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

Hit Summary Sheet
SW-846

SDG No.: Q2150

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**TP-44**								
Q2150-01	TP-44	SOIL	Acenaphthylene		350.000		36.6	220	ug/Kg
Q2150-01	TP-44	SOIL	Acenaphthene		260.000		27	220	ug/Kg
Q2150-01	TP-44	SOIL	Dibenzofuran		210.000	J	28.7	220	ug/Kg
Q2150-01	TP-44	SOIL	Fluorene		450.000		32	220	ug/Kg
Q2150-01	TP-44	SOIL	Phenanthrene		2,200.000		26.4	220	ug/Kg
Q2150-01	TP-44	SOIL	Anthracene		1,100.000		42.1	220	ug/Kg
Q2150-01	TP-44	SOIL	Carbazole		170.000	J	39.5	220	ug/Kg
Q2150-01	TP-44	SOIL	Fluoranthene		5,200.000	E	38	220	ug/Kg
Q2150-01	TP-44	SOIL	Pyrene		2,700.000		45.6	220	ug/Kg
Q2150-01	TP-44	SOIL	Benzo(a)anthracene		2,700.000		29.1	220	ug/Kg
Q2150-01	TP-44	SOIL	Chrysene		2,200.000		25.2	220	ug/Kg
Q2150-01	TP-44	SOIL	Benzo(b)fluoranthene		3,400.000	E	24	220	ug/Kg
Q2150-01	TP-44	SOIL	Benzo(k)fluoranthene		1,500.000		28.3	220	ug/Kg
Q2150-01	TP-44	SOIL	Benzo(a)pyrene		2,500.000		37.3	220	ug/Kg
Q2150-01	TP-44	SOIL	Indeno(1,2,3-cd)pyrene		1,000.000		36.8	220	ug/Kg
Q2150-01	TP-44	SOIL	Dibenzo(a,h)anthracene		320.000		34.7	220	ug/Kg
Q2150-01	TP-44	SOIL	Benzo(g,h,i)perylene		1,200.000		32.5	220	ug/Kg
			Total Svoc :		**27,460.00**				
Q2150-01	TP-44	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB	0	0	ug/Kg
Q2150-01	TP-44	SOIL	4H-Cyclopenta[def]phenanthrene	*	1,100.000	J	0	0	ug/Kg
Q2150-01	TP-44	SOIL	9,10-Dimethylanthracene	*	470.000	J	0	0	ug/Kg
Q2150-01	TP-44	SOIL	9-Cyanophenanthrene	*	150.000	J	0	0	ug/Kg
Q2150-01	TP-44	SOIL	Anthracene, 1-methyl-	*	250.000	J	0	0	ug/Kg
Q2150-01	TP-44	SOIL	Anthracene, 2-methyl-	*	700.000	J	0	0	ug/Kg
Q2150-01	TP-44	SOIL	Benzene, 1,1-(1,3-butadiyne-1,4-d	*	150.000	J	0	0	ug/Kg
Q2150-01	TP-44	SOIL	Benzo[e]pyrene	*	600.000	J	0	0	ug/Kg
Q2150-01	TP-44	SOIL	Benzophenone	*	230.000	J	0	0	ug/Kg
Q2150-01	TP-44	SOIL	Cyclopenta(def)phenanthrenone	*	290.000	J	0	0	ug/Kg
Q2150-01	TP-44	SOIL	Dibenzothiophene	*	230.000	J	0	0	ug/Kg
Q2150-01	TP-44	SOIL	Fluoranthene, 2-methyl-	*	230.000	J	0	0	ug/Kg
Q2150-01	TP-44	SOIL	Pyrene, 1-methyl-	*	150.000	J	0	0	ug/Kg
Q2150-01	TP-44	SOIL	Pyrene, 4,5,9,10-tetrahydro-	*	390.000	J	0	0	ug/Kg
Q2150-01	TP-44	SOIL	Pyrene, 4-methyl-	*	130.000	J	0	0	ug/Kg
Q2150-01	TP-44	SOIL	unknown10.851	*	130.000	J	0	0	ug/Kg
Q2150-01	TP-44	SOIL	unknown9.645	*	140.000	J	0	0	ug/Kg
Q2150-01	TP-44	SOIL	Naphthalene, 2-phenyl-	*	260.000	J	0	0	ug/Kg
Q2150-01	TP-44	SOIL	Perylene	*	1,800.000	J	0	0	ug/Kg

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

Hit Summary Sheet
SW-846

SDG No.: Q2150

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2150-01	TP-44	SOIL	Phenanthrene, 2-methyl-	*	280.000	J	0	0	ug/Kg
			Total Tics :		**7,930.00**				
			Total Concentration:		**35,390.00**				
Client ID :	**TP-44DL**								
Q2150-01DL	TP-44DL	SOIL	Fluorene		480.000	JD	160	1100	ug/Kg
Q2150-01DL	TP-44DL	SOIL	Phenanthrene		2,500.000	D	130	1100	ug/Kg
Q2150-01DL	TP-44DL	SOIL	Anthracene		1,100.000	D	210	1100	ug/Kg
Q2150-01DL	TP-44DL	SOIL	Fluoranthene		4,800.000	D	190	1100	ug/Kg
Q2150-01DL	TP-44DL	SOIL	Pyrene		3,100.000	D	230	1100	ug/Kg
Q2150-01DL	TP-44DL	SOIL	Benzo(a)anthracene		2,700.000	D	150	1100	ug/Kg
Q2150-01DL	TP-44DL	SOIL	Chrysene		2,600.000	D	130	1100	ug/Kg
Q2150-01DL	TP-44DL	SOIL	Benzo(b)fluoranthene		3,900.000	D	120	1100	ug/Kg
Q2150-01DL	TP-44DL	SOIL	Benzo(k)fluoranthene		1,200.000	D	140	1100	ug/Kg
Q2150-01DL	TP-44DL	SOIL	Benzo(a)pyrene		2,800.000	D	190	1100	ug/Kg
Q2150-01DL	TP-44DL	SOIL	Indeno(1,2,3-cd)pyrene		1,100.000	D	180	1100	ug/Kg
Q2150-01DL	TP-44DL	SOIL	Benzo(g,h,i)perylene		1,100.000	D	160	1100	ug/Kg
			Total Svoc :		**27,380.00**				
			Total Concentration:		**27,380.00**				
Client ID :	**TP-42**								
Q2150-02	TP-42	SOIL	Fluoranthene		130.000	J	34.7	200	ug/Kg
Q2150-02	TP-42	SOIL	Pyrene		100.000	J	41.7	200	ug/Kg
Q2150-02	TP-42	SOIL	Benzo(b)fluoranthene		77.900	J	22	200	ug/Kg
			Total Svoc :		**307.90**				
Q2150-02	TP-42	SOIL	Benzophenone	*	150.000	J	0	0	ug/Kg
Q2150-02	TP-42	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB	0	0	ug/Kg
Q2150-02	TP-42	SOIL	Heptadecyl trifluoroacetate	*	110.000	J	0	0	ug/Kg
Q2150-02	TP-42	SOIL	n-Hexadecanoic acid	*	190.000	J	0	0	ug/Kg
			Total Tics :		**700.00**				
			Total Concentration:		**1,007.90**				
Client ID :	**TP-39**								
Q2150-03	TP-39	SOIL	Phenanthrene		96.600	J	24.9	200	ug/Kg
Q2150-03	TP-39	SOIL	Fluoranthene		130.000	J	35.7	200	ug/Kg
Q2150-03	TP-39	SOIL	Pyrene		95.600	J	42.9	200	ug/Kg
Q2150-03	TP-39	SOIL	Bis(2-ethylhexyl)phthalate		370.000		70.5	200	ug/Kg
Q2150-03	TP-39	SOIL	Benzo(b)fluoranthene		83.100	J	22.6	200	ug/Kg
			Total Svoc :		**775.30**				
Q2150-03	TP-39	SOIL	n-Hexadecanoic acid	*	340.000	J	0	0	ug/Kg
Q2150-03	TP-39	SOIL	1,3-Dioxolane, 2,2-dimethyl-	*	160.000	J	0	0	ug/Kg
Q2150-03	TP-39	SOIL	1-Heneicosanol	*	140.000	J	0	0	ug/Kg

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

Hit Summary Sheet
SW-846

SDG No.: Q2150

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2150-03	TP-39	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	430.000	AB	0	0	ug/Kg
Q2150-03	TP-39	SOIL	Benzophenone	*	260.000	J	0	0	ug/Kg
			Total Tics :		**1,330.00**				
			Total Concentration:		**2,105.30**				
Client ID :	**TP-48**								
Q2150-04	TP-48	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	460.000	AB	0	0	ug/Kg
Q2150-04	TP-48	SOIL	Benzophenone	*	280.000	J	0	0	ug/Kg
Q2150-04	TP-48	SOIL	Heptadecyl heptafluorobutyrate	*	180.000	J	0	0	ug/Kg
Q2150-04	TP-48	SOIL	n-Hexadecanoic acid	*	430.000	J	0	0	ug/Kg
			Total Tics :		**1,350.00**				
			Total Concentration:		**1,350.00**				
Client ID :	**TP-47**								
Q2150-05	TP-47	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	290.000	AB	0	0	ug/Kg
Q2150-05	TP-47	SOIL	Benzophenone	*	180.000	J	0	0	ug/Kg
Q2150-05	TP-47	SOIL	n-Hexadecanoic acid	*	410.000	J	0	0	ug/Kg
Q2150-05	TP-47	SOIL	Octadecanoic acid	*	150.000	J	0	0	ug/Kg
Q2150-05	TP-47	SOIL	Trifluoroacetoxy hexadecane	*	200.000	J	0	0	ug/Kg
			Total Tics :		**1,230.00**				
			Total Concentration:		**1,230.00**				
Client ID :	**TP-50**								
Q2150-06	TP-50	SOIL	Phenanthrene		280.000		24.3	200	ug/Kg
Q2150-06	TP-50	SOIL	Anthracene		86.900	J	38.7	200	ug/Kg
Q2150-06	TP-50	SOIL	Fluoranthene		670.000		34.9	200	ug/Kg
Q2150-06	TP-50	SOIL	Pyrene		350.000		41.8	200	ug/Kg
Q2150-06	TP-50	SOIL	Benzo(a)anthracene		340.000		26.7	200	ug/Kg
Q2150-06	TP-50	SOIL	Chrysene		290.000		23.1	200	ug/Kg
Q2150-06	TP-50	SOIL	Benzo(b)fluoranthene		440.000		22.1	200	ug/Kg
Q2150-06	TP-50	SOIL	Benzo(k)fluoranthene		150.000	J	26	200	ug/Kg
Q2150-06	TP-50	SOIL	Benzo(a)pyrene		320.000		34.3	200	ug/Kg
Q2150-06	TP-50	SOIL	Indeno(1,2,3-cd)pyrene		110.000	J	33.8	200	ug/Kg
Q2150-06	TP-50	SOIL	Benzo(g,h,i)perylene		130.000	J	29.9	200	ug/Kg
			Total Svoc :		**3,166.90**				
Q2150-06	TP-50	SOIL	11H-Benzo[a]fluoren-11-one	*	110.000	J	0	0	ug/Kg
Q2150-06	TP-50	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB	0	0	ug/Kg
Q2150-06	TP-50	SOIL	4H-Cyclopenta[def]phenanthrene	*	90.200	J	0	0	ug/Kg
Q2150-06	TP-50	SOIL	Benzo[e]pyrene	*	210.000	J	0	0	ug/Kg
Q2150-06	TP-50	SOIL	Benzophenone	*	130.000	J	0	0	ug/Kg
Q2150-06	TP-50	SOIL	n-Hexadecanoic acid	*	240.000	J	0	0	ug/Kg
			Total Tics :		**1,030.20**				

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

Hit Summary Sheet
SW-846

SDG No.: Q2150

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
			Total Concentration:		**4,197.10**				
Client ID : TP-51									
Q2150-07	TP-51	SOIL	1-Tetracosene	*	430.000	J	0	0	ug/Kg
Q2150-07	TP-51	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	410.000	AB	0	0	ug/Kg
Q2150-07	TP-51	SOIL	Benzophenone	*	200.000	J	0	0	ug/Kg
Q2150-07	TP-51	SOIL	n-Hexadecanoic acid	*	330.000	J	0	0	ug/Kg
Q2150-07	TP-51	SOIL	Pentadecafluorooctanoic acid, oct	*	110.000	J	0	0	ug/Kg
Q2150-07	TP-51	SOIL	unknown10.345	*	130.000	J	0	0	ug/Kg
			Total Tics :		**1,610.00**				
			Total Concentration:		**1,610.00**				
Client ID : TP-52									
Q2150-08	TP-52	SOIL	Acenaphthylene		92.600	J	33.7	200	ug/Kg
Q2150-08	TP-52	SOIL	Phenanthrene		270.000		24.3	200	ug/Kg
Q2150-08	TP-52	SOIL	Anthracene		140.000	J	38.8	200	ug/Kg
Q2150-08	TP-52	SOIL	Fluoranthene		1,300.000		34.9	200	ug/Kg
Q2150-08	TP-52	SOIL	Pyrene		770.000		41.9	200	ug/Kg
Q2150-08	TP-52	SOIL	Benzo(a)anthracene		750.000		26.8	200	ug/Kg
Q2150-08	TP-52	SOIL	Chrysene		780.000		23.2	200	ug/Kg
Q2150-08	TP-52	SOIL	Benzo(b)fluoranthene		1,100.000		22.1	200	ug/Kg
Q2150-08	TP-52	SOIL	Benzo(k)fluoranthene		360.000		26.1	200	ug/Kg
Q2150-08	TP-52	SOIL	Benzo(a)pyrene		830.000		34.4	200	ug/Kg
Q2150-08	TP-52	SOIL	Indeno(1,2,3-cd)pyrene		300.000		33.9	200	ug/Kg
Q2150-08	TP-52	SOIL	Dibenzo(a,h)anthracene		93.900	J	31.9	200	ug/Kg
Q2150-08	TP-52	SOIL	Benzo(g,h,i)perylene		350.000		29.9	200	ug/Kg
			Total Svoc :		**7,136.50**				
Q2150-08	TP-52	SOIL	11H-Benzo[a]fluorene	*	130.000	J	0	0	ug/Kg
Q2150-08	TP-52	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	290.000	AB	0	0	ug/Kg
Q2150-08	TP-52	SOIL	4H-Cyclopenta[def]phenanthrene	*	220.000	J	0	0	ug/Kg
Q2150-08	TP-52	SOIL	Ethanol, 2-butoxy-	*	79.600	J	0	0	ug/Kg
Q2150-08	TP-52	SOIL	Benzo[e]pyrene	*	190.000	J	0	0	ug/Kg
Q2150-08	TP-52	SOIL	Benzophenone	*	170.000	J	0	0	ug/Kg
Q2150-08	TP-52	SOIL	Pyrene, 4,5,9,10-tetrahydro-	*	83.100	J	0	0	ug/Kg
Q2150-08	TP-52	SOIL	n-Hexadecanoic acid	*	460.000	J	0	0	ug/Kg
Q2150-08	TP-52	SOIL	Pentadecafluorooctanoic acid, oct	*	94.400	J	0	0	ug/Kg
Q2150-08	TP-52	SOIL	Perylene	*	630.000	J	0	0	ug/Kg
Q2150-08	TP-52	SOIL	Phenanthrene, 2,5-dimethyl-	*	100.000	J	0	0	ug/Kg
			Total Tics :		**2,447.10**				
			Total Concentration:		**9,583.60**				
Client ID : TP-54									

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

Hit Summary Sheet
SW-846

SDG No.: Q2150

Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q2150-09	TP-54	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	360.000	AB	0	0	ug/Kg
Q2150-09	TP-54	SOIL	Benzophenone	*	250.000	J	0	0	ug/Kg
Q2150-09	TP-54	SOIL	n-Hexadecanoic acid	*	550.000	J	0	0	ug/Kg
Q2150-09	TP-54	SOIL	Octadecanoic acid	*	110.000	J	0	0	ug/Kg
Q2150-09	TP-54	SOIL	Octadecyl trifluoroacetate	*	360.000	J	0	0	ug/Kg
Q2150-09	TP-54	SOIL	Supraene	*	110.000	J	0	0	ug/Kg
			Total Tics :		**1,740.00**				
			Total Concentration:		**1,740.00**				

Client ID : TP-53

Q2150-10	TP-53	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	270.000	AB	0	0	ug/Kg
Q2150-10	TP-53	SOIL	Benzophenone	*	130.000	J	0	0	ug/Kg
Q2150-10	TP-53	SOIL	n-Hexadecanoic acid	*	150.000	J	0	0	ug/Kg
Q2150-10	TP-53	SOIL	Trichloroacetic acid, hexadecyl es	*	160.000	J	0	0	ug/Kg
			Total Tics :		**710.00**				
			Total Concentration:		**710.00**				

SAMPLE DATA

Raw Data: **BF142586.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-44	SDG No.:	Q2150
Lab Sample ID:	Q2150-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78.9
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
BF142586.D	1	05/30/25 09:50	05/30/25 23:10	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	420	ug/Kg
108-95-2	Phenol	28.0	U	28.0	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	30.7	U	30.7	220	ug/Kg
95-57-8	2-Chlorophenol	30.9	U	30.9	220	ug/Kg
95-48-7	2-Methylphenol	37.8	U	37.8	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	47.4	U	47.4	220	ug/Kg
98-86-2	Acetophenone	37.3	U	37.3	220	ug/Kg
65794-96-9	3+4-Methylphenols	52.0	U	52.0	420	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	60.0	U	60.0	100	ug/Kg
67-72-1	Hexachloroethane	22.3	U	22.3	220	ug/Kg
98-95-3	Nitrobenzene	23.2	U	23.2	220	ug/Kg
78-59-1	Isophorone	41.5	U	41.5	220	ug/Kg
88-75-5	2-Nitrophenol	73.6	U	73.6	220	ug/Kg
105-67-9	2,4-Dimethylphenol	82.0	U	82.0	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	39.0	U	39.0	220	ug/Kg
120-83-2	2,4-Dichlorophenol	35.8	U	35.8	220	ug/Kg
91-20-3	Naphthalene	28.7	U	28.7	220	ug/Kg
106-47-8	4-Chloroaniline	44.8	U	44.8	220	ug/Kg
87-68-3	Hexachlorobutadiene	32.0	U	32.0	220	ug/Kg
105-60-2	Caprolactam	65.9	U	65.9	420	ug/Kg
59-50-7	4-Chloro-3-methylphenol	36.3	U	36.3	220	ug/Kg
91-57-6	2-Methylnaphthalene	32.4	U	32.4	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	150	U	150	420	ug/Kg
88-06-2	2,4,6-Trichlorophenol	25.1	U	25.1	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	36.8	U	36.8	220	ug/Kg
92-52-4	1,1-Biphenyl	27.6	U	27.6	220	ug/Kg
91-58-7	2-Chloronaphthalene	28.5	U	28.5	220	ug/Kg
88-74-4	2-Nitroaniline	60.9	U	60.9	220	ug/Kg
131-11-3	Dimethylphthalate	34.3	U	34.3	220	ug/Kg

Raw Data: **BF142586.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-44	SDG No.:	Q2150
Lab Sample ID:	Q2150-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78.9
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
BF142586.D	1	05/30/25 09:50	05/30/25 23:10	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	350		36.6	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	42.5	U	42.5	220	ug/Kg
99-09-2	3-Nitroaniline	58.2	U	58.2	220	ug/Kg
83-32-9	Acenaphthene	260		27.0	220	ug/Kg
51-28-5	2,4-Dinitrophenol	290	U	290	420	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	420	ug/Kg
132-64-9	Dibenzofuran	210	J	28.7	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	63.4	U	63.4	220	ug/Kg
84-66-2	Diethylphthalate	35.8	U	35.8	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	33.8	U	33.8	220	ug/Kg
86-73-7	Fluorene	450		32.0	220	ug/Kg
100-01-6	4-Nitroaniline	81.2	U	81.2	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	420	ug/Kg
86-30-6	n-Nitrosodiphenylamine	41.6	U	41.6	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	35.2	U	35.2	220	ug/Kg
118-74-1	Hexachlorobenzene	32.0	U	32.0	220	ug/Kg
1912-24-9	Atrazine	43.0	U	43.0	220	ug/Kg
87-86-5	Pentachlorophenol	64.9	U	64.9	420	ug/Kg
85-01-8	Phenanthrene	2200		26.4	220	ug/Kg
120-12-7	Anthracene	1100		42.1	220	ug/Kg
86-74-8	Carbazole	170	J	39.5	220	ug/Kg
84-74-2	Di-n-butylphthalate	60.6	U	60.6	220	ug/Kg
206-44-0	Fluoranthene	5200	E	38.0	220	ug/Kg
129-00-0	Pyrene	2700		45.6	220	ug/Kg
85-68-7	Butylbenzylphthalate	90.3	U	90.3	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	46.4	U	46.4	420	ug/Kg
56-55-3	Benzo(a)anthracene	2700		29.1	220	ug/Kg
218-01-9	Chrysene	2200		25.2	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	74.9	U	74.9	220	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	420	ug/Kg
205-99-2	Benzo(b)fluoranthene	3400	E	24.0	220	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-44	SDG No.:	Q2150
Lab Sample ID:	Q2150-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78.9
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
BF142586.D	1	05/30/25 09:50	05/30/25 23:10	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1500		28.3	220	ug/Kg
50-32-8	Benzo(a)pyrene	2500		37.3	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1000		36.8	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	320		34.7	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1200		32.5	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	32.4	U	32.4	220	ug/Kg
123-91-1	1,4-Dioxane	57.2	U	57.2	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	34.7	U	34.7	220	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	69.9		18 - 112	47%	SPK: 150
13127-88-3	Phenol-d6	67.4		15 - 107	45%	SPK: 150
4165-60-0	Nitrobenzene-d5	47.1		18 - 107	47%	SPK: 100
321-60-8	2-Fluorobiphenyl	50.2		20 - 109	50%	SPK: 100
118-79-6	2,4,6-Tribromophenol	63.6		10 - 116	42%	SPK: 150
1718-51-0	Terphenyl-d14	31.1		10 - 105	31%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	128000	6.898			
1146-65-2	Naphthalene-d8	419000	8.181			
15067-26-2	Acenaphthene-d10	173000	9.939			
1517-22-2	Phenanthrene-d10	272000	11.428			
1719-03-5	Chrysene-d12	273000	14.074			
1520-96-3	Perylene-d12	221000	15.574			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB		5.11	ug/Kg
	unknown9.645	140	J		9.64	ug/Kg
000119-61-9	Benzophenone	230	J		10.6	ug/Kg
	unknown10.851	130	J		10.9	ug/Kg
000132-65-0	Dibenzothiophene	230	J		11.3	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	280	J		11.9	ug/Kg
000613-12-7	Anthracene, 2-methyl-	700	J		12.0	ug/Kg

Raw Data: **BF142586.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-44	SDG No.:	Q2150
Lab Sample ID:	Q2150-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78.9
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
BF142586.D	1	05/30/25 09:50	05/30/25 23:10	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000610-48-0	Anthracene, 1-methyl-	250	J		12.0	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	1100	J		12.0	ug/Kg
000612-94-2	Naphthalene, 2-phenyl-	260	J		12.2	ug/Kg
000781-43-1	9,10-Dimethylanthracene	470	J		12.5	ug/Kg
000781-17-9	Pyrene, 4,5,9,10-tetrahydro-	390	J		12.5	ug/Kg
005737-13-3	Cyclopenta(def)phenanthrenone	290	J		12.6	ug/Kg
002510-55-6	9-Cyanophenanthrene	150	J		12.7	ug/Kg
000886-66-8	Benzene, 1,1-(1,3-butadiyne-1,4-d	150	J		12.7	ug/Kg
002381-21-7	Pyrene, 1-methyl-	150	J		13.1	ug/Kg
033543-31-6	Fluoranthene, 2-methyl-	230	J		13.2	ug/Kg
003353-12-6	Pyrene, 4-methyl-	130	J		13.3	ug/Kg
000192-97-2	Benzo[e]pyrene	600	J		15.2	ug/Kg
000198-55-0	Perylene	1800	J		15.4	ug/Kg

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

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

Raw Data: **BF142598.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-44DL	SDG No.:	Q2150
Lab Sample ID:	Q2150-01DL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78.9
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
BF142598.D	5	05/30/25 09:50	06/02/25 15:34	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	990	UD	990	2100	ug/Kg
108-95-2	Phenol	140	UD	140	1100	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	150	UD	150	1100	ug/Kg
95-57-8	2-Chlorophenol	150	UD	150	1100	ug/Kg
95-48-7	2-Methylphenol	190	UD	190	1100	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	240	UD	240	1100	ug/Kg
98-86-2	Acetophenone	190	UD	190	1100	ug/Kg
65794-96-9	3+4-Methylphenols	260	UD	260	2100	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	300	UD	300	510	ug/Kg
67-72-1	Hexachloroethane	110	UD	110	1100	ug/Kg
98-95-3	Nitrobenzene	120	UD	120	1100	ug/Kg
78-59-1	Isophorone	210	UD	210	1100	ug/Kg
88-75-5	2-Nitrophenol	370	UD	370	1100	ug/Kg
105-67-9	2,4-Dimethylphenol	410	UD	410	1100	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	190	UD	190	1100	ug/Kg
120-83-2	2,4-Dichlorophenol	180	UD	180	1100	ug/Kg
91-20-3	Naphthalene	140	UD	140	1100	ug/Kg
106-47-8	4-Chloroaniline	220	UD	220	1100	ug/Kg
87-68-3	Hexachlorobutadiene	160	UD	160	1100	ug/Kg
105-60-2	Caprolactam	330	UD	330	2100	ug/Kg
59-50-7	4-Chloro-3-methylphenol	180	UD	180	1100	ug/Kg
91-57-6	2-Methylnaphthalene	160	UD	160	1100	ug/Kg
77-47-4	Hexachlorocyclopentadiene	730	UD	730	2100	ug/Kg
88-06-2	2,4,6-Trichlorophenol	130	UD	130	1100	ug/Kg
95-95-4	2,4,5-Trichlorophenol	180	UD	180	1100	ug/Kg
92-52-4	1,1-Biphenyl	140	UD	140	1100	ug/Kg
91-58-7	2-Chloronaphthalene	140	UD	140	1100	ug/Kg
88-74-4	2-Nitroaniline	300	UD	300	1100	ug/Kg
131-11-3	Dimethylphthalate	170	UD	170	1100	ug/Kg

Raw Data: **BF142598.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-44DL	SDG No.:	Q2150
Lab Sample ID:	Q2150-01DL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78.9
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
BF142598.D	5	05/30/25 09:50	06/02/25 15:34	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	180	UD	180	1100	ug/Kg
606-20-2	2,6-Dinitrotoluene	210	UD	210	1100	ug/Kg
99-09-2	3-Nitroaniline	290	UD	290	1100	ug/Kg
83-32-9	Acenaphthene	130	UD	130	1100	ug/Kg
51-28-5	2,4-Dinitrophenol	1400	UD	1400	2100	ug/Kg
100-02-7	4-Nitrophenol	680	UD	680	2100	ug/Kg
132-64-9	Dibenzofuran	140	UD	140	1100	ug/Kg
121-14-2	2,4-Dinitrotoluene	320	UD	320	1100	ug/Kg
84-66-2	Diethylphthalate	180	UD	180	1100	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	170	UD	170	1100	ug/Kg
86-73-7	Fluorene	480	JD	160	1100	ug/Kg
100-01-6	4-Nitroaniline	410	UD	410	1100	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	650	UD	650	2100	ug/Kg
86-30-6	n-Nitrosodiphenylamine	210	UD	210	1100	ug/Kg
101-55-3	4-Bromophenyl-phenylether	180	UD	180	1100	ug/Kg
118-74-1	Hexachlorobenzene	160	UD	160	1100	ug/Kg
1912-24-9	Atrazine	220	UD	220	1100	ug/Kg
87-86-5	Pentachlorophenol	320	UD	320	2100	ug/Kg
85-01-8	Phenanthrene	2500	D	130	1100	ug/Kg
120-12-7	Anthracene	1100	D	210	1100	ug/Kg
86-74-8	Carbazole	200	UD	200	1100	ug/Kg
84-74-2	Di-n-butylphthalate	300	UD	300	1100	ug/Kg
206-44-0	Fluoranthene	4800	D	190	1100	ug/Kg
129-00-0	Pyrene	3100	D	230	1100	ug/Kg
85-68-7	Butylbenzylphthalate	450	UD	450	1100	ug/Kg
91-94-1	3,3-Dichlorobenzidine	230	UD	230	2100	ug/Kg
56-55-3	Benzo(a)anthracene	2700	D	150	1100	ug/Kg
218-01-9	Chrysene	2600	D	130	1100	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	370	UD	370	1100	ug/Kg
117-84-0	Di-n-octyl phthalate	550	UD	550	2100	ug/Kg
205-99-2	Benzo(b)fluoranthene	3900	D	120	1100	ug/Kg

Raw Data: **BF142598.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-44DL	SDG No.:	Q2150
Lab Sample ID:	Q2150-01DL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	78.9
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
BF142598.D	5	05/30/25 09:50	06/02/25 15:34	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1200	D	140	1100	ug/Kg
50-32-8	Benzo(a)pyrene	2800	D	190	1100	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1100	D	180	1100	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	170	UD	170	1100	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1100	D	160	1100	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	160	UD	160	1100	ug/Kg
123-91-1	1,4-Dioxane	290	UD	290	1100	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	170	UD	170	1100	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	78.1		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	78.6		15 - 107	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	48.2		18 - 107	48%	SPK: 100
321-60-8	2-Fluorobiphenyl	53.3		20 - 109	53%	SPK: 100
118-79-6	2,4,6-Tribromophenol	62.5		10 - 116	42%	SPK: 150
1718-51-0	Terphenyl-d14	33.9		10 - 105	34%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	127000	6.898			
1146-65-2	Naphthalene-d8	471000	8.181			
15067-26-2	Acenaphthene-d10	232000	9.939			
1517-22-2	Phenanthrene-d10	326000	11.427			
1719-03-5	Chrysene-d12	251000	14.068			
1520-96-3	Perylene-d12	279000	15.568			

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

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

Raw Data: **BF142583.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-42	SDG No.:	Q2150
Lab Sample ID:	Q2150-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.2
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142583.D	1	05/30/25 09:50	05/30/25 21:42	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	380	ug/Kg
108-95-2	Phenol	25.6	U	25.6	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.1	U	28.1	200	ug/Kg
95-57-8	2-Chlorophenol	28.2	U	28.2	200	ug/Kg
95-48-7	2-Methylphenol	34.6	U	34.6	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.4	U	43.4	200	ug/Kg
98-86-2	Acetophenone	34.2	U	34.2	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.6	U	47.6	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	54.9	U	54.9	92.6	ug/Kg
67-72-1	Hexachloroethane	20.4	U	20.4	200	ug/Kg
98-95-3	Nitrobenzene	21.2	U	21.2	200	ug/Kg
78-59-1	Isophorone	38.0	U	38.0	200	ug/Kg
88-75-5	2-Nitrophenol	67.4	U	67.4	200	ug/Kg
105-67-9	2,4-Dimethylphenol	75.0	U	75.0	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.7	U	35.7	200	ug/Kg
120-83-2	2,4-Dichlorophenol	32.8	U	32.8	200	ug/Kg
91-20-3	Naphthalene	26.3	U	26.3	200	ug/Kg
106-47-8	4-Chloroaniline	41.0	U	41.0	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.3	U	29.3	200	ug/Kg
105-60-2	Caprolactam	60.3	U	60.3	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.2	U	33.2	200	ug/Kg
91-57-6	2-Methylnaphthalene	29.6	U	29.6	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.9	U	22.9	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.7	U	33.7	200	ug/Kg
92-52-4	1,1-Biphenyl	25.2	U	25.2	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.1	U	26.1	200	ug/Kg
88-74-4	2-Nitroaniline	55.7	U	55.7	200	ug/Kg
131-11-3	Dimethylphthalate	31.4	U	31.4	200	ug/Kg

Raw Data: **BF142583.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-42	SDG No.:	Q2150
Lab Sample ID:	Q2150-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.2
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142583.D	1	05/30/25 09:50	05/30/25 21:42	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.5	U	33.5	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.9	U	38.9	200	ug/Kg
99-09-2	3-Nitroaniline	53.3	U	53.3	200	ug/Kg
83-32-9	Acenaphthene	24.7	U	24.7	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	26.3	U	26.3	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	58.0	U	58.0	200	ug/Kg
84-66-2	Diethylphthalate	32.8	U	32.8	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.9	U	30.9	200	ug/Kg
86-73-7	Fluorene	29.3	U	29.3	200	ug/Kg
100-01-6	4-Nitroaniline	74.3	U	74.3	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.1	U	38.1	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.2	U	32.2	200	ug/Kg
118-74-1	Hexachlorobenzene	29.3	U	29.3	200	ug/Kg
1912-24-9	Atrazine	39.4	U	39.4	200	ug/Kg
87-86-5	Pentachlorophenol	59.4	U	59.4	380	ug/Kg
85-01-8	Phenanthrene	24.2	U	24.2	200	ug/Kg
120-12-7	Anthracene	38.6	U	38.6	200	ug/Kg
86-74-8	Carbazole	36.1	U	36.1	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.5	U	55.5	200	ug/Kg
206-44-0	Fluoranthene	130	J	34.7	200	ug/Kg
129-00-0	Pyrene	100	J	41.7	200	ug/Kg
85-68-7	Butylbenzylphthalate	82.7	U	82.7	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.5	U	42.5	380	ug/Kg
56-55-3	Benzo(a)anthracene	26.6	U	26.6	200	ug/Kg
218-01-9	Chrysene	23.0	U	23.0	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	68.5	U	68.5	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	77.9	J	22.0	200	ug/Kg

Raw Data: **BF142583.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-42	SDG No.:	Q2150
Lab Sample ID:	Q2150-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.2
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142583.D	1	05/30/25 09:50	05/30/25 21:42	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.9	U	25.9	200	ug/Kg
50-32-8	Benzo(a)pyrene	34.2	U	34.2	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.7	U	33.7	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.7	U	31.7	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.8	U	29.8	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.6	U	29.6	200	ug/Kg
123-91-1	1,4-Dioxane	52.3	U	52.3	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.7	U	31.7	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	78.1		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	78.9		15 - 107	53%	SPK: 150
4165-60-0	Nitrobenzene-d5	48.9		18 - 107	49%	SPK: 100
321-60-8	2-Fluorobiphenyl	46.0		20 - 109	46%	SPK: 100
118-79-6	2,4,6-Tribromophenol	69.5		10 - 116	46%	SPK: 150
1718-51-0	Terphenyl-d14	37.3		10 - 105	37%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	143000	6.898			
1146-65-2	Naphthalene-d8	546000	8.181			
15067-26-2	Acenaphthene-d10	277000	9.933			
1517-22-2	Phenanthrene-d10	434000	11.421			
1719-03-5	Chrysene-d12	257000	14.068			
1520-96-3	Perylene-d12	308000	15.562			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB		5.12	ug/Kg
000119-61-9	Benzophenone	150	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	190	J		11.9	ug/Kg
1010351-87-0	Heptadecyl trifluoroacetate	110	J		13.9	ug/Kg

Raw Data: **BF142583.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-42	SDG No.:	Q2150
Lab Sample ID:	Q2150-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.2
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142583.D	1	05/30/25 09:50	05/30/25 21:42	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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

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

Raw Data: **BF142580.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-39	SDG No.:	Q2150
Lab Sample ID:	Q2150-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
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
BF142580.D	1	05/30/25 09:50	05/30/25 20:14	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	390	ug/Kg
108-95-2	Phenol	26.3	U	26.3	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.0	U	29.0	200	ug/Kg
95-57-8	2-Chlorophenol	29.1	U	29.1	200	ug/Kg
95-48-7	2-Methylphenol	35.6	U	35.6	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	44.7	U	44.7	200	ug/Kg
98-86-2	Acetophenone	35.2	U	35.2	200	ug/Kg
65794-96-9	3+4-Methylphenols	49.0	U	49.0	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	56.5	U	56.5	95.3	ug/Kg
67-72-1	Hexachloroethane	21.0	U	21.0	200	ug/Kg
98-95-3	Nitrobenzene	21.8	U	21.8	200	ug/Kg
78-59-1	Isophorone	39.1	U	39.1	200	ug/Kg
88-75-5	2-Nitrophenol	69.3	U	69.3	200	ug/Kg
105-67-9	2,4-Dimethylphenol	77.2	U	77.2	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.7	U	36.7	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.7	U	33.7	200	ug/Kg
91-20-3	Naphthalene	27.0	U	27.0	200	ug/Kg
106-47-8	4-Chloroaniline	42.2	U	42.2	200	ug/Kg
87-68-3	Hexachlorobutadiene	30.1	U	30.1	200	ug/Kg
105-60-2	Caprolactam	62.1	U	62.1	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.2	U	34.2	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.5	U	30.5	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.6	U	23.6	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.7	U	34.7	200	ug/Kg
92-52-4	1,1-Biphenyl	26.0	U	26.0	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.8	U	26.8	200	ug/Kg
88-74-4	2-Nitroaniline	57.3	U	57.3	200	ug/Kg
131-11-3	Dimethylphthalate	32.3	U	32.3	200	ug/Kg

Raw Data: **BF142580.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-39	SDG No.:	Q2150
Lab Sample ID:	Q2150-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
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
BF142580.D	1	05/30/25 09:50	05/30/25 20:14	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	34.4	U	34.4	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.0	U	40.0	200	ug/Kg
99-09-2	3-Nitroaniline	54.8	U	54.8	200	ug/Kg
83-32-9	Acenaphthene	25.4	U	25.4	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	390	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	390	ug/Kg
132-64-9	Dibenzofuran	27.0	U	27.0	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	59.7	U	59.7	200	ug/Kg
84-66-2	Diethylphthalate	33.7	U	33.7	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.8	U	31.8	200	ug/Kg
86-73-7	Fluorene	30.1	U	30.1	200	ug/Kg
100-01-6	4-Nitroaniline	76.5	U	76.5	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	39.2	U	39.2	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.1	U	33.1	200	ug/Kg
118-74-1	Hexachlorobenzene	30.1	U	30.1	200	ug/Kg
1912-24-9	Atrazine	40.5	U	40.5	200	ug/Kg
87-86-5	Pentachlorophenol	61.1	U	61.1	390	ug/Kg
85-01-8	Phenanthrene	96.6	J	24.9	200	ug/Kg
120-12-7	Anthracene	39.7	U	39.7	200	ug/Kg
86-74-8	Carbazole	37.2	U	37.2	200	ug/Kg
84-74-2	Di-n-butylphthalate	57.1	U	57.1	200	ug/Kg
206-44-0	Fluoranthene	130	J	35.7	200	ug/Kg
129-00-0	Pyrene	95.6	J	42.9	200	ug/Kg
85-68-7	Butylbenzylphthalate	85.1	U	85.1	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43.7	U	43.7	390	ug/Kg
56-55-3	Benzo(a)anthracene	27.4	U	27.4	200	ug/Kg
218-01-9	Chrysene	23.7	U	23.7	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	370		70.5	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	83.1	J	22.6	200	ug/Kg

Raw Data: **BF142580.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-39	SDG No.:	Q2150
Lab Sample ID:	Q2150-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
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
BF142580.D	1	05/30/25 09:50	05/30/25 20:14	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.7	U	26.7	200	ug/Kg
50-32-8	Benzo(a)pyrene	35.2	U	35.2	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	34.7	U	34.7	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.6	U	32.6	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.6	U	30.6	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.5	U	30.5	200	ug/Kg
123-91-1	1,4-Dioxane	53.9	U	53.9	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.6	U	32.6	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	122		18 - 112	81%	SPK: 150
13127-88-3	Phenol-d6	126		15 - 107	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	77.9		18 - 107	78%	SPK: 100
321-60-8	2-Fluorobiphenyl	71.9		20 - 109	72%	SPK: 100
118-79-6	2,4,6-Tribromophenol	124		10 - 116	82%	SPK: 150
1718-51-0	Terphenyl-d14	67.6		10 - 105	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	122000	6.898			
1146-65-2	Naphthalene-d8	461000	8.181			
15067-26-2	Acenaphthene-d10	242000	9.933			
1517-22-2	Phenanthrene-d10	399000	11.422			
1719-03-5	Chrysene-d12	235000	14.068			
1520-96-3	Perylene-d12	244000	15.562			
TENTATIVE IDENTIFIED COMPOUNDS						
002916-31-6	1,3-Dioxolane, 2,2-dimethyl-	160	J		2.41	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	430	AB		5.12	ug/Kg
000119-61-9	Benzophenone	260	J		10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	340	J		12.0	ug/Kg
015594-90-8	1-Heneicosanol	140	J		13.9	ug/Kg

Raw Data: **BF142580.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-39	SDG No.:	Q2150
Lab Sample ID:	Q2150-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
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
BF142580.D	1	05/30/25 09:50	05/30/25 20:14	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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

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

Raw Data: **BF142581.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-48	SDG No.:	Q2150
Lab Sample ID:	Q2150-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	80.7
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
BF142581.D	1	05/30/25 09:50	05/30/25 20:43	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	410	ug/Kg
108-95-2	Phenol	27.3	U	27.3	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	30.1	U	30.1	210	ug/Kg
95-57-8	2-Chlorophenol	30.2	U	30.2	210	ug/Kg
95-48-7	2-Methylphenol	37.0	U	37.0	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	46.4	U	46.4	210	ug/Kg
98-86-2	Acetophenone	36.5	U	36.5	210	ug/Kg
65794-96-9	3+4-Methylphenols	50.8	U	50.8	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	58.6	U	58.6	99.0	ug/Kg
67-72-1	Hexachloroethane	21.8	U	21.8	210	ug/Kg
98-95-3	Nitrobenzene	22.6	U	22.6	210	ug/Kg
78-59-1	Isophorone	40.6	U	40.6	210	ug/Kg
88-75-5	2-Nitrophenol	72.0	U	72.0	210	ug/Kg
105-67-9	2,4-Dimethylphenol	80.2	U	80.2	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	38.1	U	38.1	210	ug/Kg
120-83-2	2,4-Dichlorophenol	35.0	U	35.0	210	ug/Kg
91-20-3	Naphthalene	28.1	U	28.1	210	ug/Kg
106-47-8	4-Chloroaniline	43.8	U	43.8	210	ug/Kg
87-68-3	Hexachlorobutadiene	31.3	U	31.3	210	ug/Kg
105-60-2	Caprolactam	64.5	U	64.5	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	35.5	U	35.5	210	ug/Kg
91-57-6	2-Methylnaphthalene	31.7	U	31.7	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	24.5	U	24.5	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	36.0	U	36.0	210	ug/Kg
92-52-4	1,1-Biphenyl	27.0	U	27.0	210	ug/Kg
91-58-7	2-Chloronaphthalene	27.8	U	27.8	210	ug/Kg
88-74-4	2-Nitroaniline	59.5	U	59.5	210	ug/Kg
131-11-3	Dimethylphthalate	33.5	U	33.5	210	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-48	SDG No.:	Q2150
Lab Sample ID:	Q2150-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	80.7
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
BF142581.D	1	05/30/25 09:50	05/30/25 20:43	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	35.8	U	35.8	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	41.6	U	41.6	210	ug/Kg
99-09-2	3-Nitroaniline	56.9	U	56.9	210	ug/Kg
83-32-9	Acenaphthene	26.4	U	26.4	210	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	410	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	410	ug/Kg
132-64-9	Dibenzofuran	28.1	U	28.1	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	62.0	U	62.0	210	ug/Kg
84-66-2	Diethylphthalate	35.0	U	35.0	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	33.0	U	33.0	210	ug/Kg
86-73-7	Fluorene	31.3	U	31.3	210	ug/Kg
100-01-6	4-Nitroaniline	79.4	U	79.4	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	40.7	U	40.7	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	34.4	U	34.4	210	ug/Kg
118-74-1	Hexachlorobenzene	31.3	U	31.3	210	ug/Kg
1912-24-9	Atrazine	42.1	U	42.1	210	ug/Kg
87-86-5	Pentachlorophenol	63.5	U	63.5	410	ug/Kg
85-01-8	Phenanthrene	25.9	U	25.9	210	ug/Kg
120-12-7	Anthracene	41.2	U	41.2	210	ug/Kg
86-74-8	Carbazole	38.6	U	38.6	210	ug/Kg
84-74-2	Di-n-butylphthalate	59.3	U	59.3	210	ug/Kg
206-44-0	Fluoranthene	37.1	U	37.1	210	ug/Kg
129-00-0	Pyrene	44.5	U	44.5	210	ug/Kg
85-68-7	Butylbenzylphthalate	88.3	U	88.3	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	45.4	U	45.4	410	ug/Kg
56-55-3	Benzo(a)anthracene	28.5	U	28.5	210	ug/Kg
218-01-9	Chrysene	24.6	U	24.6	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	73.2	U	73.2	210	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	23.5	U	23.5	210	ug/Kg

Raw Data: **BF142581.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-48	SDG No.:	Q2150
Lab Sample ID:	Q2150-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	80.7
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
BF142581.D	1	05/30/25 09:50	05/30/25 20:43	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	27.7	U	27.7	210	ug/Kg
50-32-8	Benzo(a)pyrene	36.5	U	36.5	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	36.0	U	36.0	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	33.9	U	33.9	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	31.8	U	31.8	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	31.7	U	31.7	210	ug/Kg
123-91-1	1,4-Dioxane	55.9	U	55.9	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	33.9	U	33.9	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	128		18 - 112	85%	SPK: 150
13127-88-3	Phenol-d6	130		15 - 107	87%	SPK: 150
4165-60-0	Nitrobenzene-d5	83.0		18 - 107	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.0		20 - 109	74%	SPK: 100
118-79-6	2,4,6-Tribromophenol	128		10 - 116	85%	SPK: 150
1718-51-0	Terphenyl-d14	67.5		10 - 105	67%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	128000	6.898			
1146-65-2	Naphthalene-d8	479000	8.181			
15067-26-2	Acenaphthene-d10	252000	9.933			
1517-22-2	Phenanthrene-d10	420000	11.421			
1719-03-5	Chrysene-d12	240000	14.068			
1520-96-3	Perylene-d12	261000	15.562			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	460	AB		5.13	ug/Kg
000119-61-9	Benzophenone	280	J		10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	430	J		12.0	ug/Kg
959085-66-6	Heptadecyl heptafluorobutyrate	180	J		13.9	ug/Kg

Raw Data: **BF142581.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-48	SDG No.:	Q2150
Lab Sample ID:	Q2150-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	80.7
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
BF142581.D	1	05/30/25 09:50	05/30/25 20:43	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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

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

Raw Data: **BF142569.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-47	SDG No.:	Q2150
Lab Sample ID:	Q2150-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142569.D	1	05/30/25 09:50	05/30/25 14:52	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	410	ug/Kg
108-95-2	Phenol	27.2	U	27.2	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	30.0	U	30.0	210	ug/Kg
95-57-8	2-Chlorophenol	30.1	U	30.1	210	ug/Kg
95-48-7	2-Methylphenol	36.9	U	36.9	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	46.2	U	46.2	210	ug/Kg
98-86-2	Acetophenone	36.4	U	36.4	210	ug/Kg
65794-96-9	3+4-Methylphenols	50.7	U	50.7	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	58.4	U	58.4	98.6	ug/Kg
67-72-1	Hexachloroethane	21.7	U	21.7	210	ug/Kg
98-95-3	Nitrobenzene	22.6	U	22.6	210	ug/Kg
78-59-1	Isophorone	40.4	U	40.4	210	ug/Kg
88-75-5	2-Nitrophenol	71.8	U	71.8	210	ug/Kg
105-67-9	2,4-Dimethylphenol	79.9	U	79.9	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	38.0	U	38.0	210	ug/Kg
120-83-2	2,4-Dichlorophenol	34.9	U	34.9	210	ug/Kg
91-20-3	Naphthalene	28.0	U	28.0	210	ug/Kg
106-47-8	4-Chloroaniline	43.6	U	43.6	210	ug/Kg
87-68-3	Hexachlorobutadiene	31.2	U	31.2	210	ug/Kg
105-60-2	Caprolactam	64.2	U	64.2	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	35.4	U	35.4	210	ug/Kg
91-57-6	2-Methylnaphthalene	31.6	U	31.6	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	24.4	U	24.4	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	35.9	U	35.9	210	ug/Kg
92-52-4	1,1-Biphenyl	26.9	U	26.9	210	ug/Kg
91-58-7	2-Chloronaphthalene	27.7	U	27.7	210	ug/Kg
88-74-4	2-Nitroaniline	59.3	U	59.3	210	ug/Kg
131-11-3	Dimethylphthalate	33.4	U	33.4	210	ug/Kg

