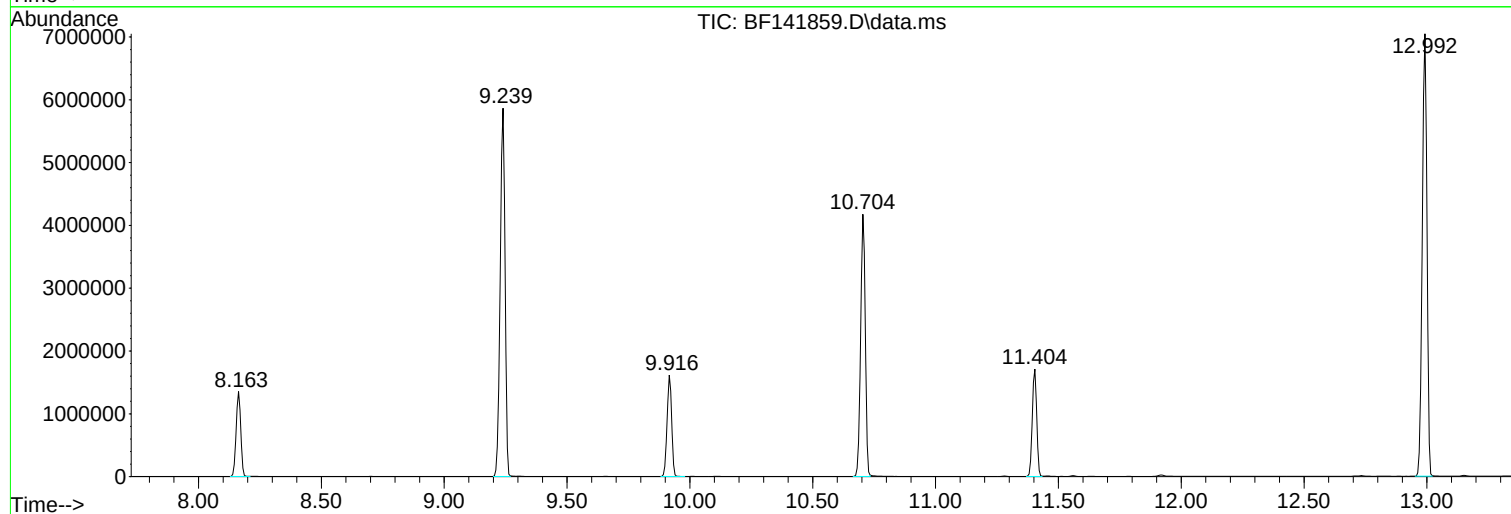
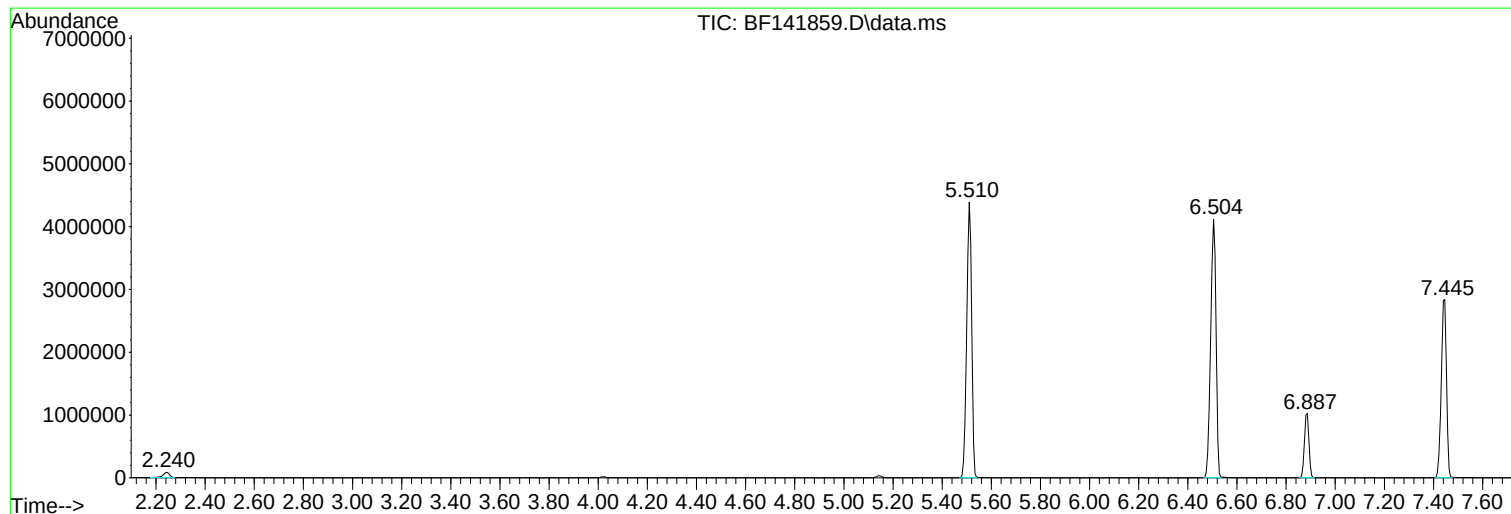
Sum of corrected areas: 50299459

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.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\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166984BL

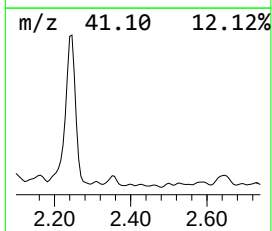
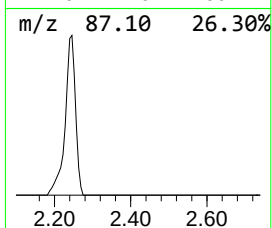
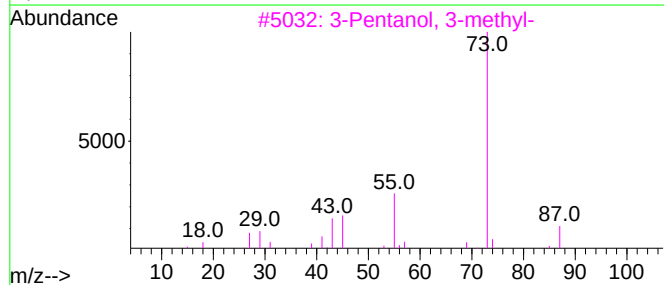
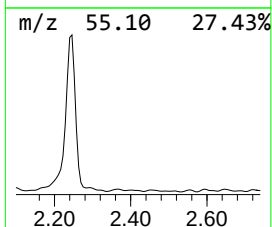
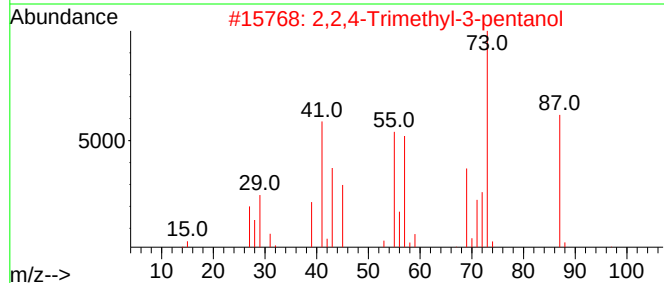
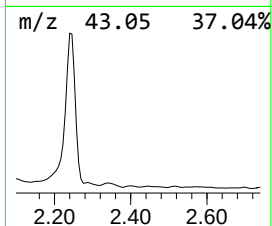
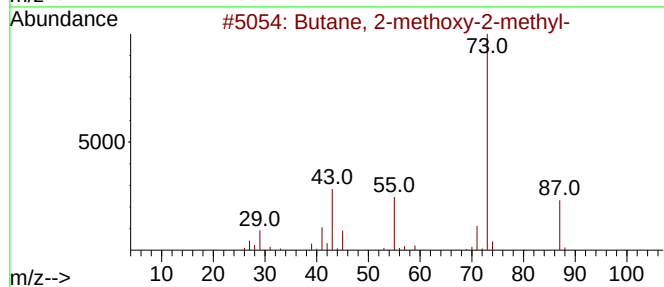
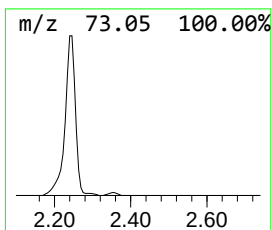
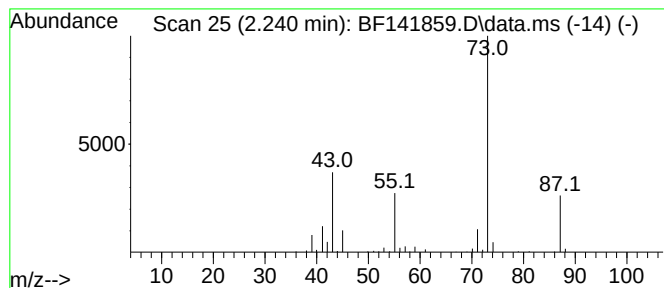
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.240	2.28 ng	149341	1,4-Dichlorobenzene-d4	6.887

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2			2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3			3-Pentanol, 3-methyl-	102	C6H14O	000077-74-7	38
4			Silane, ethyltrimethyl-	102	C5H14Si	003439-38-1	36
5			Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166984BL

A

B

C

D

E

F

G

H

I

J

K

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Butane, 2-metho...	2.240	2.3	ng	149341	1	6.887	1312060	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
 Data File : BF141862.D
 Acq On : 06 Mar 2025 11:51
 Operator : RC/JU
 Sample : PB166982BS
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

PB166982BS

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/07/2025

Supervised By :Jagrut Upadhyay 03/07/2025

Quant Time: Mar 06 15:47:22 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Feb 28 01:48:16 2025

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	210095	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	832298	20.000	ng	-0.01
39) Acenaphthene-d10	9.922	164	456822	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	789268	20.000	ng	0.00
76) Chrysene-d12	14.045	240	533191	20.000	ng	0.00
86) Perylene-d12	15.510	264	432459	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1718685	130.642	ng	0.02
7) Phenol-d6	6.510	99	2131309	124.468	ng	0.00
23) Nitrobenzene-d5	7.445	82	1424866	109.429	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	757115	176.536	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	2698143	94.705	ng	0.00
79) Terphenyl-d14	12.992	244	3290875	99.859	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.769	88	236649	39.644	ng	96
3) Pyridine	3.528	79	571968	38.510	ng	96
4) n-Nitrosodimethylamine	3.469	42	298504	41.770	ng	# 98
6) Aniline	6.546	93	654827	36.784	ng	99
8) 2-Chlorophenol	6.669	128	646113	45.401	ng	95
9) Benzaldehyde	6.434	77	232462	23.339	ng	99
10) Phenol	6.522	94	775445	42.379	ng	97
11) bis(2-Chloroethyl)ether	6.622	93	584519	41.908	ng	96
12) 1,3-Dichlorobenzene	6.828	146	671014	44.028	ng	100
13) 1,4-Dichlorobenzene	6.904	146	680898	44.340	ng	100
14) 1,2-Dichlorobenzene	7.057	146	656843	45.806	ng	98
15) Benzyl Alcohol	7.022	79	576121	42.099	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.157	45	771714	36.433	ng	96
17) 2-Methylphenol	7.134	107	520475	44.307	ng	99
18) Hexachloroethane	7.398	117	255823	44.509	ng	97
19) n-Nitroso-di-n-propyla...	7.298	70	446393	39.657	ng	97
20) 3+4-Methylphenols	7.281	107	638973	43.683	ng	93
22) Acetophenone	7.293	105	955429	47.133	ng	99
24) Nitrobenzene	7.463	77	682517	48.949	ng	100
25) Isophorone	7.704	82	1219271	43.587	ng	98
26) 2-Nitrophenol	7.781	139	334090	53.102	ng	97
27) 2,4-Dimethylphenol	7.810	122	564747	54.921	ng	99
28) bis(2-Chloroethoxy)met...	7.910	93	735247	41.203	ng	99
29) 2,4-Dichlorophenol	8.016	162	532866	44.919	ng	99
30) 1,2,4-Trichlorobenzene	8.104	180	579819	44.605	ng	100
31) Naphthalene	8.187	128	1846658	43.170	ng	99
32) Benzoic acid	7.928	122	455664	52.276	ng	99
33) 4-Chloroaniline	8.234	127	309388	19.726	ng	98
34) Hexachlorobutadiene	8.304	225	376266	46.581	ng	98
35) Caprolactam	8.598	113	191039m	52.349	ng	
36) 4-Chloro-3-methylphenol	8.710	107	583807	44.302	ng	98
37) 2-Methylnaphthalene	8.875	142	1173483	41.824	ng	100
38) 1-Methylnaphthalene	8.975	142	1154869	42.897	ng	100
40) 1,2,4,5-Tetrachloroben...	9.045	216	645530	48.928	ng	99
41) Hexachlorocyclopentadiene	9.034	237	868319	157.703	ng	99
43) 2,4,6-Trichlorophenol	9.151	196	400502	46.993	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
 Data File : BF141862.D
 Acq On : 06 Mar 2025 11:51
 Operator : RC/JU
 Sample : PB166982BS
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PB166982BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/07/2025
 Supervised By :Jagrut Upadhyay 03/07/2025