Raw Data: **BF142569.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-47	SDG No.:	Q2150
Lab Sample ID:	Q2150-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142569.D	1	05/30/25 09:50	05/30/25 14:52	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	35.6	U	35.6	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	41.4	U	41.4	210	ug/Kg
99-09-2	3-Nitroaniline	56.7	U	56.7	210	ug/Kg
83-32-9	Acenaphthene	26.3	U	26.3	210	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	410	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	410	ug/Kg
132-64-9	Dibenzofuran	28.0	U	28.0	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	61.8	U	61.8	210	ug/Kg
84-66-2	Diethylphthalate	34.9	U	34.9	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	32.9	U	32.9	210	ug/Kg
86-73-7	Fluorene	31.2	U	31.2	210	ug/Kg
100-01-6	4-Nitroaniline	79.2	U	79.2	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	40.6	U	40.6	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	34.3	U	34.3	210	ug/Kg
118-74-1	Hexachlorobenzene	31.2	U	31.2	210	ug/Kg
1912-24-9	Atrazine	41.9	U	41.9	210	ug/Kg
87-86-5	Pentachlorophenol	63.2	U	63.2	410	ug/Kg
85-01-8	Phenanthrene	25.8	U	25.8	210	ug/Kg
120-12-7	Anthracene	41.1	U	41.1	210	ug/Kg
86-74-8	Carbazole	38.5	U	38.5	210	ug/Kg
84-74-2	Di-n-butylphthalate	59.1	U	59.1	210	ug/Kg
206-44-0	Fluoranthene	37.0	U	37.0	210	ug/Kg
129-00-0	Pyrene	44.4	U	44.4	210	ug/Kg
85-68-7	Butylbenzylphthalate	88.0	U	88.0	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	45.2	U	45.2	410	ug/Kg
56-55-3	Benzo(a)anthracene	28.4	U	28.4	210	ug/Kg
218-01-9	Chrysene	24.5	U	24.5	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	73.0	U	73.0	210	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	23.4	U	23.4	210	ug/Kg

Raw Data: **BF142569.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-47	SDG No.:	Q2150
Lab Sample ID:	Q2150-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142569.D	1	05/30/25 09:50	05/30/25 14:52	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	27.6	U	27.6	210	ug/Kg
50-32-8	Benzo(a)pyrene	36.4	U	36.4	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	35.9	U	35.9	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	33.8	U	33.8	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	31.7	U	31.7	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	31.6	U	31.6	210	ug/Kg
123-91-1	1,4-Dioxane	55.7	U	55.7	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	33.8	U	33.8	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	81.7		18 - 112	54%	SPK: 150
13127-88-3	Phenol-d6	83.6		15 - 107	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	51.5		18 - 107	51%	SPK: 100
321-60-8	2-Fluorobiphenyl	49.7		20 - 109	50%	SPK: 100
118-79-6	2,4,6-Tribromophenol	80.9		10 - 116	54%	SPK: 150
1718-51-0	Terphenyl-d14	45.5		10 - 105	45%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	120000	6.898			
1146-65-2	Naphthalene-d8	453000	8.181			
15067-26-2	Acenaphthene-d10	238000	9.939			
1517-22-2	Phenanthrene-d10	379000	11.422			
1719-03-5	Chrysene-d12	214000	14.068			
1520-96-3	Perylene-d12	234000	15.563			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	290	AB		5.12	ug/Kg
000119-61-9	Benzophenone	180	J		10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	410	J		11.9	ug/Kg
000057-11-4	Octadecanoic acid	150	J		12.7	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	200	J		13.9	ug/Kg

Raw Data: **BF142569.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-47	SDG No.:	Q2150
Lab Sample ID:	Q2150-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142569.D	1	05/30/25 09:50	05/30/25 14:52	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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

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

Raw Data: **BF142584.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-50	SDG No.:	Q2150
Lab Sample ID:	Q2150-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86
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
BF142584.D	1	05/30/25 09:50	05/30/25 22:11	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	380	ug/Kg
108-95-2	Phenol	25.7	U	25.7	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.2	U	28.2	200	ug/Kg
95-57-8	2-Chlorophenol	28.4	U	28.4	200	ug/Kg
95-48-7	2-Methylphenol	34.7	U	34.7	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.6	U	43.6	200	ug/Kg
98-86-2	Acetophenone	34.3	U	34.3	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.8	U	47.8	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.1	U	55.1	93.0	ug/Kg
67-72-1	Hexachloroethane	20.5	U	20.5	200	ug/Kg
98-95-3	Nitrobenzene	21.3	U	21.3	200	ug/Kg
78-59-1	Isophorone	38.1	U	38.1	200	ug/Kg
88-75-5	2-Nitrophenol	67.6	U	67.6	200	ug/Kg
105-67-9	2,4-Dimethylphenol	75.3	U	75.3	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.8	U	35.8	200	ug/Kg
120-83-2	2,4-Dichlorophenol	32.9	U	32.9	200	ug/Kg
91-20-3	Naphthalene	26.4	U	26.4	200	ug/Kg
106-47-8	4-Chloroaniline	41.1	U	41.1	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.4	U	29.4	200	ug/Kg
105-60-2	Caprolactam	60.5	U	60.5	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.3	U	33.3	200	ug/Kg
91-57-6	2-Methylnaphthalene	29.7	U	29.7	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.0	U	23.0	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.8	U	33.8	200	ug/Kg
92-52-4	1,1-Biphenyl	25.3	U	25.3	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.1	U	26.1	200	ug/Kg
88-74-4	2-Nitroaniline	55.9	U	55.9	200	ug/Kg
131-11-3	Dimethylphthalate	31.5	U	31.5	200	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-50	SDG No.:	Q2150
Lab Sample ID:	Q2150-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86
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
BF142584.D	1	05/30/25 09:50	05/30/25 22:11	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.6	U	33.6	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.0	U	39.0	200	ug/Kg
99-09-2	3-Nitroaniline	53.5	U	53.5	200	ug/Kg
83-32-9	Acenaphthene	24.8	U	24.8	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	26.4	U	26.4	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	58.2	U	58.2	200	ug/Kg
84-66-2	Diethylphthalate	32.9	U	32.9	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.0	U	31.0	200	ug/Kg
86-73-7	Fluorene	29.4	U	29.4	200	ug/Kg
100-01-6	4-Nitroaniline	74.6	U	74.6	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.2	U	38.2	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.3	U	32.3	200	ug/Kg
118-74-1	Hexachlorobenzene	29.4	U	29.4	200	ug/Kg
1912-24-9	Atrazine	39.5	U	39.5	200	ug/Kg
87-86-5	Pentachlorophenol	59.6	U	59.6	380	ug/Kg
85-01-8	Phenanthrene	280		24.3	200	ug/Kg
120-12-7	Anthracene	86.9	J	38.7	200	ug/Kg
86-74-8	Carbazole	36.3	U	36.3	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.7	U	55.7	200	ug/Kg
206-44-0	Fluoranthene	670		34.9	200	ug/Kg
129-00-0	Pyrene	350		41.8	200	ug/Kg
85-68-7	Butylbenzylphthalate	83.0	U	83.0	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.6	U	42.6	380	ug/Kg
56-55-3	Benzo(a)anthracene	340		26.7	200	ug/Kg
218-01-9	Chrysene	290		23.1	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	68.8	U	68.8	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	440		22.1	200	ug/Kg

Raw Data: **BF142584.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-50	SDG No.:	Q2150
Lab Sample ID:	Q2150-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86
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
BF142584.D	1	05/30/25 09:50	05/30/25 22:11	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	150	J	26.0	200	ug/Kg
50-32-8	Benzo(a)pyrene	320		34.3	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	110	J	33.8	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.8	U	31.8	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	130	J	29.9	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.7	U	29.7	200	ug/Kg
123-91-1	1,4-Dioxane	52.5	U	52.5	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.8	U	31.8	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	77.6		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	75.5		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	49.6		18 - 107	50%	SPK: 100
321-60-8	2-Fluorobiphenyl	53.5		20 - 109	53%	SPK: 100
118-79-6	2,4,6-Tribromophenol	61.4		10 - 116	41%	SPK: 150
1718-51-0	Terphenyl-d14	33.4		10 - 105	33%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	132000	6.898			
1146-65-2	Naphthalene-d8	471000	8.181			
15067-26-2	Acenaphthene-d10	213000	9.934			
1517-22-2	Phenanthrene-d10	295000	11.422			
1719-03-5	Chrysene-d12	274000	14.069			
1520-96-3	Perylene-d12	279000	15.563			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB		5.12	ug/Kg
000119-61-9	Benzophenone	130	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	240	J		11.9	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	90.2	J		12.0	ug/Kg
000479-79-8	11H-Benzo[a]fluoren-11-one	110	J		13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	210	J		15.4	ug/Kg

Raw Data: **BF142584.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-50	SDG No.:	Q2150
Lab Sample ID:	Q2150-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86
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
BF142584.D	1	05/30/25 09:50	05/30/25 22:11	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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

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

Raw Data: **BF142579.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-51	SDG No.:	Q2150
Lab Sample ID:	Q2150-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
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
BF142579.D	1	05/30/25 09:50	05/30/25 19:45	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	390	ug/Kg
108-95-2	Phenol	26.4	U	26.4	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.0	U	29.0	200	ug/Kg
95-57-8	2-Chlorophenol	29.1	U	29.1	200	ug/Kg
95-48-7	2-Methylphenol	35.7	U	35.7	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	44.8	U	44.8	200	ug/Kg
98-86-2	Acetophenone	35.2	U	35.2	200	ug/Kg
65794-96-9	3+4-Methylphenols	49.1	U	49.1	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	56.6	U	56.6	95.5	ug/Kg
67-72-1	Hexachloroethane	21.0	U	21.0	200	ug/Kg
98-95-3	Nitrobenzene	21.8	U	21.8	200	ug/Kg
78-59-1	Isophorone	39.1	U	39.1	200	ug/Kg
88-75-5	2-Nitrophenol	69.5	U	69.5	200	ug/Kg
105-67-9	2,4-Dimethylphenol	77.3	U	77.3	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.8	U	36.8	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.8	U	33.8	200	ug/Kg
91-20-3	Naphthalene	27.1	U	27.1	200	ug/Kg
106-47-8	4-Chloroaniline	42.3	U	42.3	200	ug/Kg
87-68-3	Hexachlorobutadiene	30.2	U	30.2	200	ug/Kg
105-60-2	Caprolactam	62.2	U	62.2	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.3	U	34.3	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.6	U	30.6	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.6	U	23.6	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.7	U	34.7	200	ug/Kg
92-52-4	1,1-Biphenyl	26.0	U	26.0	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.9	U	26.9	200	ug/Kg
88-74-4	2-Nitroaniline	57.4	U	57.4	200	ug/Kg
131-11-3	Dimethylphthalate	32.3	U	32.3	200	ug/Kg

Raw Data: **BF142579.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-51	SDG No.:	Q2150
Lab Sample ID:	Q2150-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
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
BF142579.D	1	05/30/25 09:50	05/30/25 19:45	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	34.5	U	34.5	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.1	U	40.1	200	ug/Kg
99-09-2	3-Nitroaniline	54.9	U	54.9	200	ug/Kg
83-32-9	Acenaphthene	25.4	U	25.4	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	390	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	390	ug/Kg
132-64-9	Dibenzofuran	27.1	U	27.1	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	59.8	U	59.8	200	ug/Kg
84-66-2	Diethylphthalate	33.8	U	33.8	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.9	U	31.9	200	ug/Kg
86-73-7	Fluorene	30.2	U	30.2	200	ug/Kg
100-01-6	4-Nitroaniline	76.6	U	76.6	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	39.3	U	39.3	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.2	U	33.2	200	ug/Kg
118-74-1	Hexachlorobenzene	30.2	U	30.2	200	ug/Kg
1912-24-9	Atrazine	40.6	U	40.6	200	ug/Kg
87-86-5	Pentachlorophenol	61.2	U	61.2	390	ug/Kg
85-01-8	Phenanthrene	24.9	U	24.9	200	ug/Kg
120-12-7	Anthracene	39.7	U	39.7	200	ug/Kg
86-74-8	Carbazole	37.2	U	37.2	200	ug/Kg
84-74-2	Di-n-butylphthalate	57.2	U	57.2	200	ug/Kg
206-44-0	Fluoranthene	35.8	U	35.8	200	ug/Kg
129-00-0	Pyrene	43.0	U	43.0	200	ug/Kg
85-68-7	Butylbenzylphthalate	85.2	U	85.2	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43.8	U	43.8	390	ug/Kg
56-55-3	Benzo(a)anthracene	27.5	U	27.5	200	ug/Kg
218-01-9	Chrysene	23.8	U	23.8	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	70.7	U	70.7	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.7	U	22.7	200	ug/Kg

Raw Data: **BF142579.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-51	SDG No.:	Q2150
Lab Sample ID:	Q2150-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
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
BF142579.D	1	05/30/25 09:50	05/30/25 19:45	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.7	U	26.7	200	ug/Kg
50-32-8	Benzo(a)pyrene	35.2	U	35.2	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	34.7	U	34.7	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.7	U	32.7	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.7	U	30.7	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.6	U	30.6	200	ug/Kg
123-91-1	1,4-Dioxane	53.9	U	53.9	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.7	U	32.7	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	122		18 - 112	81%	SPK: 150
13127-88-3	Phenol-d6	126		15 - 107	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	78.0		18 - 107	78%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.9		20 - 109	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	121		10 - 116	81%	SPK: 150
1718-51-0	Terphenyl-d14	70.5		10 - 105	71%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	123000	6.898			
1146-65-2	Naphthalene-d8	466000	8.181			
15067-26-2	Acenaphthene-d10	242000	9.933			
1517-22-2	Phenanthrene-d10	396000	11.422			
1719-03-5	Chrysene-d12	235000	14.063			
1520-96-3	Perylene-d12	242000	15.562			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	410	AB		5.13	ug/Kg
	unknown10.345	130	J		10.3	ug/Kg
000119-61-9	Benzophenone	200	J		10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	330	J		11.9	ug/Kg
010192-32-2	1-Tetracosene	430	J		13.9	ug/Kg
1000406-04-8	Pentadecafluorooctanoic acid, octa	110	J		14.5	ug/Kg

Raw Data: **BF142579.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/27/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-51	SDG No.:	Q2150
Lab Sample ID:	Q2150-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
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
BF142579.D	1	05/30/25 09:50	05/30/25 19:45	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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

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

Raw Data: **BF142585.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-52	SDG No.:	Q2150
Lab Sample ID:	Q2150-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.7
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
BF142585.D	1	05/30/25 09:50	05/30/25 22:41	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	380	ug/Kg
108-95-2	Phenol	25.7	U	25.7	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.3	U	28.3	200	ug/Kg
95-57-8	2-Chlorophenol	28.4	U	28.4	200	ug/Kg
95-48-7	2-Methylphenol	34.8	U	34.8	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.7	U	43.7	200	ug/Kg
98-86-2	Acetophenone	34.4	U	34.4	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.9	U	47.9	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.2	U	55.2	93.2	ug/Kg
67-72-1	Hexachloroethane	20.5	U	20.5	200	ug/Kg
98-95-3	Nitrobenzene	21.3	U	21.3	200	ug/Kg
78-59-1	Isophorone	38.2	U	38.2	200	ug/Kg
88-75-5	2-Nitrophenol	67.8	U	67.8	200	ug/Kg
105-67-9	2,4-Dimethylphenol	75.5	U	75.5	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.9	U	35.9	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.0	U	33.0	200	ug/Kg
91-20-3	Naphthalene	26.4	U	26.4	200	ug/Kg
106-47-8	4-Chloroaniline	41.2	U	41.2	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.5	U	29.5	200	ug/Kg
105-60-2	Caprolactam	60.7	U	60.7	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.4	U	33.4	200	ug/Kg
91-57-6	2-Methylnaphthalene	29.8	U	29.8	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.1	U	23.1	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.9	U	33.9	200	ug/Kg
92-52-4	1,1-Biphenyl	25.4	U	25.4	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.2	U	26.2	200	ug/Kg
88-74-4	2-Nitroaniline	56.0	U	56.0	200	ug/Kg
131-11-3	Dimethylphthalate	31.6	U	31.6	200	ug/Kg

Raw Data: **BF142585.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-52	SDG No.:	Q2150
Lab Sample ID:	Q2150-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.7
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
BF142585.D	1	05/30/25 09:50	05/30/25 22:41	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	92.6	J	33.7	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.1	U	39.1	200	ug/Kg
99-09-2	3-Nitroaniline	53.6	U	53.6	200	ug/Kg
83-32-9	Acenaphthene	24.8	U	24.8	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	26.4	U	26.4	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	58.4	U	58.4	200	ug/Kg
84-66-2	Diethylphthalate	33.0	U	33.0	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.1	U	31.1	200	ug/Kg
86-73-7	Fluorene	29.5	U	29.5	200	ug/Kg
100-01-6	4-Nitroaniline	74.8	U	74.8	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.3	U	38.3	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.4	U	32.4	200	ug/Kg
118-74-1	Hexachlorobenzene	29.5	U	29.5	200	ug/Kg
1912-24-9	Atrazine	39.6	U	39.6	200	ug/Kg
87-86-5	Pentachlorophenol	59.8	U	59.8	380	ug/Kg
85-01-8	Phenanthrene	270		24.3	200	ug/Kg
120-12-7	Anthracene	140	J	38.8	200	ug/Kg
86-74-8	Carbazole	36.3	U	36.3	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.8	U	55.8	200	ug/Kg
206-44-0	Fluoranthene	1300		34.9	200	ug/Kg
129-00-0	Pyrene	770		41.9	200	ug/Kg
85-68-7	Butylbenzylphthalate	83.2	U	83.2	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.8	U	42.8	380	ug/Kg
56-55-3	Benzo(a)anthracene	750		26.8	200	ug/Kg
218-01-9	Chrysene	780		23.2	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	69.0	U	69.0	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	1100		22.1	200	ug/Kg

Raw Data: **BF142585.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-52	SDG No.:	Q2150
Lab Sample ID:	Q2150-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.7
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
BF142585.D	1	05/30/25 09:50	05/30/25 22:41	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	360		26.1	200	ug/Kg
50-32-8	Benzo(a)pyrene	830		34.4	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	300		33.9	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	93.9	J	31.9	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	350		29.9	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.8	U	29.8	200	ug/Kg
123-91-1	1,4-Dioxane	52.7	U	52.7	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.9	U	31.9	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	89.7		18 - 112	60%	SPK: 150
13127-88-3	Phenol-d6	89.5		15 - 107	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	57.0		18 - 107	57%	SPK: 100
321-60-8	2-Fluorobiphenyl	55.0		20 - 109	55%	SPK: 100
118-79-6	2,4,6-Tribromophenol	75.4		10 - 116	50%	SPK: 150
1718-51-0	Terphenyl-d14	36.4		10 - 105	36%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	134000	6.898			
1146-65-2	Naphthalene-d8	477000	8.181			
15067-26-2	Acenaphthene-d10	214000	9.939			
1517-22-2	Phenanthrene-d10	298000	11.427			
1719-03-5	Chrysene-d12	272000	14.068			
1520-96-3	Perylene-d12	265000	15.568			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	290	AB		5.12	ug/Kg
000111-76-2	Ethanol, 2-butoxy-	79.6	J		5.84	ug/Kg
000119-61-9	Benzophenone	170	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	460	J		12.0	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	220	J		12.0	ug/Kg
003674-66-6	Phenanthrene, 2,5-dimethyl-	100	J		12.5	ug/Kg
000781-17-9	Pyrene, 4,5,9,10-tetrahydro-	83.1	J		12.5	ug/Kg

Raw Data: **BF142585.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-52	SDG No.:	Q2150
Lab Sample ID:	Q2150-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.7
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
BF142585.D	1	05/30/25 09:50	05/30/25 22:41	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000238-84-6	11H-Benzo[a]fluorene	130	J		13.2	ug/Kg
1000406-04-8	Pentadecafluorooctanoic acid, octa	94.4	J		13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	190	J		15.2	ug/Kg
000198-55-0	Perylene	630	J		15.4	ug/Kg

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

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

Raw Data: **BF142570.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-54	SDG No.:	Q2150
Lab Sample ID:	Q2150-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.6
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
BF142570.D	1	05/30/25 09:50	05/30/25 15:21	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	390	ug/Kg
108-95-2	Phenol	26.4	U	26.4	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.1	U	29.1	200	ug/Kg
95-57-8	2-Chlorophenol	29.2	U	29.2	200	ug/Kg
95-48-7	2-Methylphenol	35.8	U	35.8	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	44.8	U	44.8	200	ug/Kg
98-86-2	Acetophenone	35.3	U	35.3	200	ug/Kg
65794-96-9	3+4-Methylphenols	49.1	U	49.1	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	56.7	U	56.7	95.7	ug/Kg
67-72-1	Hexachloroethane	21.0	U	21.0	200	ug/Kg
98-95-3	Nitrobenzene	21.9	U	21.9	200	ug/Kg
78-59-1	Isophorone	39.2	U	39.2	200	ug/Kg
88-75-5	2-Nitrophenol	69.6	U	69.6	200	ug/Kg
105-67-9	2,4-Dimethylphenol	77.5	U	77.5	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.8	U	36.8	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.8	U	33.8	200	ug/Kg
91-20-3	Naphthalene	27.1	U	27.1	200	ug/Kg
106-47-8	4-Chloroaniline	42.3	U	42.3	200	ug/Kg
87-68-3	Hexachlorobutadiene	30.3	U	30.3	200	ug/Kg
105-60-2	Caprolactam	62.3	U	62.3	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.3	U	34.3	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.6	U	30.6	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.7	U	23.7	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.8	U	34.8	200	ug/Kg
92-52-4	1,1-Biphenyl	26.1	U	26.1	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.9	U	26.9	200	ug/Kg
88-74-4	2-Nitroaniline	57.5	U	57.5	200	ug/Kg
131-11-3	Dimethylphthalate	32.4	U	32.4	200	ug/Kg

Raw Data: **BF142570.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-54	SDG No.:	Q2150
Lab Sample ID:	Q2150-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.6
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
BF142570.D	1	05/30/25 09:50	05/30/25 15:21	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	34.6	U	34.6	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.2	U	40.2	200	ug/Kg
99-09-2	3-Nitroaniline	55.0	U	55.0	200	ug/Kg
83-32-9	Acenaphthene	25.5	U	25.5	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	390	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	390	ug/Kg
132-64-9	Dibenzofuran	27.1	U	27.1	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	59.9	U	59.9	200	ug/Kg
84-66-2	Diethylphthalate	33.8	U	33.8	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.9	U	31.9	200	ug/Kg
86-73-7	Fluorene	30.3	U	30.3	200	ug/Kg
100-01-6	4-Nitroaniline	76.8	U	76.8	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	39.3	U	39.3	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.2	U	33.2	200	ug/Kg
118-74-1	Hexachlorobenzene	30.3	U	30.3	200	ug/Kg
1912-24-9	Atrazine	40.7	U	40.7	200	ug/Kg
87-86-5	Pentachlorophenol	61.3	U	61.3	390	ug/Kg
85-01-8	Phenanthrene	25.0	U	25.0	200	ug/Kg
120-12-7	Anthracene	39.8	U	39.8	200	ug/Kg
86-74-8	Carbazole	37.3	U	37.3	200	ug/Kg
84-74-2	Di-n-butylphthalate	57.3	U	57.3	200	ug/Kg
206-44-0	Fluoranthene	35.9	U	35.9	200	ug/Kg
129-00-0	Pyrene	43.0	U	43.0	200	ug/Kg
85-68-7	Butylbenzylphthalate	85.4	U	85.4	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43.9	U	43.9	390	ug/Kg
56-55-3	Benzo(a)anthracene	27.5	U	27.5	200	ug/Kg
218-01-9	Chrysene	23.8	U	23.8	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	70.8	U	70.8	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.7	U	22.7	200	ug/Kg

Raw Data: **BF142570.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-54	SDG No.:	Q2150
Lab Sample ID:	Q2150-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.6
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
BF142570.D	1	05/30/25 09:50	05/30/25 15:21	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.8	U	26.8	200	ug/Kg
50-32-8	Benzo(a)pyrene	35.3	U	35.3	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	34.8	U	34.8	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.8	U	32.8	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.7	U	30.7	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.6	U	30.6	200	ug/Kg
123-91-1	1,4-Dioxane	54.0	U	54.0	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.8	U	32.8	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	108		18 - 112	72%	SPK: 150
13127-88-3	Phenol-d6	112		15 - 107	75%	SPK: 150
4165-60-0	Nitrobenzene-d5	68.7		18 - 107	69%	SPK: 100
321-60-8	2-Fluorobiphenyl	62.7		20 - 109	63%	SPK: 100
118-79-6	2,4,6-Tribromophenol	118		10 - 116	79%	SPK: 150
1718-51-0	Terphenyl-d14	62.3		10 - 105	62%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	118000	6.898			
1146-65-2	Naphthalene-d8	442000	8.181			
15067-26-2	Acenaphthene-d10	231000	9.933			
1517-22-2	Phenanthrene-d10	379000	11.422			
1719-03-5	Chrysene-d12	216000	14.068			
1520-96-3	Perylene-d12	226000	15.562			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	360	AB		5.12	ug/Kg
000119-61-9	Benzophenone	250	J		10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	550	J		12.0	ug/Kg
000057-11-4	Octadecanoic acid	110	J		12.7	ug/Kg
079392-43-1	Octadecyl trifluoroacetate	360	J		13.9	ug/Kg
007683-64-9	Supraene	110	J		14.9	ug/Kg

Raw Data: **BF142570.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-54	SDG No.:	Q2150
Lab Sample ID:	Q2150-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.6
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
BF142570.D	1	05/30/25 09:50	05/30/25 15:21	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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

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

Raw Data: **BF142582.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-53	SDG No.:	Q2150
Lab Sample ID:	Q2150-10	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.3
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
BF142582.D	1	05/30/25 09:50	05/30/25 21:13	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	390	ug/Kg
108-95-2	Phenol	25.9	U	25.9	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.4	U	28.4	200	ug/Kg
95-57-8	2-Chlorophenol	28.6	U	28.6	200	ug/Kg
95-48-7	2-Methylphenol	35.0	U	35.0	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.9	U	43.9	200	ug/Kg
98-86-2	Acetophenone	34.5	U	34.5	200	ug/Kg
65794-96-9	3+4-Methylphenols	48.1	U	48.1	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.5	U	55.5	93.6	ug/Kg
67-72-1	Hexachloroethane	20.6	U	20.6	200	ug/Kg
98-95-3	Nitrobenzene	21.4	U	21.4	200	ug/Kg
78-59-1	Isophorone	38.4	U	38.4	200	ug/Kg
88-75-5	2-Nitrophenol	68.1	U	68.1	200	ug/Kg
105-67-9	2,4-Dimethylphenol	75.8	U	75.8	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.0	U	36.0	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.1	U	33.1	200	ug/Kg
91-20-3	Naphthalene	26.6	U	26.6	200	ug/Kg
106-47-8	4-Chloroaniline	41.4	U	41.4	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.6	U	29.6	200	ug/Kg
105-60-2	Caprolactam	61.0	U	61.0	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.6	U	33.6	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.0	U	30.0	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.2	U	23.2	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.1	U	34.1	200	ug/Kg
92-52-4	1,1-Biphenyl	25.5	U	25.5	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.3	U	26.3	200	ug/Kg
88-74-4	2-Nitroaniline	56.3	U	56.3	200	ug/Kg
131-11-3	Dimethylphthalate	31.7	U	31.7	200	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-53	SDG No.:	Q2150
Lab Sample ID:	Q2150-10	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.3
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
BF142582.D	1	05/30/25 09:50	05/30/25 21:13	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.8	U	33.8	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.3	U	39.3	200	ug/Kg
99-09-2	3-Nitroaniline	53.8	U	53.8	200	ug/Kg
83-32-9	Acenaphthene	24.9	U	24.9	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	390	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	390	ug/Kg
132-64-9	Dibenzofuran	26.6	U	26.6	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	58.6	U	58.6	200	ug/Kg
84-66-2	Diethylphthalate	33.1	U	33.1	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.2	U	31.2	200	ug/Kg
86-73-7	Fluorene	29.6	U	29.6	200	ug/Kg
100-01-6	4-Nitroaniline	75.1	U	75.1	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.5	U	38.5	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.5	U	32.5	200	ug/Kg
118-74-1	Hexachlorobenzene	29.6	U	29.6	200	ug/Kg
1912-24-9	Atrazine	39.8	U	39.8	200	ug/Kg
87-86-5	Pentachlorophenol	60.0	U	60.0	390	ug/Kg
85-01-8	Phenanthrene	24.5	U	24.5	200	ug/Kg
120-12-7	Anthracene	39.0	U	39.0	200	ug/Kg
86-74-8	Carbazole	36.5	U	36.5	200	ug/Kg
84-74-2	Di-n-butylphthalate	56.1	U	56.1	200	ug/Kg
206-44-0	Fluoranthene	35.1	U	35.1	200	ug/Kg
129-00-0	Pyrene	42.1	U	42.1	200	ug/Kg
85-68-7	Butylbenzylphthalate	83.6	U	83.6	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43.0	U	43.0	390	ug/Kg
56-55-3	Benzo(a)anthracene	26.9	U	26.9	200	ug/Kg
218-01-9	Chrysene	23.3	U	23.3	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	69.3	U	69.3	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.2	U	22.2	200	ug/Kg

Raw Data: **BF142582.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-53	SDG No.:	Q2150
Lab Sample ID:	Q2150-10	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.3
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
BF142582.D	1	05/30/25 09:50	05/30/25 21:13	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.2	U	26.2	200	ug/Kg
50-32-8	Benzo(a)pyrene	34.5	U	34.5	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	34.1	U	34.1	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.1	U	32.1	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.1	U	30.1	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.0	U	30.0	200	ug/Kg
123-91-1	1,4-Dioxane	52.9	U	52.9	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.1	U	32.1	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	82.6		18 - 112	55%	SPK: 150
13127-88-3	Phenol-d6	84.0		15 - 107	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	51.5		18 - 107	52%	SPK: 100
321-60-8	2-Fluorobiphenyl	47.6		20 - 109	48%	SPK: 100
118-79-6	2,4,6-Tribromophenol	73.2		10 - 116	49%	SPK: 150
1718-51-0	Terphenyl-d14	43.9		10 - 105	44%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	130000	6.898			
1146-65-2	Naphthalene-d8	495000	8.181			
15067-26-2	Acenaphthene-d10	255000	9.933			
1517-22-2	Phenanthrene-d10	399000	11.422			
1719-03-5	Chrysene-d12	232000	14.063			
1520-96-3	Perylene-d12	263000	15.562			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	270	AB		5.12	ug/Kg
000119-61-9	Benzophenone	130	J		10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	150	J		11.9	ug/Kg
074339-54-1	Trichloroacetic acid, hexadecyl es	160	J		13.9	ug/Kg

Raw Data: **BF142582.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-53	SDG No.:	Q2150
Lab Sample ID:	Q2150-10	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85.3
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
BF142582.D	1	05/30/25 09:50	05/30/25 21:13	PB168211

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

QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: Q2150

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
PB168211BL	PB168211BL	2-Fluorophenol	150	120	80		18	112
		Phenol-d6	150	121	81		15	107
		Nitrobenzene-d5	100	74.3	74		18	107
		2-Fluorobiphenyl	100	71.1	71		20	109
		2,4,6-Tribromophenol	150	124	83		10	116
		Terphenyl-d14	100	68.4	68		10	105
PB168211BS	PB168211BS	2-Fluorophenol	150	118	78		18	112
		Phenol-d6	150	120	80		15	107
		Nitrobenzene-d5	100	73.3	73		18	107
		2-Fluorobiphenyl	100	70.5	70		20	109
		2,4,6-Tribromophenol	150	127	85		10	116
		Terphenyl-d14	100	73.7	74		10	105
Q2150-01	TP-44	2-Fluorophenol	150	69.9	47		18	112
		Phenol-d6	150	67.4	45		15	107
		Nitrobenzene-d5	100	47.1	47		18	107
		2-Fluorobiphenyl	100	50.2	50		20	109
		2,4,6-Tribromophenol	150	63.6	42		10	116
		Terphenyl-d14	100	31.1	31		10	105
Q2150-01DL	TP-44DL	2-Fluorophenol	150	78.1	52		18	112
		Phenol-d6	150	78.6	52		15	107
		Nitrobenzene-d5	100	48.2	48		18	107
		2-Fluorobiphenyl	100	53.3	53		20	109
		2,4,6-Tribromophenol	150	62.5	42		10	116
		Terphenyl-d14	100	33.9	34		10	105
Q2150-02	TP-42	2-Fluorophenol	150	78.1	52		18	112
		Phenol-d6	150	78.9	53		15	107
		Nitrobenzene-d5	100	48.9	49		18	107
		2-Fluorobiphenyl	100	46.0	46		20	109
		2,4,6-Tribromophenol	150	69.5	46		10	116
		Terphenyl-d14	100	37.3	37		10	105
Q2150-03	TP-39	2-Fluorophenol	150	122	81		18	112
		Phenol-d6	150	126	84		15	107
		Nitrobenzene-d5	100	77.9	78		18	107
		2-Fluorobiphenyl	100	71.9	72		20	109
		2,4,6-Tribromophenol	150	124	82		10	116
		Terphenyl-d14	100	67.6	68		10	105
Q2150-04	TP-48	2-Fluorophenol	150	128	85		18	112
		Phenol-d6	150	130	87		15	107
		Nitrobenzene-d5	100	83.0	83		18	107
		2-Fluorobiphenyl	100	74.0	74		20	109
		2,4,6-Tribromophenol	150	128	85		10	116
		Terphenyl-d14	100	67.5	67		10	105
Q2150-05	TP-47	2-Fluorophenol	150	81.7	54		18	112
		Phenol-d6	150	83.6	56		15	107
		Nitrobenzene-d5	100	51.5	51		18	107
		2-Fluorobiphenyl	100	49.7	50		20	109
		2,4,6-Tribromophenol	150	80.9	54		10	116
		Terphenyl-d14	100	45.5	45		10	105
Q2150-06	TP-50	2-Fluorophenol	150	77.6	52		18	112
		Phenol-d6	150	75.5	50		15	107
		Nitrobenzene-d5	100	49.6	50		18	107

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

Surrogate Summary

SW-846

SDG No.: Q2150

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q2150-06	TP-50	2-Fluorobiphenyl	100	53.5	53		20	109
		2,4,6-Tribromophenol	150	61.4	41		10	116
		Terphenyl-d14	100	33.4	33		10	105
Q2150-07	TP-51	2-Fluorophenol	150	122	81		18	112
		Phenol-d6	150	126	84		15	107
		Nitrobenzene-d5	100	78.0	78		18	107
		2-Fluorobiphenyl	100	72.9	73		20	109
		2,4,6-Tribromophenol	150	121	81		10	116
		Terphenyl-d14	100	70.5	71		10	105
Q2150-08	TP-52	2-Fluorophenol	150	89.7	60		18	112
		Phenol-d6	150	89.5	60		15	107
		Nitrobenzene-d5	100	57.0	57		18	107
		2-Fluorobiphenyl	100	55.0	55		20	109
		2,4,6-Tribromophenol	150	75.4	50		10	116
		Terphenyl-d14	100	36.4	36		10	105
Q2150-09	TP-54	2-Fluorophenol	150	108	72		18	112
		Phenol-d6	150	112	75		15	107
		Nitrobenzene-d5	100	68.7	69		18	107
		2-Fluorobiphenyl	100	62.7	63		20	109
		2,4,6-Tribromophenol	150	118	79		10	116
		Terphenyl-d14	100	62.3	62		10	105
Q2150-09MS	TP-54MS	2-Fluorophenol	150	86.9	58		18	112
		Phenol-d6	150	89.9	60		15	107
		Nitrobenzene-d5	100	55.3	55		18	107
		2-Fluorobiphenyl	100	52.7	53		20	109
		2,4,6-Tribromophenol	150	92.4	62		10	116
		Terphenyl-d14	100	51.3	51		10	105
Q2150-09MSD	TP-54MSD	2-Fluorophenol	150	88.2	59		18	112
		Phenol-d6	150	90.6	60		15	107
		Nitrobenzene-d5	100	55.6	56		18	107
		2-Fluorobiphenyl	100	53.1	53		20	109
		2,4,6-Tribromophenol	150	94.6	63		10	116
		Terphenyl-d14	100	52.7	53		10	105
Q2150-10	TP-53	2-Fluorophenol	150	82.6	55		18	112
		Phenol-d6	150	84.0	56		15	107
		Nitrobenzene-d5	100	51.5	52		18	107
		2-Fluorobiphenyl	100	47.6	48		20	109
		2,4,6-Tribromophenol	150	73.2	49		10	116
		Terphenyl-d14	100	43.9	44		10	105

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2150

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2150-09MS		**Client Sample ID: TP-54MS**						**DataFile: BF142571.D**			
Benzaldehyde	2000	0	1500	ug/Kg	75				10	171	
Phenol	2000	0	1600	ug/Kg	80				51	122	
bis(2-Chloroethyl)ether	2000	0	1700	ug/Kg	85				54	125	
2-Chlorophenol	2000	0	1700	ug/Kg	85				51	121	
2-Methylphenol	2000	0	1600	ug/Kg	80				47	125	
2,2-oxybis(1-Chloropropane)	2000	0	1600	ug/Kg	80				46	119	
Acetophenone	2000	0	1700	ug/Kg	85				55	128	
3+4-Methylphenols	2000	0	1600	ug/Kg	80				49	125	
N-Nitroso-di-n-propylamine	2000	0	1600	ug/Kg	80				59	119	
Hexachloroethane	2000	0	1600	ug/Kg	80				51	116	
Nitrobenzene	2000	0	1700	ug/Kg	85				47	124	
Isophorone	2000	0	1600	ug/Kg	80				49	127	
2-Nitrophenol	2000	0	1800	ug/Kg	90				43	131	
2,4-Dimethylphenol	2000	0	1700	ug/Kg	85				63	151	
bis(2-Chloroethoxy)methane	2000	0	1700	ug/Kg	85				51	119	
2,4-Dichlorophenol	2000	0	1700	ug/Kg	85				50	122	
Naphthalene	2000	0	1700	ug/Kg	85				51	121	
4-Chloroaniline	2000	0	360	ug/Kg	18				10	100	
Hexachlorobutadiene	2000	0	1700	ug/Kg	85				44	126	
Caprolactam	2000	0	1800	ug/Kg	90				51	134	
4-Chloro-3-methylphenol	2000	0	1600	ug/Kg	80				57	132	
2-Methylnaphthalene	2000	0	1600	ug/Kg	80				59	123	
Hexachlorocyclopentadiene	4000	0	3200	ug/Kg	80				10	175	
2,4,6-Trichlorophenol	2000	0	1700	ug/Kg	85				33	141	
2,4,5-Trichlorophenol	2000	0	1700	ug/Kg	85				38	135	
1,1-Biphenyl	2000	0	1700	ug/Kg	85				55	131	
2-Chloronaphthalene	2000	0	1700	ug/Kg	85				48	124	
2-Nitroaniline	2000	0	1700	ug/Kg	85				47	134	
Dimethylphthalate	2000	0	1700	ug/Kg	85				54	120	
Acenaphthylene	2000	0	1700	ug/Kg	85				57	125	
2,6-Dinitrotoluene	2000	0	1800	ug/Kg	90				48	127	
3-Nitroaniline	2000	0	730	ug/Kg	37				10	112	
Acenaphthene	2000	0	1800	ug/Kg	90				70	121	
2,4-Dinitrophenol	4000	0	3700	ug/Kg	93				10	155	
4-Nitrophenol	4000	0	3500	ug/Kg	88				10	175	
Dibenzofuran	2000	0	1700	ug/Kg	85				52	114	
2,4-Dinitrotoluene	2000	0	1800	ug/Kg	90				41	140	
Diethylphthalate	2000	0	1700	ug/Kg	85				51	119	
4-Chlorophenyl-phenylether	2000	0	1700	ug/Kg	85				48	122	
Fluorene	2000	0	1600	ug/Kg	80				53	118	
4-Nitroaniline	2000	0	1700	ug/Kg	85				29	140	
4,6-Dinitro-2-methylphenol	2000	0	1900	ug/Kg	95				10	160	
N-Nitrosodiphenylamine	2000	0	1700	ug/Kg	85				73	118	
4-Bromophenyl-phenylether	2000	0	1700	ug/Kg	85				65	121	
Hexachlorobenzene	2000	0	1700	ug/Kg	85				67	118	
Atrazine	2000	0	1900	ug/Kg	95				45	175	

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2150

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	4000	0	3400	ug/Kg	85				13	153	
Phenanthrene	2000	0	1700	ug/Kg	85				52	128	
Anthracene	2000	0	1700	ug/Kg	85				62	124	
Carbazole	2000	0	1700	ug/Kg	85				59	119	
Di-n-butylphthalate	2000	0	1800	ug/Kg	90				55	125	
Fluoranthene	2000	0	1600	ug/Kg	80				44	125	
Pyrene	2000	0	1500	ug/Kg	75				37	122	
Butylbenzylphthalate	2000	0	2100	ug/Kg	105				44	135	
3,3-Dichlorobenzidine	2000	0	870	ug/Kg	44				15	112	
Benzo(a)anthracene	2000	0	1800	ug/Kg	90				53	119	
Chrysene	2000	0	1700	ug/Kg	85				57	121	
bis(2-Ethylhexyl)phthalate	2000	0	2200	ug/Kg	110				42	169	
Di-n-octyl phthalate	2000	0	1900	ug/Kg	95				51	156	
Benzo(b)fluoranthene	2000	0	1700	ug/Kg	85				52	117	
Benzo(k)fluoranthene	2000	0	1700	ug/Kg	85				57	134	
Benzo(a)pyrene	2000	0	1800	ug/Kg	90				70	142	
Indeno(1,2,3-cd)pyrene	2000	0	1700	ug/Kg	85				40	129	
Dibenz(a,h)anthracene	2000	0	1700	ug/Kg	85				43	123	
Benzo(g,h,i)perylene	2000	0	1700	ug/Kg	85				24	125	
1,2,4,5-Tetrachlorobenzene	2000	0	1800	ug/Kg	90				52	134	
1,4-Dioxane	2000	0	1500	ug/Kg	75				46	112	
2,3,4,6-Tetrachlorophenol	2000	0	1700	ug/Kg	85				24	146	

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2150

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2150-09MSD		**Client Sample ID: TP-54MSD**						**DataFile: BF142572.D**			
Benzaldehyde	2000	0	1500	ug/Kg	75	0			10	171	20
Phenol	2000	0	1700	ug/Kg	85	6			51	122	20
bis(2-Chloroethyl)ether	2000	0	1700	ug/Kg	85	0			54	125	20
2-Chlorophenol	2000	0	1700	ug/Kg	85	0			51	121	20
2-Methylphenol	2000	0	1700	ug/Kg	85	6			47	125	20
2,2-oxybis(1-Chloropropane)	2000	0	1700	ug/Kg	85	6			46	119	20
Acetophenone	2000	0	1700	ug/Kg	85	0			55	128	20
3+4-Methylphenols	2000	0	1600	ug/Kg	80	0			49	125	20
N-Nitroso-di-n-propylamine	2000	0	1600	ug/Kg	80	0			59	119	20
Hexachloroethane	2000	0	1700	ug/Kg	85	6			51	116	20
Nitrobenzene	2000	0	1700	ug/Kg	85	0			47	124	20
Isophorone	2000	0	1700	ug/Kg	85	6			49	127	20
2-Nitrophenol	2000	0	1800	ug/Kg	90	0			43	131	20
2,4-Dimethylphenol	2000	0	1700	ug/Kg	85	0			63	151	20
bis(2-Chloroethoxy)methane	2000	0	1700	ug/Kg	85	0			51	119	20
2,4-Dichlorophenol	2000	0	1700	ug/Kg	85	0			50	122	20
Naphthalene	2000	0	1700	ug/Kg	85	0			51	121	20
4-Chloroaniline	2000	0	400	ug/Kg	20	11			10	100	20
Hexachlorobutadiene	2000	0	1700	ug/Kg	85	0			44	126	20
Caprolactam	2000	0	1900	ug/Kg	95	5			51	134	20
4-Chloro-3-methylphenol	2000	0	1700	ug/Kg	85	6			57	132	20
2-Methylnaphthalene	2000	0	1600	ug/Kg	80	0			59	123	20
Hexachlorocyclopentadiene	4000	0	3200	ug/Kg	80	0			10	175	20
2,4,6-Trichlorophenol	2000	0	1800	ug/Kg	90	6			33	141	20
2,4,5-Trichlorophenol	2000	0	1700	ug/Kg	85	0			38	135	20
1,1-Biphenyl	2000	0	1700	ug/Kg	85	0			55	131	20
2-Chloronaphthalene	2000	0	1700	ug/Kg	85	0			48	124	20
2-Nitroaniline	2000	0	1700	ug/Kg	85	0			47	134	20
Dimethylphthalate	2000	0	1700	ug/Kg	85	0			54	120	20
Acenaphthylene	2000	0	1700	ug/Kg	85	0			57	125	20
2,6-Dinitrotoluene	2000	0	1800	ug/Kg	90	0			48	127	20
3-Nitroaniline	2000	0	750	ug/Kg	38	3			10	112	20
Acenaphthene	2000	0	1900	ug/Kg	95	5			70	121	20
2,4-Dinitrophenol	4000	0	3800	ug/Kg	95	2			10	155	20
4-Nitrophenol	4000	0	3500	ug/Kg	88	0			10	175	20
Dibenzofuran	2000	0	1700	ug/Kg	85	0			52	114	20
2,4-Dinitrotoluene	2000	0	1800	ug/Kg	90	0			41	140	20
Diethylphthalate	2000	0	1700	ug/Kg	85	0			51	119	20
4-Chlorophenyl-phenylether	2000	0	1700	ug/Kg	85	0			48	122	20
Fluorene	2000	0	1700	ug/Kg	85	6			53	118	20
4-Nitroaniline	2000	0	1700	ug/Kg	85	0			29	140	20
4,6-Dinitro-2-methylphenol	2000	0	1900	ug/Kg	95	0			10	160	20
N-Nitrosodiphenylamine	2000	0	1700	ug/Kg	85	0			73	118	20
4-Bromophenyl-phenylether	2000	0	1700	ug/Kg	85	0			65	121	20
Hexachlorobenzene	2000	0	1700	ug/Kg	85	0			67	118	20
Atrazine	2000	0	1900	ug/Kg	95	0			45	175	20

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2150

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	4000	0	3400	ug/Kg	85	0			13	153	20
Phenanthrene	2000	0	1700	ug/Kg	85	0			52	128	20
Anthracene	2000	0	1700	ug/Kg	85	0			62	124	20
Carbazole	2000	0	1700	ug/Kg	85	0			59	119	20
Di-n-butylphthalate	2000	0	1900	ug/Kg	95	5			55	125	20
Fluoranthene	2000	0	1700	ug/Kg	85	6			44	125	20
Pyrene	2000	0	1600	ug/Kg	80	6			37	122	20
Butylbenzylphthalate	2000	0	2200	ug/Kg	110	5			44	135	20
3,3-Dichlorobenzidine	2000	0	860	ug/Kg	43	2			15	112	20
Benzo(a)anthracene	2000	0	1700	ug/Kg	85	6			53	119	20
Chrysene	2000	0	1800	ug/Kg	90	6			57	121	20
bis(2-Ethylhexyl)phthalate	2000	0	2200	ug/Kg	110	0			42	169	20
Di-n-octyl phthalate	2000	0	1900	ug/Kg	95	0			51	156	20
Benzo(b)fluoranthene	2000	0	1700	ug/Kg	85	0			52	117	20
Benzo(k)fluoranthene	2000	0	1800	ug/Kg	90	6			57	134	20
Benzo(a)pyrene	2000	0	1800	ug/Kg	90	0			70	142	20
Indeno(1,2,3-cd)pyrene	2000	0	1700	ug/Kg	85	0			40	129	20
Dibenz(a,h)anthracene	2000	0	1700	ug/Kg	85	0			43	123	20
Benzo(g,h,i)perylene	2000	0	1700	ug/Kg	85	0			24	125	20
1,2,4,5-Tetrachlorobenzene	2000	0	1800	ug/Kg	90	0			52	134	20
1,4-Dioxane	2000	0	1500	ug/Kg	75	0			46	112	20
2,3,4,6-Tetrachlorophenol	2000	0	1700	ug/Kg	85	0			24	146	20

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2150

Client: CDM Smith

Analytical Method: 8270E **DataFile:** BF142568.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168211BS	Benzaldehyde	1700	1100	ug/Kg	65				10	133	
	Phenol	1700	1400	ug/Kg	82				62	112	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				60	101	
	2-Chlorophenol	1700	1400	ug/Kg	82				65	112	
	2-Methylphenol	1700	1400	ug/Kg	82				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1300	ug/Kg	76				51	100	
	Acetophenone	1700	1400	ug/Kg	82				66	98	
	3+4-Methylphenols	1700	1400	ug/Kg	82				58	111	
	N-Nitroso-di-n-propylamine	1700	1300	ug/Kg	76				63	95	
	Hexachloroethane	1700	1300	ug/Kg	76				72	108	
	Nitrobenzene	1700	1400	ug/Kg	82				57	101	
	Isophorone	1700	1400	ug/Kg	82				59	99	
	2-Nitrophenol	1700	1500	ug/Kg	88				61	111	
	2,4-Dimethylphenol	1700	1400	ug/Kg	82				46	141	
	bis(2-Chloroethoxy)methane	1700	1400	ug/Kg	82				66	97	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				62	107	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	700	ug/Kg	41				16	100	
	Hexachlorobutadiene	1700	1300	ug/Kg	76				53	98	
	Caprolactam	1700	1700	ug/Kg	100				67	110	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				58	112	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				60	104	
	Hexachlorocyclopentadiene	3300	2700	ug/Kg	82				45	165	
	2,4,6-Trichlorophenol	1700	1400	ug/Kg	82				59	102	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				61	98	
	1,1-Biphenyl	1700	1400	ug/Kg	82				57	103	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				58	99	
	2-Nitroaniline	1700	1500	ug/Kg	88				66	101	
	Dimethylphthalate	1700	1500	ug/Kg	88				61	99	
	Acenaphthylene	1700	1400	ug/Kg	82				63	101	
	2,6-Dinitrotoluene	1700	1500	ug/Kg	88				61	104	
	3-Nitroaniline	1700	990	ug/Kg	58				28	100	
	Acenaphthene	1700	1600	ug/Kg	94				57	104	
	2,4-Dinitrophenol	3300	3600	ug/Kg	109				37	128	
	4-Nitrophenol	3300	3300	ug/Kg	100				48	119	
	Dibenzofuran	1700	1400	ug/Kg	82				63	99	
	2,4-Dinitrotoluene	1700	1600	ug/Kg	94				60	106	
	Diethylphthalate	1700	1500	ug/Kg	88				60	101	
	4-Chlorophenyl-phenylether	1700	1400	ug/Kg	82				58	98	
	Fluorene	1700	1400	ug/Kg	82				61	101	
	4-Nitroaniline	1700	1600	ug/Kg	94				64	103	
	4,6-Dinitro-2-methylphenol	1700	1700	ug/Kg	100				76	113	
	N-Nitrosodiphenylamine	1700	1400	ug/Kg	82				71	99	
	4-Bromophenyl-phenylether	1700	1400	ug/Kg	82				66	102	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2150

Client: CDM Smith

Analytical Method: 8270E **DataFile:** BF142568.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168211BS	Hexachlorobenzene	1700	1400	ug/Kg	82				64	98	
	Atrazine	1700	1600	ug/Kg	94				47	152	
	Pentachlorophenol	3300	2900	ug/Kg	88				67	105	
	Phenanthrene	1700	1400	ug/Kg	82				59	103	
	Anthracene	1700	1400	ug/Kg	82				61	105	
	Carbazole	1700	1500	ug/Kg	88				61	99	
	Di-n-butylphthalate	1700	1600	ug/Kg	94				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Pyrene	1700	1400	ug/Kg	82				59	103	
	Butylbenzylphthalate	1700	1700	ug/Kg	100				55	103	
	3,3-Dichlorobenzidine	1700	800	ug/Kg	47				42	91	
	Benzo(a)anthracene	1700	1500	ug/Kg	88				60	102	
	Chrysene	1700	1400	ug/Kg	82				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1500	ug/Kg	88				54	135	
	Di-n-octyl phthalate	1700	1200	ug/Kg	71				52	137	
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				62	109	
	Benzo(k)fluoranthene	1700	1500	ug/Kg	88				62	109	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1400	ug/Kg	82				63	101	
	Dibenz(a,h)anthracene	1700	1400	ug/Kg	82				61	112	
	Benzo(g,h,i)perylene	1700	1400	ug/Kg	82				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1300	ug/Kg	76				53	101	
	1,4-Dioxane	1700	1200	ug/Kg	71				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1500	ug/Kg	88				59	108	

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168211BL

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

Lab File ID: BF142567.D Lab Sample ID: PB168211BL

Instrument ID: BNA_F Date Extracted: 05/30/2025

Matrix: (soil/water) SOIL Date Analyzed: 05/30/2025

Level: (low/med) LOW Time Analyzed: 13:49

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168211BS	PB168211BS	BF142568.D	05/30/2025
TP-39	Q2150-03	BF142580.D	05/30/2025
TP-48	Q2150-04	BF142581.D	05/30/2025
TP-42	Q2150-02	BF142583.D	05/30/2025
TP-44	Q2150-01	BF142586.D	05/30/2025
TP-47	Q2150-05	BF142569.D	05/30/2025
TP-54	Q2150-09	BF142570.D	05/30/2025
TP-54MS	Q2150-09MS	BF142571.D	05/30/2025
TP-54MSD	Q2150-09MSD	BF142572.D	05/30/2025
TP-51	Q2150-07	BF142579.D	05/30/2025
TP-53	Q2150-10	BF142582.D	05/30/2025
TP-50	Q2150-06	BF142584.D	05/30/2025
TP-52	Q2150-08	BF142585.D	05/30/2025

COMMENTS:

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM SAS No.: Q2150 SDG NO.: Q2150

Lab File ID: BF142465.D DFTPP Injection Date: 05/20/2025

Instrument ID: BNA_F DFTPP Injection Time: 11:13

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.8
68	Less than 2.0% of mass 69	0.5 (1.9) 1
69	Mass 69 relative abundance	33.1
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	44.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	29.9
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	19.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19 (19) 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	BF142467.D	05/20/2025	12:10
SSTDICC005	SSTDICC005	BF142468.D	05/20/2025	12:38
SSTDICC010	SSTDICC010	BF142469.D	05/20/2025	13:07
SSTDICC020	SSTDICC020	BF142470.D	05/20/2025	13:36
SSTDICCC040	SSTDICCC040	BF142471.D	05/20/2025	14:05
SSTDICC050	SSTDICC050	BF142472.D	05/20/2025	14:34
SSTDICC060	SSTDICC060	BF142473.D	05/20/2025	15:03
SSTDICC080	SSTDICC080	BF142474.D	05/20/2025	15:31

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM SAS No.: Q2150 SDG NO.: Q2150

Lab File ID: BF142565.D DFTPP Injection Date: 05/30/2025

Instrument ID: BNA_F DFTPP Injection Time: 12:23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37.9
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	34.2
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	46.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	28.8
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	18.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.2 (19.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142566.D	05/30/2025	13:20
PB168211BL	PB168211BL	BF142567.D	05/30/2025	13:49
PB168211BS	PB168211BS	BF142568.D	05/30/2025	14:18
TP-47	Q2150-05	BF142569.D	05/30/2025	14:52
TP-54	Q2150-09	BF142570.D	05/30/2025	15:21
TP-54MS	Q2150-09MS	BF142571.D	05/30/2025	15:50
TP-54MSD	Q2150-09MSD	BF142572.D	05/30/2025	16:19
TP-51	Q2150-07	BF142579.D	05/30/2025	19:45
TP-39	Q2150-03	BF142580.D	05/30/2025	20:14
TP-48	Q2150-04	BF142581.D	05/30/2025	20:43
TP-53	Q2150-10	BF142582.D	05/30/2025	21:13
TP-42	Q2150-02	BF142583.D	05/30/2025	21:42
TP-50	Q2150-06	BF142584.D	05/30/2025	22:11
TP-52	Q2150-08	BF142585.D	05/30/2025	22:41
TP-44	Q2150-01	BF142586.D	05/30/2025	23:10

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM SAS No.: Q2150 SDG NO.: Q2150

Lab File ID: BF142589.D DFTPP Injection Date: 06/02/2025

Instrument ID: BNA_F DFTPP Injection Time: 11:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.3
68	Less than 2.0% of mass 69	0.4 (1.8) 1
69	Mass 69 relative abundance	32.4
70	Less than 2.0% of mass 69	0.1 (0.6) 1
127	10.0 - 80.0% of mass 198	45.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	29.1
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	20.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.3 (19.3) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142590.D	06/02/2025	11:30
TP-44DL	Q2150-01DL	BF142598.D	06/02/2025	15:34

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/30/2025

Lab File ID: BF142566.D Time Analyzed: 13:20

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	109753	6.898	434666	8.19	234624	9.95
	UPPER LIMIT	219506	7.398	869332	8.686	469248	10.445
	LOWER LIMIT	54876.5	6.398	217333	7.686	117312	9.445
	EPA SAMPLE NO.						
01	PB168211BL	120363	6.90	465933	8.18	259895	9.94
02	PB168211BS	122043	6.90	476655	8.19	264068	9.95
03	TP-44	127932	6.90	419456	8.18	173324	9.94
04	TP-42	143411	6.90	545898	8.18	276939	9.93
05	TP-39	122275	6.90	460916	8.18	242076	9.93
06	TP-48	128466	6.90	478682	8.18	251559	9.93
07	TP-47	119655	6.90	452665	8.18	237881	9.94
08	TP-50	131837	6.90	470624	8.18	213475	9.93
09	TP-51	123122	6.90	465540	8.18	241553	9.93
10	TP-52	133645	6.90	476744	8.18	213806	9.94
11	TP-54	118247	6.90	441924	8.18	231484	9.93
12	TP-54MS	123670	6.90	460723	8.18	236866	9.94
13	TP-54MSD	119675	6.90	451884	8.19	233525	9.94
14	TP-53	130201	6.90	494621	8.18	254536	9.93

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

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

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

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/30/2025

Lab File ID: BF142566.D Time Analyzed: 13:20

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	409802	11.427	223422	14.074	206730	15.568
	UPPER LIMIT	819604	11.927	446844	14.574	413460	16.068
	LOWER LIMIT	204901	10.927	111711	13.574	103365	15.068
	EPA SAMPLE NO.						
01	PB168211BL	480220	11.43	319274	14.07	249124	15.57
02	PB168211BS	470473	11.43	271265	14.07	242037	15.57
03	TP-44	272258	11.43	273238	14.07	220770	15.57
04	TP-42	434462	11.42	256745	14.07	308145	15.56
05	TP-39	399449	11.42	234709	14.07	243865	15.56
06	TP-48	419835	11.42	239865	14.07	260798	15.56
07	TP-47	379317	11.42	213577	14.07	233735	15.56
08	TP-50	294969	11.42	274370	14.07	279386	15.56
09	TP-51	396120	11.42	234971	14.06	241563	15.56
10	TP-52	298216	11.43	272466	14.07	264844	15.57
11	TP-54	379392	11.42	216438	14.07	226398	15.56
12	TP-54MS	378954	11.43	208599	14.07	243037	15.57
13	TP-54MSD	376587	11.43	204232	14.07	234981	15.57
14	TP-53	398630	11.42	231944	14.06	262922	15.56

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

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

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

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/02/2025

Lab File ID: BF142590.D Time Analyzed: 11:30

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	112830	6.898	441878	8.19	241388	9.94
	UPPER LIMIT	225660	7.398	883756	8.686	482776	10.439
	LOWER LIMIT	56415	6.398	220939	7.686	120694	9.439
	EPA SAMPLE NO.						
01	TP-44DL	127289	6.90	470532	8.18	232054	9.94

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

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

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

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG NO.: Q2150

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/02/2025

Lab File ID: BF142590.D Time Analyzed: 11:30

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	415282	11.427	230387	14.074	238851	15.568
	UPPER LIMIT	830564	11.927	460774	14.574	477702	16.068
	LOWER LIMIT	207641	10.927	115194	13.574	119426	15.068
	EPA SAMPLE NO.						
01	TP-44DL	325882	11.43	250994	14.07	278926	15.57

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

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

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

QC SAMPLE DATA

Raw Data: **BF142567.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168211BL	SDG No.:	Q2150
Lab Sample ID:	PB168211BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142567.D	1	05/30/25 09:50	05/30/25 13:49	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	160	U	160	330	ug/Kg
108-95-2	Phenol	22.1	U	22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	24.3	U	24.3	170	ug/Kg
95-57-8	2-Chlorophenol	24.4	U	24.4	170	ug/Kg
95-48-7	2-Methylphenol	29.9	U	29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	37.5	U	37.5	170	ug/Kg
98-86-2	Acetophenone	29.5	U	29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	41.1	U	41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	47.4	U	47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	17.6	U	17.6	170	ug/Kg
98-95-3	Nitrobenzene	18.3	U	18.3	170	ug/Kg
78-59-1	Isophorone	32.8	U	32.8	170	ug/Kg
88-75-5	2-Nitrophenol	58.2	U	58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	64.8	U	64.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	30.8	U	30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	28.3	U	28.3	170	ug/Kg
91-20-3	Naphthalene	22.7	U	22.7	170	ug/Kg
106-47-8	4-Chloroaniline	35.4	U	35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	25.3	U	25.3	170	ug/Kg
105-60-2	Caprolactam	52.1	U	52.1	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	28.7	U	28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	25.6	U	25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	120	U	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	19.8	U	19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	29.1	U	29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	21.8	U	21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	22.5	U	22.5	170	ug/Kg
88-74-4	2-Nitroaniline	48.1	U	48.1	170	ug/Kg
131-11-3	Dimethylphthalate	27.1	U	27.1	170	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168211BL	SDG No.:	Q2150
Lab Sample ID:	PB168211BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142567.D	1	05/30/25 09:50	05/30/25 13:49	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	28.9	U	28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	33.6	U	33.6	170	ug/Kg
99-09-2	3-Nitroaniline	46.0	U	46.0	170	ug/Kg
83-32-9	Acenaphthene	21.3	U	21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	230	U	230	330	ug/Kg
100-02-7	4-Nitrophenol	110	U	110	330	ug/Kg
132-64-9	Dibenzofuran	22.7	U	22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	50.1	U	50.1	170	ug/Kg
84-66-2	Diethylphthalate	28.3	U	28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	26.7	U	26.7	170	ug/Kg
86-73-7	Fluorene	25.3	U	25.3	170	ug/Kg
100-01-6	4-Nitroaniline	64.2	U	64.2	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	100	U	100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	32.9	U	32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	27.8	U	27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	25.3	U	25.3	170	ug/Kg
1912-24-9	Atrazine	34.0	U	34.0	170	ug/Kg
87-86-5	Pentachlorophenol	51.3	U	51.3	330	ug/Kg
85-01-8	Phenanthrene	20.9	U	20.9	170	ug/Kg
120-12-7	Anthracene	33.3	U	33.3	170	ug/Kg
86-74-8	Carbazole	31.2	U	31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	47.9	U	47.9	170	ug/Kg
206-44-0	Fluoranthene	30.0	U	30.0	170	ug/Kg
129-00-0	Pyrene	36.0	U	36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	71.4	U	71.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	36.7	U	36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	23.0	U	23.0	170	ug/Kg
218-01-9	Chrysene	19.9	U	19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	59.2	U	59.2	170	ug/Kg
117-84-0	Di-n-octyl phthalate	86.7	U	86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	19.0	U	19.0	170	ug/Kg

Raw Data: **BF142567.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168211BL	SDG No.:	Q2150
Lab Sample ID:	PB168211BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142567.D	1	05/30/25 09:50	05/30/25 13:49	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	22.4	U	22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	29.5	U	29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	29.1	U	29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	27.4	U	27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	25.7	U	25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	25.6	U	25.6	170	ug/Kg
123-91-1	1,4-Dioxane	45.2	U	45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	27.4	U	27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	120		18 - 112	80%	SPK: 150
13127-88-3	Phenol-d6	121		15 - 107	81%	SPK: 150
4165-60-0	Nitrobenzene-d5	74.3		18 - 107	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	71.1		20 - 109	71%	SPK: 100
118-79-6	2,4,6-Tribromophenol	124		10 - 116	83%	SPK: 150
1718-51-0	Terphenyl-d14	68.4		10 - 105	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	120000	6.898			
1146-65-2	Naphthalene-d8	466000	8.181			
15067-26-2	Acenaphthene-d10	260000	9.939			
1517-22-2	Phenanthrene-d10	480000	11.428			
1719-03-5	Chrysene-d12	319000	14.069			
1520-96-3	Perylene-d12	249000	15.568			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	320	A		5.13	ug/Kg

Raw Data: **BF142567.D**

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

Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168211BL			SDG No.:	Q2150
Lab Sample ID:	PB168211BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142567.D	1	05/30/25 09:50	05/30/25 13:49	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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

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

Raw Data: **BF142568.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168211BS	SDG No.:	Q2150
Lab Sample ID:	PB168211BS	Matrix:	SOIL
Analytical Method:	8270E	% 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
BF142568.D	1	05/30/25 09:50	05/30/25 14:18	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1100		160	330	ug/Kg
108-95-2	Phenol	1400		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1400		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1400		29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1300		37.5	170	ug/Kg
98-86-2	Acetophenone	1400		29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	1400		41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1300		47.4	80.0	ug/Kg
67-72-1	Hexachloroethane	1300		17.6	170	ug/Kg
98-95-3	Nitrobenzene	1400		18.3	170	ug/Kg
78-59-1	Isophorone	1400		32.8	170	ug/Kg
88-75-5	2-Nitrophenol	1500		58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1400		64.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1400		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		28.3	170	ug/Kg
91-20-3	Naphthalene	1400		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	700		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1300		25.3	170	ug/Kg
105-60-2	Caprolactam	1700		52.1	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	1400		25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	2700	E	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1400		19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	1400		21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		22.5	170	ug/Kg
88-74-4	2-Nitroaniline	1500		48.1	170	ug/Kg
131-11-3	Dimethylphthalate	1500		27.1	170	ug/Kg

Raw Data: **BF142568.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168211BS	SDG No.:	Q2150
Lab Sample ID:	PB168211BS	Matrix:	SOIL
Analytical Method:	8270E	% 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
BF142568.D	1	05/30/25 09:50	05/30/25 14:18	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1400		28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1500		33.6	170	ug/Kg
99-09-2	3-Nitroaniline	990		46.0	170	ug/Kg
83-32-9	Acenaphthene	1600		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3600	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	3300	E	110	330	ug/Kg
132-64-9	Dibenzofuran	1400		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		50.1	170	ug/Kg
84-66-2	Diethylphthalate	1500		28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1400		26.7	170	ug/Kg
86-73-7	Fluorene	1400		25.3	170	ug/Kg
100-01-6	4-Nitroaniline	1600		64.2	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1400		32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1400		25.3	170	ug/Kg
1912-24-9	Atrazine	1600		34.0	170	ug/Kg
87-86-5	Pentachlorophenol	2900	E	51.3	330	ug/Kg
85-01-8	Phenanthrene	1400		20.9	170	ug/Kg
120-12-7	Anthracene	1400		33.3	170	ug/Kg
86-74-8	Carbazole	1500		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1600		47.9	170	ug/Kg
206-44-0	Fluoranthene	1500		30.0	170	ug/Kg
129-00-0	Pyrene	1400		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1700		71.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	800		36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	1500		23.0	170	ug/Kg
218-01-9	Chrysene	1400		19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		59.2	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1200		86.8	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		19.0	170	ug/Kg

Raw Data: **BF142568.D**

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

Report of Analysis

Client:	CDM Smith			Date Collected:	
Project:	South River WM Replacement			Date Received:	
Client Sample ID:	PB168211BS			SDG No.:	Q2150
Lab Sample ID:	PB168211BS			Matrix:	SOIL
Analytical Method:	8270E			% 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
BF142568.D	1	05/30/25 09:50	05/30/25 14:18	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1500		22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	1500		29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1400		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1400		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1300		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1200		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	118		18 - 112	78%	SPK: 150
13127-88-3	Phenol-d6	120		15 - 107	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	73.3		18 - 107	73%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.5		20 - 109	70%	SPK: 100
118-79-6	2,4,6-Tribromophenol	127		10 - 116	85%	SPK: 150
1718-51-0	Terphenyl-d14	73.7		10 - 105	74%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	122000	6.898			
1146-65-2	Naphthalene-d8	477000	8.186			
15067-26-2	Acenaphthene-d10	264000	9.945			
1517-22-2	Phenanthrene-d10	470000	11.433			
1719-03-5	Chrysene-d12	271000	14.074			
1520-96-3	Perylene-d12	242000	15.568			

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

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

Raw Data: **BF142571.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-54MS	SDG No.:	Q2150
Lab Sample ID:	Q2150-09MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.6
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142571.D	1	05/30/25 09:50	05/30/25 15:50	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1500		190	390	ug/Kg
108-95-2	Phenol	1600		26.4	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		29.0	200	ug/Kg
95-57-8	2-Chlorophenol	1700		29.1	200	ug/Kg
95-48-7	2-Methylphenol	1600		35.7	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1600		44.8	200	ug/Kg
98-86-2	Acetophenone	1700		35.2	200	ug/Kg
65794-96-9	3+4-Methylphenols	1600		49.1	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1600		56.6	95.5	ug/Kg
67-72-1	Hexachloroethane	1600		21.0	200	ug/Kg
98-95-3	Nitrobenzene	1700		21.8	200	ug/Kg
78-59-1	Isophorone	1600		39.2	200	ug/Kg
88-75-5	2-Nitrophenol	1800		69.5	200	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		77.4	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1700		36.8	200	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		33.8	200	ug/Kg
91-20-3	Naphthalene	1700		27.1	200	ug/Kg
106-47-8	4-Chloroaniline	360		42.3	200	ug/Kg
87-68-3	Hexachlorobutadiene	1700		30.2	200	ug/Kg
105-60-2	Caprolactam	1800		62.2	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		34.3	200	ug/Kg
91-57-6	2-Methylnaphthalene	1600		30.6	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3200	E	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		23.6	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1700		34.7	200	ug/Kg
92-52-4	1,1-Biphenyl	1700		26.0	200	ug/Kg
91-58-7	2-Chloronaphthalene	1700		26.9	200	ug/Kg
88-74-4	2-Nitroaniline	1700		57.4	200	ug/Kg
131-11-3	Dimethylphthalate	1700		32.4	200	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-54MS	SDG No.:	Q2150
Lab Sample ID:	Q2150-09MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.6
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142571.D	1	05/30/25 09:50	05/30/25 15:50	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1700		34.5	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	1800		40.1	200	ug/Kg
99-09-2	3-Nitroaniline	730		54.9	200	ug/Kg
83-32-9	Acenaphthene	1800		25.4	200	ug/Kg
51-28-5	2,4-Dinitrophenol	3700	E	270	390	ug/Kg
100-02-7	4-Nitrophenol	3500	E	130	390	ug/Kg
132-64-9	Dibenzofuran	1700		27.1	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		59.8	200	ug/Kg
84-66-2	Diethylphthalate	1700		33.8	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1700		31.9	200	ug/Kg
86-73-7	Fluorene	1600		30.2	200	ug/Kg
100-01-6	4-Nitroaniline	1700		76.6	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1900		120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1700		39.3	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		33.2	200	ug/Kg
118-74-1	Hexachlorobenzene	1700		30.2	200	ug/Kg
1912-24-9	Atrazine	1900		40.6	200	ug/Kg
87-86-5	Pentachlorophenol	3400	E	61.2	390	ug/Kg
85-01-8	Phenanthrene	1700		25.0	200	ug/Kg
120-12-7	Anthracene	1700		39.8	200	ug/Kg
86-74-8	Carbazole	1700		37.2	200	ug/Kg
84-74-2	Di-n-butylphthalate	1800		57.2	200	ug/Kg
206-44-0	Fluoranthene	1600		35.8	200	ug/Kg
129-00-0	Pyrene	1500		43.0	200	ug/Kg
85-68-7	Butylbenzylphthalate	2100		85.2	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	870		43.8	390	ug/Kg
56-55-3	Benzo(a)anthracene	1800		27.5	200	ug/Kg
218-01-9	Chrysene	1700		23.8	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2200		70.7	200	ug/Kg
117-84-0	Di-n-octyl phthalate	1900		100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		22.7	200	ug/Kg

Raw Data: **BF142571.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-54MS	SDG No.:	Q2150
Lab Sample ID:	Q2150-09MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.6
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142571.D	1	05/30/25 09:50	05/30/25 15:50	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		26.7	200	ug/Kg
50-32-8	Benzo(a)pyrene	1800		35.2	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1700		34.7	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1700		32.7	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		30.7	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		30.6	200	ug/Kg
123-91-1	1,4-Dioxane	1500		54.0	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		32.7	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	86.9		18 - 112	58%	SPK: 150
13127-88-3	Phenol-d6	89.9		15 - 107	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	55.3		18 - 107	55%	SPK: 100
321-60-8	2-Fluorobiphenyl	52.7		20 - 109	53%	SPK: 100
118-79-6	2,4,6-Tribromophenol	92.4		10 - 116	62%	SPK: 150
1718-51-0	Terphenyl-d14	51.3		10 - 105	51%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	124000	6.898			
1146-65-2	Naphthalene-d8	461000	8.181			
15067-26-2	Acenaphthene-d10	237000	9.939			
1517-22-2	Phenanthrene-d10	379000	11.428			
1719-03-5	Chrysene-d12	209000	14.074			
1520-96-3	Perylene-d12	243000	15.568			

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

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

Raw Data: **BF142572.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-54MSD	SDG No.:	Q2150
Lab Sample ID:	Q2150-09MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.6
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142572.D	1	05/30/25 09:50	05/30/25 16:19	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1500		190	390	ug/Kg
108-95-2	Phenol	1700		26.4	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		29.0	200	ug/Kg
95-57-8	2-Chlorophenol	1700		29.1	200	ug/Kg
95-48-7	2-Methylphenol	1700		35.7	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1700		44.8	200	ug/Kg
98-86-2	Acetophenone	1700		35.2	200	ug/Kg
65794-96-9	3+4-Methylphenols	1600		49.1	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1600		56.6	95.6	ug/Kg
67-72-1	Hexachloroethane	1700		21.0	200	ug/Kg
98-95-3	Nitrobenzene	1700		21.9	200	ug/Kg
78-59-1	Isophorone	1700		39.2	200	ug/Kg
88-75-5	2-Nitrophenol	1800		69.5	200	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		77.4	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1700		36.8	200	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		33.8	200	ug/Kg
91-20-3	Naphthalene	1700		27.1	200	ug/Kg
106-47-8	4-Chloroaniline	400		42.3	200	ug/Kg
87-68-3	Hexachlorobutadiene	1700		30.2	200	ug/Kg
105-60-2	Caprolactam	1900		62.2	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1700		34.3	200	ug/Kg
91-57-6	2-Methylnaphthalene	1600		30.6	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3200	E	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		23.7	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1700		34.8	200	ug/Kg
92-52-4	1,1-Biphenyl	1700		26.0	200	ug/Kg
91-58-7	2-Chloronaphthalene	1700		26.9	200	ug/Kg
88-74-4	2-Nitroaniline	1700		57.5	200	ug/Kg
131-11-3	Dimethylphthalate	1700		32.4	200	ug/Kg

Raw Data: **BF142572.D**

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-54MSD	SDG No.:	Q2150
Lab Sample ID:	Q2150-09MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.6
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142572.D	1	05/30/25 09:50	05/30/25 16:19	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1700		34.5	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	1800		40.1	200	ug/Kg
99-09-2	3-Nitroaniline	750		55.0	200	ug/Kg
83-32-9	Acenaphthene	1900		25.4	200	ug/Kg
51-28-5	2,4-Dinitrophenol	3800	E	270	390	ug/Kg
100-02-7	4-Nitrophenol	3500	E	130	390	ug/Kg
132-64-9	Dibenzofuran	1700		27.1	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		59.8	200	ug/Kg
84-66-2	Diethylphthalate	1700		33.8	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1700		31.9	200	ug/Kg
86-73-7	Fluorene	1700		30.2	200	ug/Kg
100-01-6	4-Nitroaniline	1700		76.7	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1900		120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1700		39.3	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		33.2	200	ug/Kg
118-74-1	Hexachlorobenzene	1700		30.2	200	ug/Kg
1912-24-9	Atrazine	1900		40.6	200	ug/Kg
87-86-5	Pentachlorophenol	3400	E	61.3	390	ug/Kg
85-01-8	Phenanthrene	1700		25.0	200	ug/Kg
120-12-7	Anthracene	1700		39.8	200	ug/Kg
86-74-8	Carbazole	1700		37.3	200	ug/Kg
84-74-2	Di-n-butylphthalate	1900		57.2	200	ug/Kg
206-44-0	Fluoranthene	1700		35.8	200	ug/Kg
129-00-0	Pyrene	1600		43.0	200	ug/Kg
85-68-7	Butylbenzylphthalate	2200		85.3	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	860		43.8	390	ug/Kg
56-55-3	Benzo(a)anthracene	1700		27.5	200	ug/Kg
218-01-9	Chrysene	1800		23.8	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2200		70.7	200	ug/Kg
117-84-0	Di-n-octyl phthalate	1900		100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		22.7	200	ug/Kg

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/28/25
Project:	South River WM Replacement	Date Received:	05/28/25
Client Sample ID:	TP-54MSD	SDG No.:	Q2150
Lab Sample ID:	Q2150-09MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.6
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142572.D	1	05/30/25 09:50	05/30/25 16:19	PB168211

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1800		26.8	200	ug/Kg
50-32-8	Benzo(a)pyrene	1800		35.2	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1700		34.8	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1700		32.7	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		30.7	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		30.6	200	ug/Kg
123-91-1	1,4-Dioxane	1500		54.0	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		32.7	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	88.2		18 - 112	59%	SPK: 150
13127-88-3	Phenol-d6	90.6		15 - 107	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	55.6		18 - 107	56%	SPK: 100
321-60-8	2-Fluorobiphenyl	53.1		20 - 109	53%	SPK: 100
118-79-6	2,4,6-Tribromophenol	94.6		10 - 116	63%	SPK: 150
1718-51-0	Terphenyl-d14	52.7		10 - 105	53%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	120000	6.898			
1146-65-2	Naphthalene-d8	452000	8.187			
15067-26-2	Acenaphthene-d10	234000	9.939			
1517-22-2	Phenanthrene-d10	377000	11.428			
1719-03-5	Chrysene-d12	204000	14.074			
1520-96-3	Perylene-d12	235000	15.568			

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

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

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue May 20 16:26:47 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF142467.D 5 =BF142468.D 10 =BF142469.D 20 =BF142470.D 40 =BF142471.D 50 =BF142472.D 60 =BF142473.D 80 =BF1424
74.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.493	0.460	0.474	0.458	0.500	0.486	0.456	0.475	3.79
3)		Pyridine		1.237	1.150	1.212	1.170	1.273	1.234	1.190	1.210	3.52
4)		n-Nitrosodimet...		0.612	0.593	0.627	0.619	0.673	0.652	0.621	0.628	4.21
5)	S	2-Fluorophenol		1.264	1.214	1.225	1.125	1.220	1.164	1.098	1.187	5.03
6)		Aniline		2.044	1.889	1.963	1.844	1.993	1.910	1.808	1.921	4.35
7)	S	Phenol-d6		1.530	1.449	1.459	1.367	1.467	1.403	1.328	1.429	4.77
8)		2-Chlorophenol		1.345	1.293	1.315	1.252	1.338	1.285	1.223	1.293	3.44
9)		Benzaldehyde		1.035	0.975	0.969	0.817	0.872	0.758	0.591	0.859	17.81
10)	C	Phenol		1.716	1.621	1.646	1.530	1.657	1.597	1.487	1.608	4.85
11)		bis(2-Chloroet...		1.202	1.155	1.168	1.108	1.209	1.156	1.105	1.157	3.52
12)		1,3-Dichlorobe...		1.562	1.470	1.473	1.389	1.482	1.407	1.317	1.443	5.48
13)	C	1,4-Dichlorobe...		1.540	1.476	1.491	1.407	1.495	1.430	1.335	1.453	4.70
14)		1,2-Dichlorobe...		1.495	1.405	1.436	1.327	1.432	1.357	1.284	1.391	5.20
15)		Benzyl Alcohol		1.059	1.024	1.058	1.021	1.131	1.073	1.026	1.056	3.69
16)		2,2'-oxybis(1-...		2.082	1.978	1.983	1.868	2.011	1.898	1.786	1.944	5.11
17)		2-Methylphenol		1.040	0.992	1.026	0.976	1.053	1.015	0.965	1.010	3.27
18)		Hexachloroethane		0.533	0.503	0.523	0.489	0.529	0.497	0.477	0.507	4.23
19)	P	n-Nitroso-di-n...	0.923	0.941	0.880	0.900	0.843	0.912	0.866	0.819	0.886	4.69
20)		3+4-Methylphenols		1.412	1.319	1.337	1.246	1.337	1.250	1.149	1.293	6.59
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.480	0.453	0.459	0.429	0.452	0.428	0.399	0.443	5.98
23)	S	Nitrobenzene-d5		0.376	0.365	0.379	0.356	0.382	0.363	0.347	0.367	3.51
24)		Nitrobenzene		0.338	0.328	0.338	0.323	0.343	0.331	0.316	0.331	2.94
25)		Isophorone		0.636	0.615	0.620	0.593	0.638	0.607	0.585	0.613	3.26
26)	C	2-Nitrophenol		0.167	0.170	0.180	0.175	0.190	0.182	0.173	0.177	4.44
27)		2,4-Dimethylph...		0.315	0.315	0.318	0.303	0.325	0.312	0.295	0.312	3.22
28)		bis(2-Chloroet...		0.406	0.394	0.394	0.364	0.391	0.375	0.358	0.383	4.63
29)	C	2,4-Dichloroph...		0.288	0.282	0.290	0.276	0.300	0.283	0.266	0.283	3.74
30)		1,2,4-Trichlor...		0.325	0.313	0.317	0.295	0.320	0.300	0.284	0.308	4.89
31)		Naphthalene		1.061	1.021	1.020	0.941	1.007	0.953	0.891	0.985	5.94
32)		Benzoic acid			0.153	0.176	0.188	0.211	0.209	0.201	0.190	11.73
33)		4-Chloroaniline		0.424	0.409	0.416	0.389	0.415	0.397	0.343	0.399	6.87
34)	C	Hexachlorobuta...		0.203	0.192	0.197	0.187	0.198	0.192	0.176	0.192	4.52
35)		Caprolactam		0.081	0.076	0.083	0.079	0.085	0.078	0.076	0.080	4.29
36)	C	4-Chloro-3-met...		0.304	0.290	0.299	0.282	0.301	0.287	0.271	0.291	4.02
37)		2-Methylnaphth...		0.679	0.638	0.646	0.590	0.631	0.598	0.556	0.620	6.62
38)		1-Methylnaphth...		0.703	0.668	0.672	0.615	0.650	0.611	0.566	0.641	7.19

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF052025.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.592	0.580	0.588	0.552	0.592	0.573	0.544	0.574	3.39
41)	P	Hexachlorocycl...	0.318	0.350	0.383	0.393	0.430	0.425	0.411	0.387	10.57
42)	S	2,4,6-Tribromo...	0.230	0.225	0.234	0.211	0.233	0.218	0.202	0.222	5.39
43)	C	2,4,6-Trichlor...	0.387	0.373	0.406	0.371	0.406	0.388	0.379	0.387	3.69
44)		2,4,5-Trichlor...	0.410	0.411	0.416	0.395	0.437	0.408	0.381	0.408	4.27
45)	S	2-Fluorobiphenyl	1.726	1.619	1.558	1.387	1.480	1.396	1.268	1.490	10.46
46)		1,1'-Biphenyl	1.672	1.605	1.595	1.480	1.595	1.507	1.408	1.552	5.82
47)		2-Chloronaphth...	1.218	1.170	1.177	1.094	1.183	1.122	1.061	1.146	4.84
48)		2-Nitroaniline	0.333	0.318	0.338	0.324	0.354	0.332	0.320	0.331	3.72
49)		Acenaphthylene	2.064	1.982	2.027	1.851	1.998	1.885	1.745	1.936	5.85
50)		Dimethylphthalate	1.441	1.340	1.367	1.255	1.366	1.256	1.211	1.320	6.16
51)		2,6-Dinitrotol...	0.290	0.283	0.289	0.280	0.302	0.281	0.268	0.285	3.74
52)	C	Acenaphthene	1.259	1.222	1.227	1.120	1.223	1.146	1.077	1.182	5.72
53)		3-Nitroaniline	0.320	0.309	0.327	0.299	0.330	0.305	0.287	0.311	5.02
54)	P	2,4-Dinitrophenol		0.110	0.137	0.149	0.169	0.160	0.158	0.147	14.36
55)		Dibenzofuran	1.886	1.766	1.768	1.606	1.736	1.635	1.509	1.701	7.38
56)	P	4-Nitrophenol	0.221	0.217	0.242	0.227	0.252	0.229	0.220	0.230	5.57
57)		2,4-Dinitrotol...	0.372	0.367	0.387	0.364	0.398	0.372	0.344	0.372	4.62
58)		Fluorene	1.477	1.399	1.372	1.231	1.343	1.238	1.140	1.314	8.85
59)		2,3,4,6-Tetrac...	0.347	0.336	0.360	0.333	0.361	0.333	0.317	0.341	4.71
60)		Diethylphthalate	1.422	1.310	1.359	1.231	1.343	1.218	1.140	1.289	7.51
61)		4-Chlorophenyl...	0.724	0.678	0.676	0.609	0.653	0.612	0.566	0.646	8.25
62)		4-Nitroaniline	0.303	0.283	0.303	0.277	0.294	0.265	0.251	0.282	6.95
63)		Azobenzene	1.239	1.194	1.188	1.107	1.197	1.123	1.055	1.158	5.55
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.086	0.094	0.110	0.115	0.129	0.125	0.123	0.112	14.72
66)	c	n-Nitrosodiphe...	0.712	0.682	0.696	0.649	0.697	0.694	0.660	0.684	3.30
67)		4-Bromophenyl-...	0.240	0.235	0.239	0.222	0.246	0.243	0.230	0.236	3.45
68)		Hexachlorobenzene	0.265	0.267	0.263	0.251	0.273	0.262	0.250	0.262	3.19
69)		Atrazine	0.184	0.174	0.186	0.178	0.196	0.181	0.174	0.182	4.29
70)	C	Pentachlorophenol	0.130	0.135	0.149	0.147	0.162	0.157	0.154	0.148	7.88
71)		Phenanthrene	1.196	1.094	1.100	1.012	1.085	1.033	0.964	1.069	7.00
72)		Anthracene	1.191	1.132	1.124	1.036	1.110	1.048	0.996	1.091	6.15
73)		Carbazole	1.030	0.968	0.982	0.889	0.950	0.877	0.832	0.933	7.39
74)		Di-n-butylphth...	1.108	1.039	1.083	0.976	1.059	0.974	0.908	1.021	6.95
75)	C	Fluoranthene	1.177	1.081	1.052	0.938	0.997	0.901	0.846	0.999	11.41
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.670	0.782	0.903	0.797	0.805	0.698	0.556	0.744	15.12
78)		Pyrene	1.929	1.967	2.066	1.859	1.959	1.773	1.507	1.866	9.79
79)	S	Terphenyl-d14	1.624	1.582	1.660	1.423	1.492	1.337	1.126	1.464	12.80
80)		Butylbenzylpht...	0.462	0.453	0.525	0.526	0.575	0.550	0.517	0.516	8.54
81)		Benzo(a)anthra...	1.424	1.287	1.403	1.278	1.391	1.327	1.238	1.336	5.36
82)		3,3'-Dichlorob...	0.360	0.364	0.402	0.407	0.444	0.442	0.417	0.405	8.30
83)		Chrysene	1.222	1.204	1.193	1.145	1.255	1.223	1.158	1.200	3.20
84)		Bis(2-ethylhex...	0.510	0.548	0.618	0.673	0.765	0.778	0.727	0.660	15.91
85)	c	Di-n-octyl pht...		0.958	1.108	1.266	1.432	1.542	1.437	1.290	17.30

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF052025.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.421	1.495	1.583	1.448	1.583	1.546	1.434	1.501	4.64
88)		Benzo(b)fluora...	1.317	1.105	1.293	1.126	1.209	1.122	1.114	1.184	7.62
89)		Benzo(k)fluora...	1.191	1.166	1.032	1.042	1.178	1.128	1.023	1.109	6.68
90)	C	Benzo(a)pyrene	1.154	1.081	1.114	1.081	1.185	1.133	1.062	1.116	4.00
91)		Dibenzo(a,h)an...	1.152	1.228	1.275	1.184	1.290	1.245	1.149	1.218	4.67
92)		Benzo(g,h,i)pe...	1.154	1.220	1.270	1.180	1.299	1.245	1.158	1.218	4.64

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG No.: Q2150

Instrument ID: BNA_F Calibration Date/Time: 05/30/2025 13:20

Lab File ID: BF142566.D Init. Calib. Date(s): 05/20/2025 05/20/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:10 15:31

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.187	1.142		-3.8	
Benzaldehyde	0.859	0.818		-4.8	
Phenol-d6	1.429	1.395		-2.4	
Phenol	1.608	1.584		-1.5	20.0
bis(2-Chloroethyl)ether	1.157	1.123		-2.9	
2-Chlorophenol	1.293	1.256		-2.9	
2-Methylphenol	1.010	0.992		-1.8	
2,2-oxybis(1-Chloropropane)	1.944	1.881		-3.2	
Acetophenone	0.443	0.414		-6.5	
3+4-Methylphenols	1.293	1.261		-2.5	
n-Nitroso-di-n-propylamine	0.886	0.830	0.050	-6.3	
Nitrobenzene-d5	0.367	0.349		-4.9	
Hexachloroethane	0.507	0.479		-5.5	
Nitrobenzene	0.331	0.318		-3.9	
Isophorone	0.613	0.577		-5.9	
2-Nitrophenol	0.177	0.175		-1.1	20.0
2,4-Dimethylphenol	0.312	0.302		-3.2	
bis(2-Chloroethoxy)methane	0.383	0.367		-4.2	
2,4-Dichlorophenol	0.283	0.273		-3.5	20.0
Naphthalene	0.985	0.922		-6.4	
4-Chloroaniline	0.399	0.386		-3.3	
Hexachlorobutadiene	0.192	0.175		-8.9	20.0
Caprolactam	0.080	0.083		3.8	
4-Chloro-3-methylphenol	0.291	0.279		-4.1	20.0
2-Methylnaphthalene	0.620	0.583		-6.0	
Hexachlorocyclopentadiene	0.387	0.358	0.050	-7.5	
2,4,6-Trichlorophenol	0.387	0.373		-3.6	20.0
2-Fluorobiphenyl	1.490	1.348		-9.5	
2,4,5-Trichlorophenol	0.408	0.398		-2.5	
1,1-Biphenyl	1.552	1.466		-5.5	
2-Chloronaphthalene	1.146	1.087		-5.1	
2-Nitroaniline	0.331	0.326		-1.5	
Dimethylphthalate	1.320	1.261		-4.5	
Acenaphthylene	1.936	1.851		-4.4	
2,6-Dinitrotoluene	0.285	0.281		-1.4	
3-Nitroaniline	0.311	0.320		2.9	
Acenaphthene	1.182	1.133		-4.1	20.0
2,4-Dinitrophenol	0.147	0.156	0.050	6.1	
4-Nitrophenol	0.230	0.234	0.050	1.7	

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG No.: Q2150

Instrument ID: BNA_F Calibration Date/Time: 05/30/2025 13:20

Lab File ID: BF142566.D Init. Calib. Date(s): 05/20/2025 05/20/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:10 15:31

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.701	1.625		-4.5	
2,4-Dinitrotoluene	0.372	0.380		2.2	
Diethylphthalate	1.289	1.248		-3.2	
4-Chlorophenyl-phenylether	0.646	0.618		-4.3	
Fluorene	1.314	1.256		-4.4	
4-Nitroaniline	0.282	0.303		7.4	
4,6-Dinitro-2-methylphenol	0.112	0.117		4.5	
n-Nitrosodiphenylamine	0.684	0.624		-8.8	20.0
2,4,6-Tribromophenol	0.222	0.215		-3.2	
4-Bromophenyl-phenylether	0.236	0.217		-8.1	
Hexachlorobenzene	0.262	0.244		-6.9	
Atrazine	0.182	0.184		1.1	
Pentachlorophenol	0.148	0.139		-6.1	20.0
Phenanthrene	1.069	0.997		-6.7	
Anthracene	1.091	1.035		-5.1	
Carbazole	0.933	0.916		-1.8	
Di-n-butylphthalate	1.021	1.020		-0.1	
Fluoranthene	0.999	1.004		0.5	20.0
Pyrene	1.866	1.816		-2.7	
Terphenyl-d14	1.464	1.377		-5.9	
Butylbenzylphthalate	0.516	0.551		6.8	
3,3-Dichlorobenzidine	0.405	0.411		1.5	
Benzo(a)anthracene	1.336	1.270		-4.9	
Chrysene	1.200	1.171		-2.4	
Bis(2-ethylhexyl)phthalate	0.660	0.643		-2.6	
Di-n-octyl phthalate	1.290	1.047		-18.8	20.0
Benzo(b)fluoranthene	1.184	1.220		3.0	
Benzo(k)fluoranthene	1.109	1.007		-9.2	
Benzo(a)pyrene	1.116	1.095		-1.9	20.0
Indeno(1,2,3-cd)pyrene	1.501	1.407		-6.3	
Dibenzo(a,h)anthracene	1.218	1.143		-6.2	
Benzo(g,h,i)perylene	1.218	1.131		-7.1	
1,2,4,5-Tetrachlorobenzene	0.574	0.549		-4.4	
1,4-Dioxane	0.475	0.463		-2.5	20.0
2,3,4,6-Tetrachlorophenol	0.341	0.332		-2.6	

All other compounds must meet a minimum RRF of 0.010.