Quant Time: Mar 06 15:47:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 28 01:48:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	409928	48.574	ng	98
46) 1,1'-Biphenyl	9.339	154	1666460	47.926	ng	99
47) 2-Chloronaphthalene	9.369	162	1139340	44.395	ng	99
48) 2-Nitroaniline	9.457	65	361580	51.157	ng	96
49) Acenaphthylene	9.781	152	1799062	46.755	ng	99
50) Dimethylphthalate	9.645	163	1371047	44.817	ng	100
51) 2,6-Dinitrotoluene	9.704	165	301079	51.243	ng	92
52) Acenaphthene	9.957	154	1330436	51.243	ng	99
53) 3-Nitroaniline	9.869	138	204507	33.745	ng	# 94
54) 2,4-Dinitrophenol	9.975	184	360919	116.229	ng	# 1
55) Dibenzofuran	10.128	168	1621177	42.900	ng	100
56) 4-Nitrophenol	10.028	139	551414	122.039	ng	95
57) 2,4-Dinitrotoluene	10.104	165	415457	57.376	ng	95
58) Fluorene	10.469	166	1272097	44.940	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	354982	48.365	ng	99
60) Diethylphthalate	10.345	149	1341179	43.731	ng	100
61) 4-Chlorophenyl-phenyle...	10.463	204	636689	44.893	ng	99
62) 4-Nitroaniline	10.486	138	320025	61.255	ng	97
63) Azobenzene	10.622	77	1309765	40.561	ng	98
65) 4,6-Dinitro-2-methylph...	10.510	198	231430	59.852	ng	94
66) n-Nitrosodiphenylamine	10.581	169	1129867	43.596	ng	100
67) 4-Bromophenyl-phenylether	10.951	248	409102	44.376	ng	98
68) Hexachlorobenzene	11.016	284	460465	47.300	ng	97
69) Atrazine	11.104	200	456998	64.122	ng	100
70) Pentachlorophenol	11.210	266	603121	97.683	ng	100
71) Phenanthrene	11.433	178	1919079	45.456	ng	99
72) Anthracene	11.486	178	1936157	45.759	ng	100
73) Carbazole	11.633	167	1703875	45.601	ng	100
74) Di-n-butylphthalate	11.969	149	2042563	43.126	ng	100
75) Fluoranthene	12.616	202	2010701	46.480	ng	98
77) Benzidine	12.739	184	703765	104.868	ng	100
78) Pyrene	12.851	202	2033437	44.041	ng	99
80) Butylbenzylphthalate	13.463	149	779324	46.457	ng	98
81) Benzo(a)anthracene	14.033	228	1606850	45.626	ng	99
82) 3,3'-Dichlorobenzidine	13.992	252	287502	28.453	ng	99
83) Chrysene	14.069	228	1461304	45.012	ng	100
84) Bis(2-ethylhexyl)phtha...	14.022	149	973167	46.591	ng	99
85) Di-n-octyl phthalate	14.633	149	1411858	45.149	ng	97
87) Indeno(1,2,3-cd)pyrene	17.004	276	1400520	50.858	ng	97
88) Benzo(b)fluoranthene	15.080	252	1324873	44.975	ng	99
89) Benzo(k)fluoranthene	15.110	252	1110972	44.371	ng	99
90) Benzo(a)pyrene	15.451	252	1135461	48.062	ng	99
91) Dibenzo(a,h)anthracene	17.021	278	1121408	49.889	ng	97
92) Benzo(g,h,i)perylene	17.457	276	1098929	47.722	ng	97

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141862.D
Acq On : 06 Mar 2025 11:51
Operator : RC/JU
Sample : PB166982BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

PB166982BS

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/07/2025

Supervised By :Jagrut Upadhyay 03/07/2025

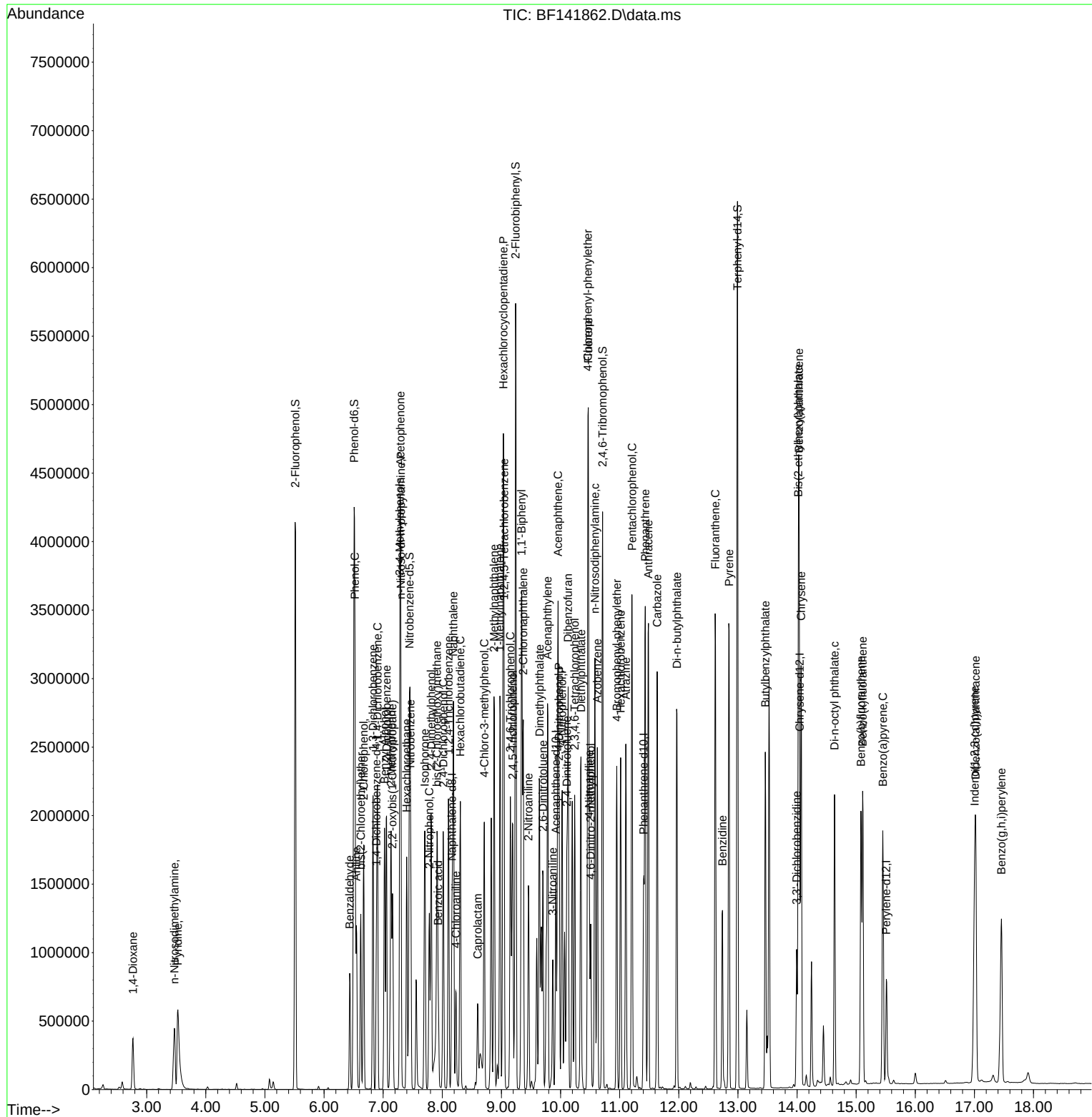
Quant Time: Mar 06 15:47:22 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Feb 28 01:48:16 2025

Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
 Data File : BF141860.D
 Acq On : 06 Mar 2025 10:52
 Operator : RC/JU
 Sample : PB166984BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

PB166984BS

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/07/2025

Supervised By :Jagrut Upadhyay 03/07/2025

Quant Time: Mar 06 15:49:19 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Feb 28 01:48:16 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	222677	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	860348	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	467040	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	801941	20.000	ng	0.00
76) Chrysene-d12	14.045	240	537472	20.000	ng	0.00
86) Perylene-d12	15.515	264	470320	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1701069	121.997	ng	0.02
7) Phenol-d6	6.510	99	2108392	116.173	ng	0.00
23) Nitrobenzene-d5	7.445	82	1408232	104.625	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	725902	165.555	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	2659506	91.306	ng	0.00
79) Terphenyl-d14	12.992	244	3153921	94.941	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.763	88	226101	35.737	ng	97
3) Pyridine	3.522	79	549854	34.929	ng	96
4) n-Nitrosodimethylamine	3.469	42	285971	37.755	ng	99
6) Aniline	6.551	93	522189	27.676	ng	99
8) 2-Chlorophenol	6.669	128	628313	41.655	ng	96
9) Benzaldehyde	6.434	77	225786	21.388	ng	99
10) Phenol	6.522	94	741067	38.212	ng	97
11) bis(2-Chloroethyl)ether	6.622	93	565937	38.283	ng	96
12) 1,3-Dichlorobenzene	6.828	146	656353	40.633	ng	99
13) 1,4-Dichlorobenzene	6.904	146	663658	40.775	ng	99
14) 1,2-Dichlorobenzene	7.057	146	641692	42.221	ng	99
15) Benzyl Alcohol	7.022	79	556826	38.390	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.157	45	756011	33.675	ng	96
17) 2-Methylphenol	7.134	107	501492	40.279	ng	98
18) Hexachloroethane	7.398	117	250476	41.116	ng	96
19) n-Nitroso-di-n-propyla...	7.298	70	427099	35.799	ng	98
20) 3+4-Methylphenols	7.281	107	621360	40.079	ng	94
22) Acetophenone	7.292	105	924853	44.138	ng	99
24) Nitrobenzene	7.463	77	656445	45.544	ng	100
25) Isophorone	7.704	82	1189358	41.131	ng	99
26) 2-Nitrophenol	7.781	139	317830	49.233	ng	98
27) 2,4-Dimethylphenol	7.810	122	545219	51.293	ng	99
28) bis(2-Chloroethoxy)met...	7.910	93	709782	38.479	ng	99
29) 2,4-Dichlorophenol	8.016	162	509337	41.536	ng	100
30) 1,2,4-Trichlorobenzene	8.104	180	565708	42.101	ng	99
31) Naphthalene	8.187	128	1798156	40.665	ng	99
32) Benzoic acid	7.928	122	436083	48.969	ng	98
33) 4-Chloroaniline	8.228	127	196072	12.093	ng	98
34) Hexachlorobutadiene	8.304	225	363439	43.526	ng	99
35) Caprolactam	8.598	113	181228m	48.041	ng	
36) 4-Chloro-3-methylphenol	8.710	107	555267	40.762	ng	97
37) 2-Methylnaphthalene	8.881	142	1136178	39.174	ng	100
38) 1-Methylnaphthalene	8.981	142	1106172	39.748	ng	99
40) 1,2,4,5-Tetrachloroben...	9.045	216	621149	46.050	ng	99
41) Hexachlorocyclopentadiene	9.034	237	830196	147.481	ng	100
43) 2,4,6-Trichlorophenol	9.151	196	381567	43.792	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
 Data File : BF141860.D
 Acq On : 06 Mar 2025 10:52
 Operator : RC/JU
 Sample : PB166984BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PB166984BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/07/2025
 Supervised By :Jagrut Upadhyay 03/07/2025