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG No.: Q2150

Instrument ID: BNA_F Calibration Date/Time: 06/02/2025 11:30

Lab File ID: BF142590.D Init. Calib. Date(s): 05/20/2025 05/20/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:10 15:31

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.187	1.153		-2.9	
Benzaldehyde	0.859	0.802		-6.6	
Phenol-d6	1.429	1.385		-3.1	
Phenol	1.608	1.558		-3.1	20.0
bis(2-Chloroethyl)ether	1.157	1.124		-2.9	
2-Chlorophenol	1.293	1.260		-2.6	
2-Methylphenol	1.010	0.984		-2.6	
2,2-oxybis(1-Chloropropane)	1.944	1.872		-3.7	
Acetophenone	0.443	0.417		-5.9	
3+4-Methylphenols	1.293	1.242		-3.9	
n-Nitroso-di-n-propylamine	0.886	0.829	0.050	-6.4	
Nitrobenzene-d5	0.367	0.347		-5.4	
Hexachloroethane	0.507	0.483		-4.7	
Nitrobenzene	0.331	0.314		-5.1	
Isophorone	0.613	0.575		-6.2	
2-Nitrophenol	0.177	0.176		-0.6	20.0
2,4-Dimethylphenol	0.312	0.299		-4.2	
bis(2-Chloroethoxy)methane	0.383	0.365		-4.7	
2,4-Dichlorophenol	0.283	0.275		-2.8	20.0
Naphthalene	0.985	0.939		-4.7	
4-Chloroaniline	0.399	0.389		-2.5	
Hexachlorobutadiene	0.192	0.175		-8.9	20.0
Caprolactam	0.080	0.084		5.0	
4-Chloro-3-methylphenol	0.291	0.275		-5.5	20.0
2-Methylnaphthalene	0.620	0.581		-6.3	
Hexachlorocyclopentadiene	0.387	0.340	0.050	-12.1	
2,4,6-Trichlorophenol	0.387	0.366		-5.4	20.0
2-Fluorobiphenyl	1.490	1.341		-10.0	
2,4,5-Trichlorophenol	0.408	0.396		-2.9	
1,1-Biphenyl	1.552	1.455		-6.3	
2-Chloronaphthalene	1.146	1.080		-5.8	
2-Nitroaniline	0.331	0.325		-1.8	
Dimethylphthalate	1.320	1.263		-4.3	
Acenaphthylene	1.936	1.830		-5.5	
2,6-Dinitrotoluene	0.285	0.279		-2.1	
3-Nitroaniline	0.311	0.315		1.3	
Acenaphthene	1.182	1.118		-5.4	20.0
2,4-Dinitrophenol	0.147	0.143	0.050	-2.7	
4-Nitrophenol	0.230	0.227	0.050	-1.3	

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG No.: Q2150

Instrument ID: BNA_F Calibration Date/Time: 06/02/2025 11:30

Lab File ID: BF142590.D Init. Calib. Date(s): 05/20/2025 05/20/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:10 15:31

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.701	1.606		-5.6	
2,4-Dinitrotoluene	0.372	0.374		0.5	
Diethylphthalate	1.289	1.226		-4.9	
4-Chlorophenyl-phenylether	0.646	0.612		-5.3	
Fluorene	1.314	1.257		-4.3	
4-Nitroaniline	0.282	0.295		4.6	
4,6-Dinitro-2-methylphenol	0.112	0.113		0.9	
n-Nitrosodiphenylamine	0.684	0.641		-6.3	20.0
2,4,6-Tribromophenol	0.222	0.212		-4.5	
4-Bromophenyl-phenylether	0.236	0.220		-6.8	
Hexachlorobenzene	0.262	0.246		-6.1	
Atrazine	0.182	0.184		1.1	
Pentachlorophenol	0.148	0.139		-6.1	20.0
Phenanthrene	1.069	1.016		-5.0	
Anthracene	1.091	1.045		-4.2	
Carbazole	0.933	0.918		-1.6	
Di-n-butylphthalate	1.021	1.018		-0.3	
Fluoranthene	0.999	0.991		-0.8	20.0
Pyrene	1.866	1.760		-5.7	
Terphenyl-d14	1.464	1.327		-9.4	
Butylbenzylphthalate	0.516	0.546		5.8	
3,3-Dichlorobenzidine	0.405	0.425		4.9	
Benzo(a)anthracene	1.336	1.272		-4.8	
Chrysene	1.200	1.136		-5.3	
Bis(2-ethylhexyl)phthalate	0.660	0.694		5.2	
Di-n-octyl phthalate	1.290	1.195		-7.4	20.0
Benzo(b)fluoranthene	1.184	1.126		-4.9	
Benzo(k)fluoranthene	1.109	1.039		-6.3	
Benzo(a)pyrene	1.116	1.071		-4.0	20.0
Indeno(1,2,3-cd)pyrene	1.501	1.368		-8.9	
Dibenzo(a,h)anthracene	1.218	1.126		-7.6	
Benzo(g,h,i)perylene	1.218	1.105		-9.3	
1,2,4,5-Tetrachlorobenzene	0.574	0.542		-5.6	
1,4-Dioxane	0.475	0.464		-2.3	20.0
2,3,4,6-Tetrachlorophenol	0.341	0.334		-2.1	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

Quant Time: May 31 00:12:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

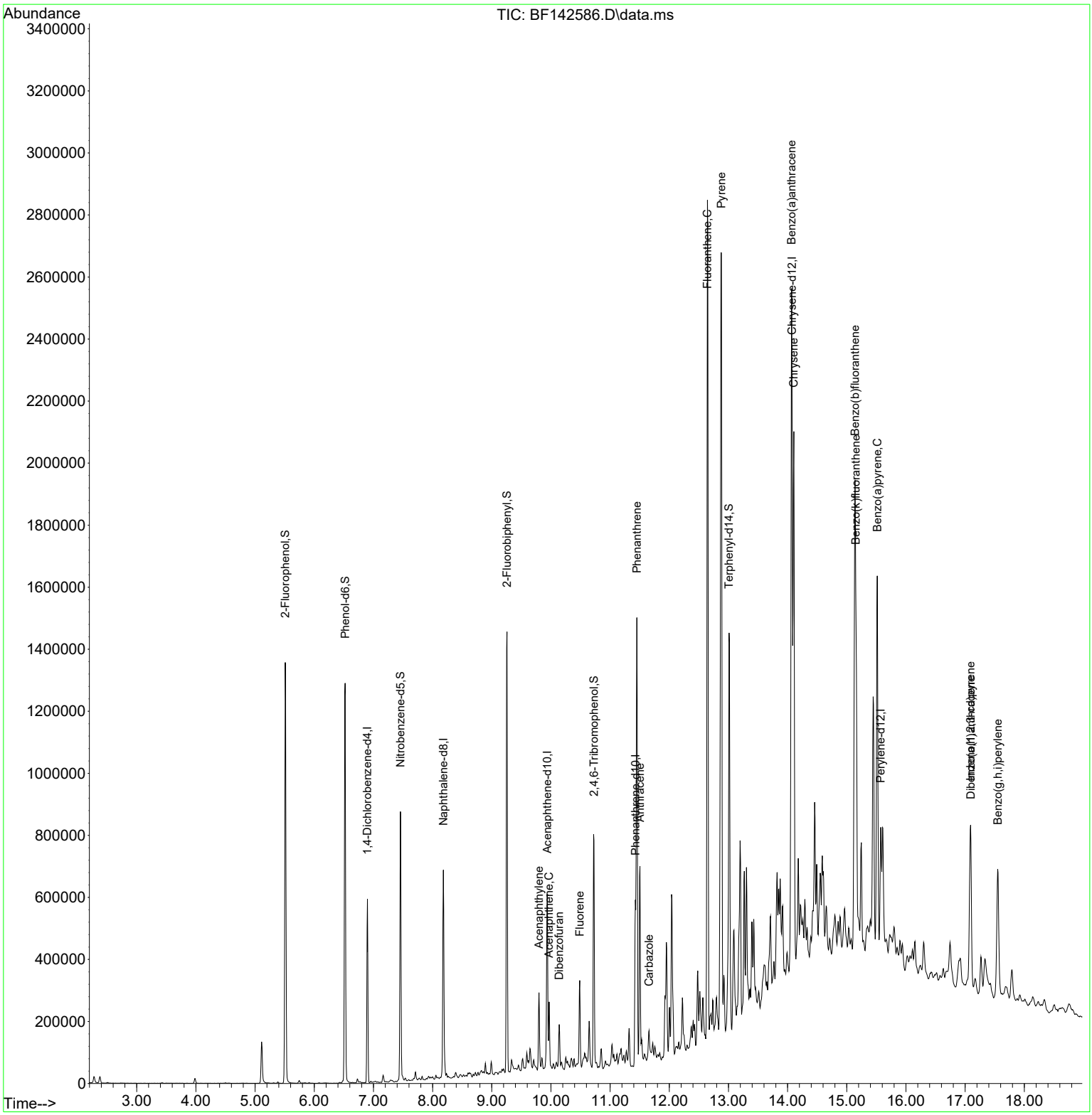
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.898	152	127932	20.000	ng		0.00
21) Naphthalene-d8	8.181	136	419456	20.000	ng		0.00
39) Acenaphthene-d10	9.939	164	173324	20.000	ng		0.00
64) Phenanthrene-d10	11.428	188	272258	20.000	ng		0.00
76) Chrysene-d12	14.074	240	273238	20.000	ng	#	0.00
86) Perylene-d12	15.574	264	220770	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	530834	69.906	ng		0.00
7) Phenol-d6	6.522	99	616313	67.425	ng		-0.01
23) Nitrobenzene-d5	7.457	82	362018	47.062	ng		-0.02
42) 2,4,6-Tribromophenol	10.728	330	122333	63.593	ng		-0.01
45) 2-Fluorobiphenyl	9.257	172	648355	50.195	ng		-0.01
79) Terphenyl-d14	13.010	244	620873	31.052	ng		0.00
Target Compounds							Qvalue
49) Acenaphthylene	9.798	152	139334	8.306	ng		99
52) Acenaphthene	9.969	154	63172	6.167	ng		99
55) Dibenzofuran	10.139	168	71986	4.883	ng		98
58) Fluorene	10.486	166	122179	10.729	ng		100
71) Phenanthrene	11.451	178	761506	52.337	ng		100
72) Anthracene	11.504	178	375473	25.285	ng		99
73) Carbazole	11.657	167	50150	3.950	ng		99
75) Fluoranthene	12.645	202	1677367	123.377	ng		97
78) Pyrene	12.880	202	1627047	63.833	ng		98
81) Benzo(a)anthracene	14.069	228	1158541	63.497	ng		92
83) Chrysene	14.104	228	860064	52.460	ng		96
87) Indeno(1,2,3-cd)pyrene	17.092	276	403177	24.326	ng		97
88) Benzo(b)fluoranthene	15.139	252	1057398m	80.926	ng		
89) Benzo(k)fluoranthene	15.151	252	444893m	36.354	ng		
90) Benzo(a)pyrene	15.516	252	736688	59.815	ng		97
91) Dibenzo(a,h)anthracene	17.098	278	103346	7.688	ng	#	91
92) Benzo(g,h,i)perylene	17.551	276	385367	28.662	ng		98

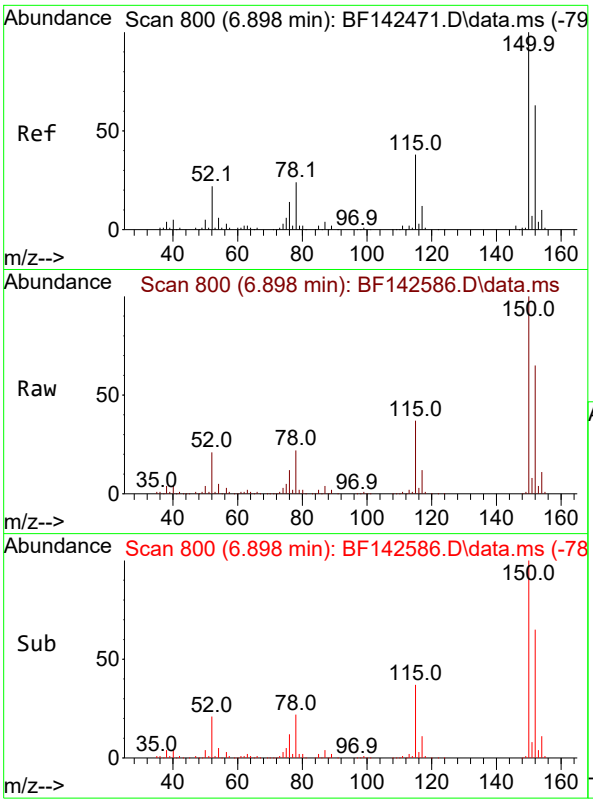
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

Quant Time: May 31 00:12:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



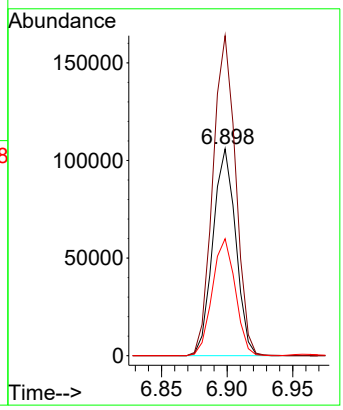


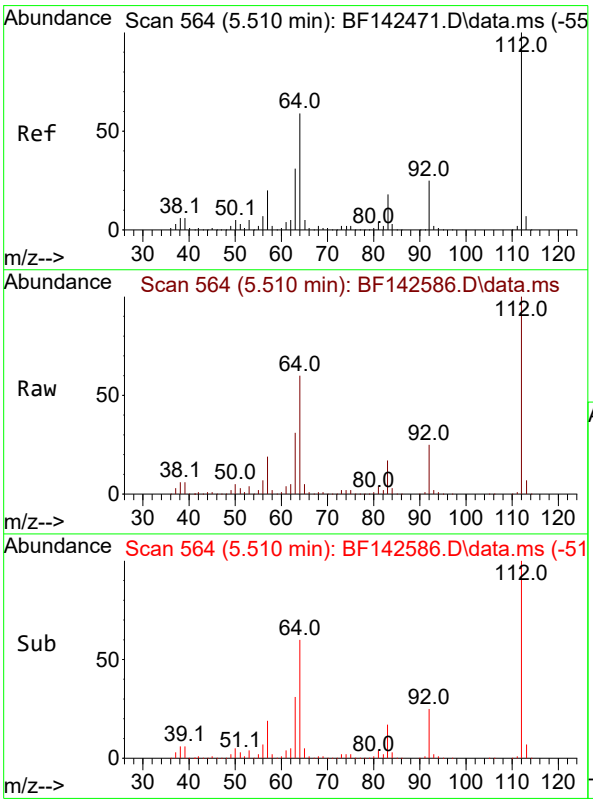
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Instrument :
BNA_F
ClientSampleId :
TP-44

Tgt Ion:152 Resp: 127932

Ion	Ratio	Lower	Upper
152	100		
150	154.7	128.2	192.4
115	56.5	48.3	72.5

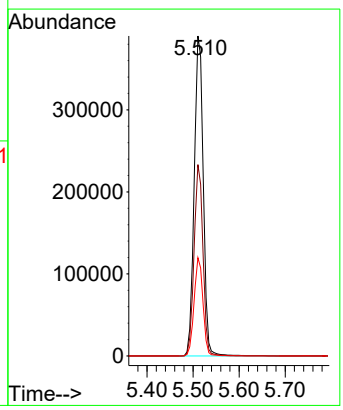


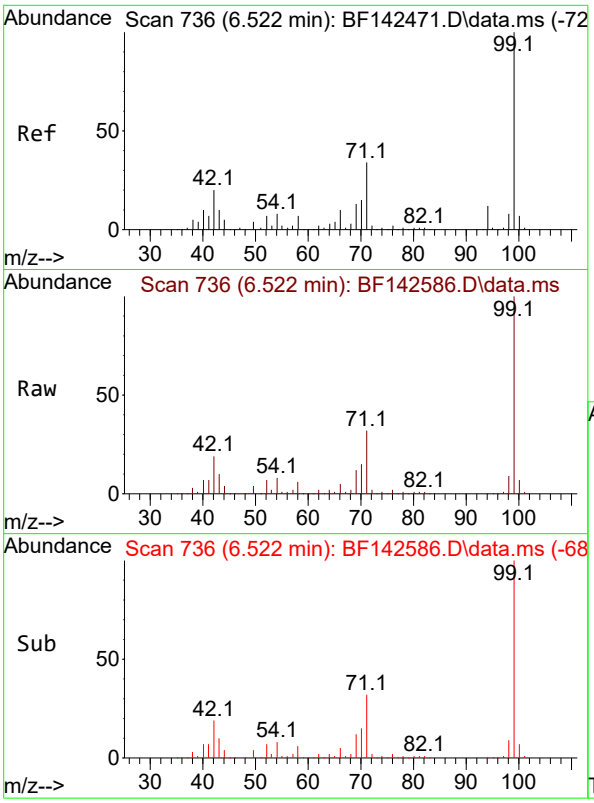


#5
2-Fluorophenol
Concen: 69.906 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion:112 Resp: 530834

Ion	Ratio	Lower	Upper
112	100		
64	59.8	47.5	71.3
63	30.7	24.9	37.3



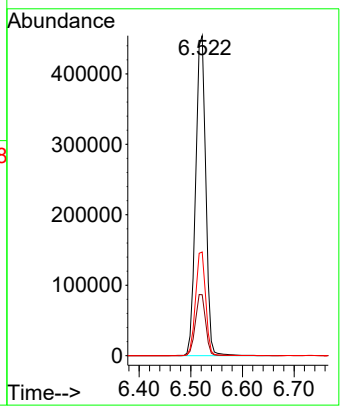


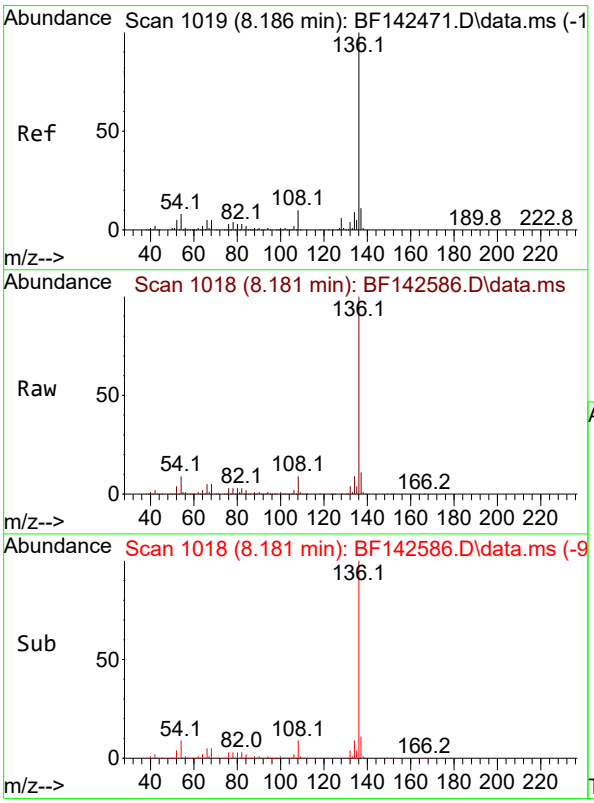
#7
Phenol-d6
Concen: 67.425 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Instrument :
BNA_F
ClientSampleId :
TP-44

Tgt Ion: 99 Resp: 616313

Ion	Ratio	Lower	Upper
99	100		
42	19.0	16.2	24.2
71	32.4	27.3	40.9

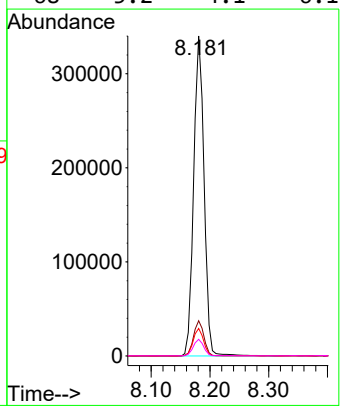


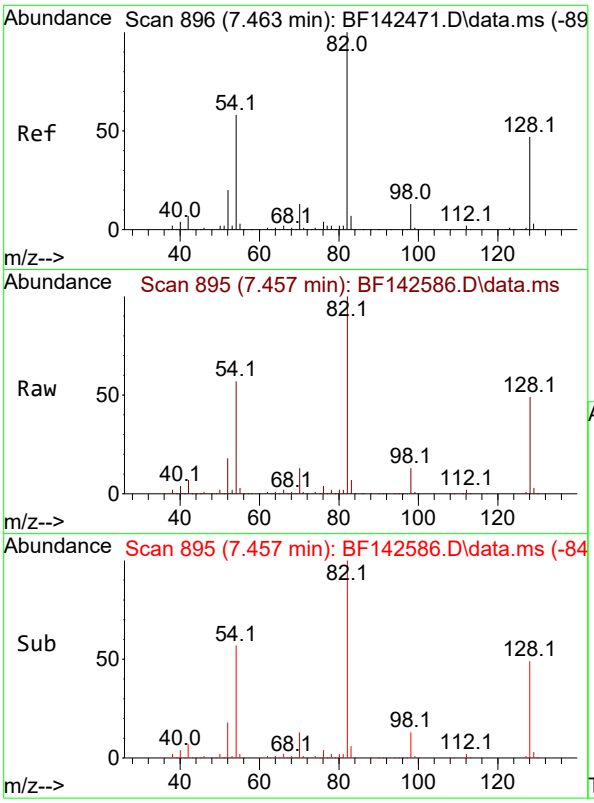


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion:136 Resp: 419456

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	13.0
54	8.6	6.6	10.0
68	5.2	4.1	6.1



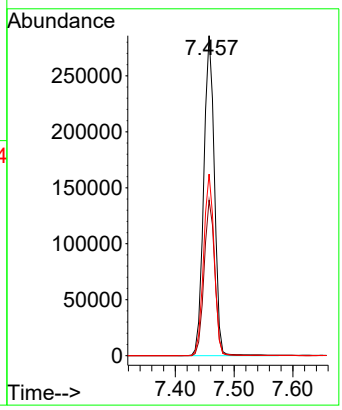


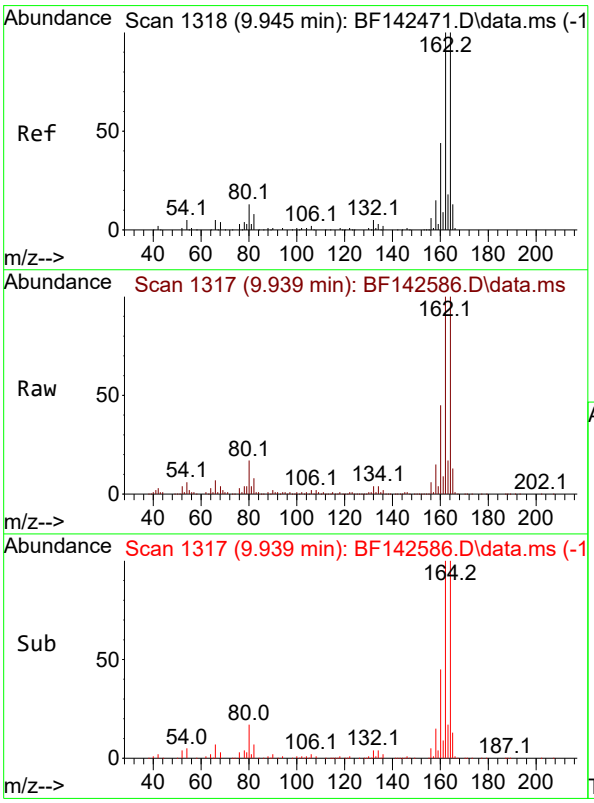
#23
Nitrobenzene-d5
Concen: 47.062 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Instrument :
BNA_F
ClientSampleId :
TP-44

Tgt Ion: 82 Resp: 362018

Ion	Ratio	Lower	Upper
82	100		
128	48.6	37.4	56.2
54	56.7	46.6	70.0

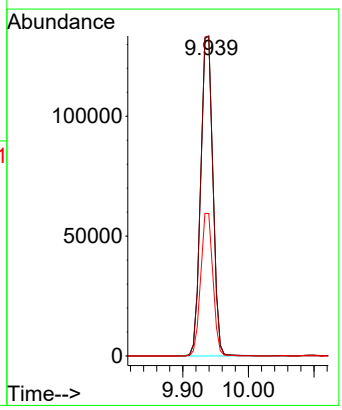


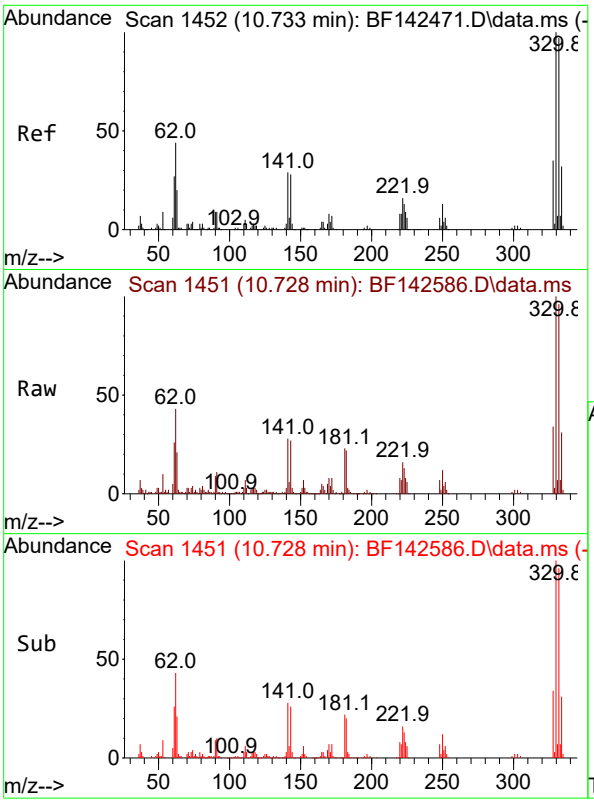


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion:164 Resp: 173324

Ion	Ratio	Lower	Upper
164	100		
162	100.1	80.2	120.4
160	44.6	35.6	53.4



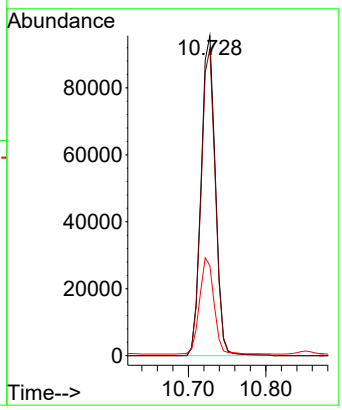


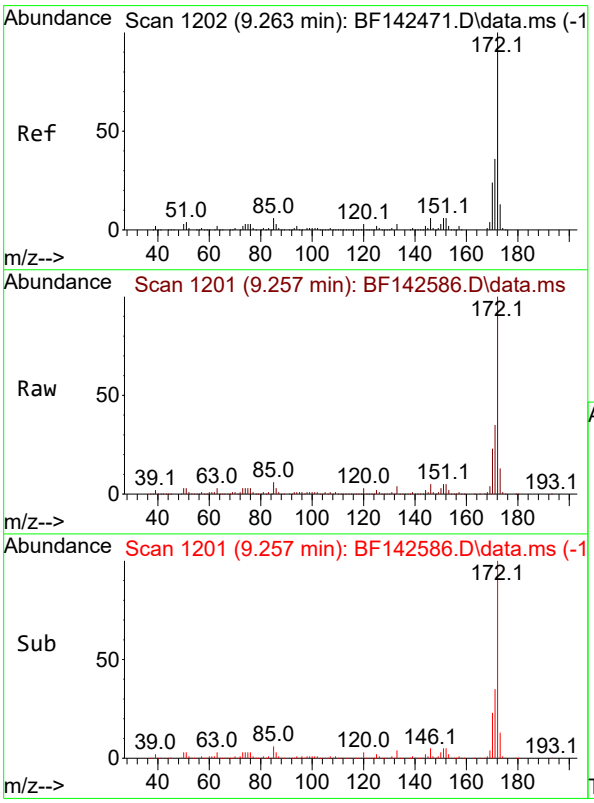
#42
2,4,6-Tribromophenol
Concen: 63.593 ng
RT: 10.728 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Instrument :
BNA_F
ClientSampleId :
TP-44

Tgt Ion:330 Resp: 122333

Ion	Ratio	Lower	Upper
330	100		
332	95.4	77.6	116.4
141	30.6	24.6	36.8

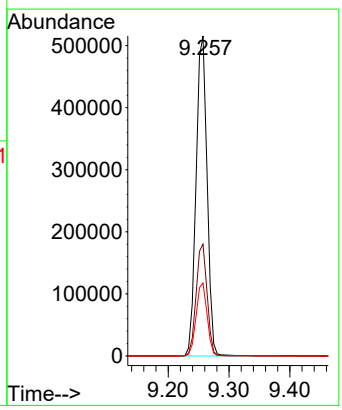


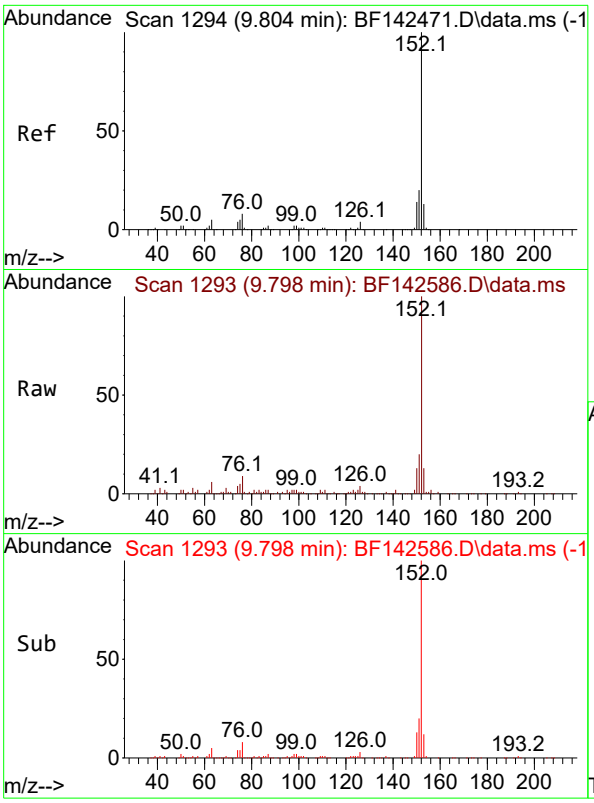


#45
2-Fluorobiphenyl
Concen: 50.195 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.011 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion:172 Resp: 648355

Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.6	42.8
170	22.8	18.9	28.3



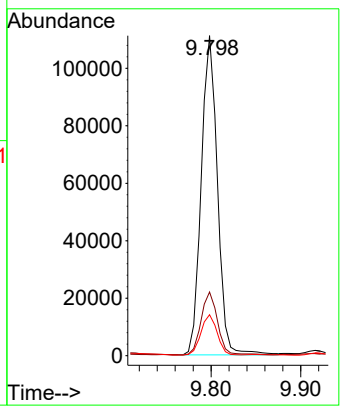


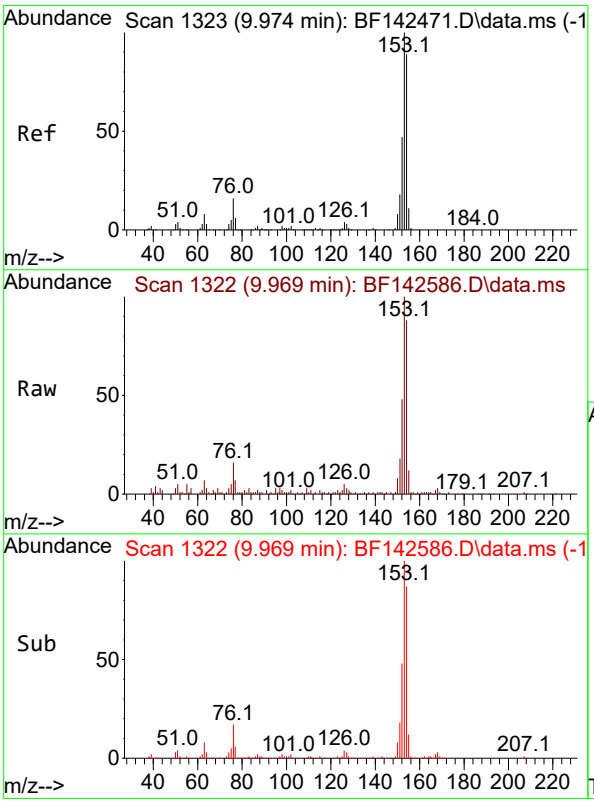
#49
Acenaphthylene
Concen: 8.306 ng
RT: 9.798 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Instrument :
BNA_F
ClientSampleId :
TP-44

Tgt Ion:152 Resp: 139334

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.8
153	12.8	10.6	15.8

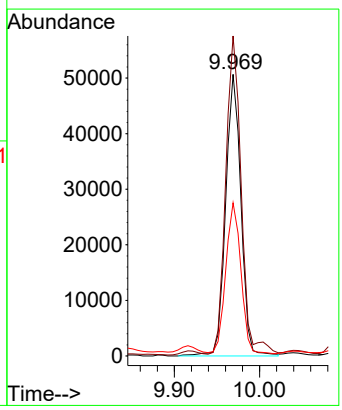


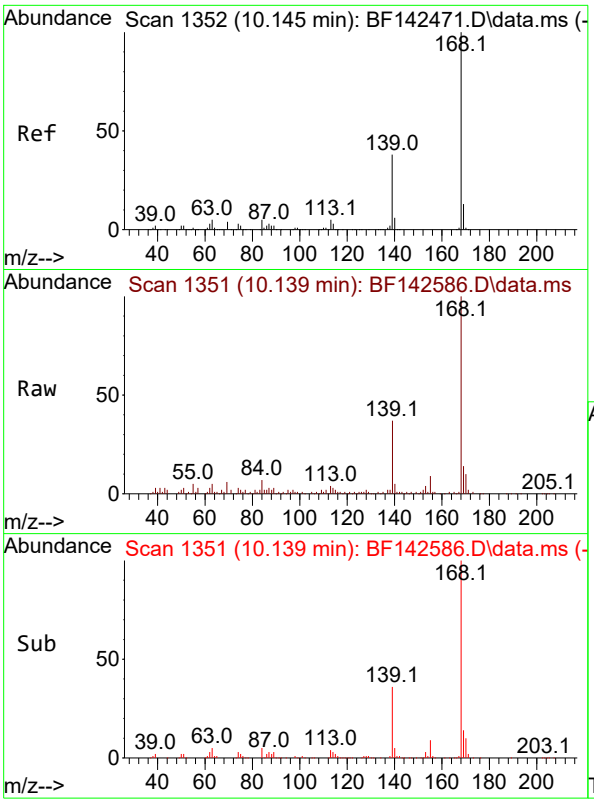


#52
Acenaphthene
Concen: 6.167 ng
RT: 9.969 min Scan# 1322
Delta R.T. -0.011 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion:154 Resp: 63172

Ion	Ratio	Lower	Upper
154	100		
153	113.6	90.0	135.0
152	54.4	42.6	64.0



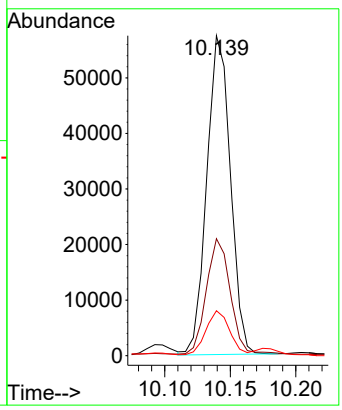


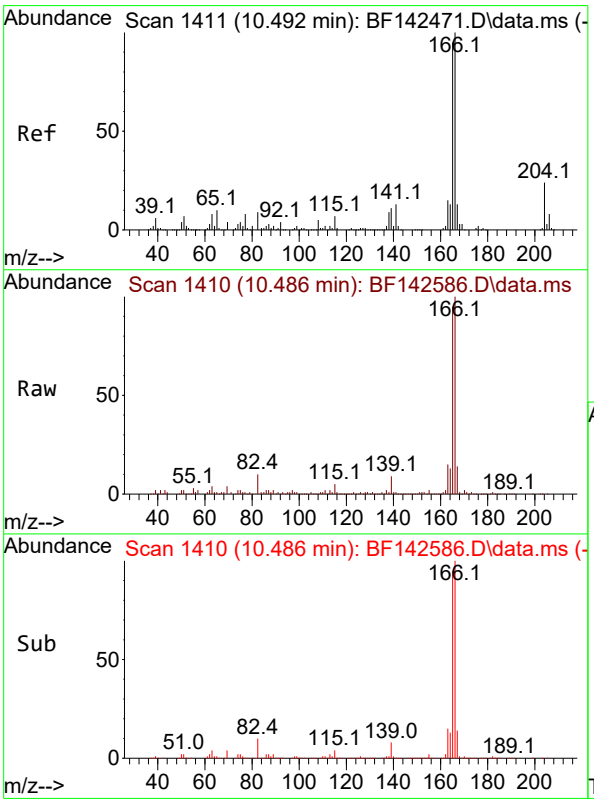
#55
Dibenzofuran
Concen: 4.883 ng
RT: 10.139 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Instrument :
BNA_F
ClientSampleId :
TP-44

Tgt Ion:168 Resp: 71986

Ion	Ratio	Lower	Upper
168	100		
139	36.5	30.2	45.2
169	14.0	10.7	16.1

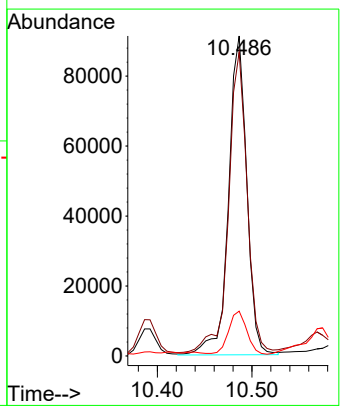


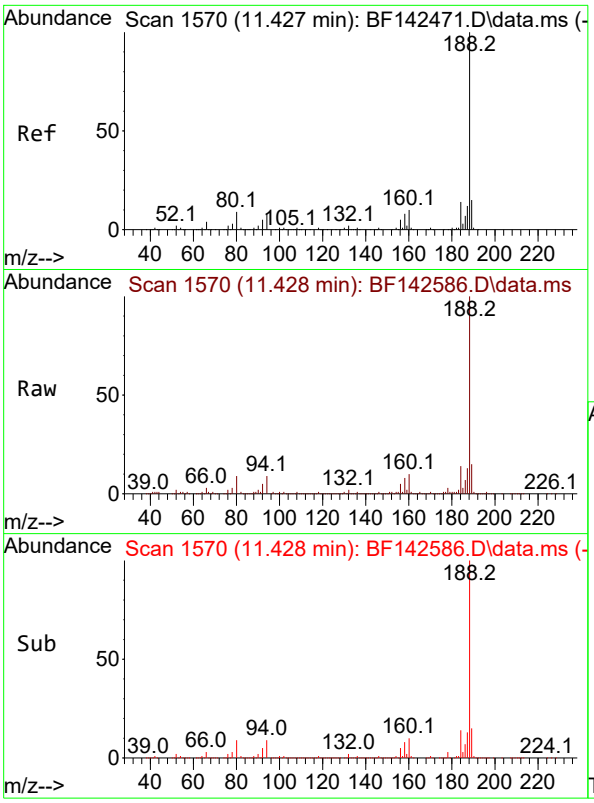


#58
Fluorene
Concen: 10.729 ng
RT: 10.486 min Scan# 1410
Delta R.T. -0.011 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion:166 Resp: 122179

Ion	Ratio	Lower	Upper
166	100		
165	95.0	75.8	113.8
167	14.0	10.6	16.0



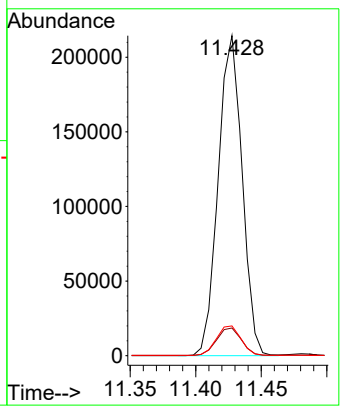


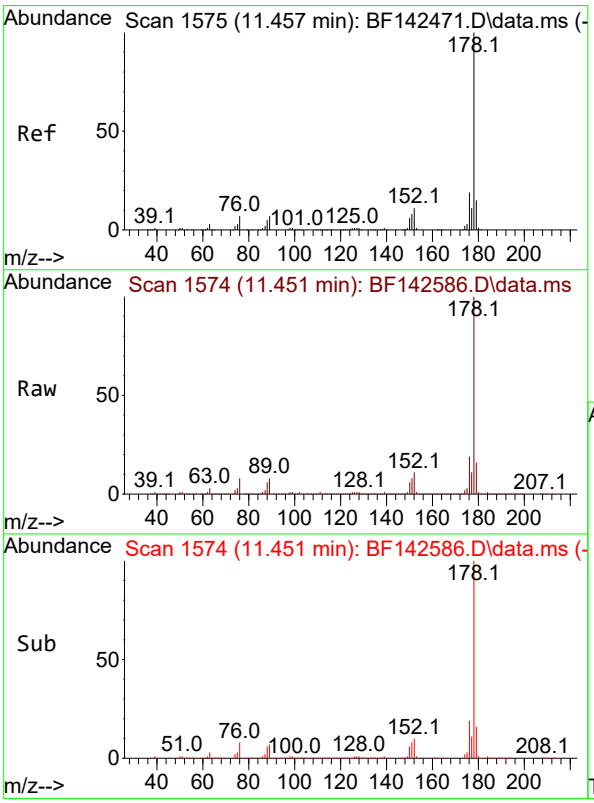
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Instrument :
BNA_F
ClientSampleId :
TP-44

Tgt Ion:188 Resp: 272258

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.6	10.0
80	9.3	7.4	11.0

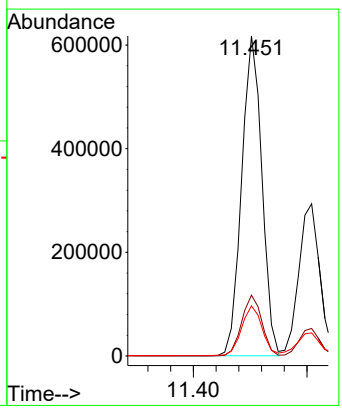


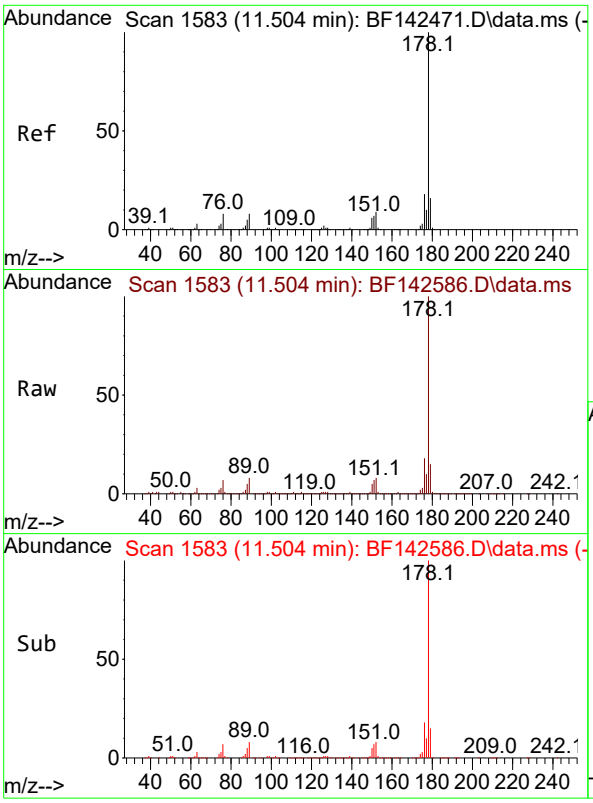


#71
Phenanthrene
Concen: 52.337 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion:178 Resp: 761506

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.0
179	15.7	12.3	18.5



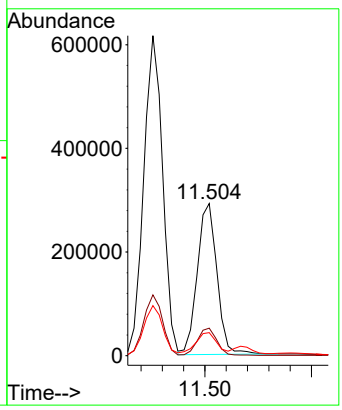


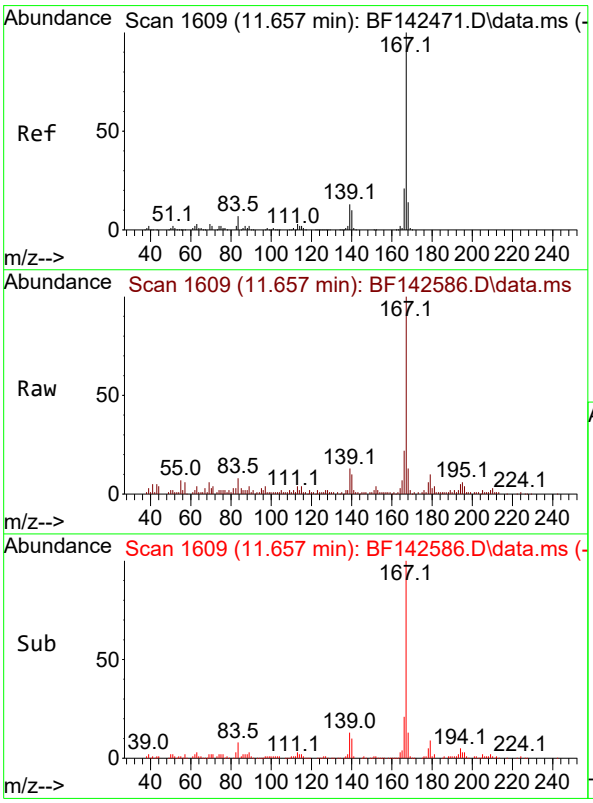
#72
Anthracene
Concen: 25.285 ng
RT: 11.504 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Instrument :
BNA_F
ClientSampleId :
TP-44

Tgt Ion:178 Resp: 375473

Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.6	21.8
179	15.2	12.4	18.6

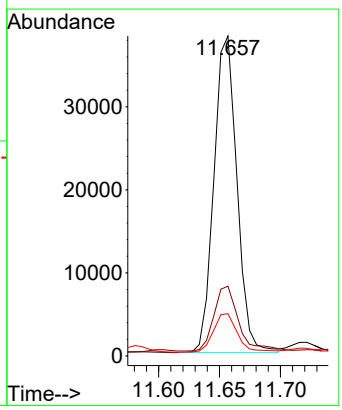


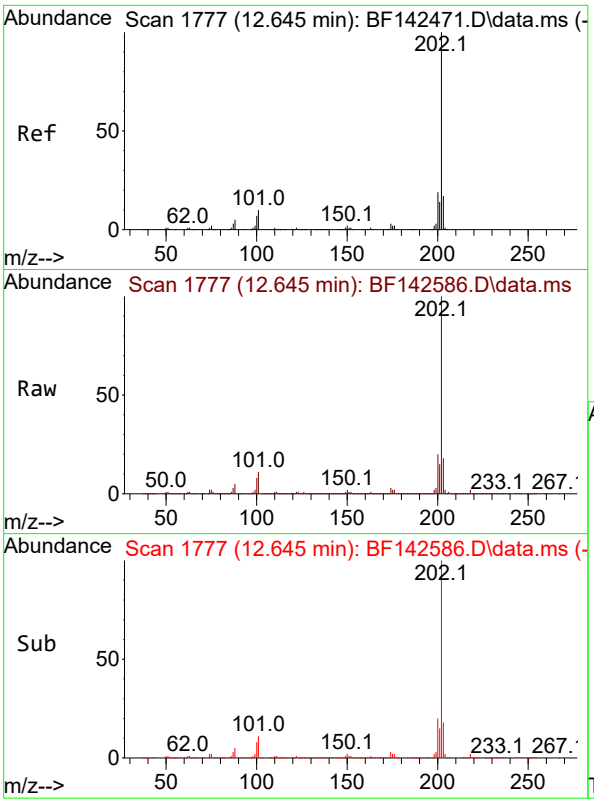


#73
Carbazole
Concen: 3.950 ng
RT: 11.657 min Scan# 1609
Delta R.T. -0.006 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion:167 Resp: 50150

Ion	Ratio	Lower	Upper
167	100		
166	21.8	16.9	25.3
139	13.2	10.2	15.4



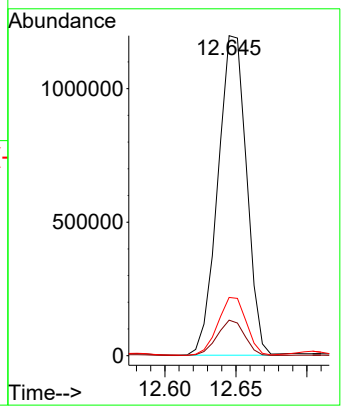


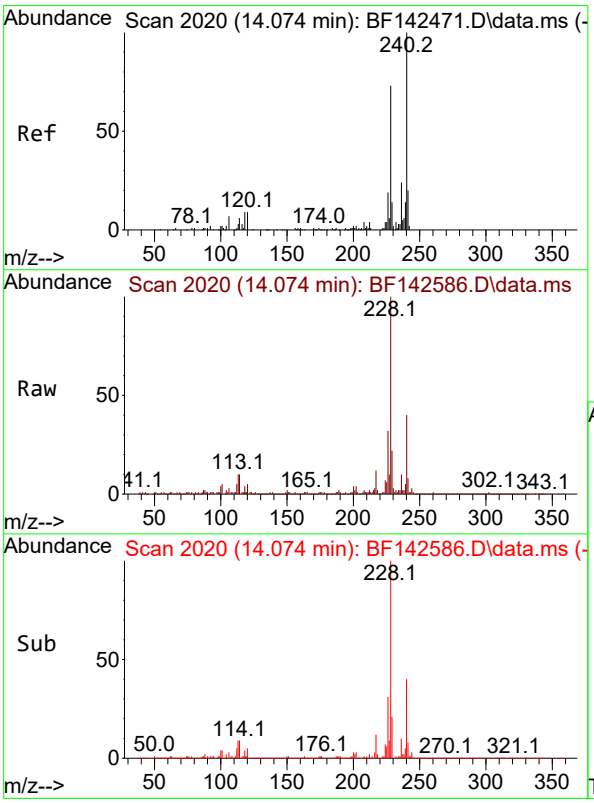
#75
Fluoranthene
Concen: 123.377 ng
RT: 12.645 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Instrument :
BNA_F
ClientSampleId :
TP-44

Tgt Ion:202 Resp: 1677367

Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	29.6
203	18.2	0.0	37.2

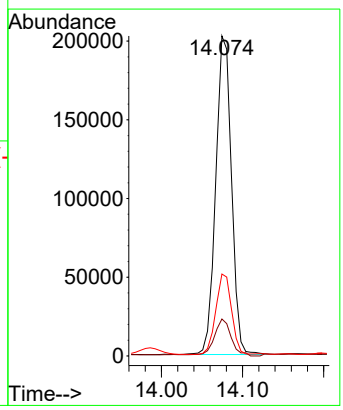


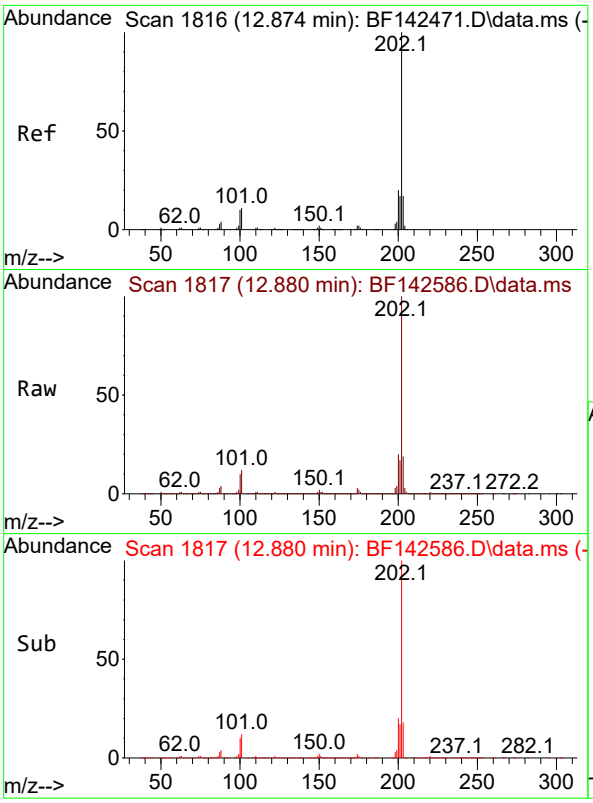


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.074 min Scan# 2020
Delta R.T. 0.000 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion:240 Resp: 273238

Ion	Ratio	Lower	Upper
240	100		
120	11.6	7.5	11.3#
236	25.6	19.6	29.4



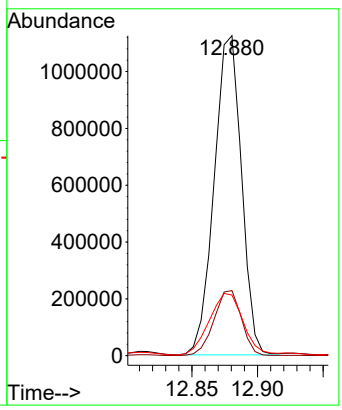


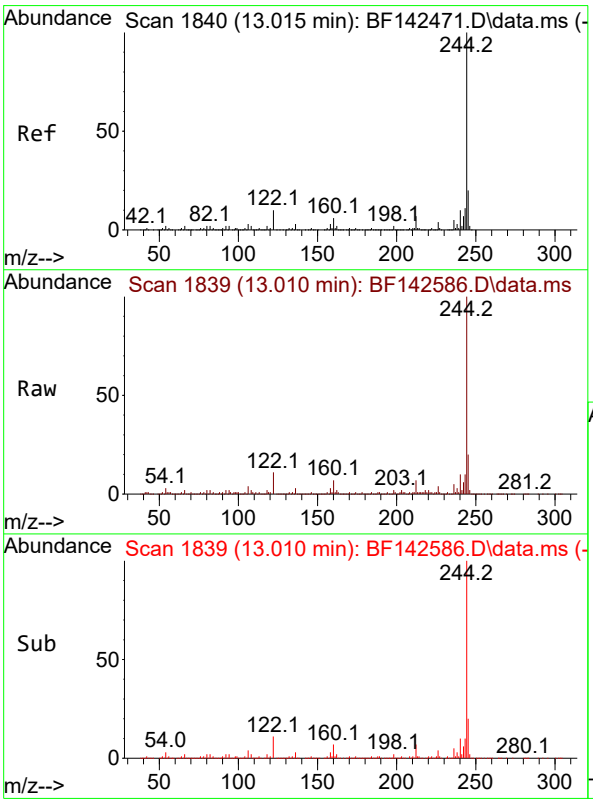
#78
Pyrene
Concen: 63.833 ng
RT: 12.880 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Instrument :
BNA_F
ClientSampleId :
TP-44

Tgt Ion:202 Resp: 1627047

Ion	Ratio	Lower	Upper
202	100		
200	20.3	16.1	24.1
203	19.0	13.9	20.9

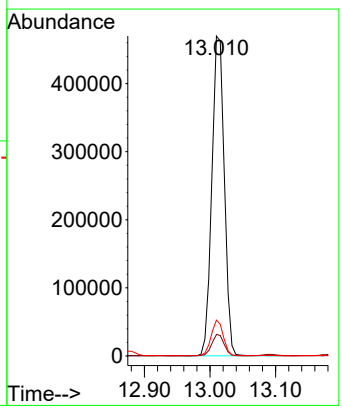


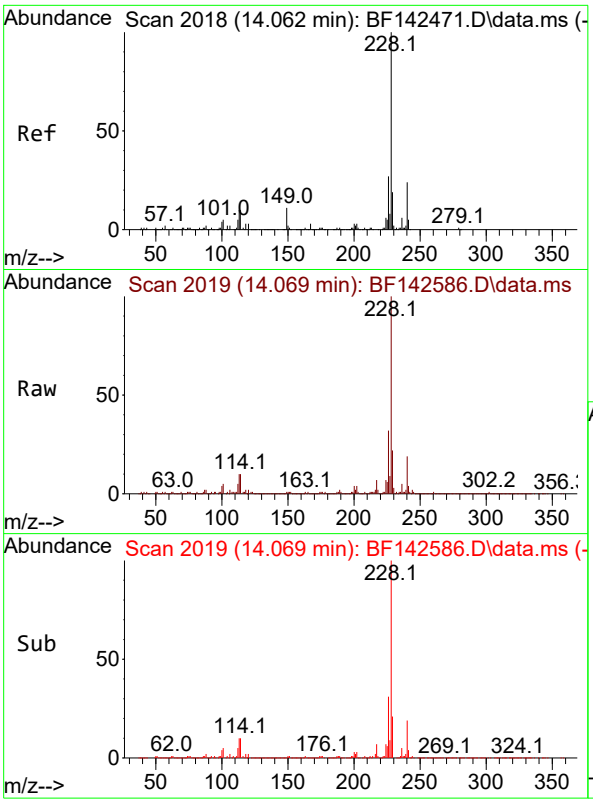


#79
Terphenyl-d14
Concen: 31.052 ng
RT: 13.010 min Scan# 1839
Delta R.T. -0.006 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion:244 Resp: 620873

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.3	7.9
122	11.2	8.2	12.2



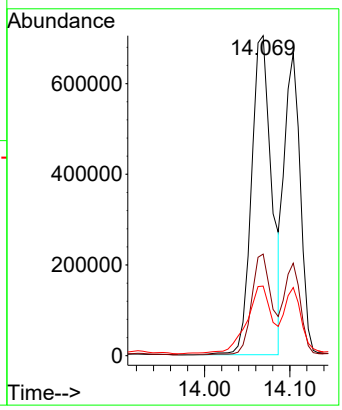


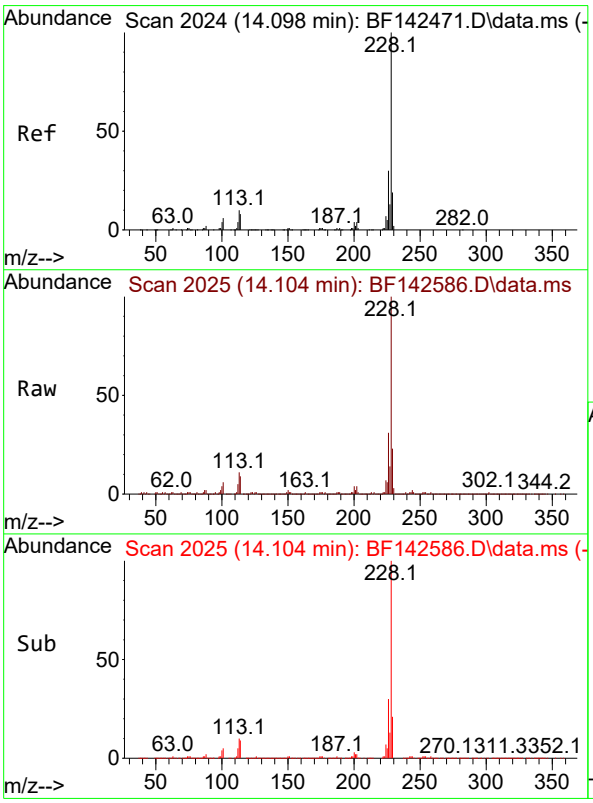
#81
Benzo(a)anthracene
Concen: 63.497 ng
RT: 14.069 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Instrument :
BNA_F
ClientSampleId :
TP-44

Tgt Ion:228 Resp: 1158541

Ion	Ratio	Lower	Upper
228	100		
226	31.7	21.2	31.8
229	21.8	15.5	23.3

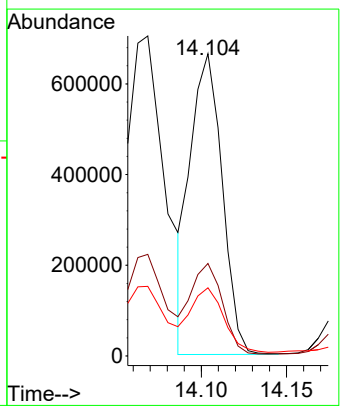


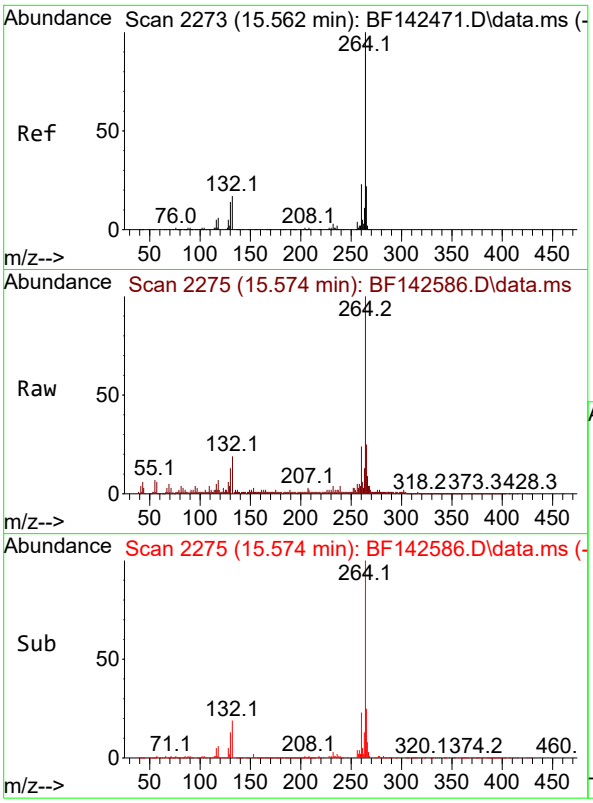


#83
Chrysene
Concen: 52.460 ng
RT: 14.104 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion:228 Resp: 860064

Ion	Ratio	Lower	Upper
228	100		
226	30.6	23.8	35.6
229	22.5	15.4	23.2



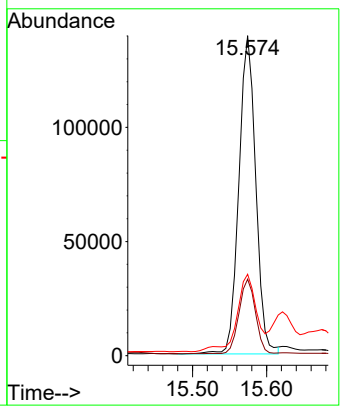


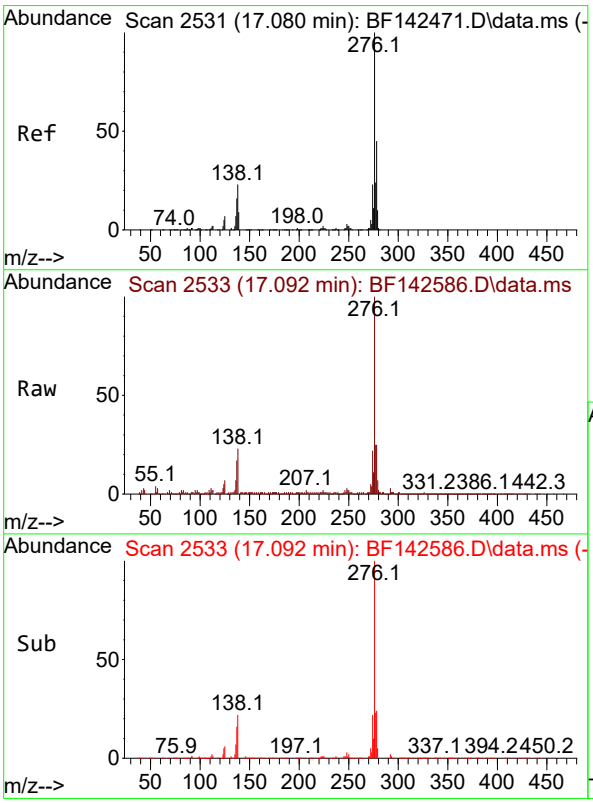
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.574 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Instrument :
BNA_F
ClientSampleId :
TP-44

Tgt Ion:264 Resp: 220770

Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.6	28.0
265	25.5	17.7	26.5

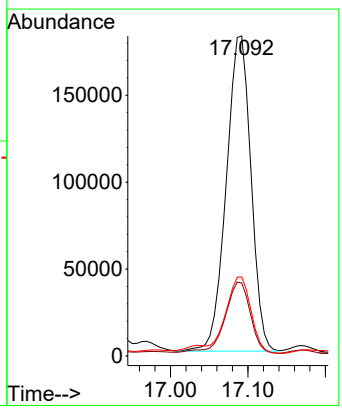


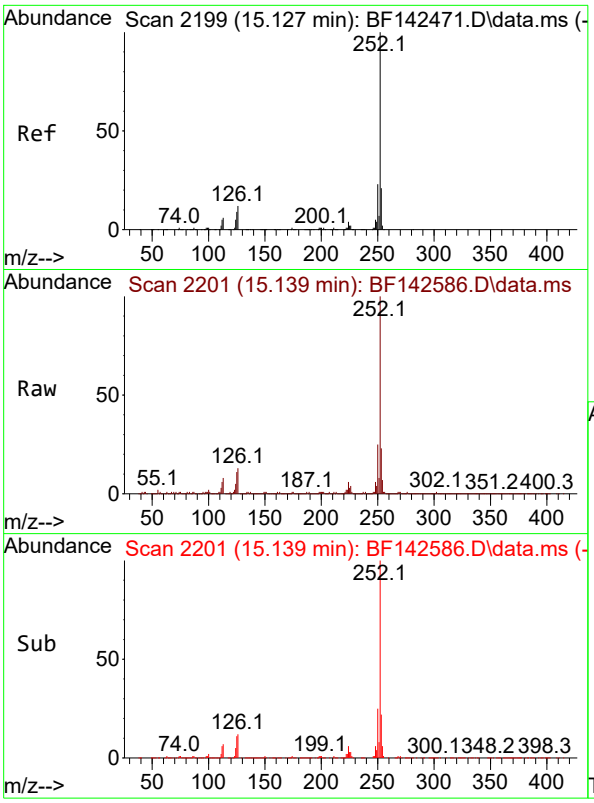


#87
Indeno(1,2,3-cd)pyrene
Concen: 24.326 ng
RT: 17.092 min Scan# 2533
Delta R.T. 0.000 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion:276 Resp: 403177

Ion	Ratio	Lower	Upper
276	100		
138	23.1	19.9	29.9
277	26.8	20.2	30.2



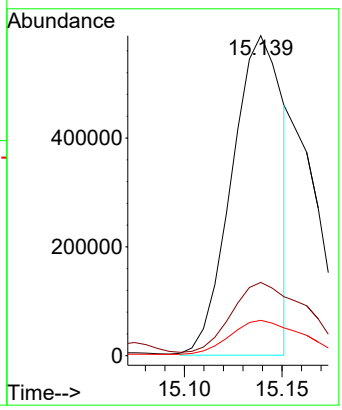


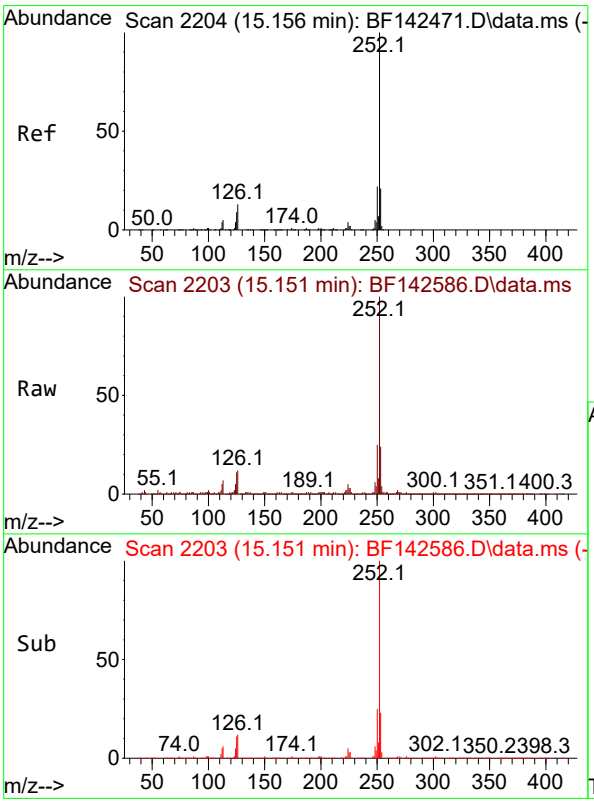
#88
Benzo(b)fluoranthene
Concen: 80.926 ng m
RT: 15.139 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Instrument :
BNA_F
ClientSampleId :
TP-44

Tgt Ion:252 Resp: 1057398

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.0	25.4
125	11.1	7.4	11.0#

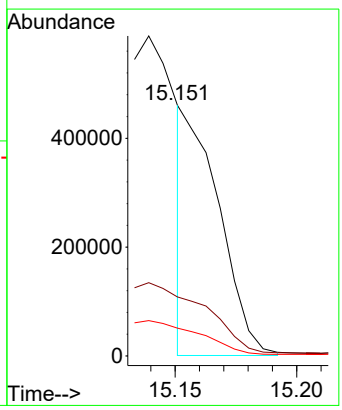


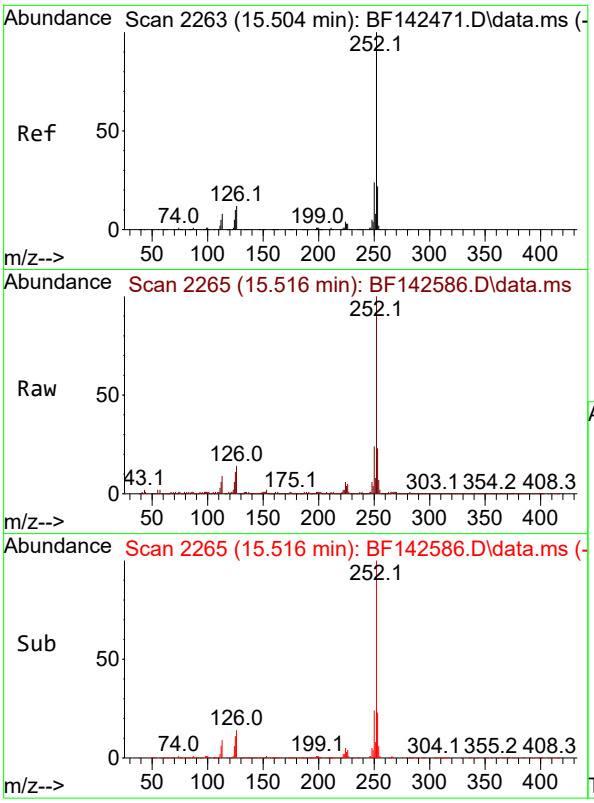


#89
Benzo(k)fluoranthene
Concen: 36.354 ng m
RT: 15.151 min Scan# 2203
Delta R.T. -0.012 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion:252 Resp: 444893

Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.0	25.4
125	11.1	7.3	10.9#



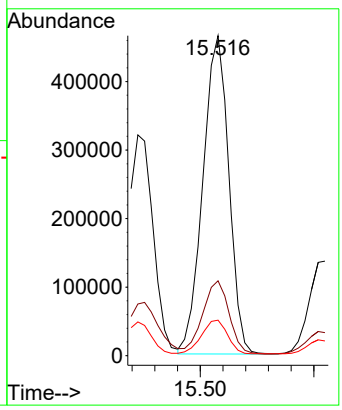


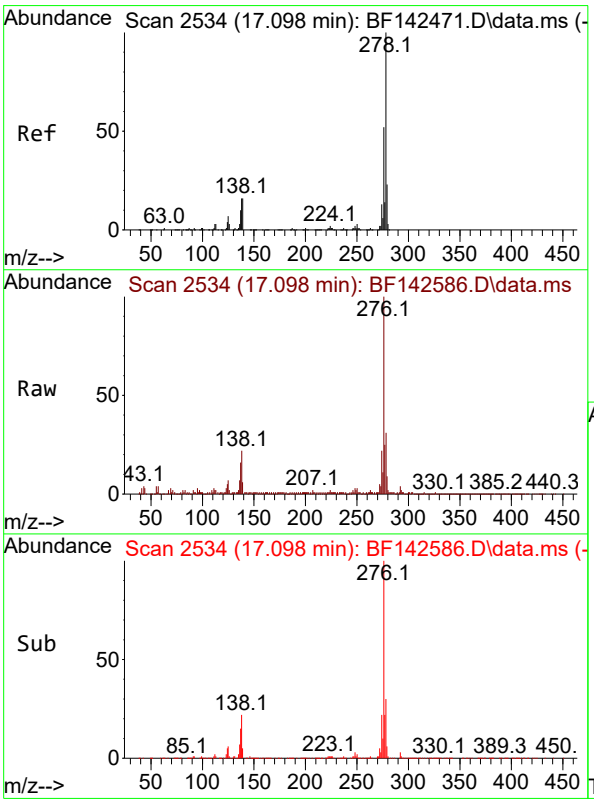
#90
Benzo(a)pyrene
Concen: 59.815 ng
RT: 15.516 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Instrument :
BNA_F
ClientSampleId :
TP-44

Tgt Ion:252 Resp: 736688

Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.4	26.0
125	11.1	7.9	11.9

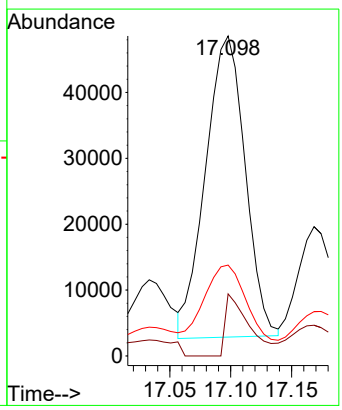


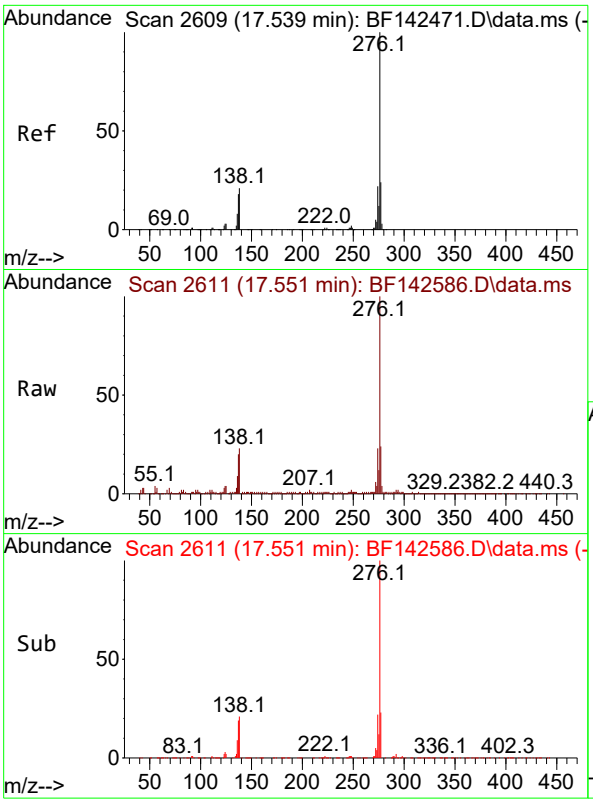


#91
Dibenzo(a,h)anthracene
Concen: 7.688 ng
RT: 17.098 min Scan# 2534
Delta R.T. -0.017 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Tgt Ion:278 Resp: 103346

Ion	Ratio	Lower	Upper
278	100		
139	19.4	12.8	19.2#
279	28.4	18.6	28.0#



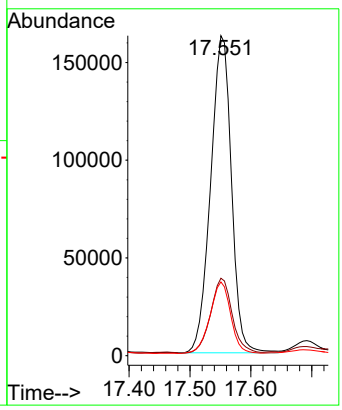


#92
Benzo(g,h,i)perylene
Concen: 28.662 ng
RT: 17.551 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142586.D
Acq: 30 May 2025 23:10

Instrument :
BNA_F
ClientSampleId :
TP-44

Tgt Ion:276 Resp: 385367

Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.2	28.8
138	23.1	16.8	25.2



Sample Results: **BF142586.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142586.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.110	487	496	511	rBV	133766	210435	4.91%	0.399%
2	5.510	553	564	584	rBV	1356665	1834317	42.78%	3.477%
3	6.522	730	736	754	rVB	1288178	1763669	41.13%	3.343%
4	6.898	795	800	805	rBV	591069	716473	16.71%	1.358%
5	7.457	884	895	900	rBV	870836	1118766	26.09%	2.120%
6	8.181	1011	1018	1025	rBV	669527	891603	20.79%	1.690%
7	8.992	1152	1156	1164	rVB	41394	54433	1.27%	0.103%
8	9.257	1195	1201	1206	rBV	1421425	1799868	41.98%	3.411%
9	9.334	1210	1214	1221	rBV2	38798	80303	1.87%	0.152%
10	9.522	1241	1246	1250	rBV	38978	63669	1.48%	0.121%
11	9.592	1254	1258	1261	rVV	56993	85430	1.99%	0.162%
12	9.645	1264	1267	1274	rVV4	69315	127302	2.97%	0.241%
13	9.710	1274	1278	1288	rVB3	32452	68546	1.60%	0.130%
14	9.798	1288	1293	1298	rBV	249202	321119	7.49%	0.609%
15	9.845	1298	1301	1306	rVV2	36223	50580	1.18%	0.096%
16	9.934	1310	1316	1320	rVV	562462	793014	18.50%	1.503%
17	9.969	1320	1322	1330	rVB	214657	244887	5.71%	0.464%
18	10.139	1347	1351	1355	rBV	135464	167432	3.91%	0.317%
19	10.251	1366	1370	1373	rBV2	39237	62209	1.45%	0.118%
20	10.345	1382	1386	1391	rBV5	28390	51528	1.20%	0.098%
21	10.486	1405	1410	1415	rVB	279172	364763	8.51%	0.691%
22	10.569	1416	1424	1427	rBV4	43256	104816	2.44%	0.199%
23	10.645	1433	1437	1445	rVB	149368	219972	5.13%	0.417%
24	10.722	1445	1450	1456	rBV	750873	1009350	23.54%	1.913%
25	10.851	1467	1472	1477	rVB2	64286	101801	2.37%	0.193%
26	11.034	1498	1503	1506	rBV2	61595	93264	2.18%	0.177%
27	11.275	1540	1544	1548	rBV2	39269	63658	1.48%	0.121%
28	11.322	1548	1552	1558	rVB	123244	173381	4.04%	0.329%
29	11.428	1565	1570	1571	rBV	537520	647926	15.11%	1.228%
30	11.451	1571	1574	1578	rVV	1439727	1793751	41.84%	3.400%
31	11.504	1578	1583	1586	rVV	630191	827641	19.30%	1.569%
32	11.533	1586	1588	1593	rVB2	63634	78077	1.82%	0.148%
33	11.657	1605	1609	1616	rBV	82169	135870	3.17%	0.258%
34	11.722	1617	1620	1623	rVV	44903	56437	1.32%	0.107%
35	11.757	1623	1626	1631	rVB3	35388	48796	1.14%	0.092%
36	11.928	1651	1655	1656	rBV	193431	215971	5.04%	0.409%

Sample Results: **BF142586.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	11.951	1656	1659	1664	rVV2	364325	540511	12.61%	1.024%
38	12.004	1664	1668	1670	rVV	153266	192956	4.50%	0.366%
39	12.039	1670	1674	1682	rVB	515468	875380	20.42%	1.659%
40	12.222	1701	1705	1709	rBV	149550	202180	4.72%	0.383%
41	12.404	1733	1736	1738	rBV	57161	60032	1.40%	0.114%
42	12.480	1744	1749	1752	rBV	239894	364695	8.51%	0.691%
43	12.516	1752	1755	1761	rVV2	165767	299770	6.99%	0.568%
44	12.569	1761	1764	1772	rVB3	136919	218972	5.11%	0.415%
45	12.645	1772	1777	1782	rBV	2704129	3724141	86.86%	7.059%
46	12.704	1782	1787	1789	rVV2	62323	118193	2.76%	0.224%
47	12.733	1789	1792	1796	rVB	100015	118568	2.77%	0.225%
48	12.798	1799	1803	1809	rVB3	104605	183412	4.28%	0.348%
49	12.875	1809	1816	1822	rBV	2504817	4287590	100.00%	8.127%
50	12.922	1822	1824	1829	rVB2	178314	227409	5.30%	0.431%
51	13.010	1831	1839	1847	rVB2	1278209	2115090	49.33%	4.009%
52	13.092	1847	1853	1860	rBV4	320415	693878	16.18%	1.315%
53	13.198	1864	1871	1875	rVB	560113	1032510	24.08%	1.957%
54	13.269	1879	1883	1886	rVV	423772	554161	12.92%	1.050%
55	13.304	1886	1889	1896	rVB2	424173	595676	13.89%	1.129%
56	13.398	1901	1905	1907	rBV	244419	296785	6.92%	0.563%
57	13.427	1907	1910	1914	rVB	224820	269706	6.29%	0.511%
58	13.710	1951	1958	1962	rBV2	220399	407211	9.50%	0.772%
59	13.822	1972	1977	1979	rBV3	330427	512024	11.94%	0.970%
60	13.874	1984	1986	1990	rVB2	188343	227411	5.30%	0.431%
61	14.069	2012	2019	2022	rBV2	2195525	3780788	88.18%	7.166%
62	14.104	2022	2025	2031	rVB	1701299	2322671	54.17%	4.402%
63	14.180	2035	2038	2041	rVB	248893	291907	6.81%	0.553%
64	14.292	2054	2057	2061	rVB2	131674	160172	3.74%	0.304%
65	14.457	2081	2085	2088	rBV	361347	482225	11.25%	0.914%
66	14.492	2089	2091	2095	rVB	226872	231224	5.39%	0.438%
67	14.586	2104	2107	2109	rBV	159422	195761	4.57%	0.371%
68	15.139	2194	2201	2210	rBV	1511861	3877801	90.44%	7.350%
69	15.245	2215	2219	2223	rVB	320204	444418	10.37%	0.842%
70	15.445	2248	2253	2259	rVB	782088	1319042	30.76%	2.500%
71	15.516	2259	2265	2270	rVV	1174673	1823846	42.54%	3.457%
72	15.574	2271	2275	2278	rVV	366569	621877	14.50%	1.179%
73	15.604	2278	2280	2288	rVB2	368518	576723	13.45%	1.093%
74	17.092	2526	2533	2541	rVB2	520999	1150182	26.83%	2.180%
75	17.551	2605	2611	2621	rVB	402404	922232	21.51%	1.748%

Sample Results: **BF142586.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Sum of corrected areas: 52760187

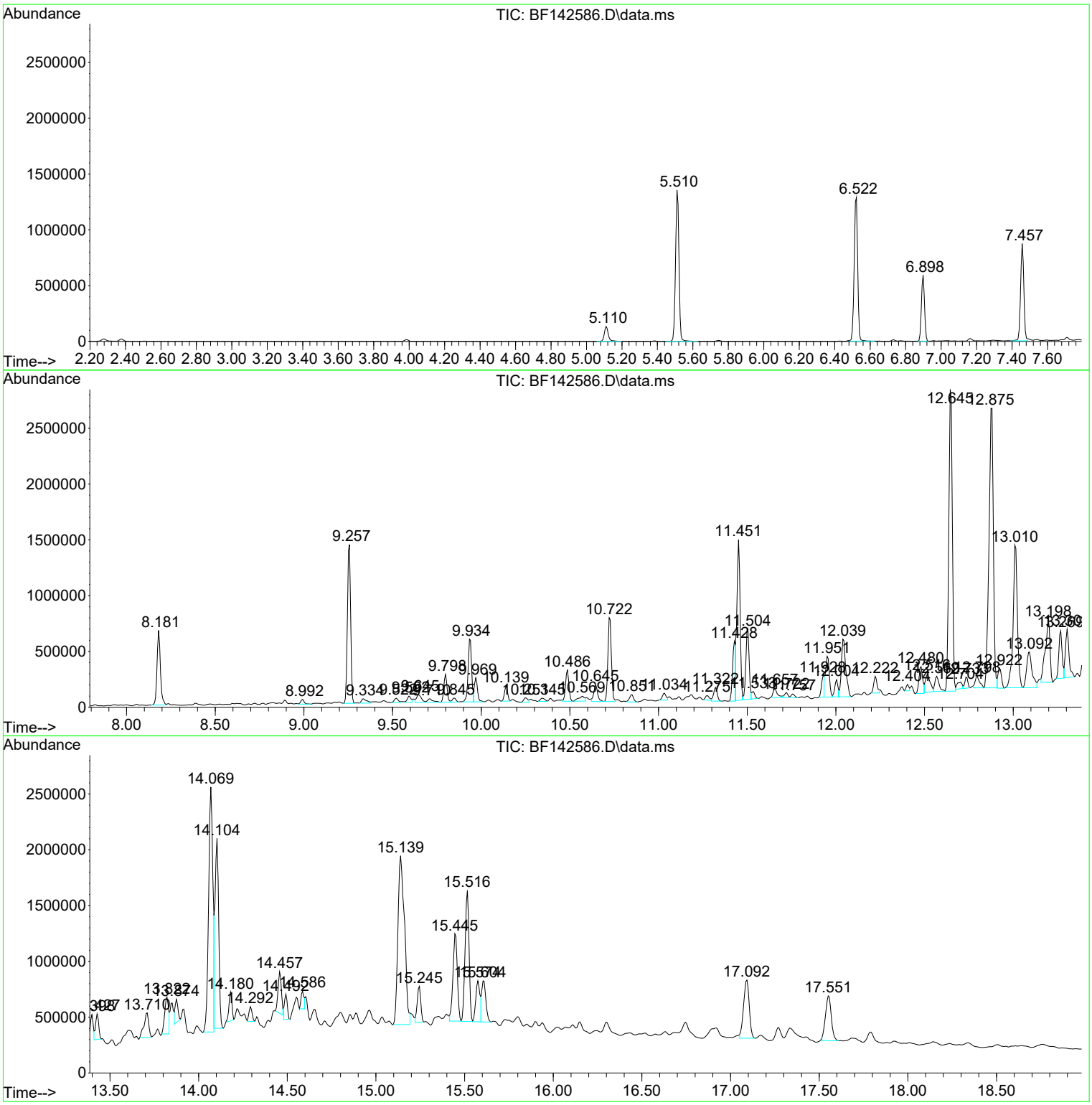
Sample Results: **BF142586.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.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\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

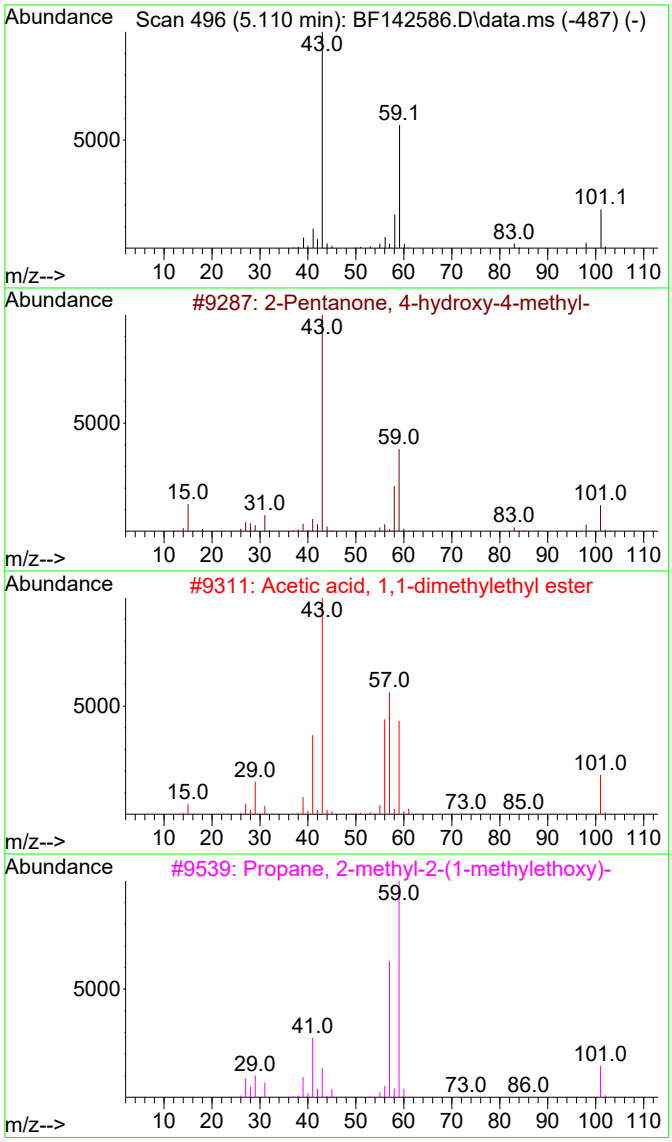
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

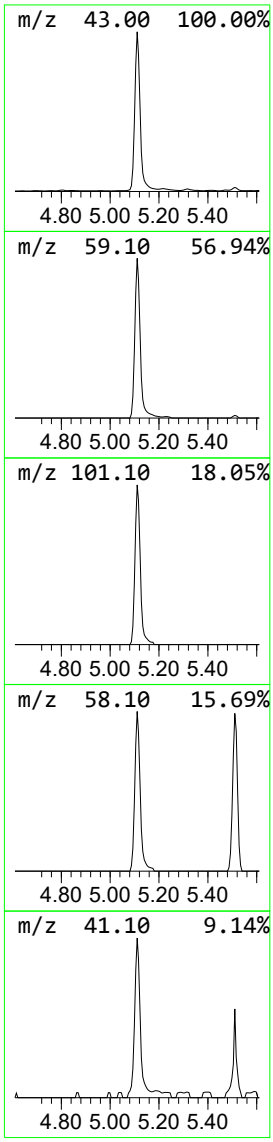
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.110	5.87 ng	210435	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	45
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
3	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	33
4	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
5	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

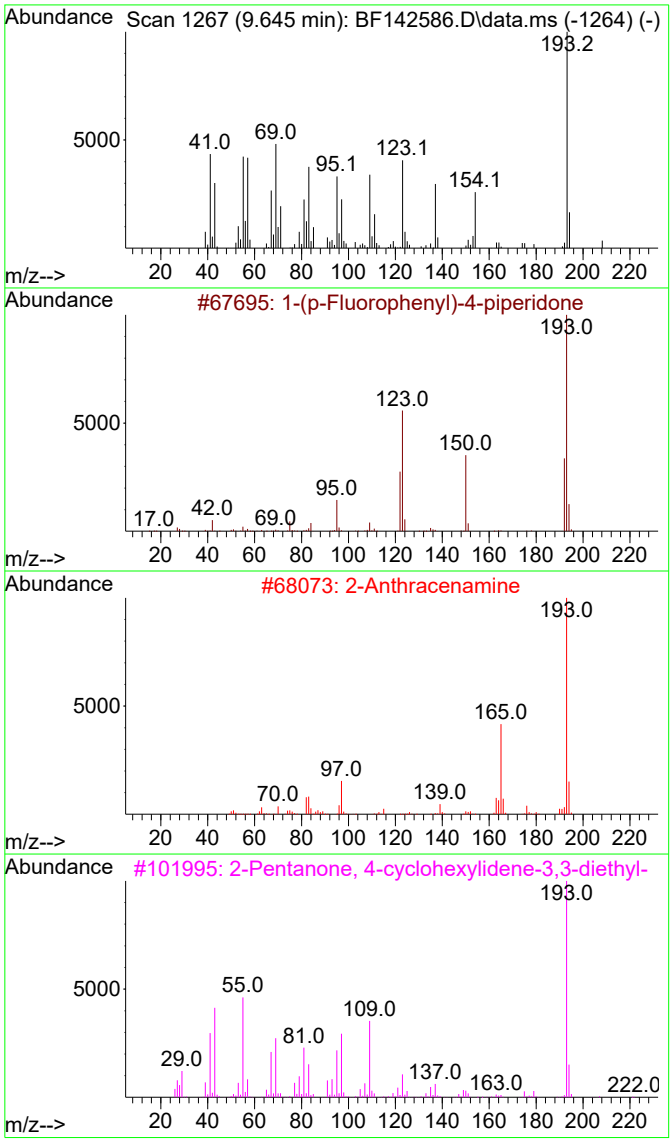
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

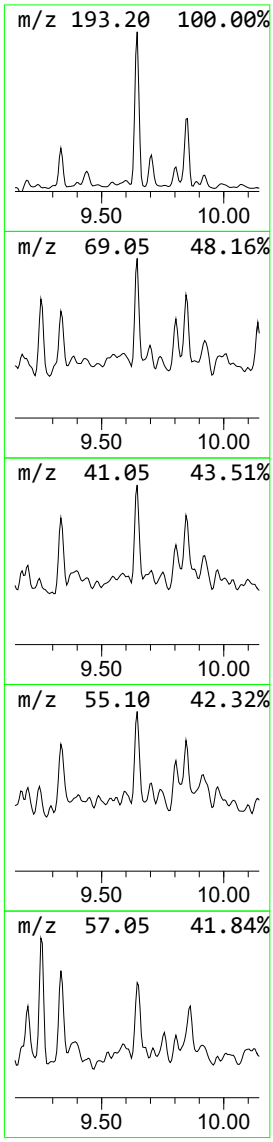
****

Peak Number 2 unknown9.645 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.645	3.21 ng	127302	Acenaphthene-d10	9.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-(p-Fluorophenyl)-4-piperidone	193	C11H12FNO	1000238-56-7	46
2	2-Anthracenamine	193	C14H11N	000613-13-8	35
3	2-Pentanone, 4-cyclohexylidene-3...	222	C15H26O	313253-65-5	35
4	Butan-2-one, 1-[3-(3,3-dimethyl-...	278	C16H26N2O2	1000303-34-2	35
5	Pyrazole, 5-methyl-3-(5-nitro-2-...	193	C8H7N3O3	016239-90-0	27





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

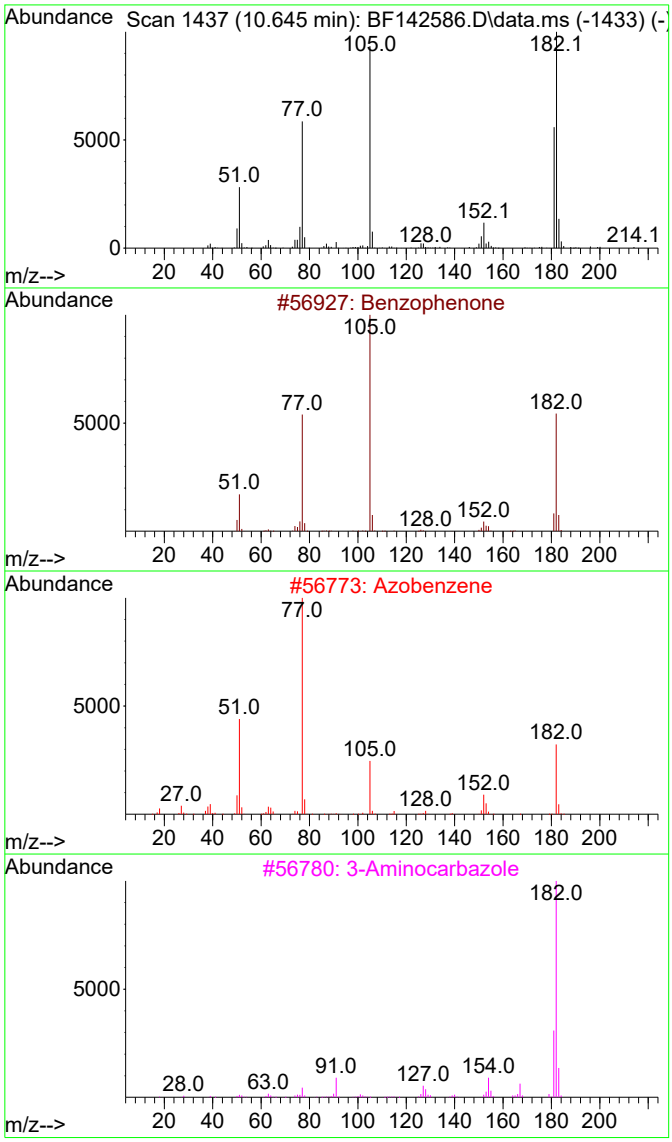
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

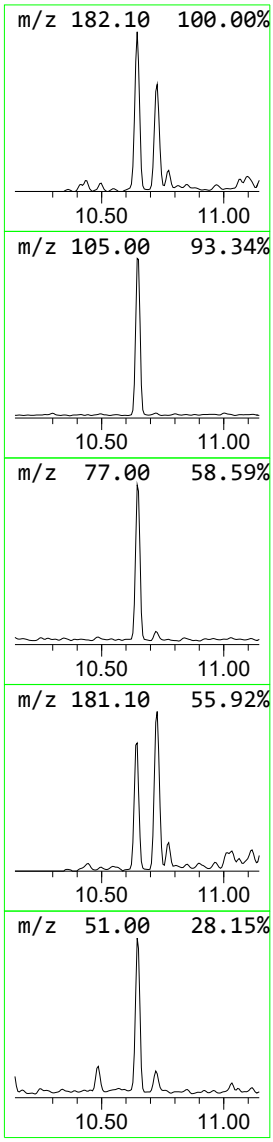
****

Peak Number 3 Benzophenone Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	5.55 ng	219972	Acenaphthene-d10	9.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	87
2	Azobenzene	182	C12H10N2	000103-33-3	53
3	3-Aminocarbazole	182	C12H10N2	006377-12-4	38
4	Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	38
5	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	38