Quant Time: Mar 06 15:49:19 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 28 01:48:16 2025
 Response via : Initial Calibration

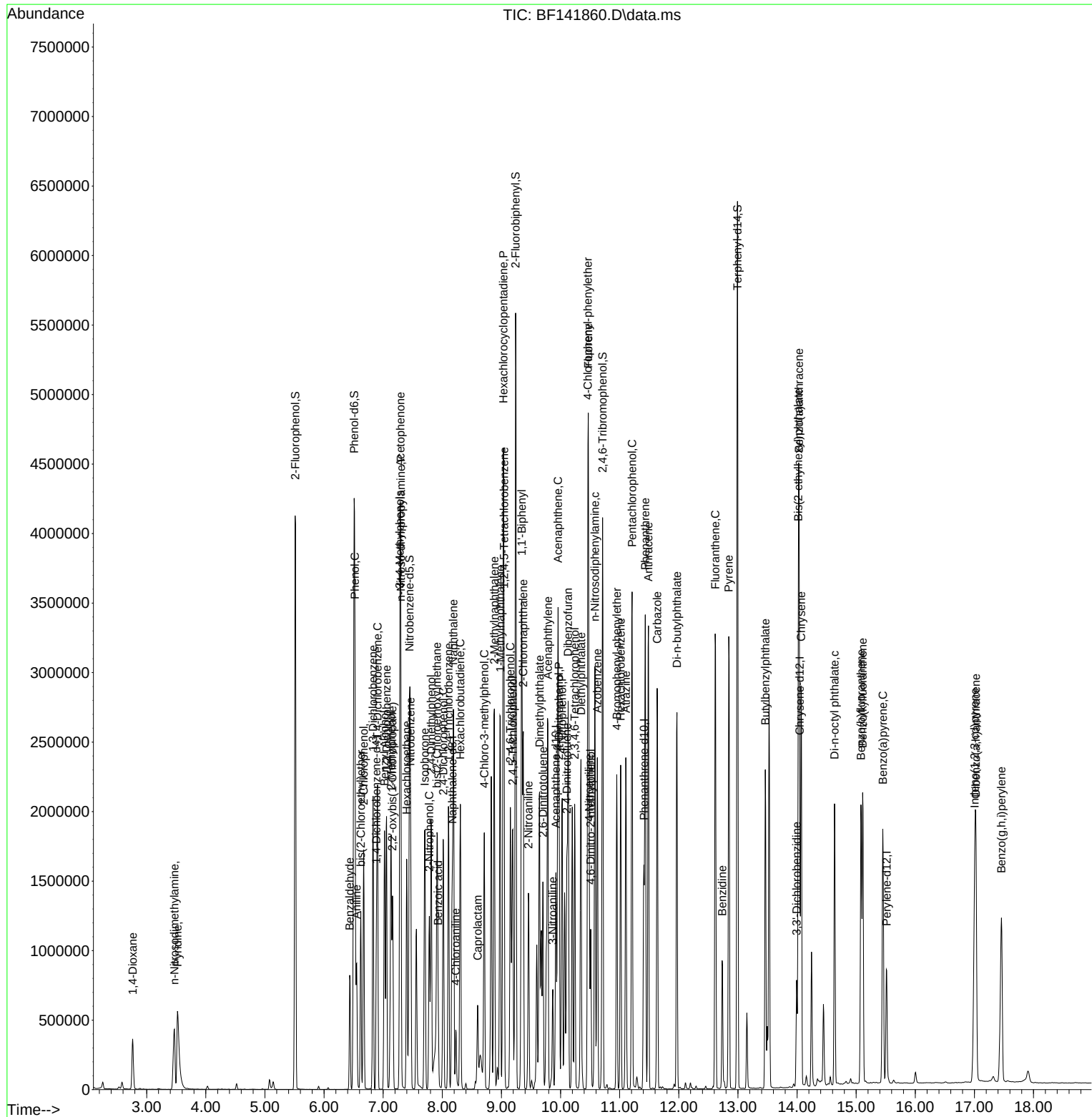
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	393469	45.604	ng	98
46) 1,1'-Biphenyl	9.345	154	1611215	45.323	ng	98
47) 2-Chloronaphthalene	9.369	162	1098889	41.882	ng	99
48) 2-Nitroaniline	9.457	65	341789	47.626	ng	97
49) Acenaphthylene	9.786	152	1713470	43.557	ng	99
50) Dimethylphthalate	9.645	163	1313815	42.006	ng	99
51) 2,6-Dinitrotoluene	9.704	165	288768	48.247	ng	92
52) Acenaphthene	9.957	154	1266215	47.702	ng	99
53) 3-Nitroaniline	9.869	138	153204	25.520	ng	# 95
54) 2,4-Dinitrophenol	9.975	184	346122	111.084	ng	# 1
55) Dibenzofuran	10.128	168	1544243	39.970	ng	99
56) 4-Nitrophenol	10.028	139	525883	113.842	ng	95
57) 2,4-Dinitrotoluene	10.104	165	401637	54.446	ng	95
58) Fluorene	10.469	166	1226351	42.376	ng	98
59) 2,3,4,6-Tetrachlorophenol	10.239	232	338195	45.070	ng	98
60) Diethylphthalate	10.345	149	1281425	40.869	ng	100
61) 4-Chlorophenyl-phenyle...	10.463	204	612702	42.256	ng	99
62) 4-Nitroaniline	10.486	138	293220	54.897	ng	97
63) Azobenzene	10.622	77	1253041	37.955	ng	99
65) 4,6-Dinitro-2-methylph...	10.510	198	220801	56.697	ng	93
66) n-Nitrosodiphenylamine	10.581	169	1071992	40.709	ng	100
67) 4-Bromophenyl-phenylether	10.951	248	391710	41.818	ng	98
68) Hexachlorobenzene	11.016	284	432837	43.759	ng	99
69) Atrazine	11.104	200	433249	59.829	ng	100
70) Pentachlorophenol	11.210	266	574113	91.516	ng	100
71) Phenanthrene	11.433	178	1812700	42.258	ng	100
72) Anthracene	11.486	178	1854922	43.146	ng	99
73) Carbazole	11.633	167	1634694	43.058	ng	100
74) Di-n-butylphthalate	11.969	149	1951706	40.557	ng	100
75) Fluoranthene	12.616	202	1922924	43.749	ng	98
77) Benzidine	12.733	184	493167	72.902	ng	100
78) Pyrene	12.845	202	1941461	41.714	ng	100
80) Butylbenzylphthalate	13.463	149	730230	43.184	ng	99
81) Benzo(a)anthracene	14.033	228	1506856	42.445	ng	100
82) 3,3'-Dichlorobenzidine	13.992	252	219648	21.565	ng	99
83) Chrysene	14.069	228	1403466	42.886	ng	99
84) Bis(2-ethylhexyl)phtha...	14.021	149	932426	44.285	ng	100
85) Di-n-octyl phthalate	14.633	149	1360035	43.146	ng	97
87) Indeno(1,2,3-cd)pyrene	17.004	276	1416313	47.292	ng	97
88) Benzo(b)fluoranthene	15.080	252	1297204	40.491	ng	99
89) Benzo(k)fluoranthene	15.110	252	1099133	40.365	ng	99
90) Benzo(a)pyrene	15.451	252	1136844	44.247	ng	99
91) Dibenzo(a,h)anthracene	17.027	278	1137230	46.521	ng	97
92) Benzo(g,h,i)perylene	17.457	276	1105086	44.126	ng	97

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

Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
 Data File : BF141863.D
 Acq On : 06 Mar 2025 12:21
 Operator : RC/JU
 Sample : PB166982BSD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PB166982BSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/07/2025
 Supervised By :Jagrut Upadhyay 03/07/2025

Quant Time: Mar 06 13:20:09 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 28 01:48:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	218542	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	850562	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	458462	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	790298	20.000	ng	0.00
76) Chrysene-d12	14.045	240	569230	20.000	ng	0.00
86) Perylene-d12	15.516	264	468514	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1752700	128.078	ng	0.02
7) Phenol-d6	6.510	99	2176919	122.218	ng	0.00
23) Nitrobenzene-d5	7.445	82	1444229	108.534	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	749833	174.213	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	2687024	93.977	ng	0.00
79) Terphenyl-d14	12.992	244	3345532	95.090	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.799	88	245824	39.589	ng	96
3) Pyridine	3.552	79	597312	38.662	ng	96
4) n-Nitrosodimethylamine	3.499	42	308594	41.513	ng	# 98
6) Aniline	6.546	93	674037	36.400	ng	100
8) 2-Chlorophenol	6.669	128	662613	44.760	ng	95
9) Benzaldehyde	6.434	77	238789	23.047	ng	100
10) Phenol	6.522	94	792480	41.636	ng	96
11) bis(2-Chloroethyl)ether	6.622	93	596528	41.116	ng	97
12) 1,3-Dichlorobenzene	6.828	146	691448	43.615	ng	99
13) 1,4-Dichlorobenzene	6.904	146	705397	44.160	ng	99
14) 1,2-Dichlorobenzene	7.057	146	671122	44.993	ng	99
15) Benzyl Alcohol	7.022	79	591716	41.567	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	773514	35.106	ng	96
17) 2-Methylphenol	7.134	107	527893	43.202	ng	99
18) Hexachloroethane	7.398	117	267400	44.725	ng	98
19) n-Nitroso-di-n-propyla...	7.298	70	450272	38.456	ng	98
20) 3+4-Methylphenols	7.281	107	650789	42.771	ng	94
22) Acetophenone	7.293	105	970026	46.826	ng	99
24) Nitrobenzene	7.463	77	690687	48.471	ng	100
25) Isophorone	7.704	82	1232538	43.115	ng	98
26) 2-Nitrophenol	7.781	139	343487	53.396	ng	97
27) 2,4-Dimethylphenol	7.810	122	566807	53.938	ng	98
28) bis(2-Chloroethoxy)met...	7.910	93	731505	40.113	ng	100
29) 2,4-Dichlorophenol	8.016	162	540126	44.554	ng	99
30) 1,2,4-Trichlorobenzene	8.104	180	590826	44.476	ng	99
31) Naphthalene	8.187	128	1884687	43.113	ng	99
32) Benzoic acid	7.934	122	460651	51.796	ng	98
33) 4-Chloroaniline	8.234	127	321805	20.077	ng	98
34) Hexachlorobutadiene	8.304	225	384615	46.592	ng	98
35) Caprolactam	8.598	113	188248m	50.476	ng	
36) 4-Chloro-3-methylphenol	8.710	107	591369	43.912	ng	98
37) 2-Methylnaphthalene	8.881	142	1181958	41.221	ng	99
38) 1-Methylnaphthalene	8.975	142	1150355	41.811	ng	99
40) 1,2,4,5-Tetrachloroben...	9.045	216	651413	49.197	ng	99
41) Hexachlorocyclopentadiene	9.034	237	859046	155.461	ng	99
43) 2,4,6-Trichlorophenol	9.151	196	401927	46.992	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
 Data File : BF141863.D
 Acq On : 06 Mar 2025 12:21
 Operator : RC/JU
 Sample : PB166982BSD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PB166982BSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/07/2025
 Supervised By :Jagrut Upadhyay 03/07/2025