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

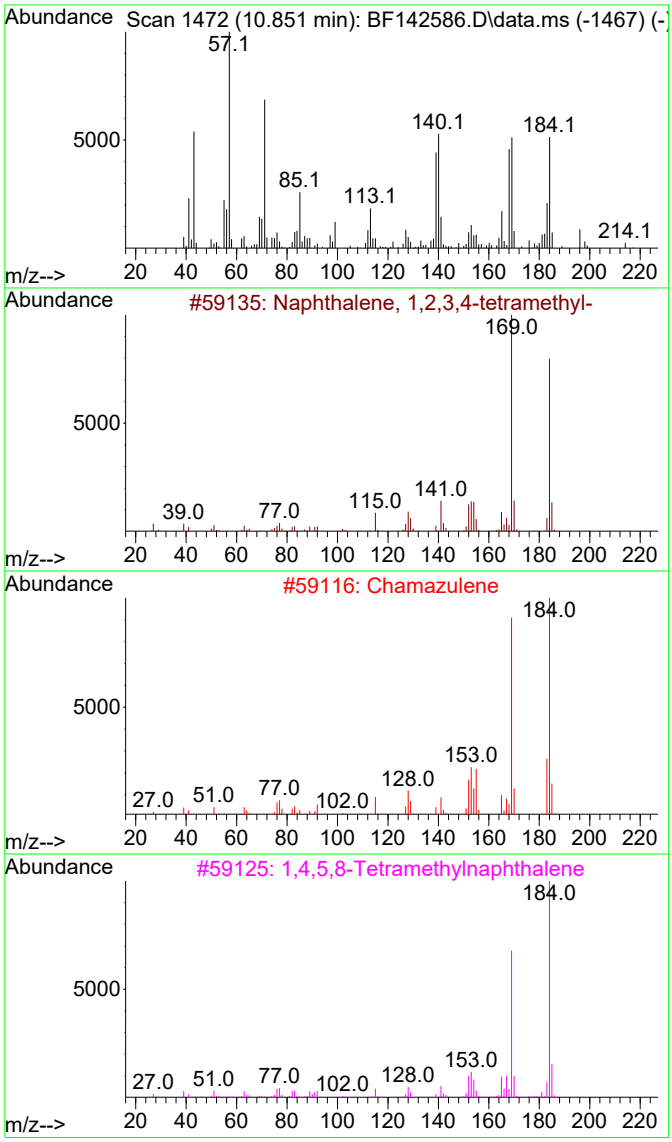
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

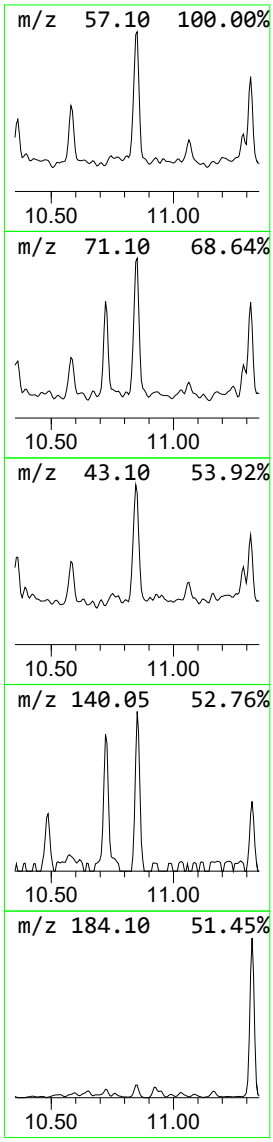
****

Peak Number 4 unknown10.851 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.851	3.14 ng	101801	Phenanthrene-d10	11.428

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetramethyl-	184	C14H16	003031-15-0	35
2	Chamazulene	184	C14H16	000529-05-5	35
3	1,4,5,8-Tetramethylnaphthalene	184	C14H16	002717-39-7	35
4	Benzene, (4,5,5-trimethyl-1,3-cy...	184	C14H16	033930-85-7	35
5	2,4,6(1H,3H,5H)-Pyrimidinetrione...	184	C8H12N2O3	007391-61-9	30





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

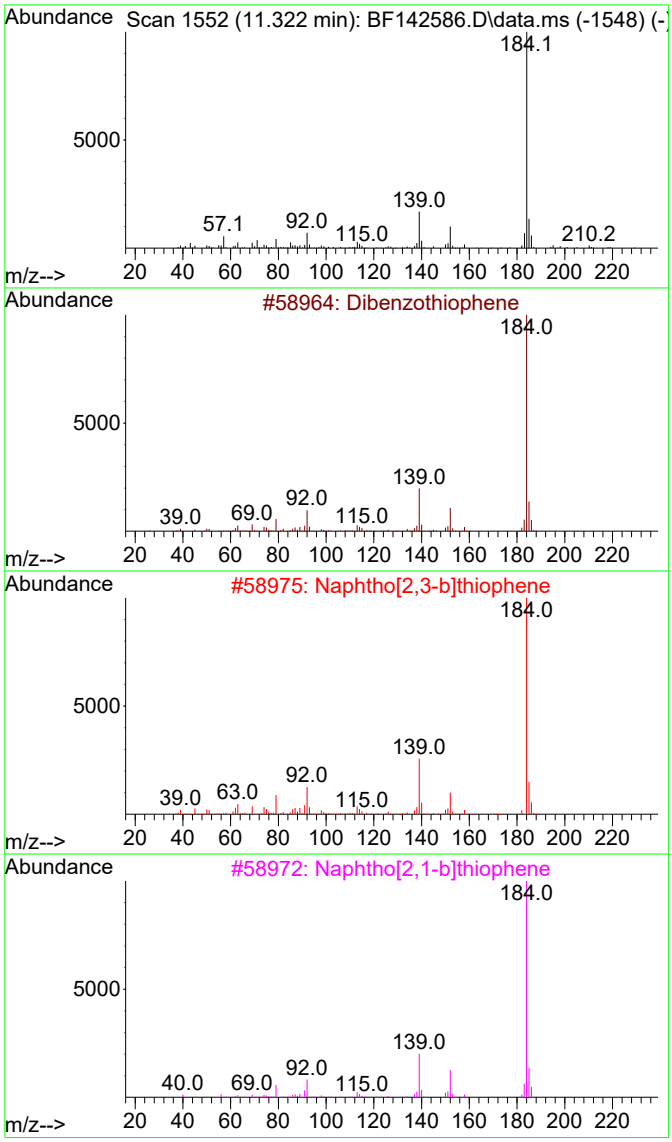
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

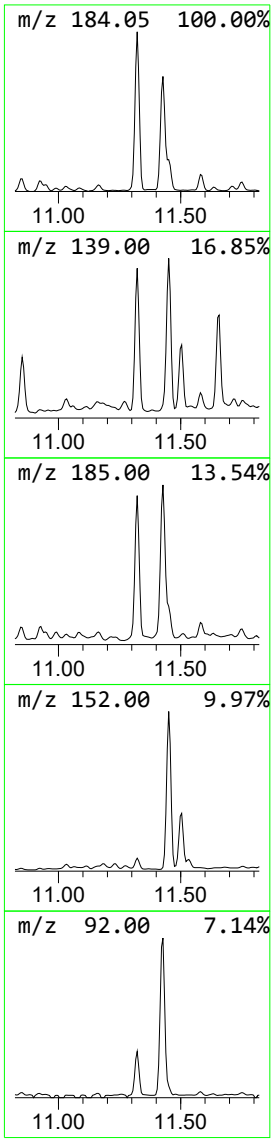
****

Peak Number 5 Dibenzothiophene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.322	5.35 ng	173381	Phenanthrene-d10	11.428

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	97
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

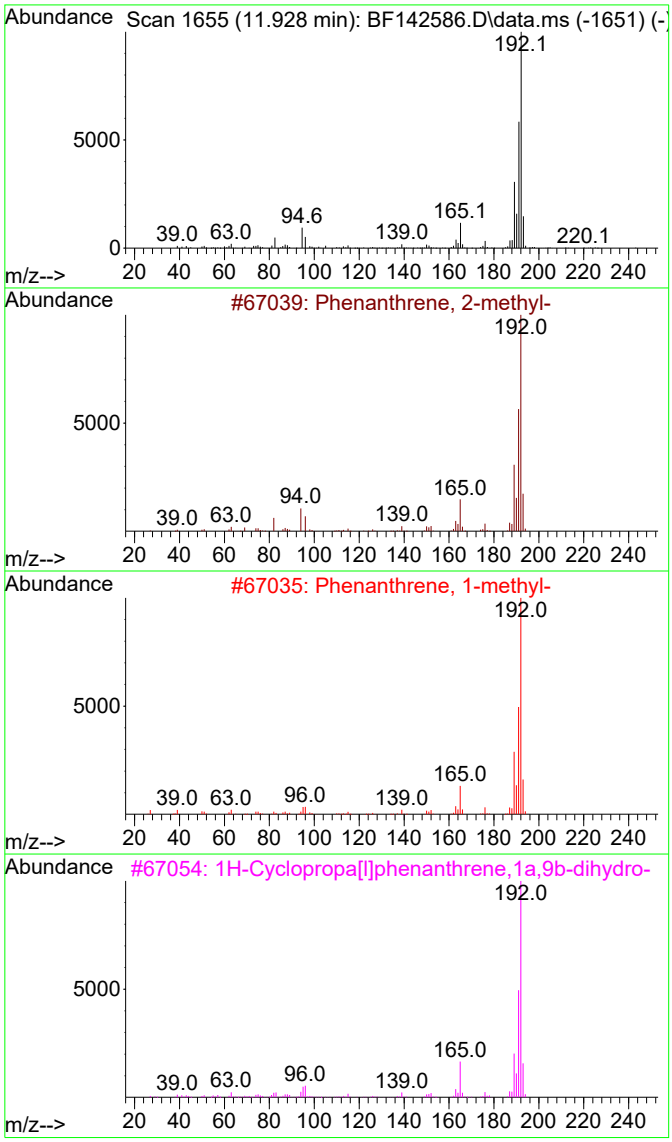
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

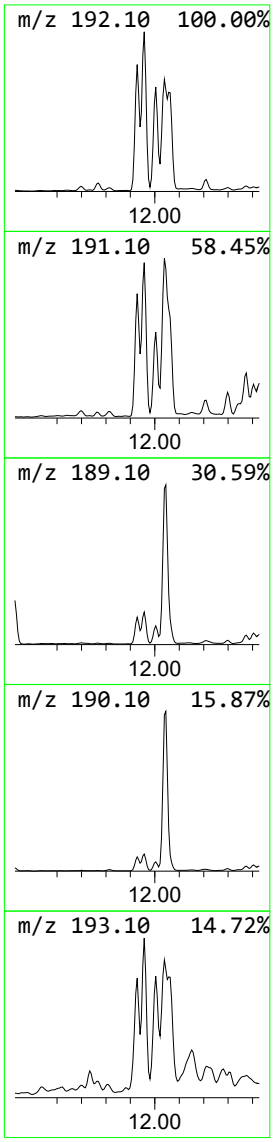
****

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.928	6.67 ng	215971	Phenanthrene-d10	11.428

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





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

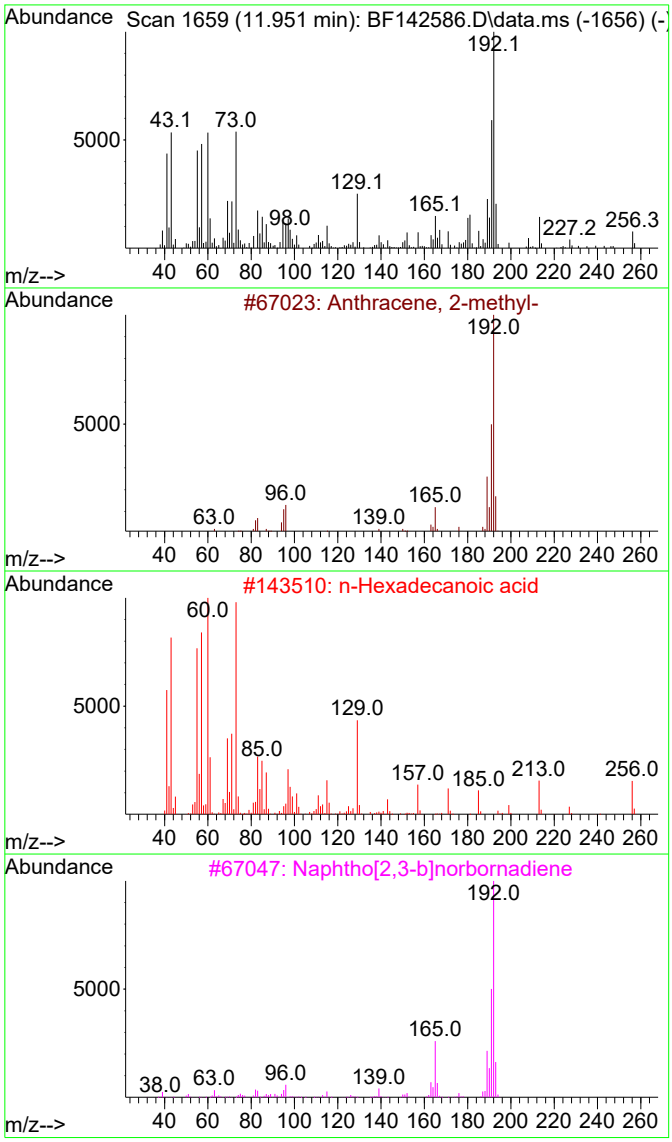
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

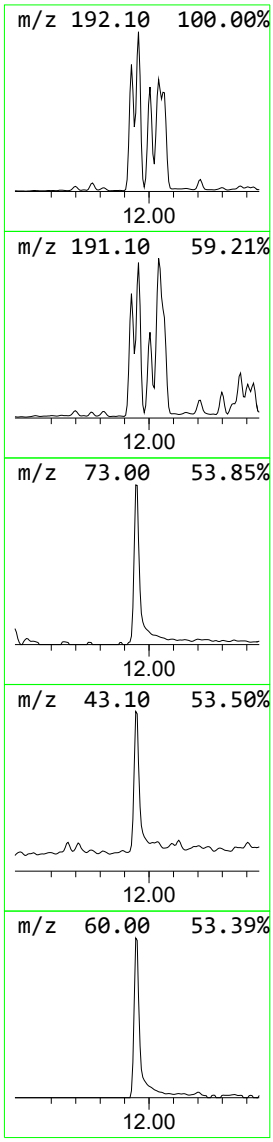
****

Peak Number 7 Anthracene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.951	16.68 ng	540511	Phenanthrene-d10	11.428

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	91
3	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	90
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	87
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	70





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

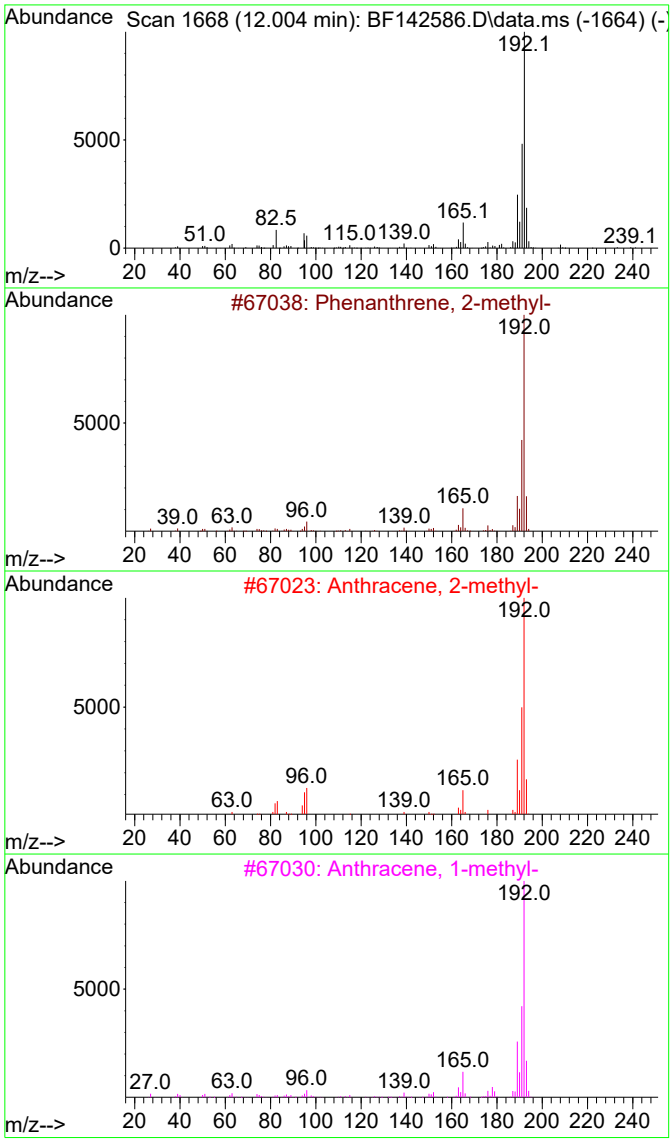
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

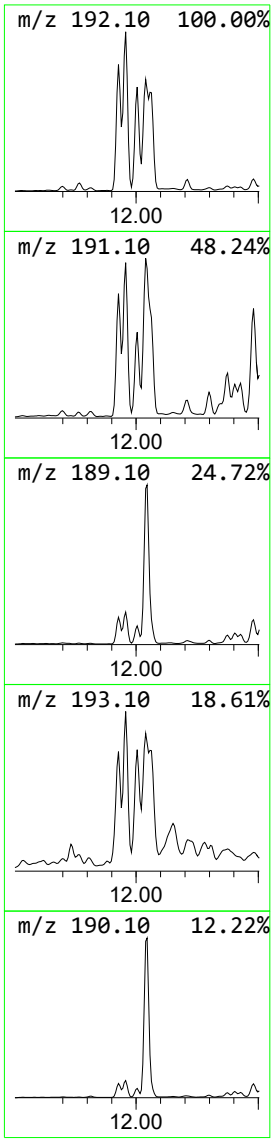
****

Peak Number 8 Anthracene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.004	5.96 ng	192956	Phenanthrene-d10	11.428

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

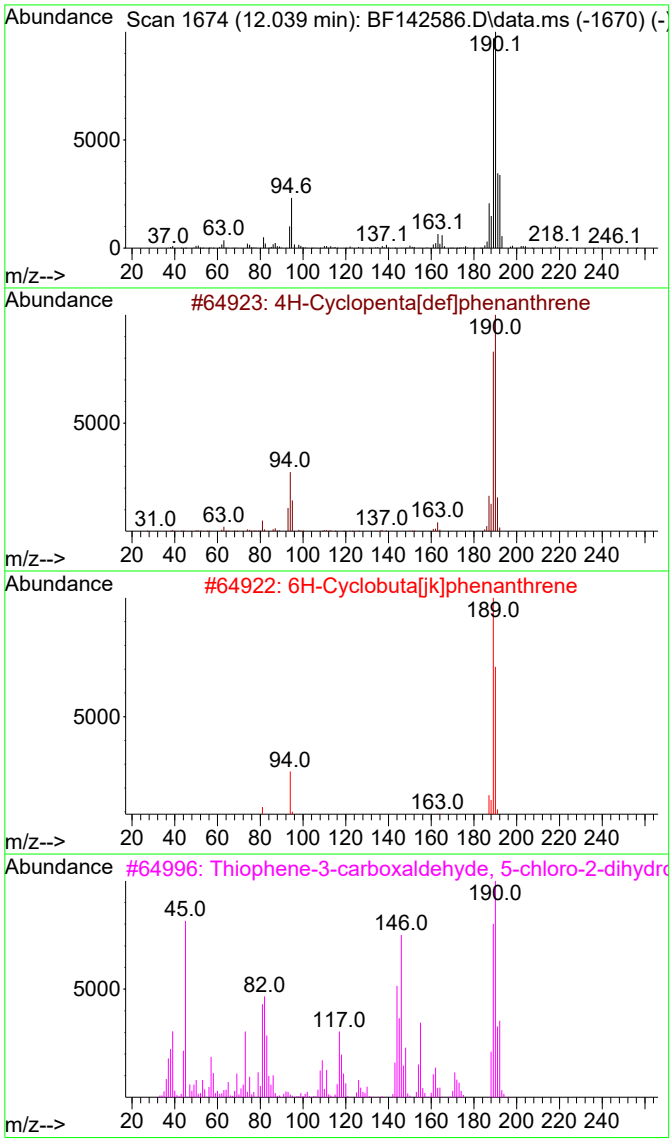
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

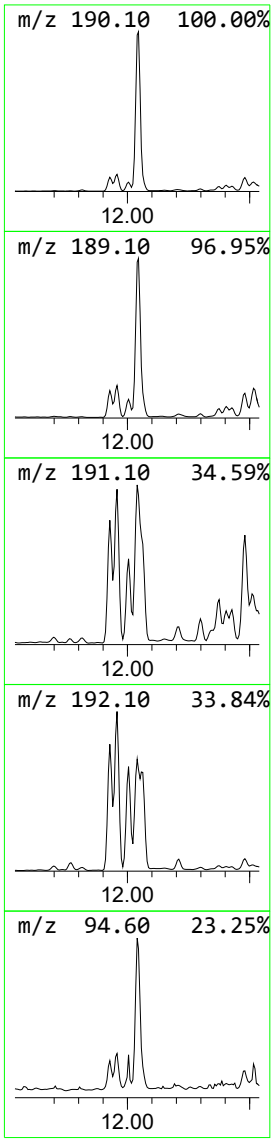
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.039	27.02 ng	875380	Phenanthrene-d10	11.428

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	72
3	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
4	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
5	Methyl diselenide	190	C2H6Se2	007101-31-7	46





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

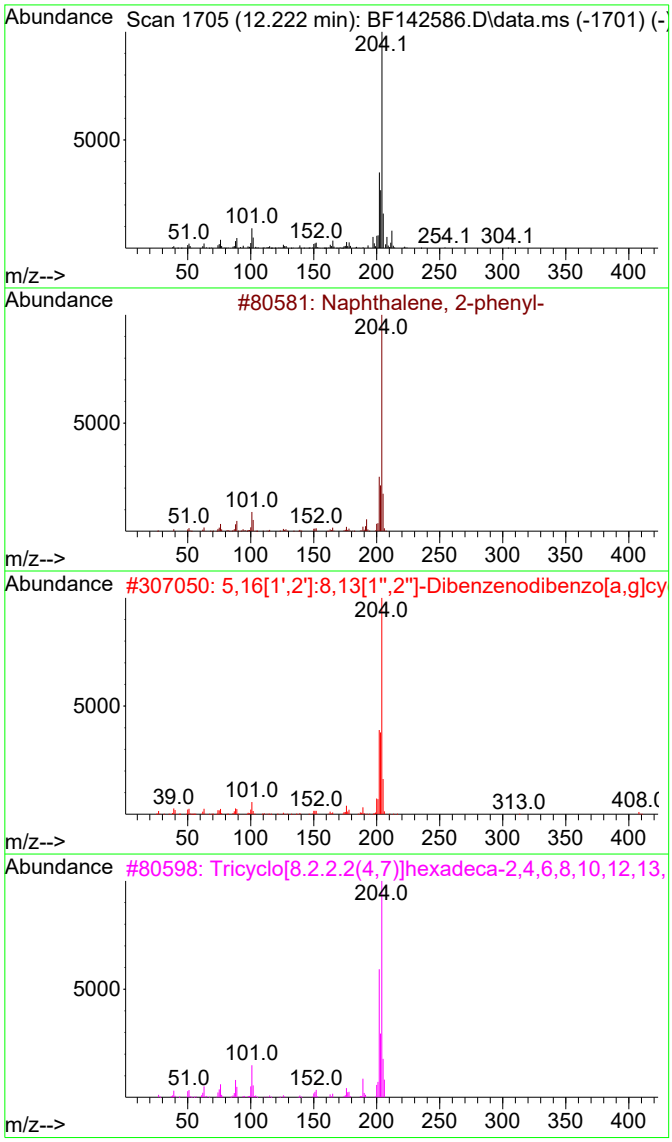
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

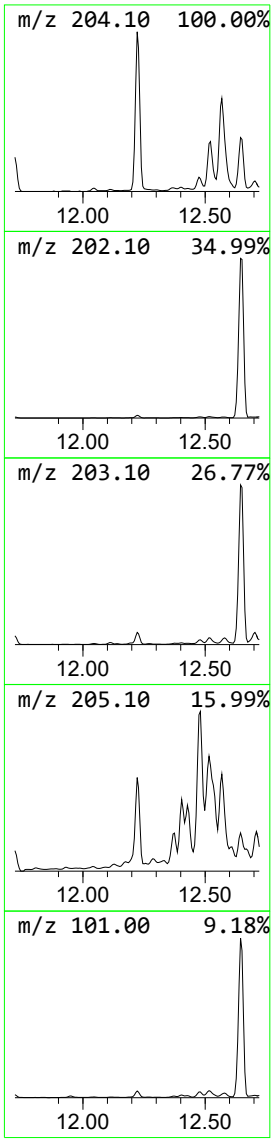
****

Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.222	6.24 ng	202180	Phenanthrene-d10	11.428

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	74
4	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	52
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	52





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

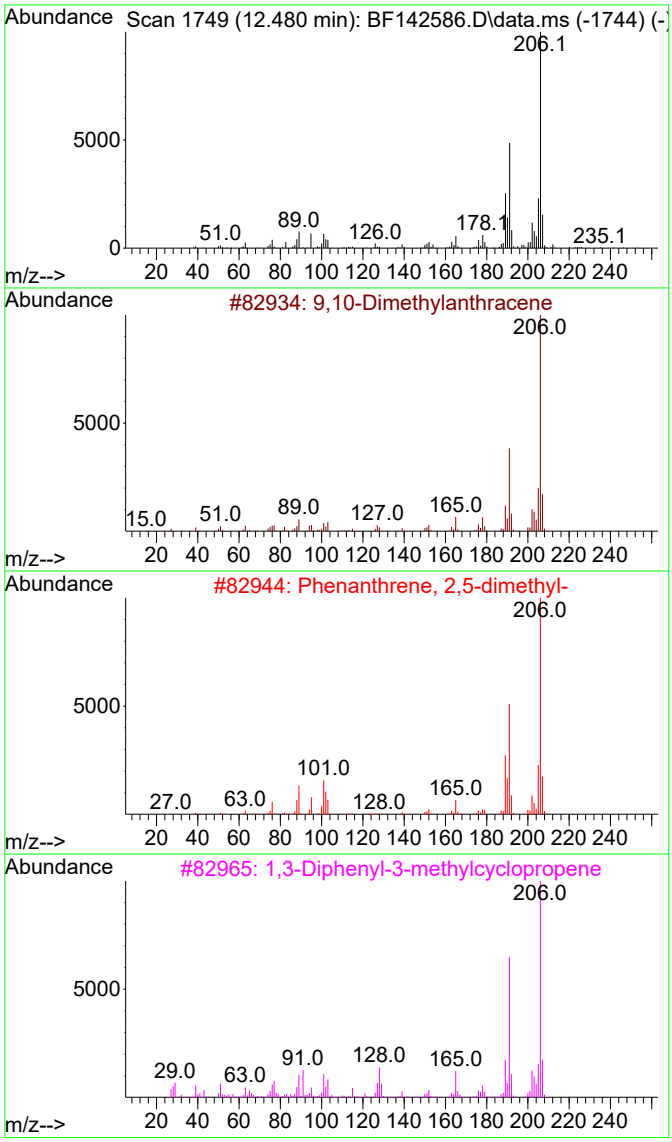
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

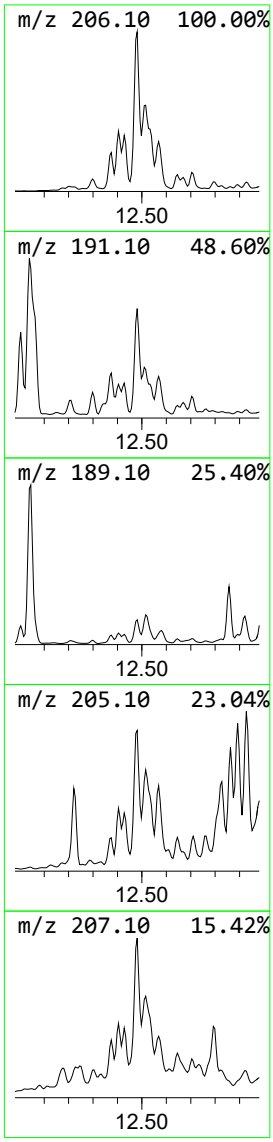
****

Peak Number 11 9,10-Dimethylanthracene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.480	11.26 ng	364695	Phenanthrene-d10	11.428

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	95
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
3	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	90
4	3,4-Dimethylphenanthrene	206	C16H14	1000452-24-5	87
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

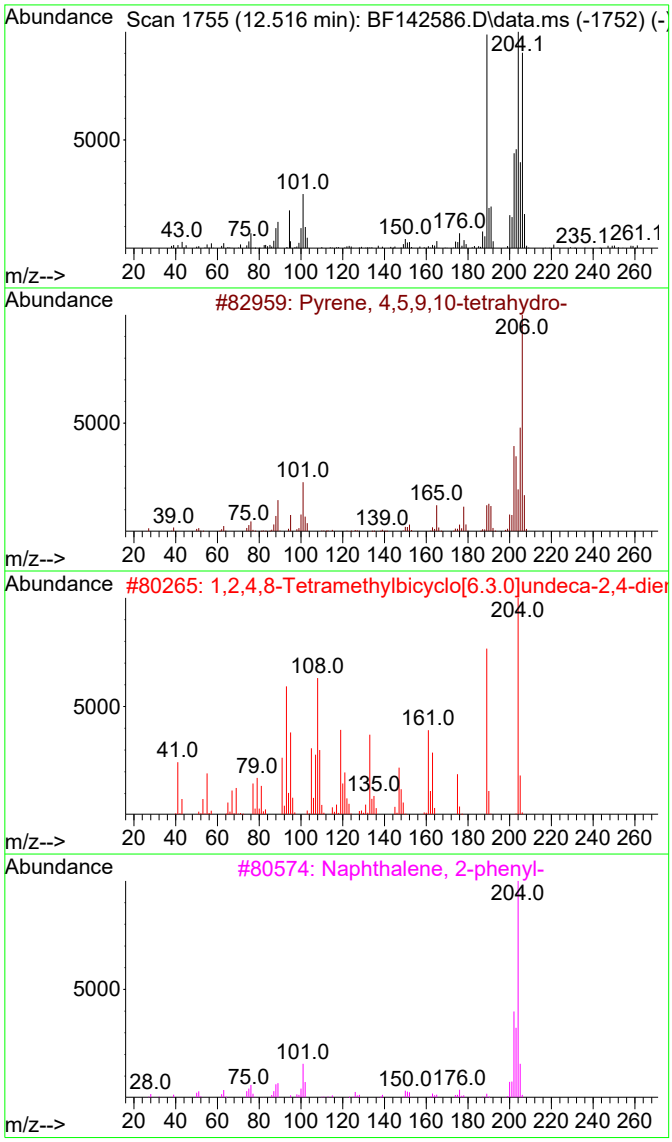
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

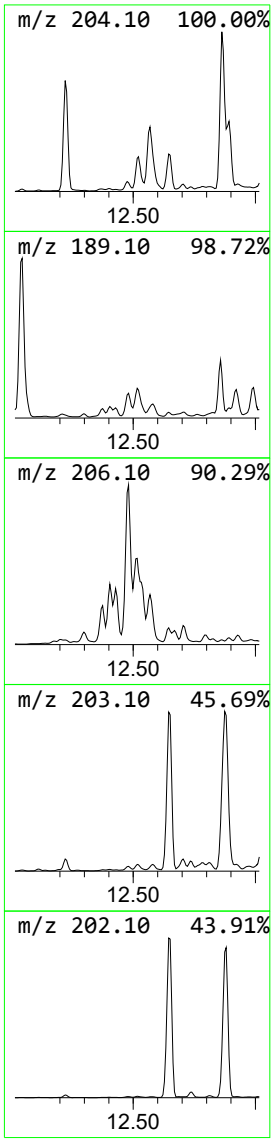
****

Peak Number 12 Pyrene, 4,5,9,10-tetrahydro- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.516	9.25 ng	299770	Phenanthrene-d10	11.428

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	55
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	38
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	38
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	35
5	Benzoic acid, p-[[(dimethylamino...	206	C11H14N2O2	029390-16-7	30





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

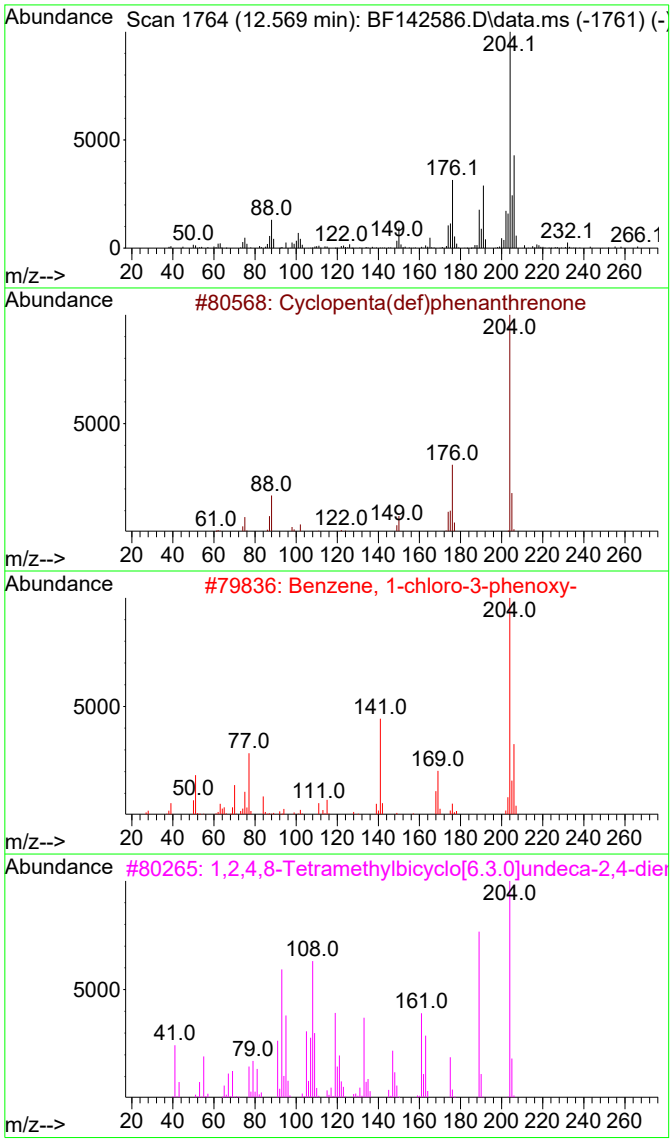
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

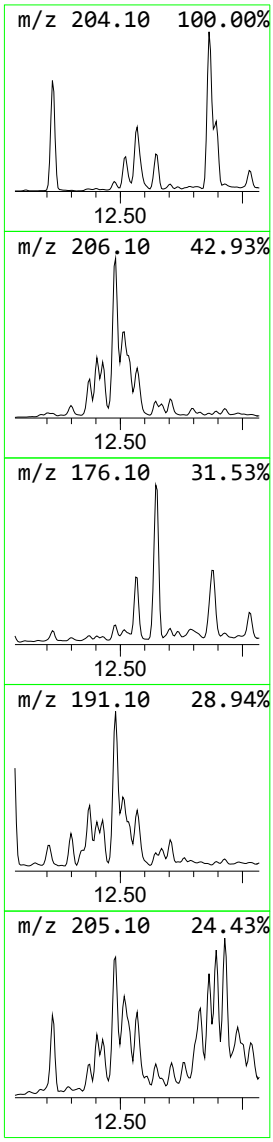
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.569	6.76 ng	218972	Phenanthrene-d10	11.428

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	90
2	Benzene, 1-chloro-3-phenoxy-	204	C12H9ClO	006452-49-9	50
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	50
4	5,6,7,8-Tetrahydrothieno[2,3-b]q...	204	C11H12N2S	122914-50-5	50
5	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

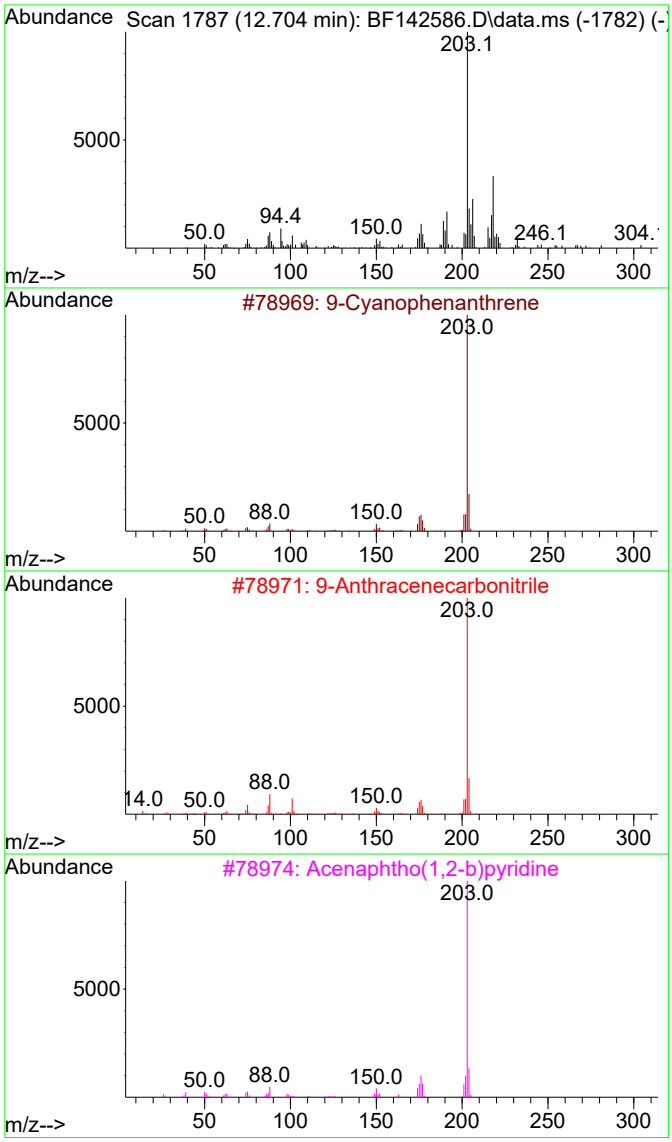
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

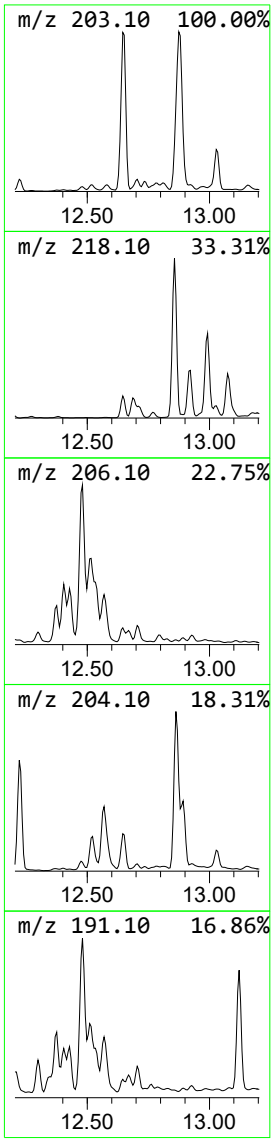
****

Peak Number 14 9-Cyanophenanthrene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.704	3.65 ng	118193	Phenanthrene-d10	11.428

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Cyanophenanthrene	203	C15H9N	002510-55-6	90
2	9-Anthracenecarbonitrile	203	C15H9N	001210-12-4	90
3	Acenaphtho(1,2-b)pyridine	203	C15H9N	000206-49-5	64
4	6-Quinoxalinol, TMS derivative	218	C11H14N2OSi	1000474-34-3	52
5	3H-1,2,4-Triazole-3-thione, 2,4-...	218	C10H10N4S	091813-63-7	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

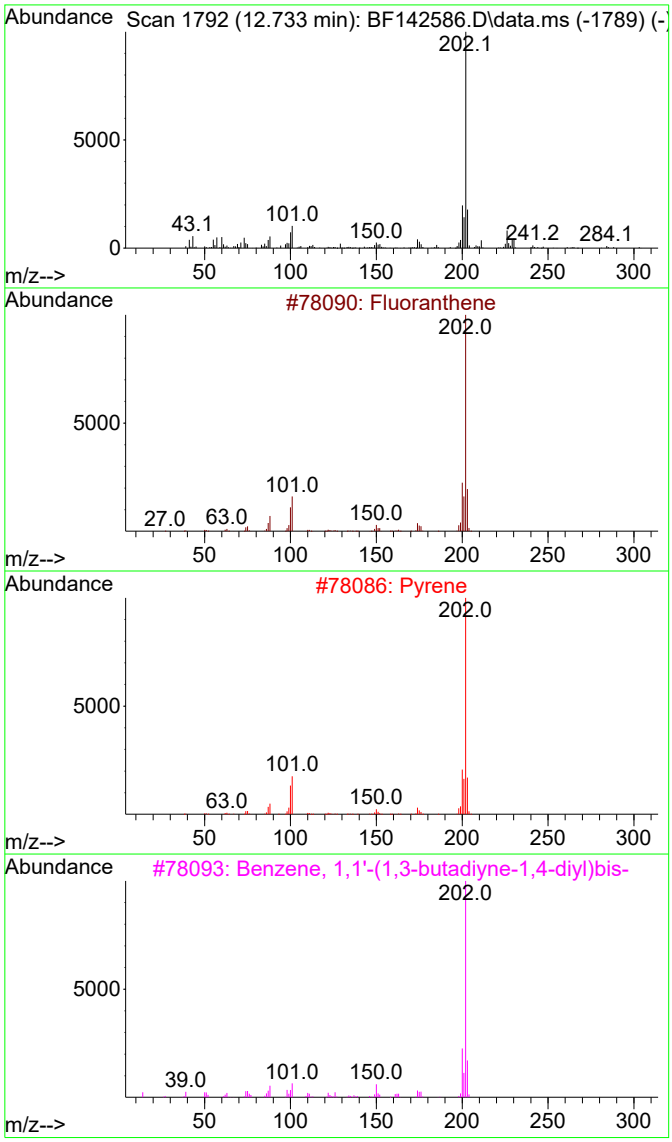
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

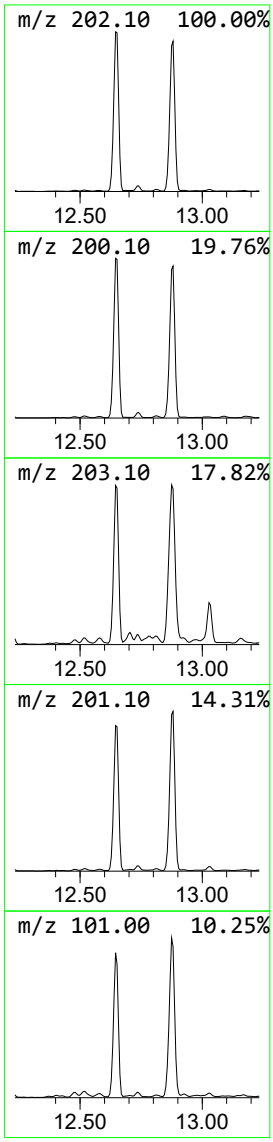
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 15 Benzene, 1,1'-(1,3-butadiyn... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.733	3.66 ng	118568	Phenanthrene-d10	11.428

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene	202	C16H10	000206-44-0	96
2	Pyrene	202	C16H10	000129-00-0	83
3	Benzene, 1,1'-(1,3-butadiyne-1,4...	202	C16H10	000886-66-8	70
4	4,4'-Bis(tetrahydrothiopyran)	202	C10H18S2	116196-83-9	60
5	3(2H)-Pyridazinone, 6-(4-methoxy...	202	C11H10N2O2	002166-33-8	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

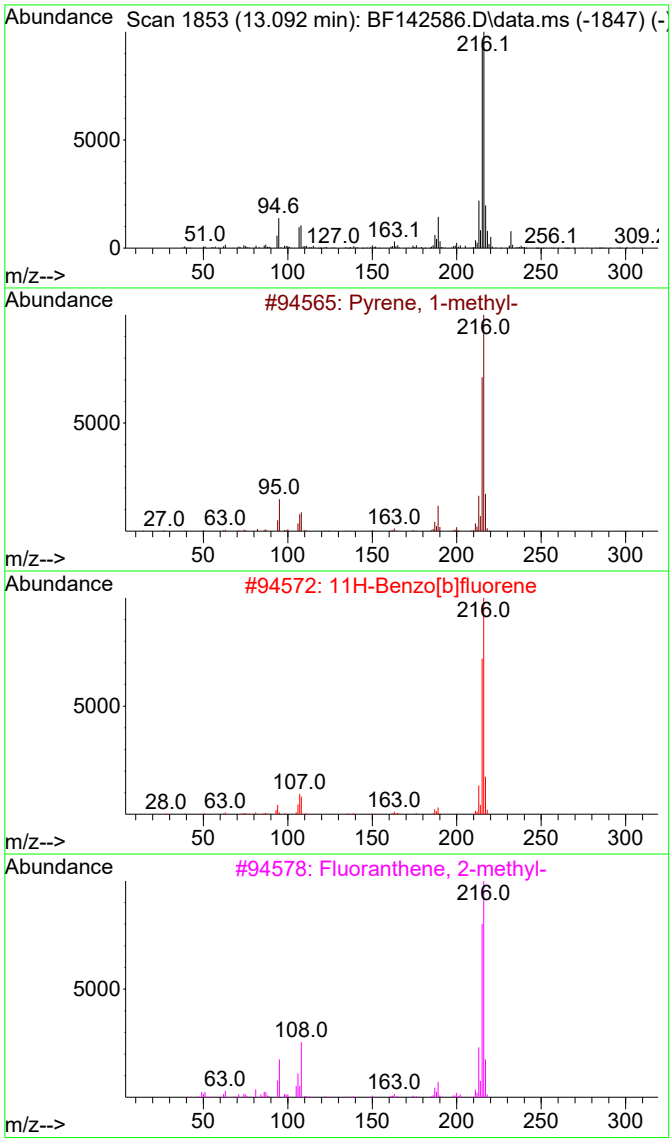
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

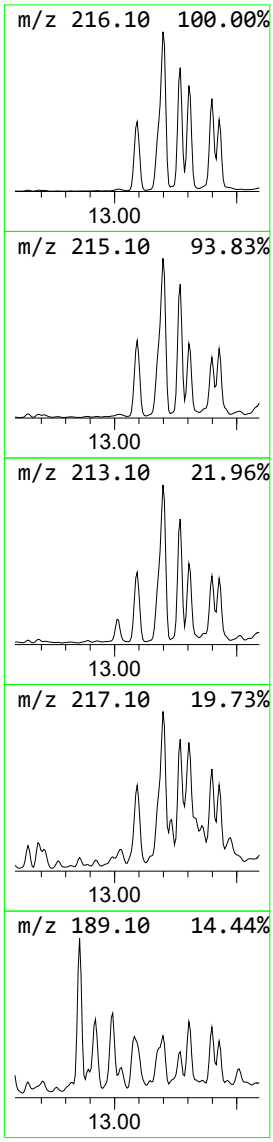
****

Peak Number 16 Pyrene, 1-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.092	3.67 ng	693878	Chrysene-d12	14.075

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	89
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

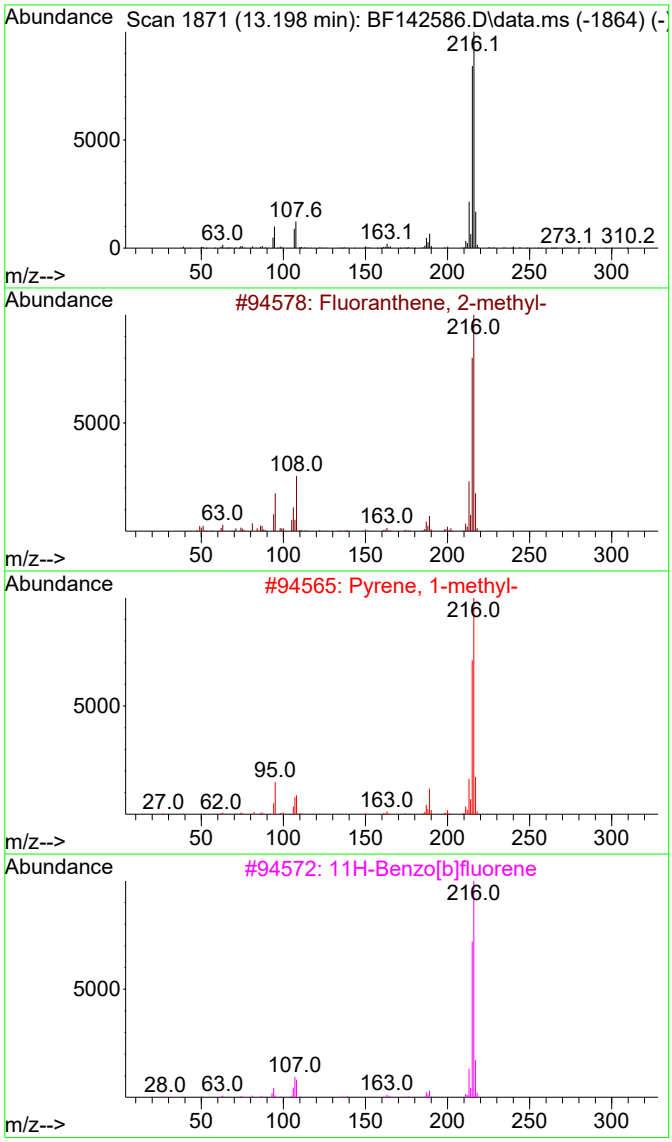
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

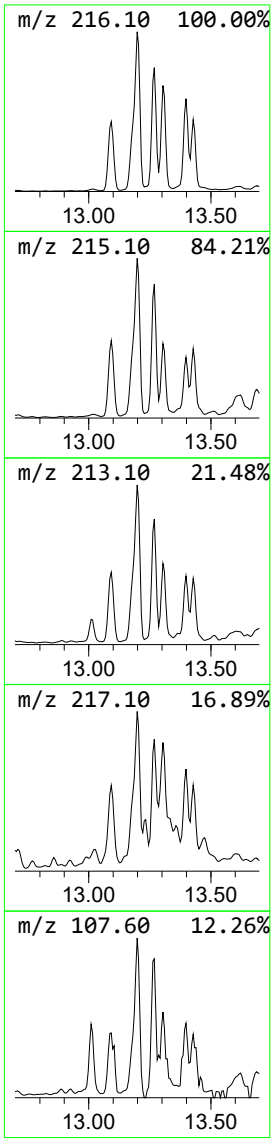
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 17 Fluoranthene, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.198	5.46 ng	1032510	Chrysene-d12	14.075

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

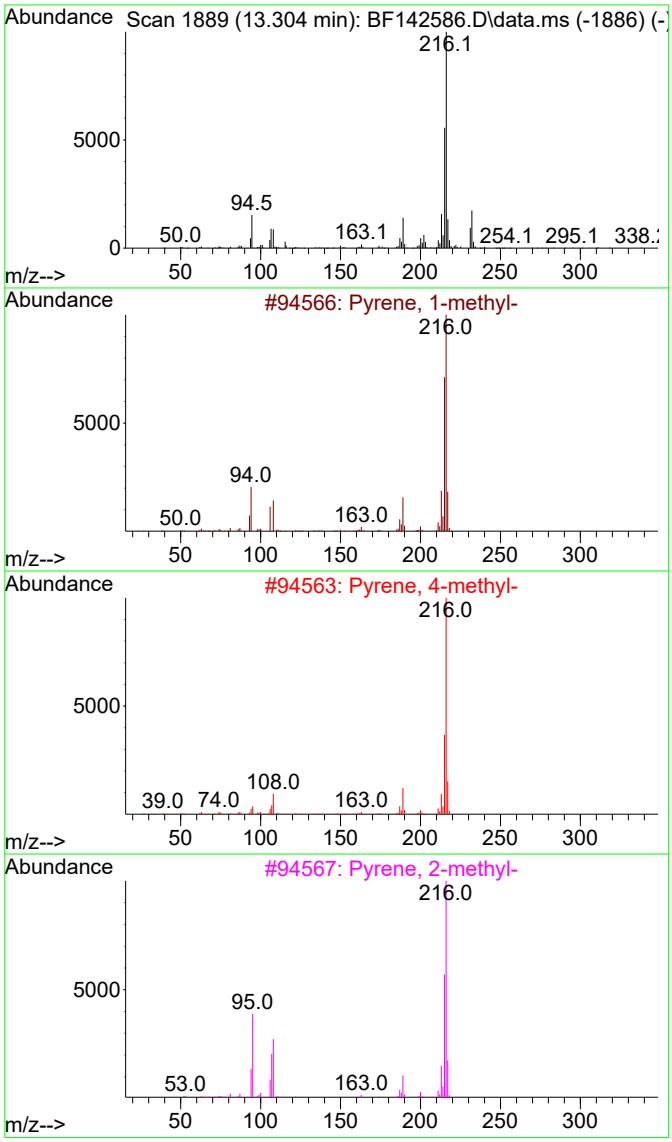
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

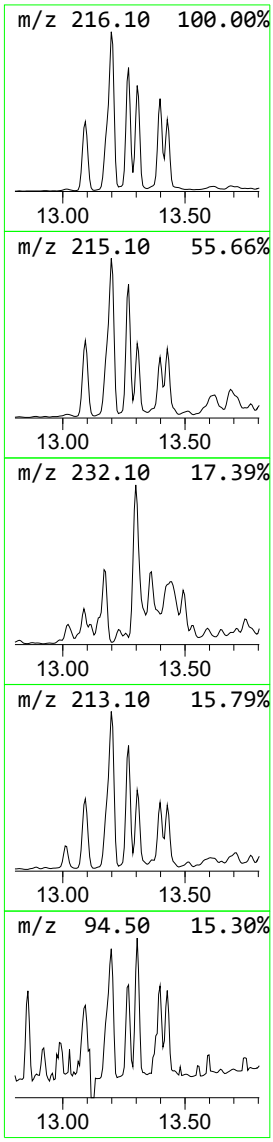
****

Peak Number 18 Pyrene, 4-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.304	3.15 ng	595676	Chrysene-d12	14.075

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Pyrene, 4-methyl-	216	C17H12	003353-12-6	93
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	92
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

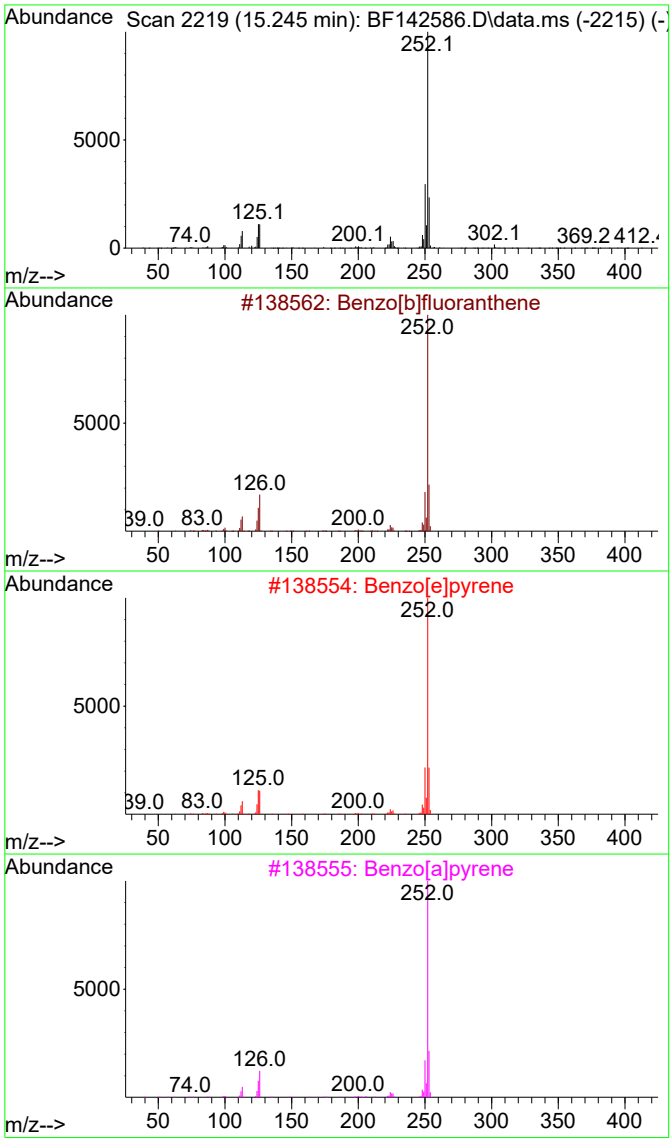
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

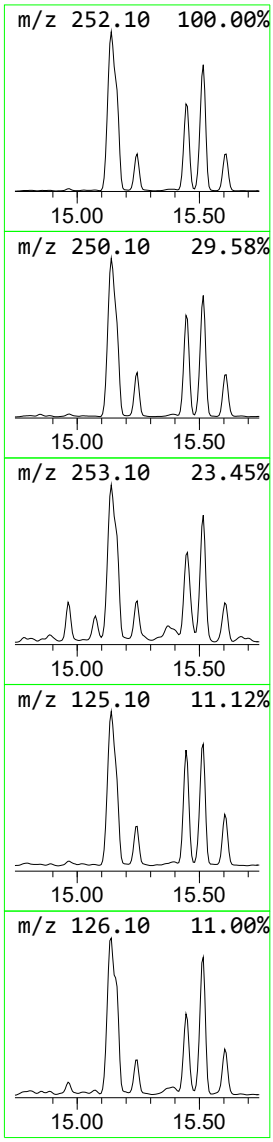
****

Peak Number 19 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.245	14.29 ng	444418	Perylene-d12	15.574

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]fluoranthene	252	C20H12	000205-99-2	97
2	Benzo[e]pyrene	252	C20H12	000192-97-2	93
3	Benzo[a]pyrene	252	C20H12	000050-32-8	90
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	81





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

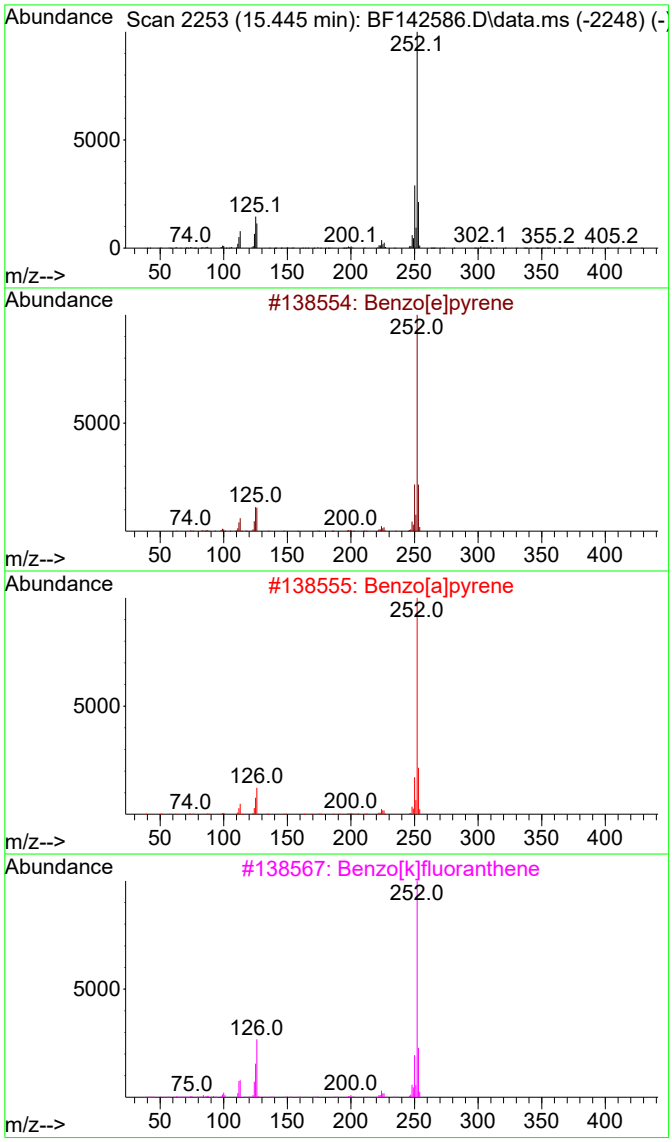
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

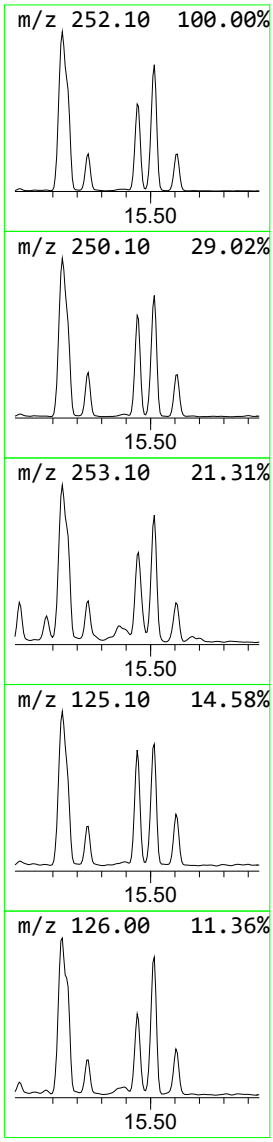
****

Peak Number 20 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.445	42.42 ng	1319040	Perylene-d12	15.574

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2	Benzo[a]pyrene	252	C20H12	000050-32-8	93
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
4	Perylene	252	C20H12	000198-55-0	90
5	Benzo[b]fluoranthene	252	C20H12	000205-99-2	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142586.D
Acq On : 30 May 2025 23:10
Operator : RC/JU
Sample : Q2150-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-44

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.110	5.9	ng	210435	1	6.898	716473	20.0
unknown9.645	9.645	3.2	ng	127302	3	9.939	793014	20.0
Benzophenone	10.645	5.5	ng	219972	3	9.939	793014	20.0
unknown10.851	10.851	3.1	ng	101801	4	11.428	647926	20.0
Dibenzothiophene	11.322	5.3	ng	173381	4	11.428	647926	20.0
Phenanthrene, 2...	11.928	6.7	ng	215971	4	11.428	647926	20.0
Anthracene, 2-m...	11.951	16.7	ng	540511	4	11.428	647926	20.0
Anthracene, 1-m...	12.004	6.0	ng	192956	4	11.428	647926	20.0
4H-Cyclopenta[d...	12.039	27.0	ng	875380	4	11.428	647926	20.0
Naphthalene, 2-...	12.222	6.2	ng	202180	4	11.428	647926	20.0
9,10-Dimethylan...	12.480	11.3	ng	364695	4	11.428	647926	20.0
Pyrene, 4,5,9,1...	12.516	9.3	ng	299770	4	11.428	647926	20.0
Cyclopenta(def)...	12.569	6.8	ng	218972	4	11.428	647926	20.0
9-Cyanophenanth...	12.704	3.6	ng	118193	4	11.428	647926	20.0
Benzene, 1,1'-(...	12.733	3.7	ng	118568	4	11.428	647926	20.0
Pyrene, 1-methyl-	13.092	3.7	ng	693878	5	14.075	3780790	20.0
Fluoranthene, 2...	13.198	5.5	ng	1032510	5	14.075	3780790	20.0
Pyrene, 4-methyl-	13.304	3.1	ng	595676	5	14.075	3780790	20.0
Benzo[e]pyrene	15.245	14.3	ng	444418	6	15.574	621877	20.0
Perylene	15.445	42.4	ng	1319040	6	15.574	621877	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060225\
Data File : BF142598.D
Acq On : 02 Jun 2025 15:34
Operator : RC/JU
Sample : Q2150-01DL 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 02 16:03:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
TP-44DL

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	127289	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	470532	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	232054	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	325882	20.000	ng	0.00
76) Chrysene-d12	14.068	240	250994	20.000	ng	# 0.00
86) Perylene-d12	15.568	264	278926	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	117955	15.612	ng	-0.01
7) Phenol-d6	6.516	99	142903	15.713	ng	-0.02
23) Nitrobenzene-d5	7.451	82	83225	9.645	ng	-0.02
42) 2,4,6-Tribromophenol	10.727	330	32201	12.503	ng	-0.01
45) 2-Fluorobiphenyl	9.251	172	184171	10.650	ng	-0.02
79) Terphenyl-d14	13.010	244	124670	6.788	ng	0.00
Target Compounds						Qvalue
58) Fluorene	10.486	166	35042	2.298	ng	98
71) Phenanthrene	11.451	178	208888	11.994	ng	100
72) Anthracene	11.504	178	91928	5.172	ng	100
75) Fluoranthene	12.639	202	373090	22.927	ng	98
78) Pyrene	12.869	202	347198	14.829	ng	98
81) Benzo(a)anthracene	14.057	228	215675	12.868	ng	94
83) Chrysene	14.092	228	187480	12.449	ng	98
87) Indeno(1,2,3-cd)pyrene	17.074	276	104960	5.012	ng	97
88) Benzo(b)fluoranthene	15.127	252	305919m	18.531	ng	
89) Benzo(k)fluoranthene	15.145	252	85656m	5.540	ng	
90) Benzo(a)pyrene	15.504	252	206792	13.289	ng	97
92) Benzo(g,h,i)perylene	17.533	276	92128	5.423	ng	99

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

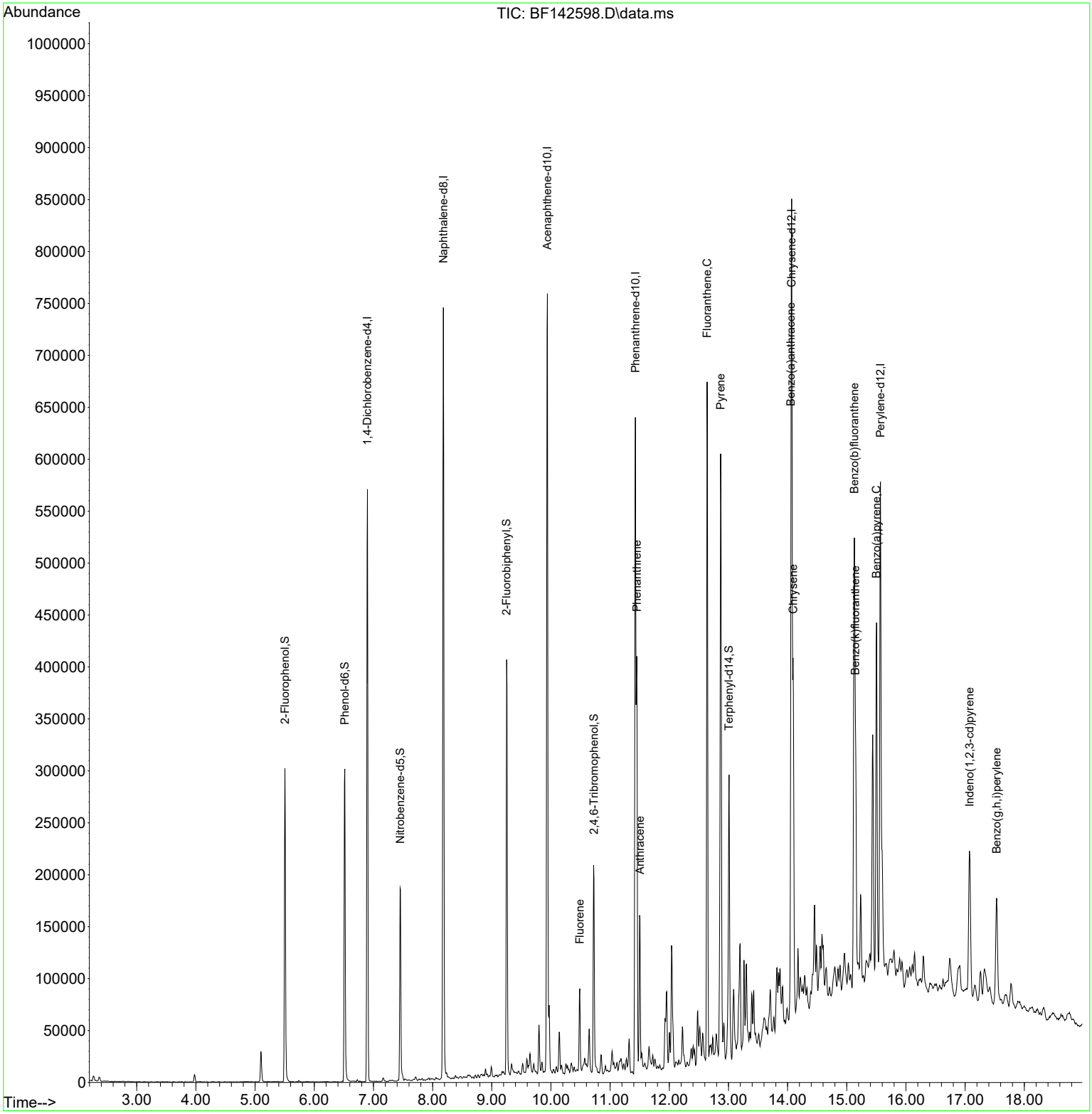
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060225\
Data File : BF142598.D
Acq On : 02 Jun 2025 15:34
Operator : RC/JU
Sample : Q2150-01DL 5X
Misc :
ALS Vial : 10 Sample Multiplier: 1

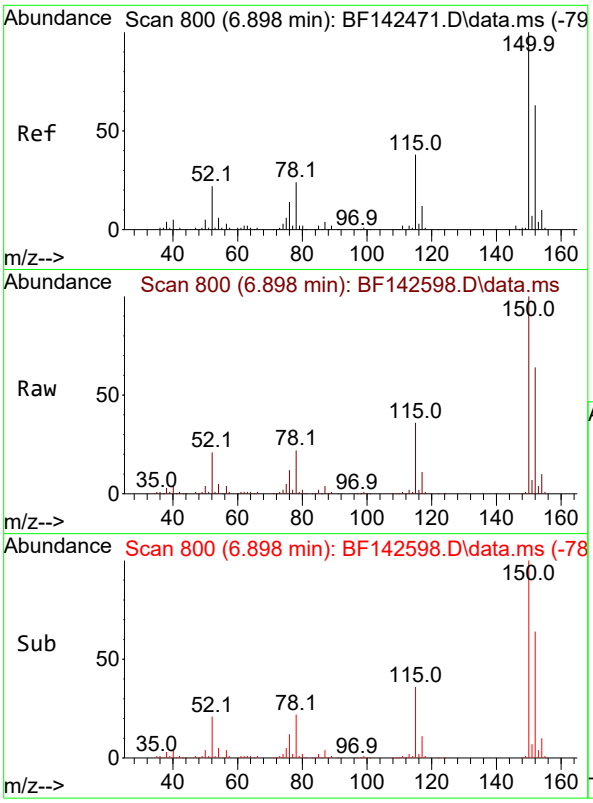
Quant Time: Jun 02 16:03:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
TP-44DL

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025

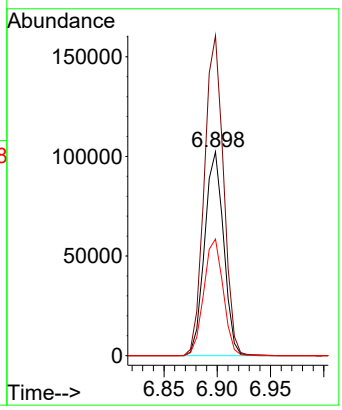




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion:152 Resp: 12728

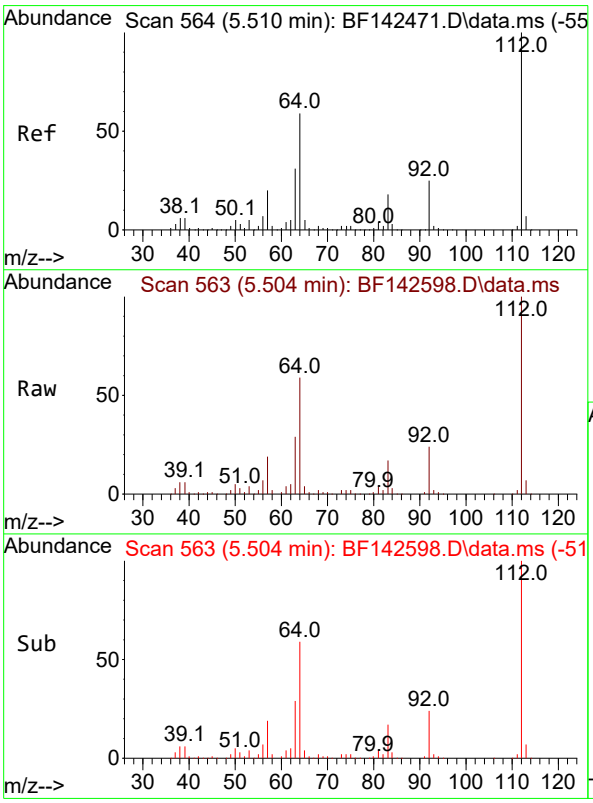
Ion	Ratio	Lower	Upper
152	100		
150	156.9	128.2	192.4
115	57.2	48.3	72.5



Instrument :
BNA_F
ClientSampleId :
TP-44DL

Manual Integrations
APPROVED

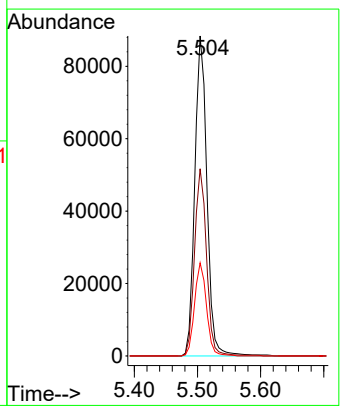
Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025

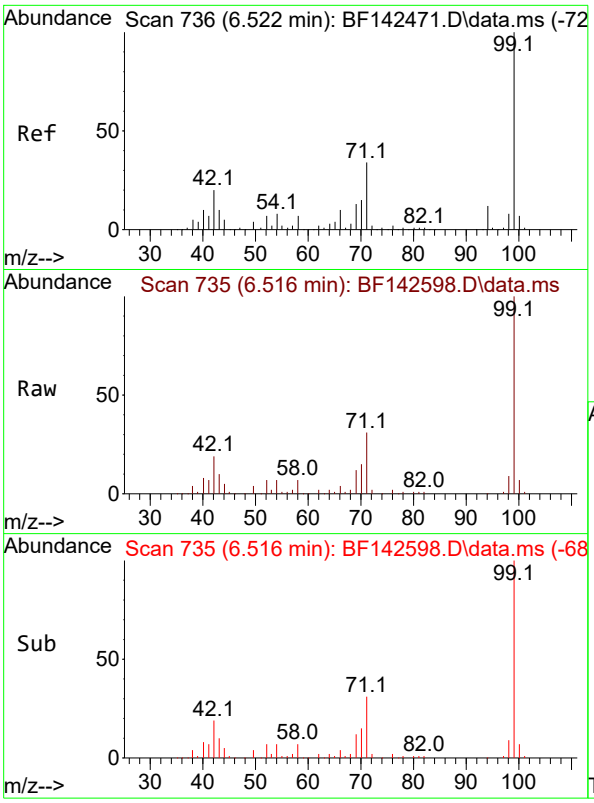


#5
2-Fluorophenol
Concen: 15.612 ng
RT: 5.504 min Scan# 563
Delta R.T. -0.012 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion:112 Resp: 117955

Ion	Ratio	Lower	Upper
112	100		
64	58.5	47.5	71.3
63	29.1	24.9	37.3

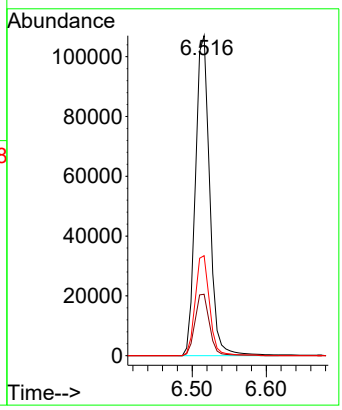




#7
Phenol-d6
Concen: 15.713 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion: 99 Resp: 14290

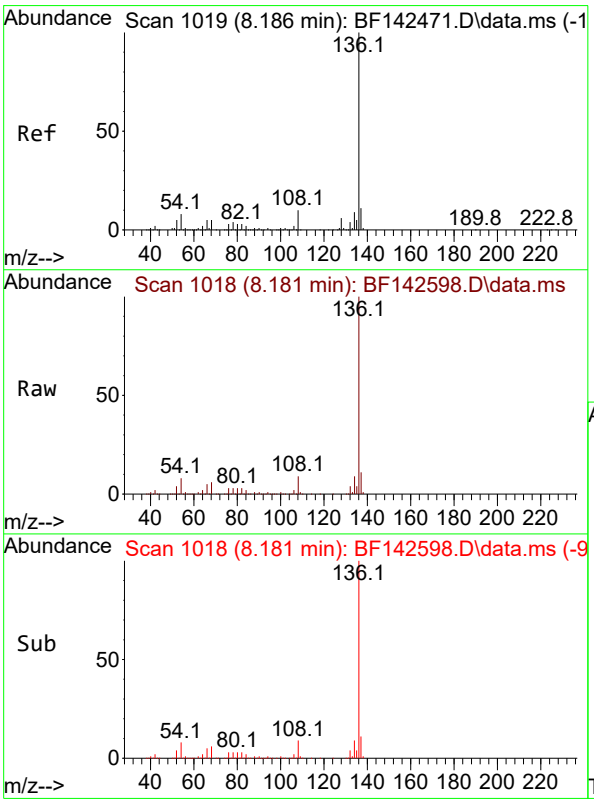
Ion	Ratio	Lower	Upper
99	100		
42	19.2	16.2	24.2
71	31.2	27.3	40.9



Instrument :
BNA_F
ClientSampleId :
TP-44DL

Manual Integrations
APPROVED

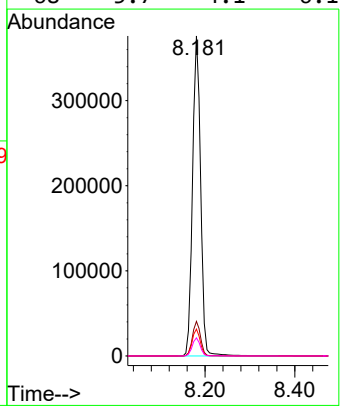
Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025

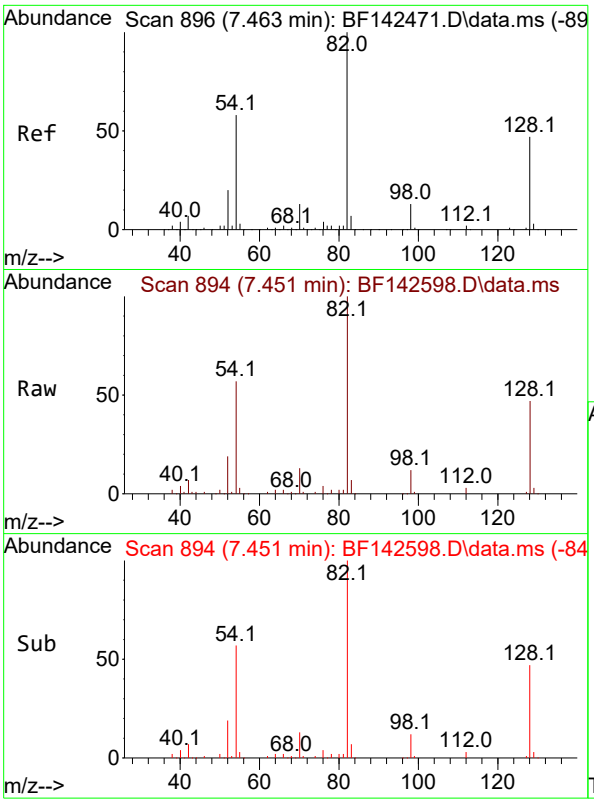


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion:136 Resp: 470532

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.4	6.6	10.0
68	5.7	4.1	6.1

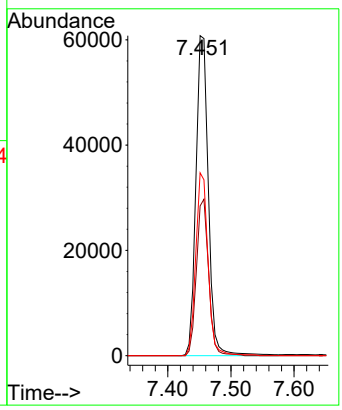




#23
Nitrobenzene-d5
Concen: 9.645 ng
RT: 7.451 min Scan# 8
Delta R.T. -0.023 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion: 82 Resp: 8322

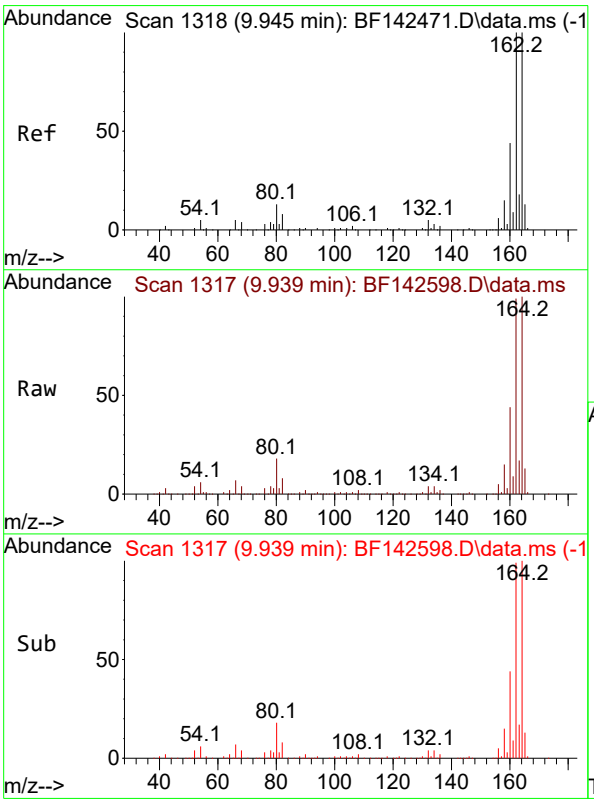
Ion	Ratio	Lower	Upper
82	100		
128	46.8	37.4	56.2
54	57.2	46.6	70.0



Instrument :
BNA_F
ClientSampleId :
TP-44DL

Manual Integrations
APPROVED

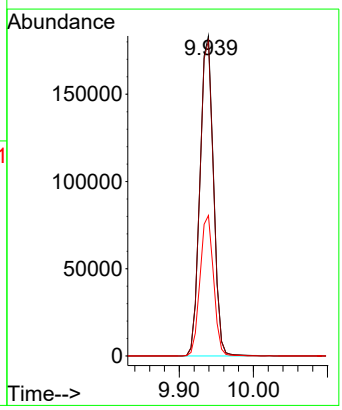
Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025

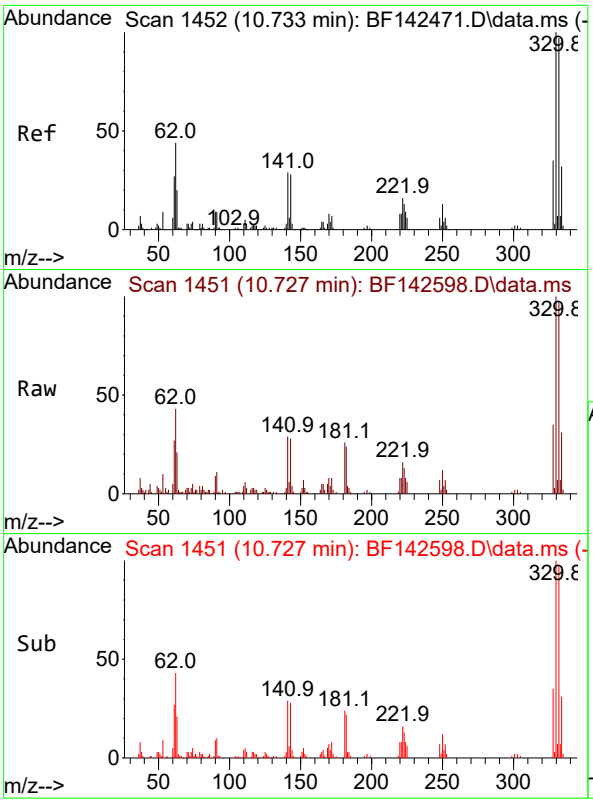


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion:164 Resp: 232054

Ion	Ratio	Lower	Upper
164	100		
162	98.5	80.2	120.4
160	43.9	35.6	53.4





#42
2,4,6-Tribromophenol
Concen: 12.503 ng
RT: 10.727 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

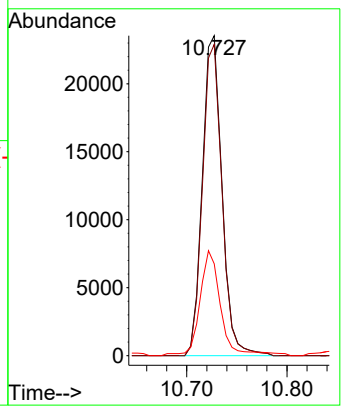
Tgt Ion:330 Resp: 3220

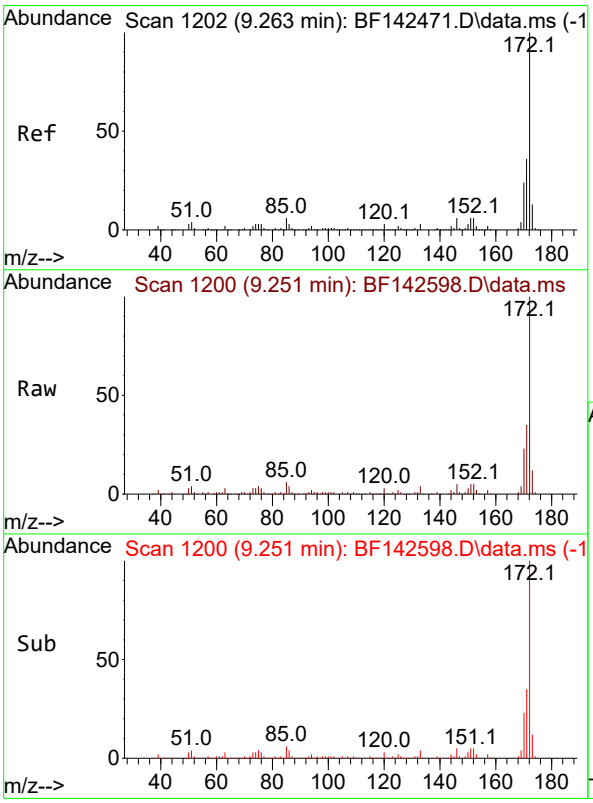
Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.6	116.4
141	34.6	24.6	36.8

Instrument :
BNA_F
ClientSampleId :
TP-44DL

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025

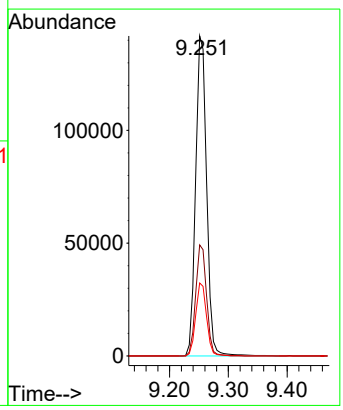


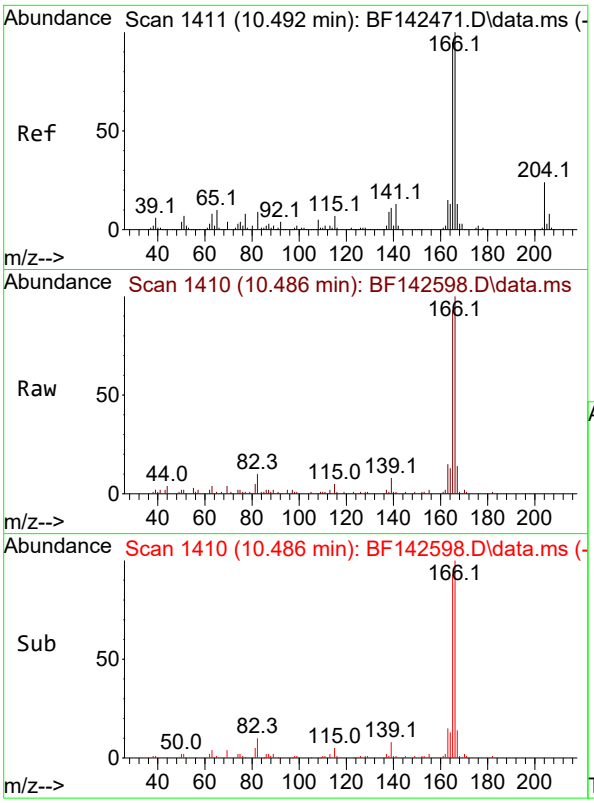


#45
2-Fluorobiphenyl
Concen: 10.650 ng
RT: 9.251 min Scan# 1200
Delta R.T. -0.018 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion:172 Resp: 184171

Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.6	42.8
170	22.8	18.9	28.3

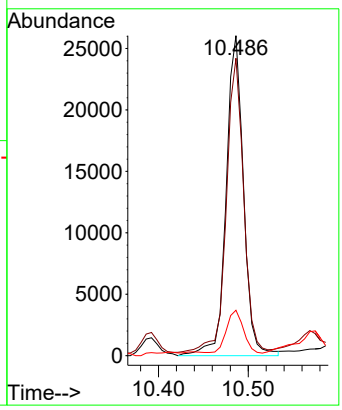




#58
Fluorene
Concen: 2.298 ng
RT: 10.486 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion:166 Resp: 3504

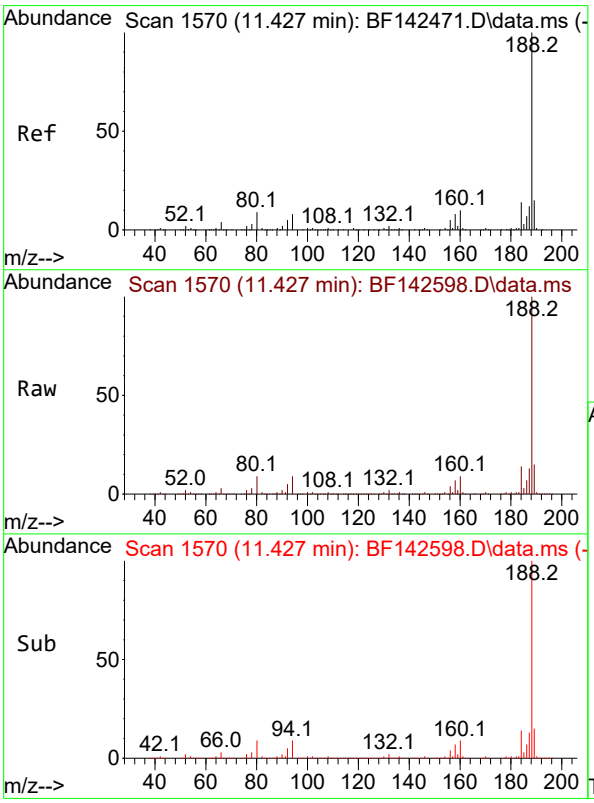
Ion	Ratio	Lower	Upper
166	100		
165	93.0	75.8	113.8
167	14.2	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
TP-44DL

Manual Integrations
APPROVED

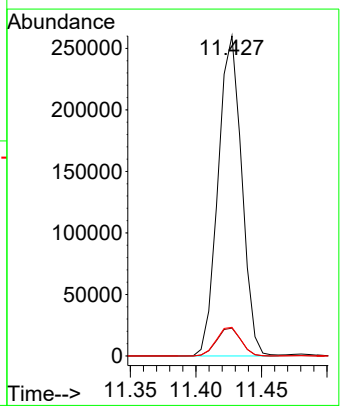
Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025

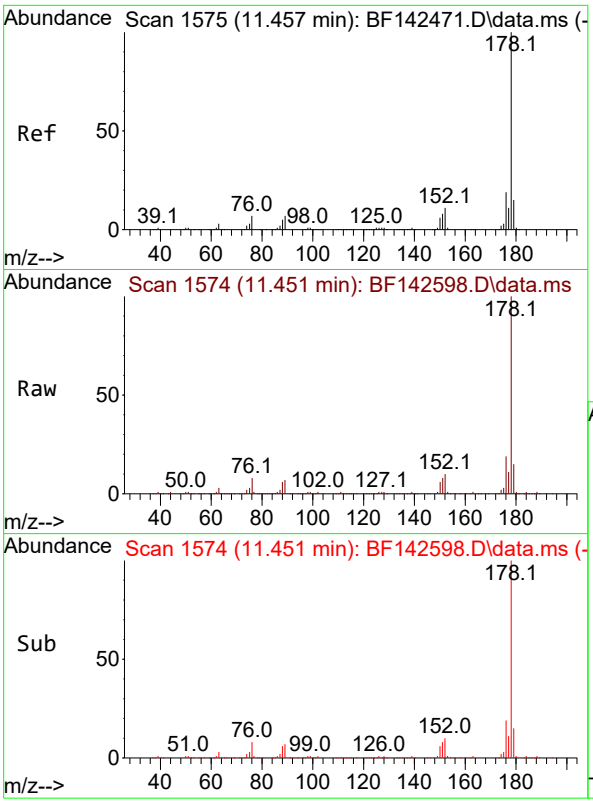


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion:188 Resp: 325882

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.6	10.0
80	8.9	7.4	11.0

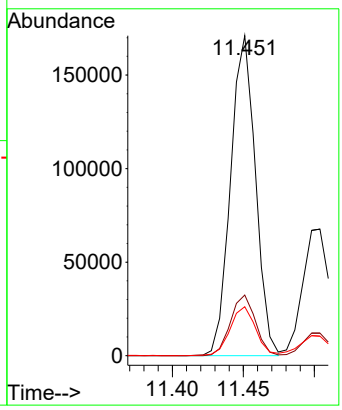




#71
Phenanthrene
Concen: 11.994 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion:178 Resp: 20888

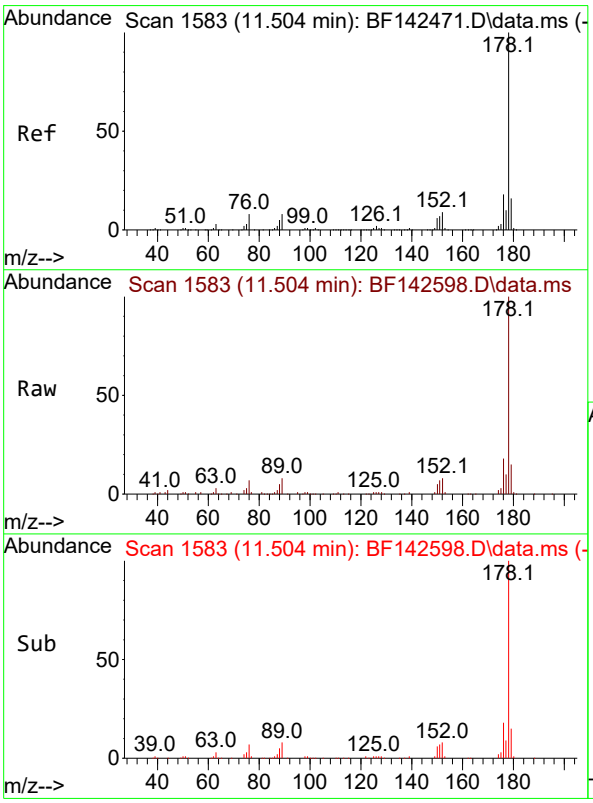
Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.0
179	15.3	12.3	18.5



Instrument :
BNA_F
ClientSampleId :
TP-44DL

Manual Integrations
APPROVED

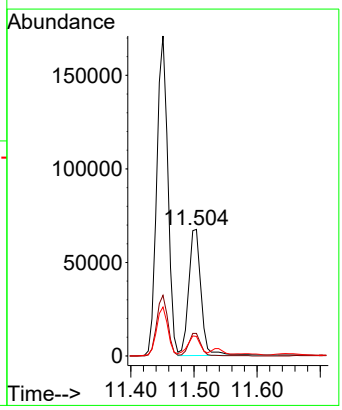
Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025