Quant Time: Mar 06 13:20:09 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 28 01:48:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	413188	48.786	ng	98
46) 1,1'-Biphenyl	9.339	154	1676041	48.029	ng	99
47) 2-Chloronaphthalene	9.369	162	1141918	44.336	ng	99
48) 2-Nitroaniline	9.457	65	364440	51.359	ng	97
49) Acenaphthylene	9.781	152	1786900	46.273	ng	99
50) Dimethylphthalate	9.639	163	1369183	44.596	ng	100
51) 2,6-Dinitrotoluene	9.704	165	304076	51.550	ng	92
52) Acenaphthene	9.957	154	1328050	50.968	ng	99
53) 3-Nitroaniline	9.869	138	211617	34.701	ng	# 93
54) 2,4-Dinitrophenol	9.975	184	367510	117.425	ng	# 1
55) Dibenzofuran	10.128	168	1607693	42.391	ng	100
56) 4-Nitrophenol	10.028	139	553259	122.009	ng	95
57) 2,4-Dinitrotoluene	10.104	165	417704	57.474	ng	96
58) Fluorene	10.469	166	1265412	44.544	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	358697	48.696	ng	99
60) Diethylphthalate	10.345	149	1328398	43.160	ng	100
61) 4-Chlorophenyl-phenyle...	10.463	204	629150	44.202	ng	99
62) 4-Nitroaniline	10.486	138	319616	60.958	ng	98
63) Azobenzene	10.622	77	1289983	39.805	ng	98
65) 4,6-Dinitro-2-methylph...	10.510	198	230269	59.526	ng	94
66) n-Nitrosodiphenylamine	10.581	169	1115654	42.991	ng	99
67) 4-Bromophenyl-phenylether	10.951	248	400867	43.426	ng	98
68) Hexachlorobenzene	11.016	284	455692	46.749	ng	98
69) Atrazine	11.104	200	454566	63.698	ng	99
70) Pentachlorophenol	11.210	266	601294	97.260	ng	100
71) Phenanthrene	11.433	178	1923192	45.494	ng	99
72) Anthracene	11.486	178	1952460	46.084	ng	100
73) Carbazole	11.633	167	1736199	46.406	ng	100
74) Di-n-butylphthalate	11.969	149	2025906	42.719	ng	100
75) Fluoranthene	12.616	202	2053372	47.405	ng	98
77) Benzidine	12.739	184	799850	111.640	ng	100
78) Pyrene	12.845	202	2085318	42.306	ng	100
80) Butylbenzylphthalate	13.463	149	818517	45.705	ng	98
81) Benzo(a)anthracene	14.033	228	1676262	44.583	ng	100
82) 3,3'-Dichlorobenzidine	13.992	252	320647	29.725	ng	99
83) Chrysene	14.069	228	1549956	44.720	ng	99
84) Bis(2-ethylhexyl)phtha...	14.022	149	1045650	46.892	ng	99
85) Di-n-octyl phthalate	14.633	149	1528127	45.774	ng	96
87) Indeno(1,2,3-cd)pyrene	17.004	276	1350529	45.269	ng	97
88) Benzo(b)fluoranthene	15.080	252	1402993	43.962	ng	100
89) Benzo(k)fluoranthene	15.116	252	1224702	45.150	ng	98
90) Benzo(a)pyrene	15.451	252	1215083	47.474	ng	99
91) Dibenzo(a,h)anthracene	17.021	278	1095175	44.973	ng	97
92) Benzo(g,h,i)perylene	17.457	276	1042057	41.770	ng	97

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

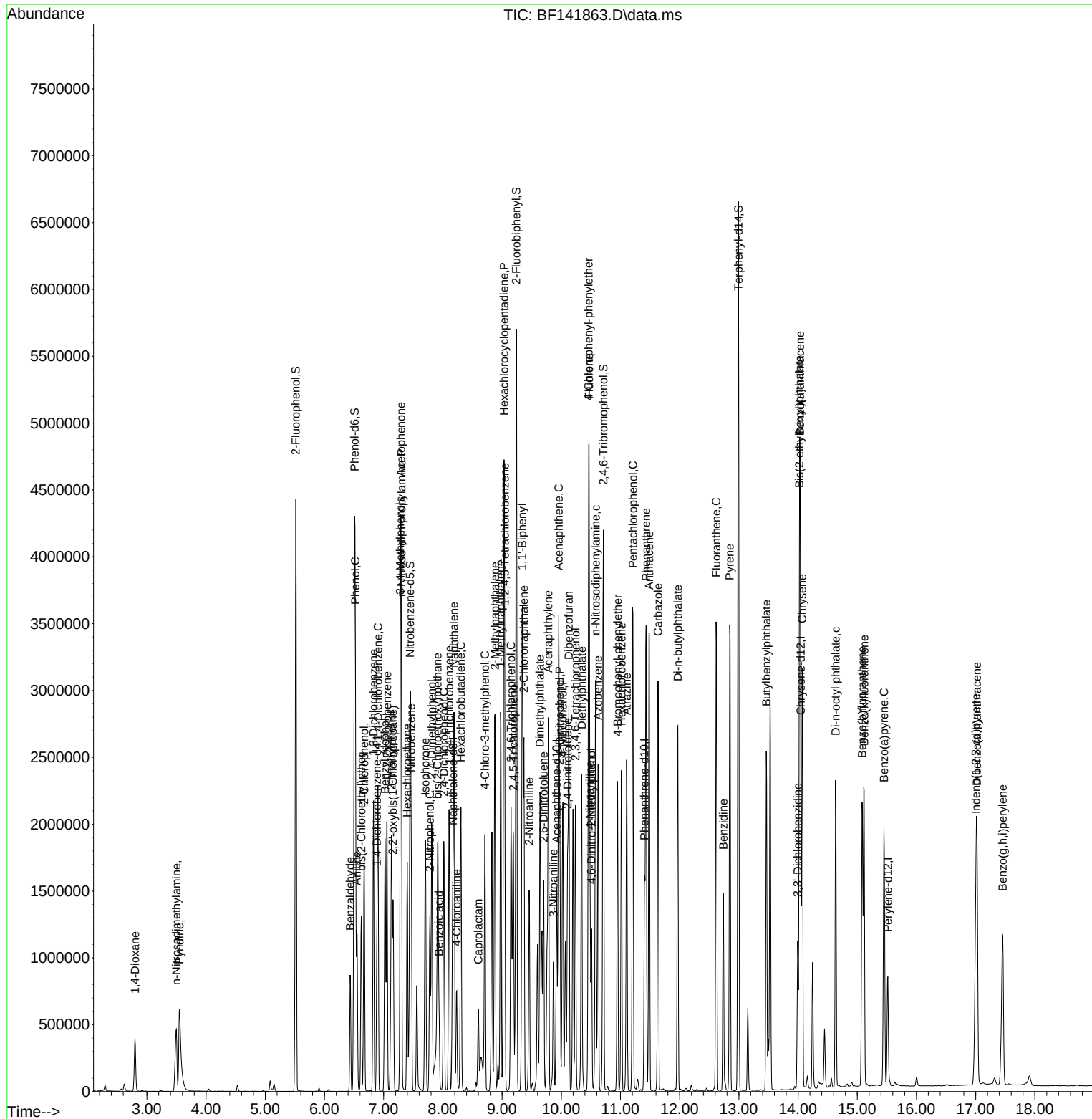
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141863.D
Acq On : 06 Mar 2025 12:21
Operator : RC/JU
Sample : PB166982BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166982BSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

Quant Time: Mar 06 13:20:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
 Data File : BF141844.D
 Acq On : 05 Mar 2025 15:21
 Operator : RC/JU
 Sample : Q1487-01MS
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DN-B-42MS

Quant Time: Mar 05 15:58:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 28 01:48:16 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/06/2025
 Supervised By :Jagrut Upadhyay 03/06/2025

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	192210	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	734232	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	370025	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	565314	20.000	ng	0.00
76) Chrysene-d12	14.039	240	409462	20.000	ng	-0.01
86) Perylene-d12	15.509	264	473342	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	1284833	106.751	ng	0.00
7) Phenol-d6	6.504	99	1597457	101.972	ng	0.00
23) Nitrobenzene-d5	7.445	82	1004018	87.407	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	393680	113.326	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1691234	73.287	ng	0.00
79) Terphenyl-d14	12.986	244	1404647	55.502	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.710	88	228610	41.861	ng	98
3) Pyridine	3.475	79	539964	39.738	ng	98
4) n-Nitrosodimethylamine	3.416	42	280375	42.884	ng	95
6) Aniline	6.545	93	612696	37.620	ng	100
8) 2-Chlorophenol	6.669	128	564761	43.377	ng	97
9) Benzaldehyde	6.434	77	204683	22.462	ng	99
10) Phenol	6.522	94	725989	43.368	ng	98
11) bis(2-Chloroethyl)ether	6.622	93	526773	41.282	ng	96
12) 1,3-Dichlorobenzene	6.828	146	593769	42.585	ng	100
13) 1,4-Dichlorobenzene	6.904	146	605338	43.087	ng	99
14) 1,2-Dichlorobenzene	7.057	146	577487	44.019	ng	98
15) Benzyl Alcohol	7.022	79	492984	39.376	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	729509	37.645	ng	100
17) 2-Methylphenol	7.128	107	448607	41.743	ng	100
18) Hexachloroethane	7.398	117	223054	42.419	ng	99
19) n-Nitroso-di-n-propyla...	7.292	70	384941	37.380	ng	98
20) 3+4-Methylphenols	7.281	107	568592	42.489	ng	96
22) Acetophenone	7.292	105	827134	46.254	ng	97
24) Nitrobenzene	7.463	77	588435	47.838	ng	99
25) Isophorone	7.704	82	1023670	41.482	ng	98
26) 2-Nitrophenol	7.780	139	272681	49.470	ng	98
27) 2,4-Dimethylphenol	7.810	122	475901	52.462	ng	99
28) bis(2-Chloroethoxy)met...	7.910	93	615055	39.071	ng	100
29) 2,4-Dichlorophenol	8.016	162	443054	42.337	ng	99
30) 1,2,4-Trichlorobenzene	8.104	180	484159	42.221	ng	99
31) Naphthalene	8.186	128	1565470	41.484	ng	99
32) Benzoic acid	7.910	122	353009m	46.845	ng	
33) 4-Chloroaniline	8.233	127	332297	24.016	ng	98
34) Hexachlorobutadiene	8.304	225	301524	42.314	ng	99
35) Caprolactam	8.592	113	165832	51.511	ng	93
36) 4-Chloro-3-methylphenol	8.704	107	477385	41.065	ng	99
37) 2-Methylnaphthalene	8.880	142	971643	39.255	ng	100
38) 1-Methylnaphthalene	8.975	142	949369	39.973	ng	99
40) 1,2,4,5-Tetrachloroben...	9.045	216	515221	48.211	ng	99
41) Hexachlorocyclopentadiene	9.033	237	565053	126.697	ng	99
43) 2,4,6-Trichlorophenol	9.151	196	313746	45.449	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
 Data File : BF141844.D
 Acq On : 05 Mar 2025 15:21
 Operator : RC/JU
 Sample : Q1487-01MS
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DN-B-42MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/06/2025
 Supervised By :Jagrut Upadhyay 03/06/2025

Quant Time: Mar 05 15:58:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 28 01:48:16 2025
 Response via : Initial Calibration

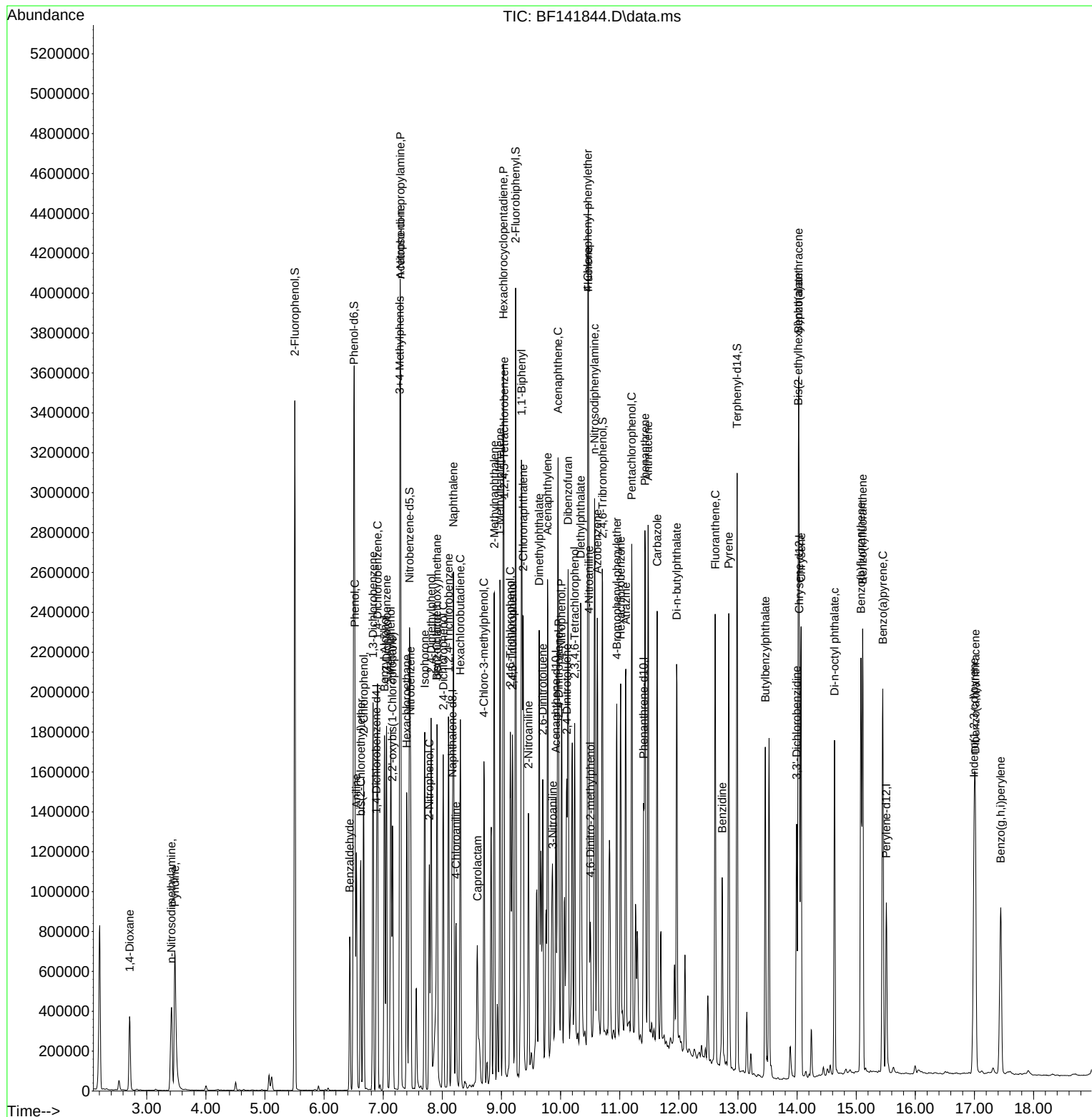
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	323494	47.324	ng	99
46) 1,1'-Biphenyl	9.339	154	1353556	48.058	ng	99
47) 2-Chloronaphthalene	9.369	162	928972	44.688	ng	98
48) 2-Nitroaniline	9.457	65	291855	50.994	ng	95
49) Acenaphthylene	9.780	152	1433535	45.995	ng	99
50) Dimethylphthalate	9.639	163	1048895	42.329	ng	100
51) 2,6-Dinitrotoluene	9.698	165	232333	48.952	ng	95
52) Acenaphthene	9.957	154	954639	45.394	ng	99
53) 3-Nitroaniline	9.869	138	173093	35.128	ng	# 91
54) 2,4-Dinitrophenol	9.969	184	147123	70.645	ng	# 20
55) Dibenzofuran	10.127	168	1269599	41.477	ng	98
56) 4-Nitrophenol	10.016	139	401998	109.840	ng	99
57) 2,4-Dinitrotoluene	10.104	165	310411	53.198	ng	92
58) Fluorene	10.469	166	971273	42.361	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	259524m	43.653	ng	
60) Diethylphthalate	10.339	149	991255	39.903	ng	99
61) 4-Chlorophenyl-phenyle...	10.463	204	470028	40.915	ng	98
62) 4-Nitroaniline	10.480	138	215910	51.021	ng	96
63) Azobenzene	10.621	77	1080202	41.298	ng	95
65) 4,6-Dinitro-2-methylph...	10.504	198	102419	40.086	ng	98
66) n-Nitrosodiphenylamine	10.574	169	861837	46.428	ng	99
67) 4-Bromophenyl-phenylether	10.951	248	288947	43.759	ng	98
68) Hexachlorobenzene	11.016	284	314028	45.037	ng	98
69) Atrazine	11.104	200	317462	62.190	ng	99
70) Pentachlorophenol	11.204	266	374526	84.690	ng	99
71) Phenanthrene	11.427	178	1360847	45.003	ng	99
72) Anthracene	11.480	178	1381172	45.574	ng	99
73) Carbazole	11.633	167	1177198	43.987	ng	99
74) Di-n-butylphthalate	11.963	149	1357104	40.005	ng	99
75) Fluoranthene	12.615	202	1240933	40.050	ng	98
77) Benzidine	12.733	184	496999	96.436	ng	100
78) Pyrene	12.845	202	1269067	35.792	ng	99
80) Butylbenzylphthalate	13.462	149	469636	36.456	ng	97
81) Benzo(a)anthracene	14.027	228	1232226	45.561	ng	99
82) 3,3'-Dichlorobenzidine	13.992	252	369769	47.653	ng	100
83) Chrysene	14.068	228	1062387	42.613	ng	99
84) Bis(2-ethylhexyl)phtha...	14.021	149	600275	37.423	ng	100
85) Di-n-octyl phthalate	14.633	149	1108571	46.163	ng	98
87) Indeno(1,2,3-cd)pyrene	16.992	276	1050463	34.852	ng	98
88) Benzo(b)fluoranthene	15.080	252	1389072	43.082	ng	100
89) Benzo(k)fluoranthene	15.109	252	1085392	39.606	ng	99
90) Benzo(a)pyrene	15.451	252	1182996	45.749	ng	99
91) Dibenzo(a,h)anthracene	17.015	278	863598	35.102	ng	98
92) Benzo(g,h,i)perylene	17.445	276	737995	29.280	ng	99

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

Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jaqrut Upadhyay 03/06/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
 Data File : BF141845.D
 Acq On : 05 Mar 2025 15:51
 Operator : RC/JU
 Sample : Q1487-01MSD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

DN-B-42MSD

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/06/2025

Supervised By :Jagrut Upadhyay 03/06/2025

Quant Time: Mar 05 16:12:53 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Feb 28 01:48:16 2025

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	191311	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	731999	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	367233	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	575333	20.000	ng	0.00
76) Chrysene-d12	14.039	240	414755	20.000	ng	-0.01
86) Perylene-d12	15.509	264	465047	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	1301485	108.643	ng	0.00
7) Phenol-d6	6.504	99	1625710	104.263	ng	0.00
23) Nitrobenzene-d5	7.445	82	1029379	89.888	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	402954	116.878	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1718796	75.048	ng	0.00
79) Terphenyl-d14	12.986	244	1459806	56.946	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.710	88	228087	41.961	ng	99
3) Pyridine	3.475	79	547422	40.476	ng	98
4) n-Nitrosodimethylamine	3.416	42	283179	43.516	ng	97
6) Aniline	6.545	93	629942	38.861	ng	100
8) 2-Chlorophenol	6.669	128	575056	44.375	ng	96
9) Benzaldehyde	6.434	77	206651	22.785	ng	98
10) Phenol	6.522	94	741516	44.504	ng	97
11) bis(2-Chloroethyl)ether	6.622	93	531330	41.835	ng	97
12) 1,3-Dichlorobenzene	6.828	146	603684	43.499	ng	99
13) 1,4-Dichlorobenzene	6.904	146	616390	44.080	ng	99
14) 1,2-Dichlorobenzene	7.057	146	583334	44.674	ng	98
15) Benzyl Alcohol	7.022	79	497324	39.909	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.157	45	733553	38.031	ng	99
17) 2-Methylphenol	7.128	107	454751	42.513	ng	100
18) Hexachloroethane	7.398	117	224314	42.859	ng	99
19) n-Nitroso-di-n-propyla...	7.292	70	390439	38.092	ng	99
20) 3+4-Methylphenols	7.281	107	581786	43.679	ng	97
22) Acetophenone	7.292	105	842821	47.275	ng	98
24) Nitrobenzene	7.463	77	598766	48.826	ng	99
25) Isophorone	7.704	82	1045129	42.481	ng	99
26) 2-Nitrophenol	7.781	139	281708	51.099	ng	99
27) 2,4-Dimethylphenol	7.810	122	484864	53.613	ng	99
28) bis(2-Chloroethoxy)met...	7.910	93	621875	39.625	ng	99
29) 2,4-Dichlorophenol	8.016	162	452566	43.378	ng	99
30) 1,2,4-Trichlorobenzene	8.104	180	495020	43.300	ng	98
31) Naphthalene	8.186	128	1597999	42.475	ng	99
32) Benzoic acid	7.910	122	356667m	47.372	ng	
33) 4-Chloroaniline	8.233	127	347428	25.186	ng	98
34) Hexachlorobutadiene	8.304	225	307767	43.322	ng	98
35) Caprolactam	8.592	113	165656	51.613	ng	97
36) 4-Chloro-3-methylphenol	8.704	107	485311	41.874	ng	99
37) 2-Methylnaphthalene	8.880	142	980751	39.744	ng	99
38) 1-Methylnaphthalene	8.975	142	970185	40.974	ng	99
40) 1,2,4,5-Tetrachloroben...	9.045	216	524773	49.478	ng	99
41) Hexachlorocyclopentadiene	9.033	237	568656	128.474	ng	100
43) 2,4,6-Trichlorophenol	9.151	196	320323	46.755	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
 Data File : BF141845.D
 Acq On : 05 Mar 2025 15:51
 Operator : RC/JU
 Sample : Q1487-01MSD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

DN-B-42MSD

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/06/2025

Supervised By :Jagrut Upadhyay 03/06/2025

Quant Time: Mar 05 16:12:53 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Feb 28 01:48:16 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	326554	48.135	ng	99
46) 1,1'-Biphenyl	9.339	154	1381301	49.416	ng	99
47) 2-Chloronaphthalene	9.369	162	939307	45.529	ng	98
48) 2-Nitroaniline	9.457	65	301849	52.958	ng	97
49) Acenaphthylene	9.780	152	1444944	46.713	ng	100
50) Dimethylphthalate	9.639	163	1069323	43.481	ng	99
51) 2,6-Dinitrotoluene	9.698	165	235755	49.987	ng	96
52) Acenaphthene	9.957	154	980429	46.974	ng	99
53) 3-Nitroaniline	9.869	138	179159	36.508	ng	# 94
54) 2,4-Dinitrophenol	9.969	184	153518	73.318	ng	# 18
55) Dibenzofuran	10.127	168	1289752	42.456	ng	98
56) 4-Nitrophenol	10.016	139	414529	114.125	ng	99
57) 2,4-Dinitrotoluene	10.104	165	323093	55.621	ng	91
58) Fluorene	10.469	166	986733	43.363	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	269777	45.723	ng	98
60) Diethylphthalate	10.339	149	1010574	40.990	ng	100
61) 4-Chlorophenyl-phenyle...	10.463	204	482285	42.302	ng	99
62) 4-Nitroaniline	10.480	138	222496	52.977	ng	96
63) Azobenzene	10.622	77	1103992	42.529	ng	95
65) 4,6-Dinitro-2-methylph...	10.510	198	112278	42.552	ng	92
66) n-Nitrosodiphenylamine	10.574	169	874306	46.279	ng	100
67) 4-Bromophenyl-phenylether	10.951	248	299369	44.548	ng	97
68) Hexachlorobenzene	11.016	284	318600	44.897	ng	99
69) Atrazine	11.104	200	327584	63.055	ng	98
70) Pentachlorophenol	11.204	266	378895	84.186	ng	99
71) Phenanthrene	11.427	178	1401406	45.538	ng	99
72) Anthracene	11.480	178	1410204	45.722	ng	99
73) Carbazole	11.633	167	1207332	44.327	ng	99
74) Di-n-butylphthalate	11.963	149	1415465	40.999	ng	100
75) Fluoranthene	12.616	202	1296948	41.129	ng	98
77) Benzidine	12.733	184	567942	108.795	ng	99
78) Pyrene	12.845	202	1302790	36.274	ng	99
80) Butylbenzylphthalate	13.463	149	493506	37.820	ng	98
81) Benzo(a)anthracene	14.033	228	1246967	45.518	ng	100
82) 3,3'-Dichlorobenzidine	13.992	252	378006	48.093	ng	100
83) Chrysene	14.068	228	1103430	43.694	ng	99
84) Bis(2-ethylhexyl)phtha...	14.021	149	628755	38.698	ng	100
85) Di-n-octyl phthalate	14.633	149	1135656	46.687	ng	98
87) Indeno(1,2,3-cd)pyrene	16.992	276	1039862	35.115	ng	98
88) Benzo(b)fluoranthene	15.080	252	1433060	45.239	ng	99
89) Benzo(k)fluoranthene	15.109	252	1063202	39.488	ng	99
90) Benzo(a)pyrene	15.451	252	1186012	46.684	ng	99
91) Dibenzo(a,h)anthracene	17.015	278	871243	36.044	ng	98
92) Benzo(g,h,i)perylene	17.445	276	735371	29.696	ng	98

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

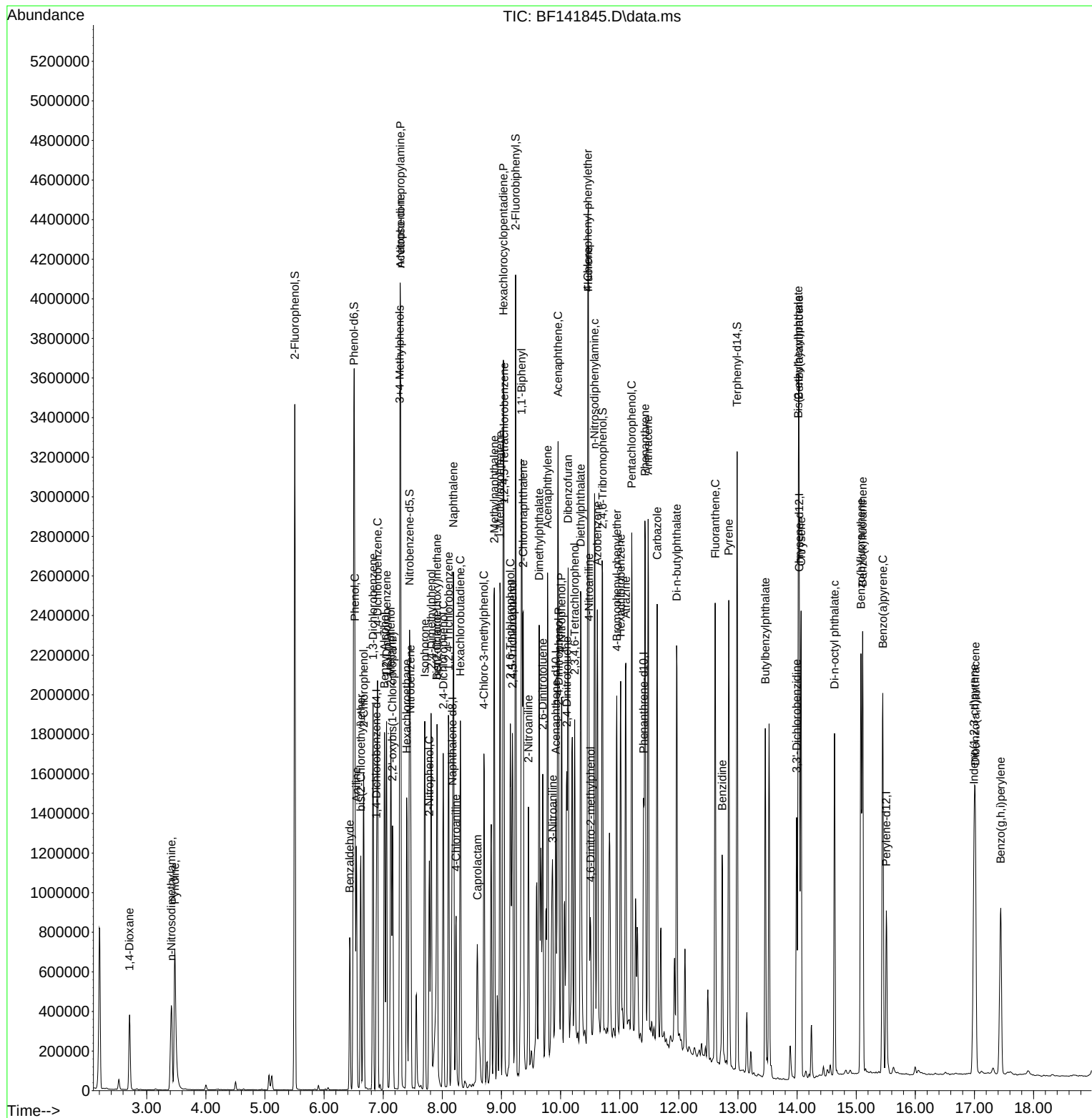

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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\  
Data File : BF141845.D  
Acq On    : 05 Mar 2025   15:51  
Operator  : RC/JU  
Sample    : Q1487-01MSD  
Misc      :  
ALS Vial  : 12    Sample Multiplier: 1
```

Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jaqrut Upadhyay 03/06/2025

Quant Time: Mar 05 16:12:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	BF022725	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BF141794.D	Aniline	yogesh	2/28/2025 7:30:31 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC005	BF141794.D	Phenol	yogesh	2/28/2025 7:30:31 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC010	BF141795.D	Phenol	yogesh	2/28/2025 7:30:34 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC020	BF141796.D	Phenol	yogesh	2/28/2025 7:30:37 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICCC040	BF141797.D	Caprolactam	yogesh	2/28/2025 7:30:40 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC080	BF141800.D	Aniline	yogesh	2/28/2025 7:30:43 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC080	BF141800.D	Phenol	yogesh	2/28/2025 7:30:43 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	BF030525	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1488-09	BF141843.D	Benzo(b)fluoranthene	anahy	3/6/2025 9:38:56 AM	Jagrut	3/6/2025 5:47:27 PM	Peak Integrated by Software
Q1487-01MS	BF141844.D	2,3,4,6-Tetrachlorophen ol	anahy	3/6/2025 9:40:25 AM	Jagrut	3/6/2025 5:47:30 PM	Peak Integrated by Software
Q1487-01MS	BF141844.D	Benzoic acid	anahy	3/6/2025 9:40:25 AM	Jagrut	3/6/2025 5:47:30 PM	Peak Integrated by Software
Q1487-01MSD	BF141845.D	Benzoic acid	anahy	3/6/2025 9:41:20 AM	Jagrut	3/6/2025 5:47:33 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	bf030625	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB166984BS	BF141860.D	Caprolactam	anahy	3/7/2025 8:45:51 AM	Jagrut	3/7/2025 9:42:46 AM	Peak Integrated by Software
PB166982BS	BF141862.D	Benzidine	anahy	3/7/2025 8:56:09 AM	Jagrut	3/7/2025 9:42:50 AM	Peak Integrated by Software
PB166982BS	BF141862.D	Caprolactam	anahy	3/7/2025 8:56:09 AM	Jagrut	3/7/2025 9:42:50 AM	Peak Integrated by Software
PB166982BSD	BF141863.D	Caprolactam	anahy	3/7/2025 8:56:52 AM	Jagrut	3/7/2025 9:42:52 AM	Peak Integrated by Software

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF022725

Review By	yogesh	Review On	2/28/2025 7:30:58 AM
Supervise By	mohammad	Supervise On	2/28/2025 7:32:51 AM
SubDirectory	BF022725	HP Acquire Method	BNA_F
		HP Processing Method	bf022725
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729		
CCC	SP6725		
Internal Standard/PEM	S12653,10ul/1000ul sample		
ICV/I.BLK	SP6686		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141792.D	27 Feb 2025 14:47	RC/JU	Ok
2	SSTDICC2.5	BF141793.D	27 Feb 2025 15:17	RC/JU	Ok
3	SSTDICC005	BF141794.D	27 Feb 2025 15:46	RC/JU	Ok,M
4	SSTDICC010	BF141795.D	27 Feb 2025 16:16	RC/JU	Ok,M
5	SSTDICC020	BF141796.D	27 Feb 2025 16:46	RC/JU	Ok,M
6	SSTDICCC040	BF141797.D	27 Feb 2025 17:16	RC/JU	Ok,M
7	SSTDICC050	BF141798.D	27 Feb 2025 17:46	RC/JU	Ok
8	SSTDICC060	BF141799.D	27 Feb 2025 18:15	RC/JU	Ok
9	SSTDICC080	BF141800.D	27 Feb 2025 18:45	RC/JU	Ok,M
10	SSTDICV040	BF141801.D	27 Feb 2025 19:45	RC/JU	Ok
11	PB166879TB	BF141802.D	27 Feb 2025 20:44	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF030525

Review By	anahy	Review On	3/6/2025 9:48:03 AM
Supervise By	Jagrut	Supervise On	3/6/2025 5:48:04 PM
SubDirectory	BF030525	HP Acquire Method	BNA_F
		HP Processing Method	bf022725
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729		
CCC	SP6725		
Internal Standard/PEM	S12653,10ul/1000ul sample		
ICV/I.BLK	SP6686		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141834.D	05 Mar 2025 09:40	RC/JU	Ok
2	SSTDCCC040	BF141835.D	05 Mar 2025 10:09	RC/JU	Ok
3	PB166970BL	BF141836.D	05 Mar 2025 10:39	RC/JU	Ok
4	PB166970BS	BF141837.D	05 Mar 2025 11:09	RC/JU	Ok,M
5	Q1480-17DL	BF141838.D	05 Mar 2025 11:45	RC/JU	Ok
6	Q1480-01DL	BF141839.D	05 Mar 2025 12:15	RC/JU	Ok,M
7	Q1489-13	BF141840.D	05 Mar 2025 13:24	RC/JU	Ok
8	Q1488-11	BF141841.D	05 Mar 2025 13:53	RC/JU	Ok
9	Q1488-05	BF141842.D	05 Mar 2025 14:23	RC/JU	Ok
10	Q1488-09	BF141843.D	05 Mar 2025 14:52	RC/JU	Ok,M
11	Q1487-01MS	BF141844.D	05 Mar 2025 15:21	RC/JU	Ok,M
12	Q1487-01MSD	BF141845.D	05 Mar 2025 15:51	RC/JU	Ok,M
13	Q1487-01	BF141846.D	05 Mar 2025 16:21	RC/JU	Ok
14	Q1488-03	BF141847.D	05 Mar 2025 16:50	RC/JU	Ok
15	Q1485-01	BF141848.D	05 Mar 2025 17:20	RC/JU	Ok
16	Q1480-33	BF141849.D	05 Mar 2025 17:50	RC/JU	Ok
17	Q1489-09	BF141850.D	05 Mar 2025 18:20	RC/JU	Ok
18	Q1489-01	BF141851.D	05 Mar 2025 18:50	RC/JU	Ok,M
19	Q1484-01	BF141852.D	05 Mar 2025 19:20	RC/JU	Dilution
20	Q1486-01	BF141853.D	05 Mar 2025 19:50	RC/JU	Ok,M
21	Q1489-05	BF141854.D	05 Mar 2025 20:20	RC/JU	ReRun

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF030525

Review By	anahy	Review On	3/6/2025 9:48:03 AM		
Supervise By	Jagrut	Supervise On	3/6/2025 5:48:04 PM		
SubDirectory	BF030525	HP Acquire Method	BNA_F	HP Processing Method	bf022725
STD. NAME		STD REF.#			
Tune/Reschk		SP6717			
Initial Calibration Stds		SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729			
CCC		SP6725			
Internal Standard/PEM		S12653,10ul/1000ul sample			
ICV/I.BLK		SP6686			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1481-01	BF141855.D	05 Mar 2025 20:50	RC/JU	Ok
23	Q1482-01	BF141856.D	05 Mar 2025 21:20	RC/JU	Ok,M

M : Manual Integration

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF030625

Review By	anahy	Review On	3/7/2025 9:16:56 AM
Supervise By	Jagrut	Supervise On	3/7/2025 9:43:33 AM
SubDirectory	BF030625	HP Acquire Method	BNA_F
		HP Processing Method	bf022725
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729		
CCC	SP6725		
Internal Standard/PEM	S12653,10ul/1000ul sample		
ICV/I.BLK	SP6686		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141857.D	06 Mar 2025 08:34	RC/JU	Ok
2	SSTDCCC040	BF141858.D	06 Mar 2025 09:52	RC/JU	Ok
3	PB166984BL	BF141859.D	06 Mar 2025 10:22	RC/JU	Ok
4	PB166984BS	BF141860.D	06 Mar 2025 10:52	RC/JU	Ok,M
5	PB166982BL	BF141861.D	06 Mar 2025 11:21	RC/JU	Ok
6	PB166982BS	BF141862.D	06 Mar 2025 11:51	RC/JU	Ok,M
7	PB166982BSD	BF141863.D	06 Mar 2025 12:21	RC/JU	Ok,M
8	Q1488-07	BF141864.D	06 Mar 2025 13:01	RC/JU	Ok
9	Q1488-01	BF141865.D	06 Mar 2025 13:31	RC/JU	Ok
10	Q1489-05	BF141866.D	06 Mar 2025 14:01	RC/JU	Ok,M
11	Q1478-01	BF141867.D	06 Mar 2025 14:31	RC/JU	Ok
12	Q1478-07	BF141868.D	06 Mar 2025 15:01	RC/JU	Ok
13	Q1478-05	BF141869.D	06 Mar 2025 15:30	RC/JU	Ok
14	Q1488-14	BF141870.D	06 Mar 2025 16:00	RC/JU	Ok
15	Q1488-13	BF141871.D	06 Mar 2025 16:29	RC/JU	Ok
16	Q1478-03	BF141872.D	06 Mar 2025 16:59	RC/JU	Ok
17	Q1484-06	BF141873.D	06 Mar 2025 17:29	RC/JU	Ok
18	Q1492-01	BF141874.D	06 Mar 2025 17:59	RC/JU	Ok
19	Q1492-01MS	BF141875.D	06 Mar 2025 18:29	RC/JU	Ok,M
20	Q1492-01MSD	BF141876.D	06 Mar 2025 18:58	RC/JU	Ok,M
21	Q1494-05	BF141877.D	06 Mar 2025 19:28	RC/JU	Ok

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF030625

Review By	anahy	Review On	3/7/2025 9:16:56 AM
Supervise By	Jagrut	Supervise On	3/7/2025 9:43:33 AM
SubDirectory	BF030625	HP Acquire Method	BNA_F
		HP Processing Method	bf022725
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729		
CCC	SP6725		
Internal Standard/PEM	S12653,10ul/1000ul sample		
ICV/I.BLK	SP6686		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q1494-07	BF141878.D	06 Mar 2025 19:58	RC/JU	Ok
23	Q1490-01	BF141879.D	06 Mar 2025 20:27	RC/JU	Ok,M
24	Q1484-01DL	BF141880.D	06 Mar 2025 20:57	RC/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF022725

Review By	yogesh	Review On	2/28/2025 7:30:58 AM
Supervise By	mohammad	Supervise On	2/28/2025 7:32:51 AM
SubDirectory	BF022725	HP Acquire Method	BNA_F
		HP Processing Method	bf022725
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729		
CCC	SP6725		
Internal Standard/PEM	S12653,10ul/1000ul sample		
ICV/I.BLK	SP6686		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141792.D	27 Feb 2025 14:47		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF141793.D	27 Feb 2025 15:17		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF141794.D	27 Feb 2025 15:46	Compound #32,54,65,77 removed from 5ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BF141795.D	27 Feb 2025 16:16	Compound #26,32,48,51,53,57,65 Kept on LR and Compound #54 Kept on QR	RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF141796.D	27 Feb 2025 16:46	The Calibration is Fail for Com#77	RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF141797.D	27 Feb 2025 17:16	The Calibration is Good For 8270E, 8270 DOD Except com#77 and 625.1 Method Except for Com#77	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BF141798.D	27 Feb 2025 17:46		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BF141799.D	27 Feb 2025 18:15		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF141800.D	27 Feb 2025 18:45	Compound #69 removed from 80ppm	RC/JU	Ok,M
10	SSTDICV040	ICVBF022725	BF141801.D	27 Feb 2025 19:45	ICV Fail for Com#56,62,77 for DOD and ICV Fail for Com#77 for NON- DOD	RC/JU	Ok
11	PB166879TB	PB166879TB	BF141802.D	27 Feb 2025 20:44		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF030525

Review By	anahy	Review On	3/6/2025 9:48:03 AM		
Supervise By	Jagrut	Supervise On	3/6/2025 5:48:04 PM		
SubDirectory	BF030525	HP Acquire Method	BNA_F	HP Processing Method	bf022725
STD. NAME		STD REF.#			
Tune/Reschk		SP6717			
Initial Calibration Stds		SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729			
CCC		SP6725			
Internal Standard/PEM		S12653,10ul/1000ul sample			
ICV/I.BLK		SP6686			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141834.D	05 Mar 2025 09:40		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141835.D	05 Mar 2025 10:09		RC/JU	Ok
3	PB166970BL	PB166970BL	BF141836.D	05 Mar 2025 10:39		RC/JU	Ok
4	PB166970BS	PB166970BS	BF141837.D	05 Mar 2025 11:09		RC/JU	Ok,M
5	Q1480-17DL	TP-3DL	BF141838.D	05 Mar 2025 11:45		RC/JU	Ok
6	Q1480-01DL	TP-1DL	BF141839.D	05 Mar 2025 12:15		RC/JU	Ok,M
7	Q1489-13	TP-4	BF141840.D	05 Mar 2025 13:24		RC/JU	Ok
8	Q1488-11	ENV-104-SB02	BF141841.D	05 Mar 2025 13:53		RC/JU	Ok
9	Q1488-05	ENV-102-SB01	BF141842.D	05 Mar 2025 14:23		RC/JU	Ok
10	Q1488-09	ENV-104-SB01	BF141843.D	05 Mar 2025 14:52		RC/JU	Ok,M
11	Q1487-01MS	DN-B-42MS	BF141844.D	05 Mar 2025 15:21		RC/JU	Ok,M
12	Q1487-01MSD	DN-B-42MSD	BF141845.D	05 Mar 2025 15:51		RC/JU	Ok,M
13	Q1487-01	DN-B-42	BF141846.D	05 Mar 2025 16:21		RC/JU	Ok
14	Q1488-03	ENV-101-SB02	BF141847.D	05 Mar 2025 16:50		RC/JU	Ok
15	Q1485-01	DN-B-41	BF141848.D	05 Mar 2025 17:20		RC/JU	Ok
16	Q1480-33	TP-3-WATER-SAMPLE	BF141849.D	05 Mar 2025 17:50		RC/JU	Ok
17	Q1489-09	TP-3	BF141850.D	05 Mar 2025 18:20		RC/JU	Ok
18	Q1489-01	TP-1	BF141851.D	05 Mar 2025 18:50		RC/JU	Ok,M

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF030525

Review By	anahy	Review On	3/6/2025 9:48:03 AM		
Supervise By	Jagrut	Supervise On	3/6/2025 5:48:04 PM		
SubDirectory	BF030525	HP Acquire Method	BNA_F	HP Processing Method	bf022725
STD. NAME	STD REF.#				
Tune/Reschk	SP6717				
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729				
CCC	SP6725				
Internal Standard/PEM	S12653,10ul/1000ul sample				
ICV/I.BLK	SP6686				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q1484-01	TR-OTR-COMP-01	BF141852.D	05 Mar 2025 19:20	Need 2X Dilution	RC/JU	Dilution
20	Q1486-01	DN-B-40	BF141853.D	05 Mar 2025 19:50		RC/JU	Ok,M
21	Q1489-05	TP-2	BF141854.D	05 Mar 2025 20:20	Internal Standard Fail	RC/JU	ReRun
22	Q1481-01	WC-K1311	BF141855.D	05 Mar 2025 20:50		RC/JU	Ok
23	Q1482-01	OR-03-030425	BF141856.D	05 Mar 2025 21:20	Internal Standard Fail	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF030625

Review By	anahy	Review On	3/7/2025 9:16:56 AM		
Supervise By	Jagrut	Supervise On	3/7/2025 9:43:33 AM		
SubDirectory	BF030625	HP Acquire Method	BNA_F	HP Processing Method	bf022725
STD. NAME		STD REF.#			
Tune/Reschk		SP6717			
Initial Calibration Stds		SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729			
CCC		SP6725			
Internal Standard/PEM		S12653,10ul/1000ul sample			
ICV/I.BLK		SP6686			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141857.D	06 Mar 2025 08:34		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141858.D	06 Mar 2025 09:52		RC/JU	Ok
3	PB166984BL	PB166984BL	BF141859.D	06 Mar 2025 10:22		RC/JU	Ok
4	PB166984BS	PB166984BS	BF141860.D	06 Mar 2025 10:52		RC/JU	Ok,M
5	PB166982BL	PB166982BL	BF141861.D	06 Mar 2025 11:21		RC/JU	Ok
6	PB166982BS	PB166982BS	BF141862.D	06 Mar 2025 11:51		RC/JU	Ok,M
7	PB166982BSD	PB166982BSD	BF141863.D	06 Mar 2025 12:21		RC/JU	Ok,M
8	Q1488-07	ENV-102-SB02	BF141864.D	06 Mar 2025 13:01		RC/JU	Ok
9	Q1488-01	ENV-101-SB01	BF141865.D	06 Mar 2025 13:31		RC/JU	Ok
10	Q1489-05	TP-2	BF141866.D	06 Mar 2025 14:01		RC/JU	Ok,M
11	Q1478-01	IDW-AQ-MW-19B-COM	BF141867.D	06 Mar 2025 14:31		RC/JU	Ok
12	Q1478-07	IDW-AQ-IW-03-COMP	BF141868.D	06 Mar 2025 15:01		RC/JU	Ok
13	Q1478-05	IDW-AQ-IW-02-COMP	BF141869.D	06 Mar 2025 15:30		RC/JU	Ok
14	Q1488-14	ENV-104-GW01	BF141870.D	06 Mar 2025 16:00		RC/JU	Ok
15	Q1488-13	ENV-102-GW01	BF141871.D	06 Mar 2025 16:29		RC/JU	Ok
16	Q1478-03	IDW-AQ-IW-01-COMP	BF141872.D	06 Mar 2025 16:59		RC/JU	Ok
17	Q1484-06	TR-OTR-COMP-01	BF141873.D	06 Mar 2025 17:29		RC/JU	Ok
18	Q1492-01	RHL1PXI	BF141874.D	06 Mar 2025 17:59		RC/JU	Ok

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF030625

Review By	anahy	Review On	3/7/2025 9:16:56 AM		
Supervise By	Jagrut	Supervise On	3/7/2025 9:43:33 AM		
SubDirectory	BF030625	HP Acquire Method	BNA_F	HP Processing Method	bf022725
STD. NAME	STD REF.#				
Tune/Reschk	SP6717				
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729				
CCC	SP6725				
Internal Standard/PEM	S12653,10ul/1000ul sample				
ICV/I.BLK	SP6686				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q1492-01MS	RHL1PXIMS	BF141875.D	06 Mar 2025 18:29		RC/JU	Ok,M
20	Q1492-01MSD	RHL1PXIMSD	BF141876.D	06 Mar 2025 18:58		RC/JU	Ok,M
21	Q1494-05	SOIL	BF141877.D	06 Mar 2025 19:28		RC/JU	Ok
22	Q1494-07	SOIL-COMP	BF141878.D	06 Mar 2025 19:58		RC/JU	Ok
23	Q1490-01	CLAY-SLUDGE-DRUM	BF141879.D	06 Mar 2025 20:27		RC/JU	Ok,M
24	Q1484-01DL	TR-OTR-COMP-01DL	BF141880.D	06 Mar 2025 20:57	Out Of Tune Time	RC/JU	Not Ok

M : Manual Integration

A
B
C
D
E
F
G
H
I
J
K

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

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A **Extraction By:** RS

Balance check: N/A **Filter By:** RS

Balance ID: N/A **pH Meter ID:** N/A

pH Strip Lot#: E3880 **Hood ID:** 4,6,7

Extraction Method: ☐ Separatory Funnel ☐ Continous Liquid/Liquid ☒ Sonication ☐ Waste Dilution ☐ Soxhlet

Extraction Start Date : 03/05/2025

Extraction Start Time : 08:35

Extraction End Date : 03/05/2025

Extraction End Time : 13:35

Concentration By: EH

Supervisor By : RUPESH

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6720
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3878
Baked Na2SO4	N/A	EP2590
10N NaOH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 & >11 with 10 N NaOH.
Q1488-13,14 Limited volume received.

KD Bath ID: WATER BATH-1,2 **Envap ID:** NEVAP-02

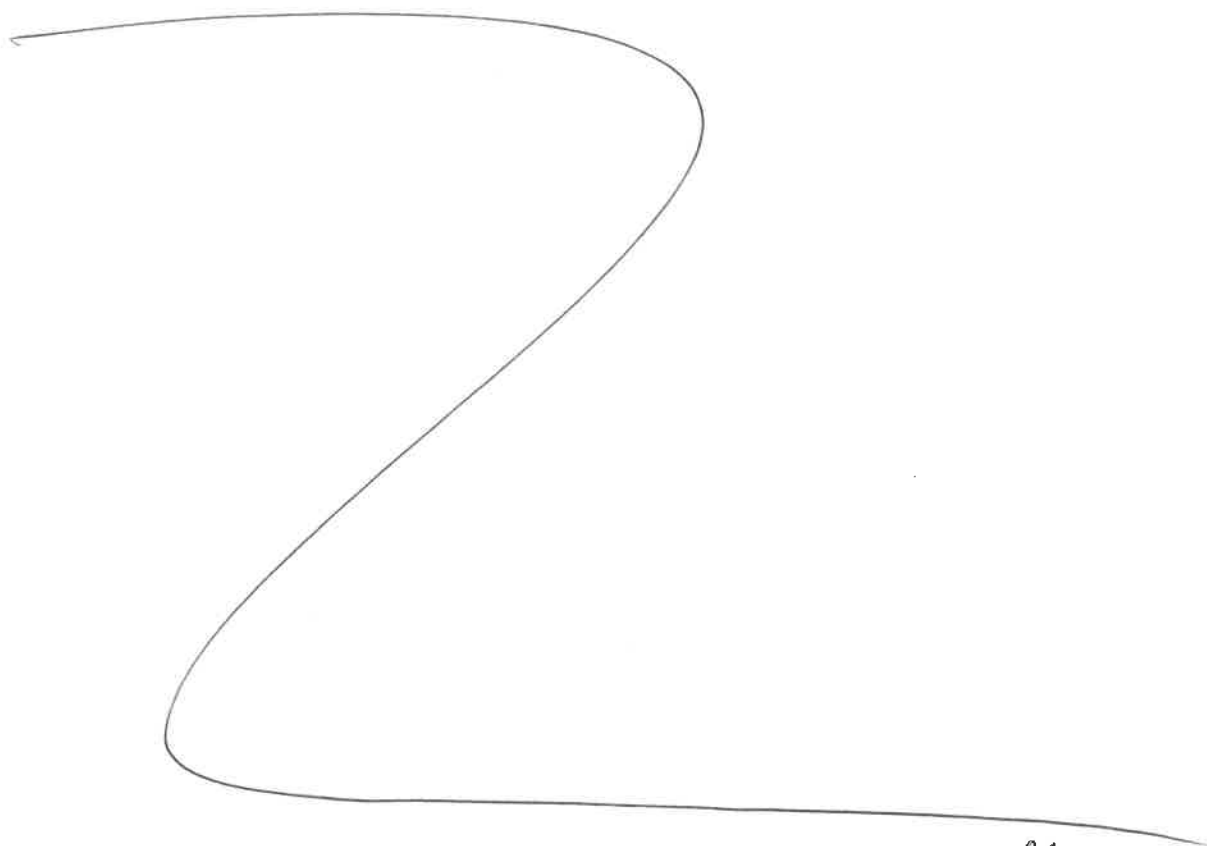
KD Bath Temperature: 60 °C **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/5/25	RS (Ext-Lab)	Rc/svoc
13:40	Preparation Group	Analysis Group

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

Concentration Date: 03/05/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166982BL	SBLK982	SVOC-TCL BNA -20	1000	6	RUPESEH	ritesh	1			SEP-1
PB166982BS	SLCS982	SVOC-TCL BNA -20	1000	6	RUPESEH	ritesh	1			2
PB166982BSD	SLCSD982	SVOC-TCL BNA -20	1000	6	RUPESEH	ritesh	1			3
Q1478-01	IDW-AQ-MW-19B-COMP-022825	SVOC-TCL BNA -20	970	6	RUPESEH	ritesh	1	C		4
Q1478-03	IDW-AQ-IW-01-COMP-022825	SVOC-TCL BNA -20	960	11	RUPESEH	ritesh	1	C		5
Q1478-05	IDW-AQ-IW-02-COMP-022825	SVOC-TCL BNA -20	940	6	RUPESEH	ritesh	1	C		6
Q1478-07	IDW-AQ-IW-03-COMP-022825	SVOC-TCL BNA -20	960	6	RUPESEH	ritesh	1	c		7
Q1480-33	TP-3-WATER-SAMPLE	SVOC-TCL BNA -20	990	6	RUPESEH	ritesh	1	M		8
Q1488-13	ENV-102-GW01	SVOC-TCL BNA -20	700	6	RUPESEH	ritesh	1	F		9
Q1488-14	ENV-104-GW01	SVOC-TCL BNA -20	570	6	RUPESEH	ritesh	1	F		10



RS
3/5

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1478BN

WorkList ID : 188023

Department : Extraction

Date : 03-05-2025 08:23:19

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1478-01	IDW-AQ-MW-19B-COMP-022825	Water	SVOC-TCL BNA -20	Cool 4 deg C	JACO05	H31	02/28/2025	8270E
Q1478-03	IDW-AQ-IW-01-COMP-022825	Water	SVOC-TCL BNA -20	Cool 4 deg C	JACO05	H31	02/28/2025	8270E
Q1478-05	IDW-AQ-IW-02-COMP-022825	Water	SVOC-TCL BNA -20	Cool 4 deg C	JACO05	H31	02/28/2025	8270E
Q1478-07	IDW-AQ-IW-03-COMP-022825	Water	SVOC-TCL BNA -20	Cool 4 deg C	JACO05	H31	02/28/2025	8270E
Q1480-33	TP-3-WATER-SAMPLE	Water	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I11	03/03/2025	8270E
Q1488-13	ENV-102-GW01	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-14	ENV-104-GW01	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E

Date/Time 3/5/25 8:30
Raw Sample Received by: RS (Ext-64b)
Raw Sample Relinquished by: CP SM

Date/Time 3/5/25 9:05
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RS (Ext-64b)

SOP ID:	M3541-ASE Extraction-14		
Clean Up SOP #:	N/A	Extraction Start Date :	03/05/2025
Matrix :	Solid	Extraction Start Time :	09:40
Weigh By:	EH	Extraction By:	RJ
Balance check:	RJ	Filter By:	RJ
Balance ID:	EX-SC-2	pH Meter ID:	N/A
pH Strip Lot#:	N/A	Hood ID:	3,7
Extraction Method:	☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet		
Extraction End Date :	03/05/2025		
Extraction End Time :	12:45		
Concentration By:	EH		
Supervisor By :	RUPESH		

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6720
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2591
Baked Na2SO4	N/A	EP2590
Methylene Chloride	N/A	E3878
Sand	N/A	E2865
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot # 2210673.

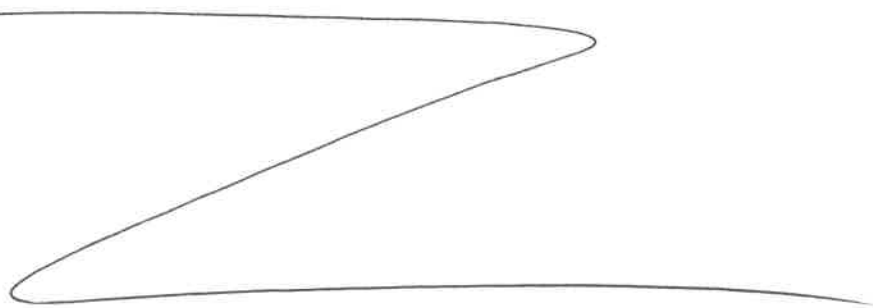
KD Bath ID:	N/A	Envap ID:	NEVAP-02
KD Bath Temperature:	N/A	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/5/25	RSC Ext Lab	RCSVOC
12:50	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 03/05/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166984BL	SBLK984	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			U2-1
PB166984BS	SLCS984	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			2
Q1481-01	WC-K1311	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	E		3
Q1482-01	OR-03-030425	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		4
Q1484-01	TR-OTR-COMP-01	SVOC-TCL BNA -20	50.09	N/A	ritesh	Evelyn	1	E		5
Q1485-01	DN-B-41	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	B		6
Q1486-01	DN-B-40	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1	B		U3-1
Q1487-01	DN-B-42	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	C		2
Q1487-01MS	DN-B-42MS	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	C		3
Q1487-01MS D	DN-B-42MSD	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	C		4
Q1488-01	ENV-101-SB01	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		5
Q1488-03	ENV-101-SB02	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		6
Q1488-05	ENV-102-SB01	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	E		U6-1
Q1488-07	ENV-102-SB02	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		2
Q1488-09	ENV-104-SB01	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		3
Q1488-11	ENV-104-SB02	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	E		4
Q1489-01	TP-1	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		5
Q1489-05	TP-2	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	E		6
Q1489-09	TP-3	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E		U7-1
Q1489-13	TP-4	SVOC-TCL BNA -20	50.09	N/A	ritesh	Evelyn	1	E		2



R3
315

1699844
1699844

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1485

WorkList ID : 188027

Department : Extraction

Date : 03-05-2025 08:31:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1481-01	WC-K1311	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	H31	03/04/2025	8270E
Q1482-01	OR-03-030425	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	H31	03/04/2025	8270E
Q1484-01	TR-OTR-COMP-01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	H31	03/04/2025	8270E
Q1485-01	DN-B-41	Solid	SVOC-TCL BNA -20	Cool 4 deg C	JPCL01	I11	03/04/2025	8270E
Q1486-01	DN-B-40	Solid	SVOC-TCL BNA -20	Cool 4 deg C	JPCL01	I11	03/04/2025	8270E
Q1487-01	DN-B-42	Solid	SVOC-TCL BNA -20	Cool 4 deg C	JPCL01	I11	03/04/2025	8270E
Q1488-01	ENV-101-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-03	ENV-101-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-05	ENV-102-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-07	ENV-102-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-09	ENV-104-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-11	ENV-104-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1489-01	TP-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I22	03/04/2025	8270E
Q1489-05	TP-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I22	03/04/2025	8270E
Q1489-09	TP-3	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I22	03/04/2025	8270E
Q1489-13	TP-4	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I22	03/04/2025	8270E

Date/Time

3/5/25 9:35

Raw Sample Received by:

RJ (Ext 1046)

Raw Sample Relinquished by:

RJ (Ext 1046)

Date/Time

3/5/25

10:10

Raw Sample Received by:

RJ (Ext 1046)

Raw Sample Relinquished by:

RJ (Ext 1046)

LAB CHRONICLE

OrderID:	Q1488	OrderDate:	3/4/2025 3:39:00 PM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	Location:	H31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1488-01	ENV-101-SB01	SOIL	SVOC-TCL BNA -20	8270E	03/04/25	03/05/25	03/06/25	03/04/25
Q1488-03	ENV-101-SB02	SOIL	SVOC-TCL BNA -20	8270E	03/04/25	03/05/25	03/05/25	03/04/25
Q1488-05	ENV-102-SB01	SOIL	SVOC-TCL BNA -20	8270E	03/04/25	03/05/25	03/05/25	03/04/25
Q1488-07	ENV-102-SB02	SOIL	SVOC-TCL BNA -20	8270E	03/04/25	03/05/25	03/06/25	03/04/25
Q1488-09	ENV-104-SB01	SOIL	SVOC-TCL BNA -20	8270E	03/04/25	03/05/25	03/05/25	03/04/25
Q1488-11	ENV-104-SB02	SOIL	SVOC-TCL BNA -20	8270E	03/04/25	03/05/25	03/05/25	03/04/25
Q1488-13	ENV-102-GW01	Water	SVOC-TCL BNA -20	8270E	03/04/25	03/05/25	03/06/25	03/04/25
Q1488-14	ENV-104-GW01	Water	SVOC-TCL BNA -20	8270E	03/04/25	03/05/25	03/06/25	03/04/25