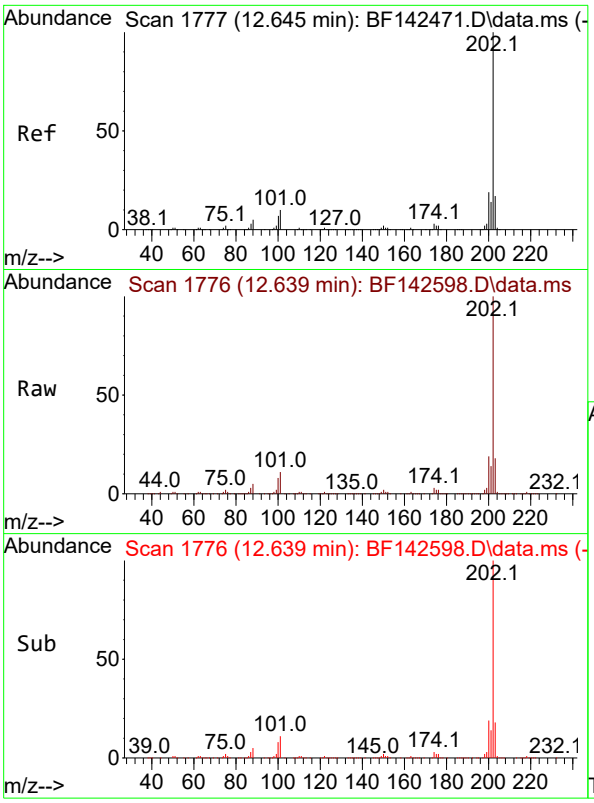


#72
Anthracene
Concen: 5.172 ng
RT: 11.504 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion:178 Resp: 91928

Ion	Ratio	Lower	Upper
178	100		
176	17.9	14.6	21.8
179	15.4	12.4	18.6

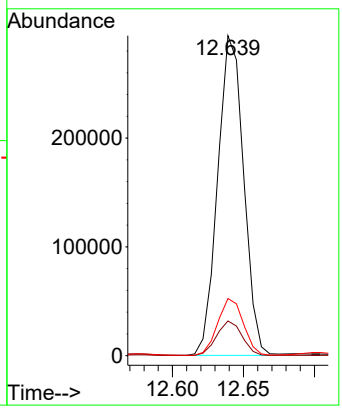




#75
Fluoranthene
Concen: 22.927 ng
RT: 12.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion:202 Resp: 373090

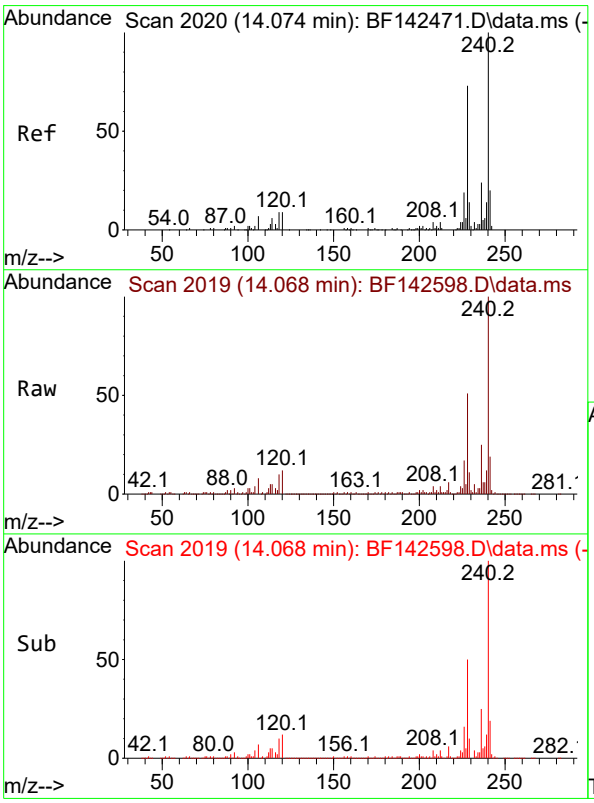
Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	29.6
203	17.8	0.0	37.2



Instrument :
BNA_F
ClientSampleId :
TP-44DL

Manual Integrations
APPROVED

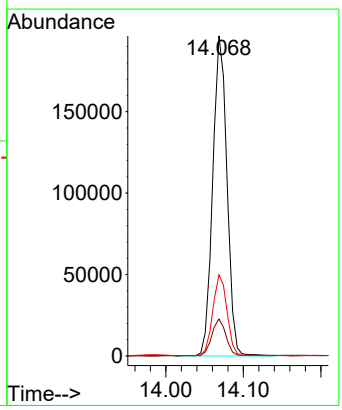
Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025

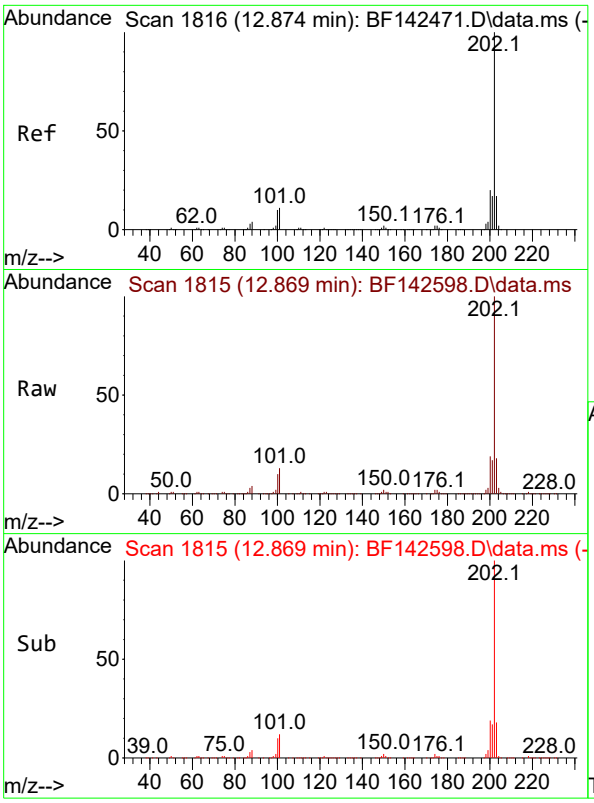


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion:240 Resp: 250994

Ion	Ratio	Lower	Upper
240	100		
120	11.6	7.5	11.3#
236	25.4	19.6	29.4

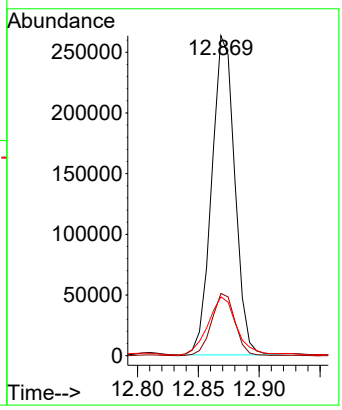




#78
Pyrene
Concen: 14.829 ng
RT: 12.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion:202 Resp: 34719

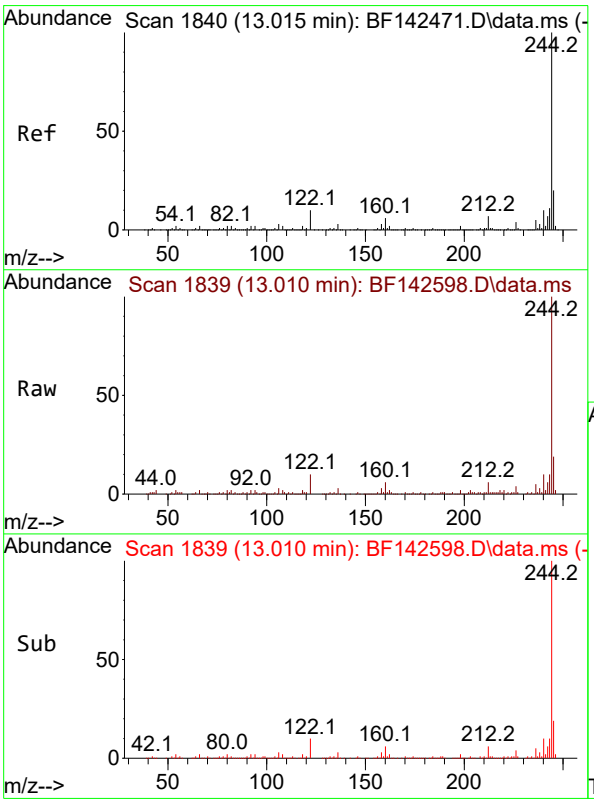
Ion	Ratio	Lower	Upper
202	100		
200	19.5	16.1	24.1
203	18.4	13.9	20.9



Instrument :
BNA_F
ClientSampleId :
TP-44DL

Manual Integrations APPROVED

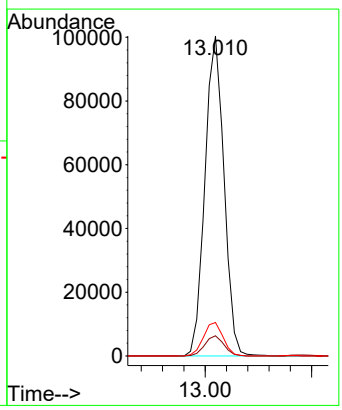
Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025

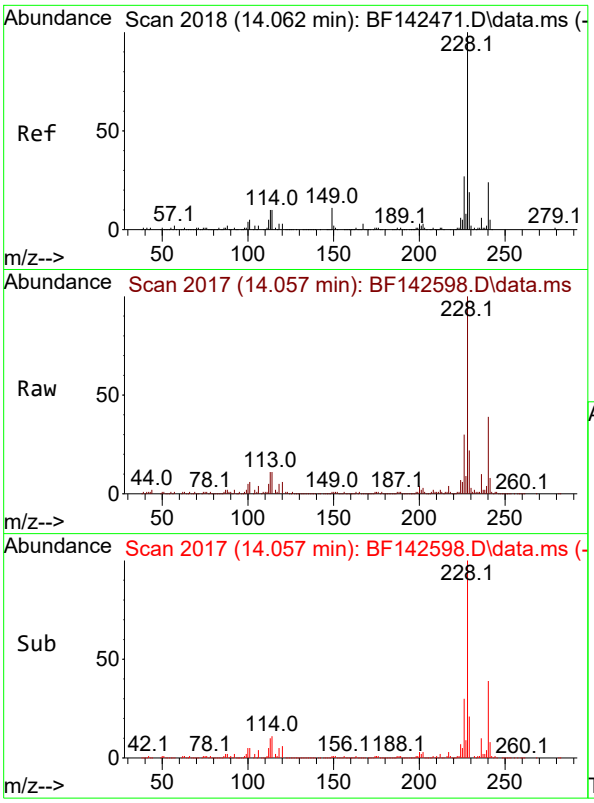


#79
Terphenyl-d14
Concen: 6.788 ng
RT: 13.010 min Scan# 1839
Delta R.T. -0.006 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion:244 Resp: 124670

Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.3	7.9
122	10.4	8.2	12.2

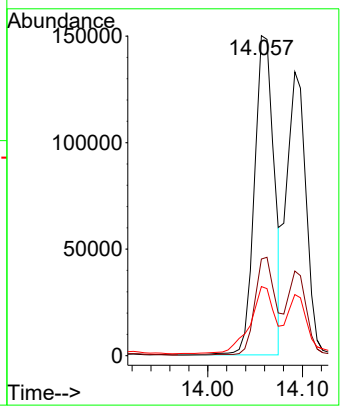




#81
Benzo(a)anthracene
Concen: 12.868 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion:228 Resp: 21567

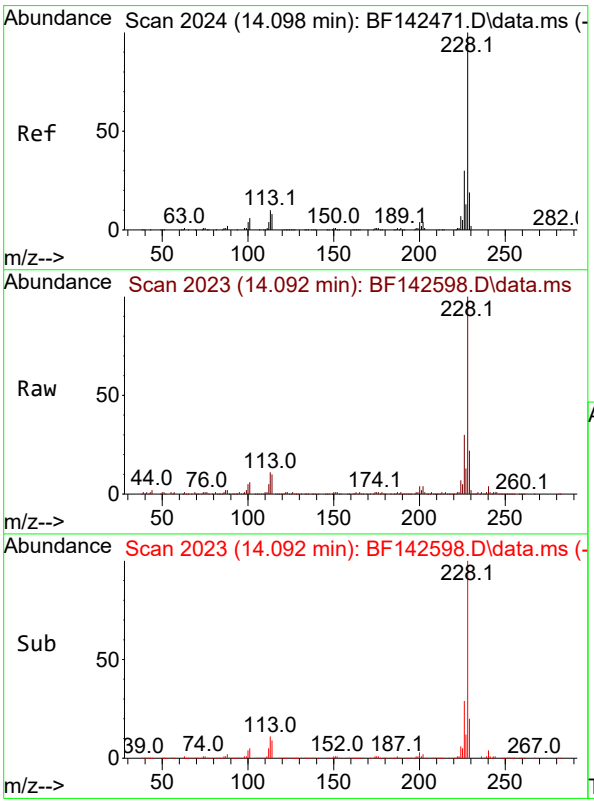
Ion	Ratio	Lower	Upper
228	100		
226	30.2	21.2	31.8
229	21.6	15.5	23.3



Instrument :
BNA_F
ClientSampleId :
TP-44DL

Manual Integrations
APPROVED

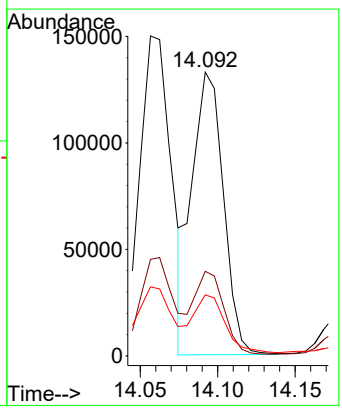
Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025

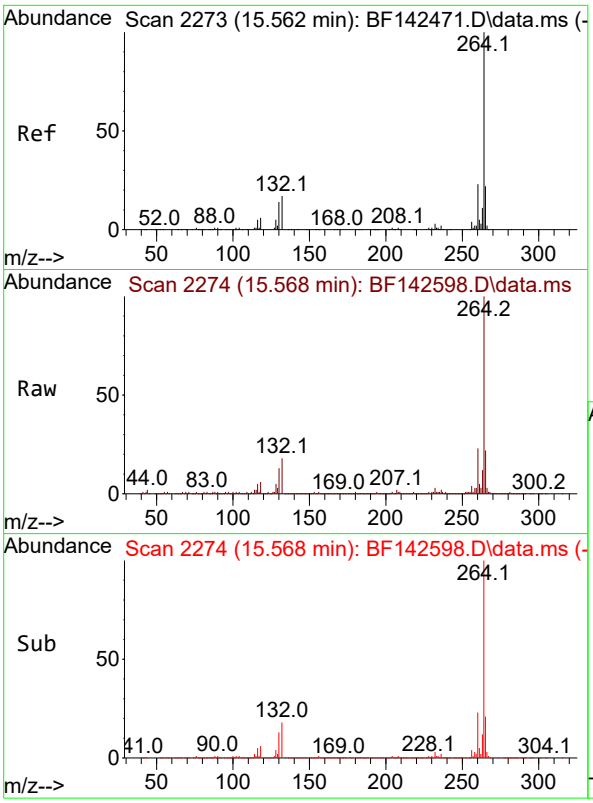


#83
Chrysene
Concen: 12.449 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion:228 Resp: 187480

Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.8	35.6
229	21.6	15.4	23.2

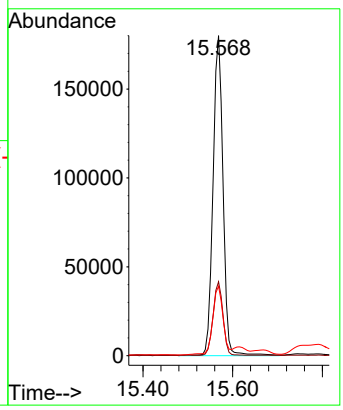




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.568 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion:264 Resp: 27892

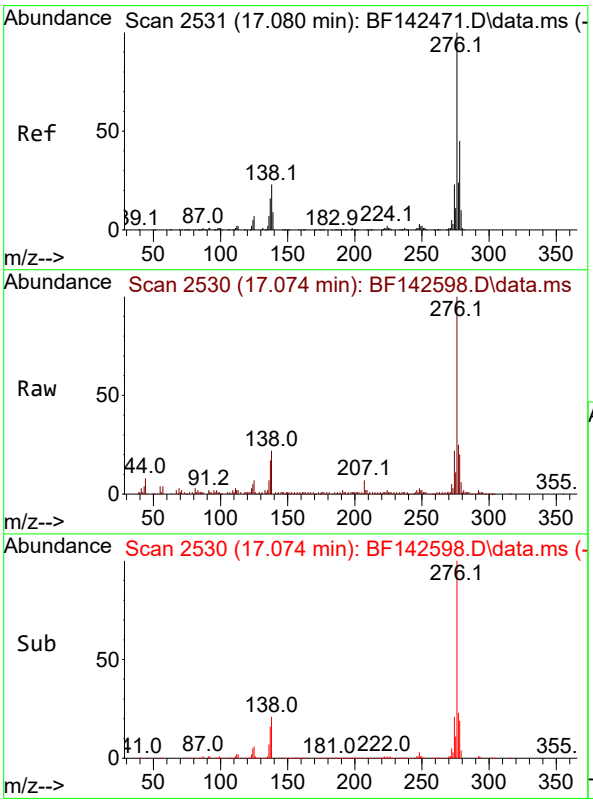
Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	28.0
265	21.7	17.7	26.5



Instrument :
BNA_F
ClientSampleId :
TP-44DL

Manual Integrations APPROVED

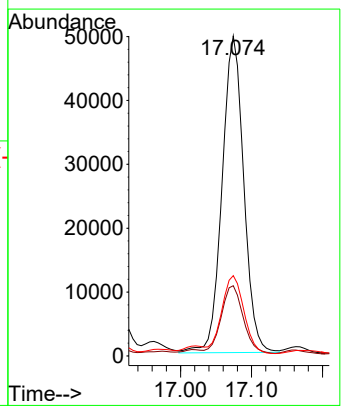
Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025

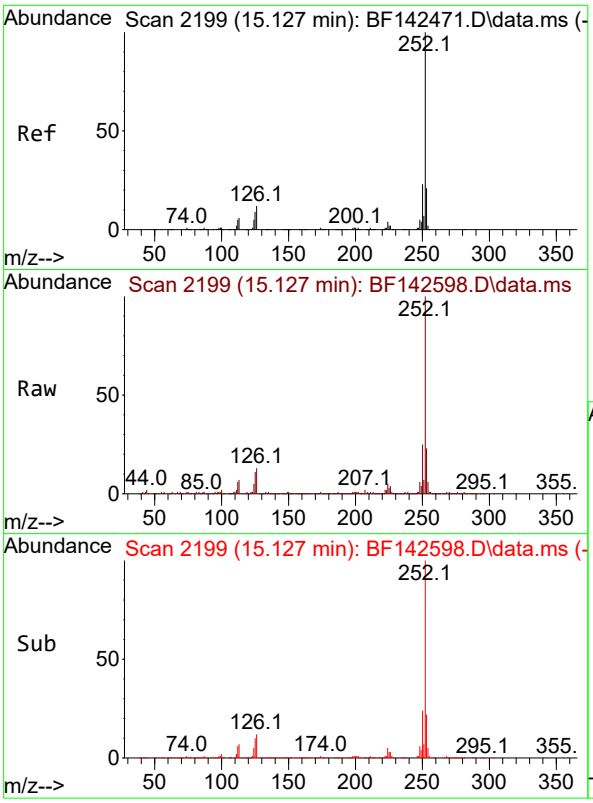


#87
Indeno(1,2,3-cd)pyrene
Concen: 5.012 ng
RT: 17.074 min Scan# 2530
Delta R.T. -0.018 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion:276 Resp: 104960

Ion	Ratio	Lower	Upper
276	100		
138	21.5	19.9	29.9
277	25.2	20.2	30.2

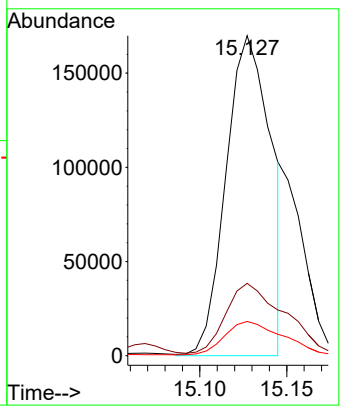




#88
Benzo(b)fluoranthene
Concen: 18.531 ng m
RT: 15.127 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion:252 Resp: 30591

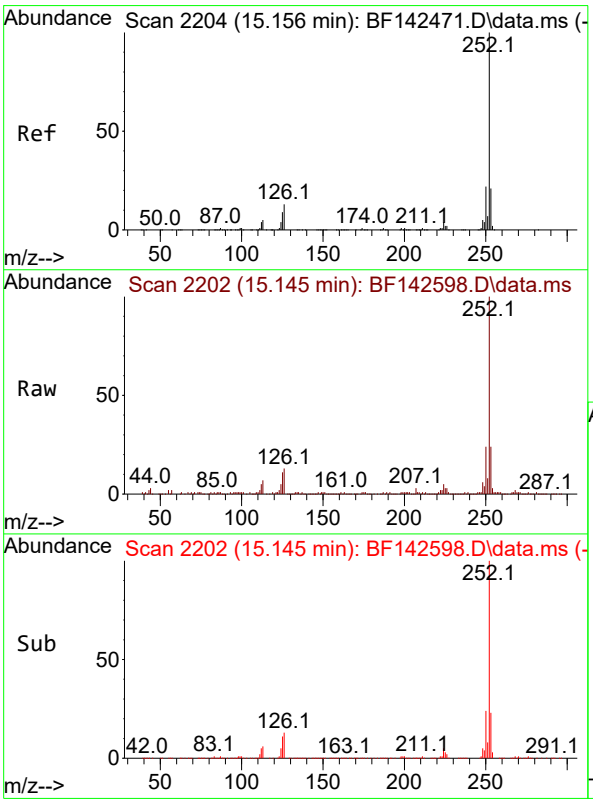
Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.0	25.4
125	10.7	7.4	11.0



Instrument :
BNA_F
ClientSampleId :
TP-44DL

Manual Integrations
APPROVED

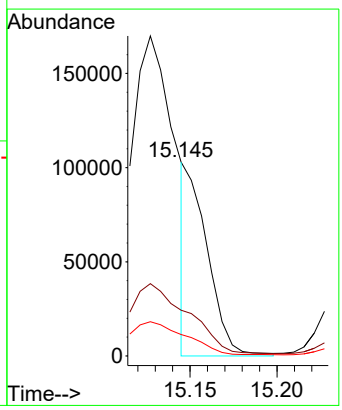
Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025

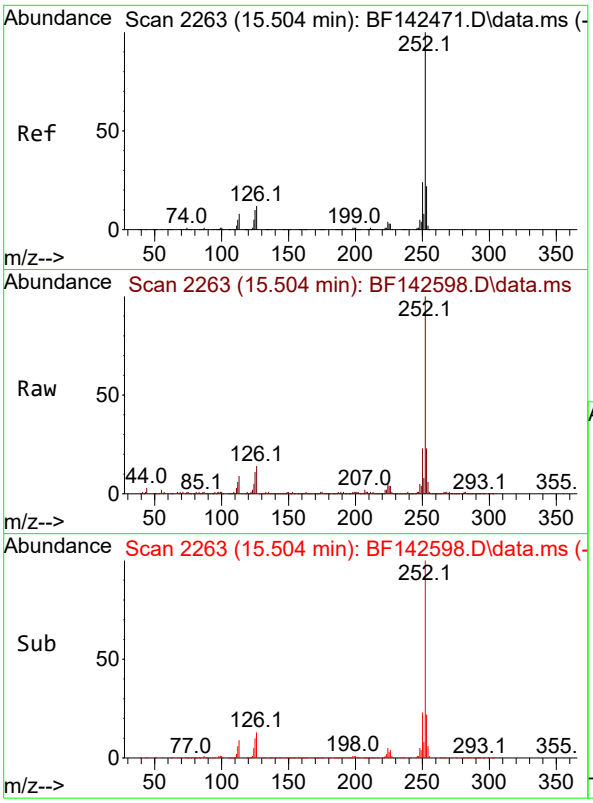


#89
Benzo(k)fluoranthene
Concen: 5.540 ng m
RT: 15.145 min Scan# 2202
Delta R.T. -0.018 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion:252 Resp: 85656

Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.0	25.4
125	11.1	7.3	10.9#

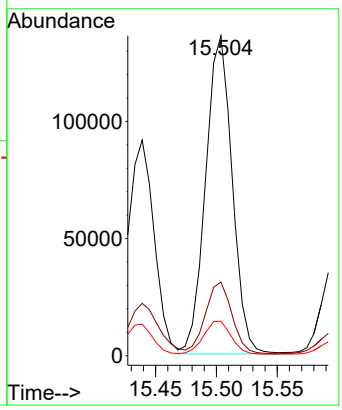




#90
Benzo(a)pyrene
Concen: 13.289 ng
RT: 15.504 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion:252 Resp: 20679

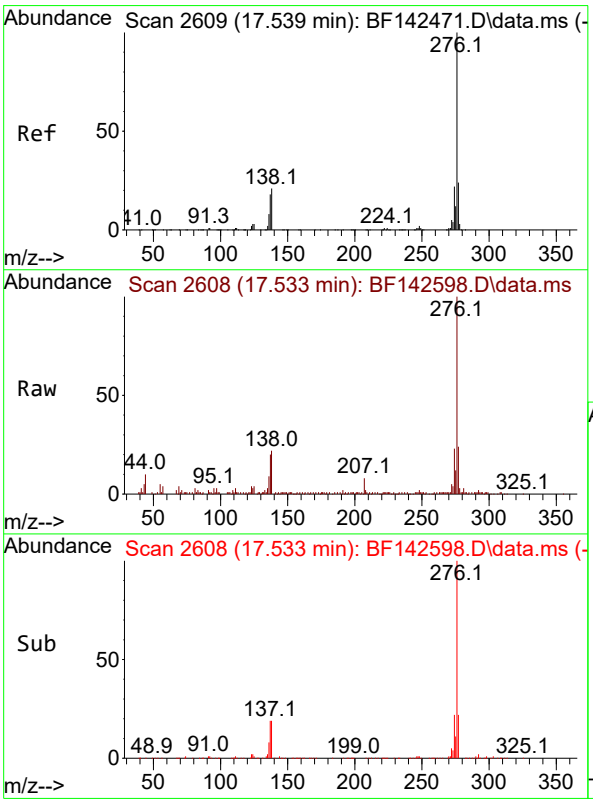
Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.4	26.0
125	10.8	7.9	11.9



Instrument :
BNA_F
ClientSampleId :
TP-44DL

Manual Integrations
APPROVED

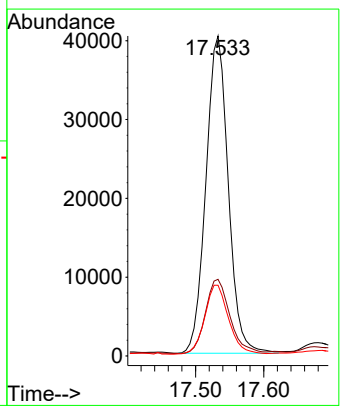
Reviewed By :Rahul Chavli 06/03/2025
Supervised By :Jagrut Upadhyay 06/03/2025



#92
Benzo(g,h,i)perylene
Concen: 5.423 ng
RT: 17.533 min Scan# 2608
Delta R.T. -0.023 min
Lab File: BF142598.D
Acq: 02 Jun 2025 15:34

Tgt Ion:276 Resp: 92128

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.2	28.8
138	22.1	16.8	25.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142583.D
Acq On : 30 May 2025 21:42
Operator : RC/JU
Sample : Q2150-02
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-42

Quant Time: May 30 22:29:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

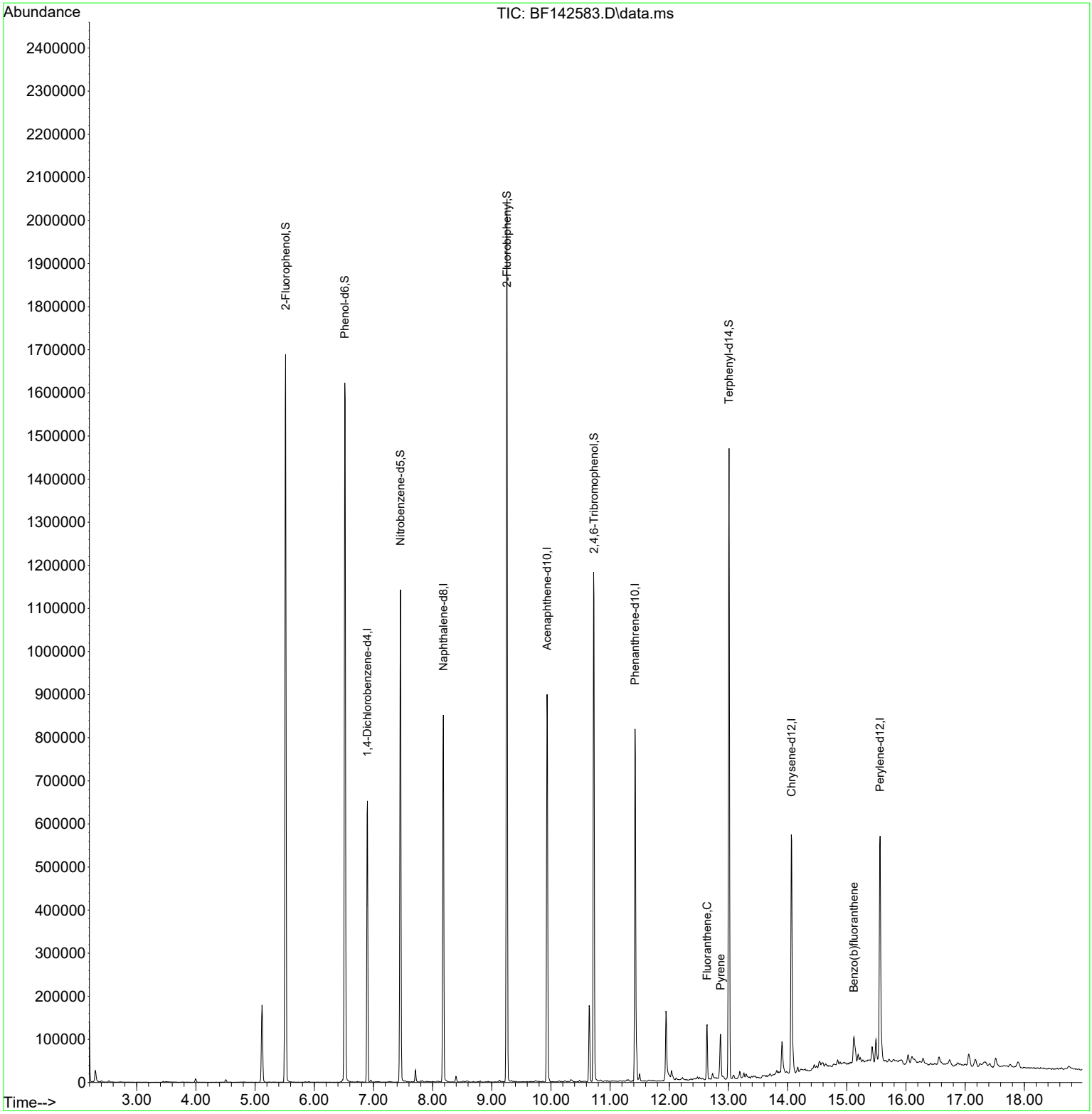
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	143411	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	545898	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	276939	20.000	ng	-0.01
64) Phenanthrene-d10	11.421	188	434462	20.000	ng	-0.01
76) Chrysene-d12	14.068	240	256745	20.000	ng	0.00
86) Perylene-d12	15.562	264	308145	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	665218	78.148	ng	0.00
7) Phenol-d6	6.516	99	808288	78.882	ng	-0.02
23) Nitrobenzene-d5	7.457	82	489226	48.868	ng	-0.02
42) 2,4,6-Tribromophenol	10.727	330	213548	69.476	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	949387	46.001	ng	-0.01
79) Terphenyl-d14	13.010	244	700083	37.262	ng	0.00
Target Compounds						Qvalue
75) Fluoranthene	12.639	202	75247	3.468	ng	100
78) Pyrene	12.868	202	63857	2.666	ng	97
88) Benzo(b)fluoranthene	15.121	252	36811m	2.018	ng	

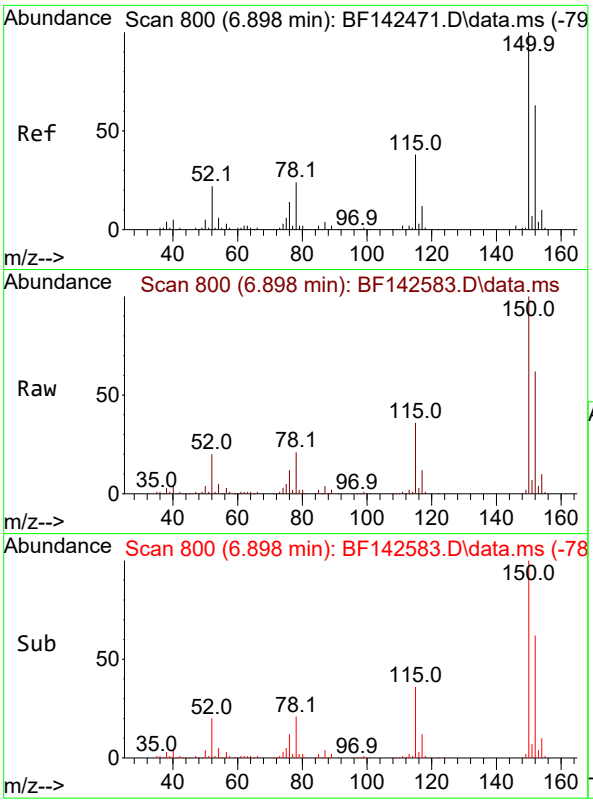
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142583.D
Acq On : 30 May 2025 21:42
Operator : RC/JU
Sample : Q2150-02
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-42

Quant Time: May 30 22:29:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



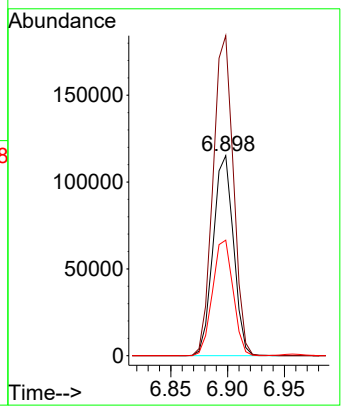


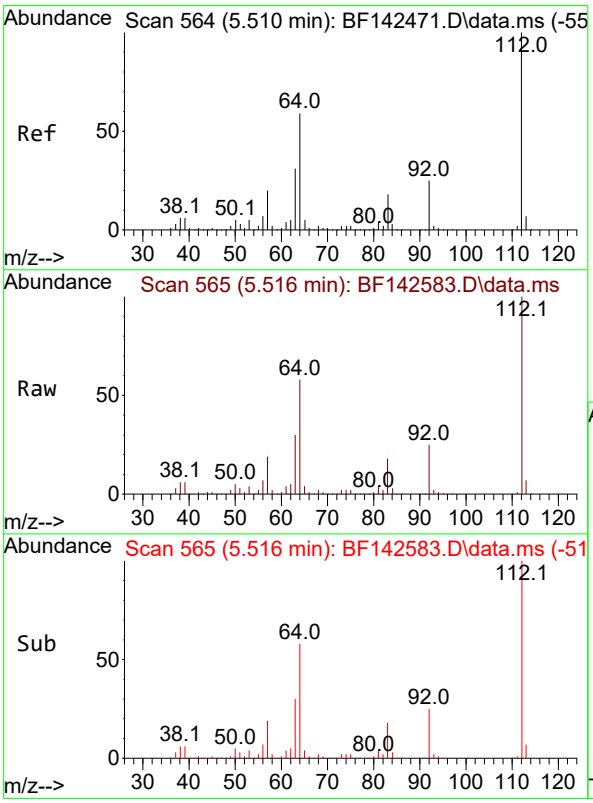
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142583.D
Acq: 30 May 2025 21:42

Instrument :
BNA_F
ClientSampleId :
TP-42

Tgt Ion:152 Resp: 143411

Ion	Ratio	Lower	Upper
152	100		
150	160.0	128.2	192.4
115	57.8	48.3	72.5

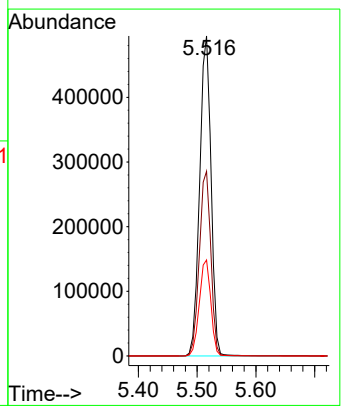


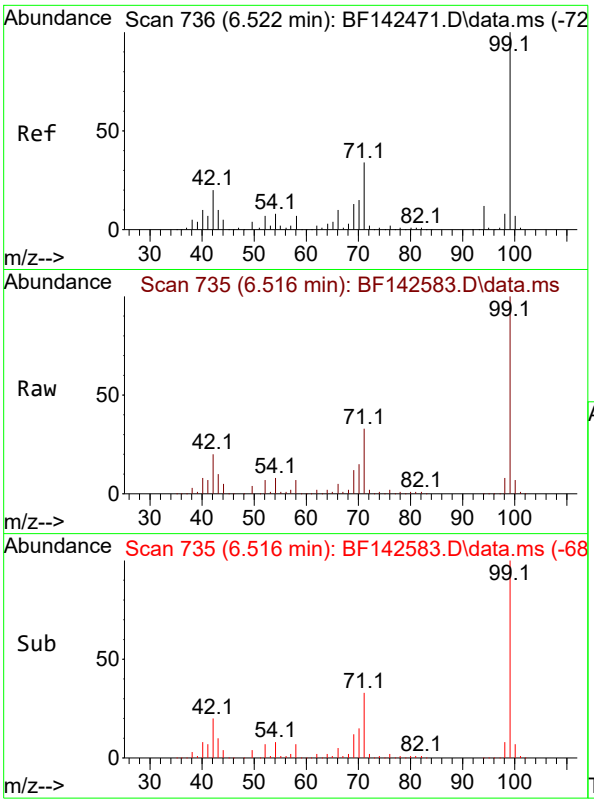


#5
2-Fluorophenol
Concen: 78.148 ng
RT: 5.516 min Scan# 565
Delta R.T. 0.000 min
Lab File: BF142583.D
Acq: 30 May 2025 21:42

Tgt Ion:112 Resp: 665218

Ion	Ratio	Lower	Upper
112	100		
64	57.7	47.5	71.3
63	30.0	24.9	37.3



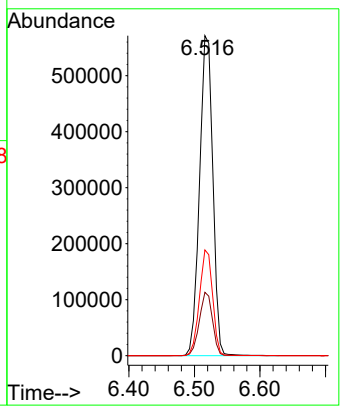


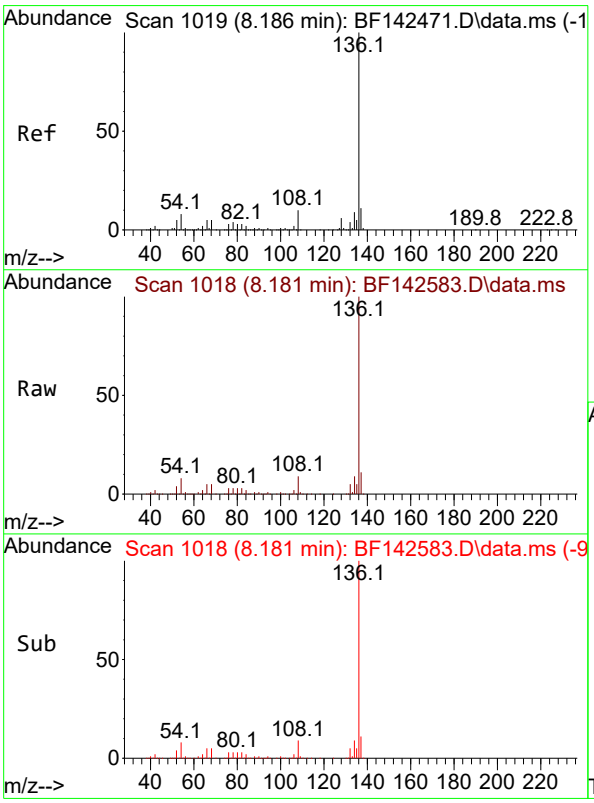
#7
Phenol-d6
Concen: 78.882 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142583.D
Acq: 30 May 2025 21:42

Instrument :
BNA_F
ClientSampleId :
TP-42

Tgt Ion: 99 Resp: 808288

Ion	Ratio	Lower	Upper
99	100		
42	19.8	16.2	24.2
71	33.0	27.3	40.9

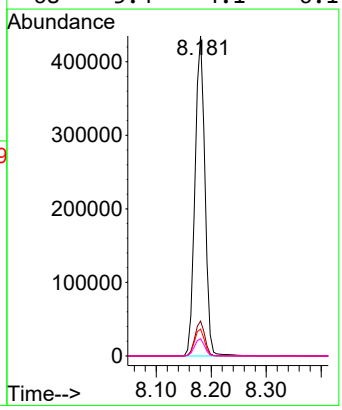




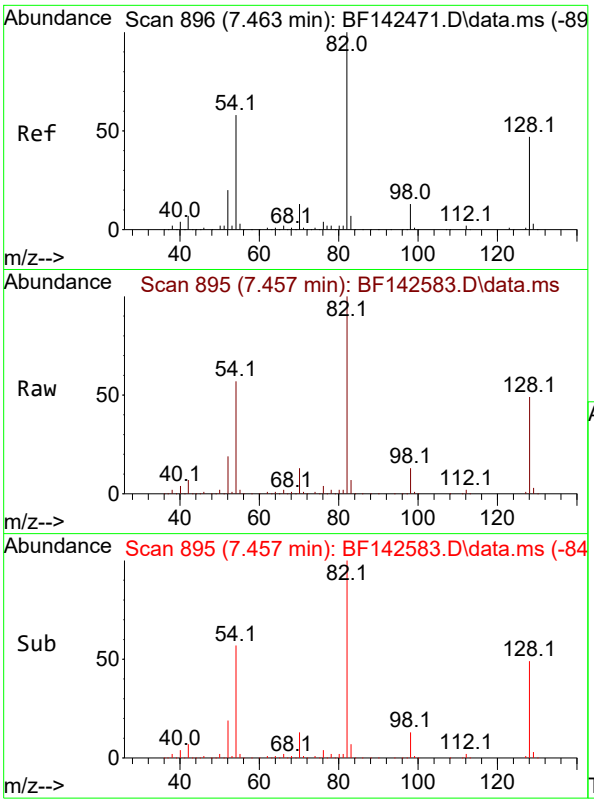
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142583.D
Acq: 30 May 2025 21:42

Tgt Ion:136 Resp: 545898

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.4	6.6	10.0
68	5.4	4.1	6.1



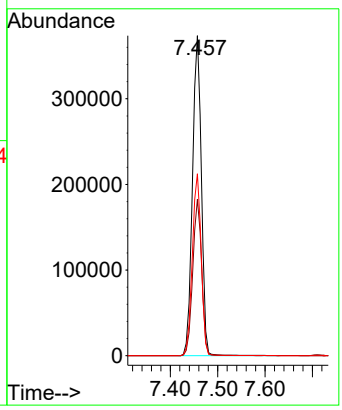
Instrument :
BNA_F
ClientSampleId :
TP-42

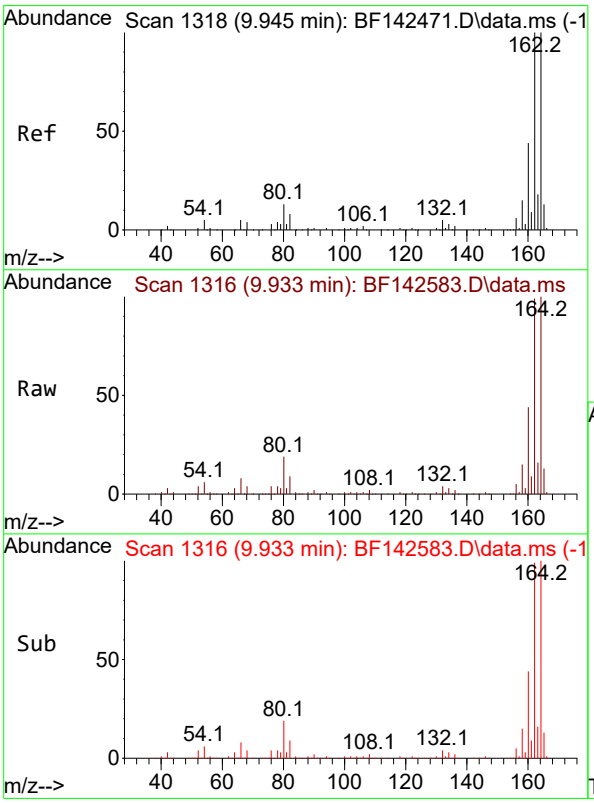


#23
Nitrobenzene-d5
Concen: 48.868 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142583.D
Acq: 30 May 2025 21:42

Tgt Ion: 82 Resp: 489226

Ion	Ratio	Lower	Upper
82	100		
128	48.9	37.4	56.2
54	56.9	46.6	70.0

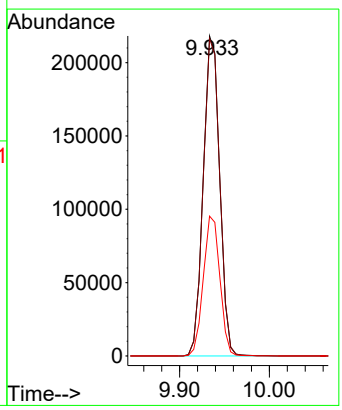


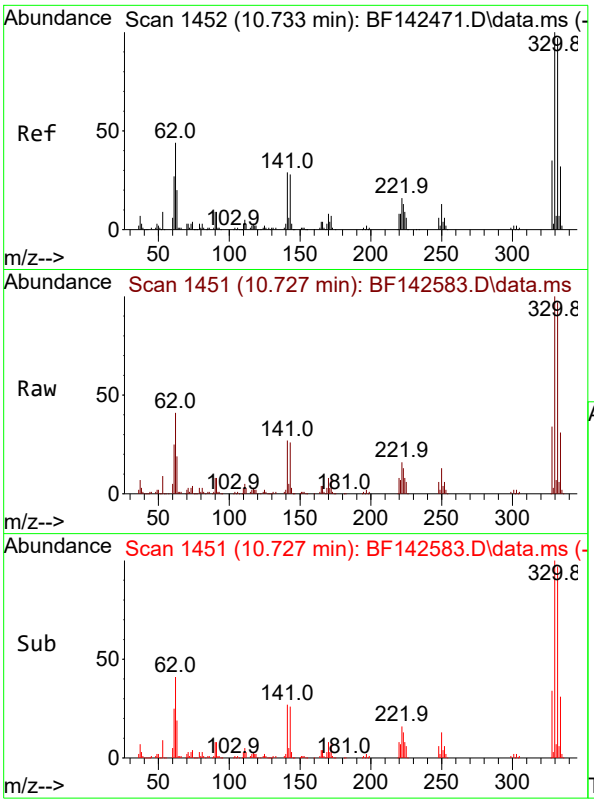


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142583.D
Acq: 30 May 2025 21:42

Tgt Ion:164 Resp: 276939

Ion	Ratio	Lower	Upper
164	100		
162	99.2	80.2	120.4
160	43.7	35.6	53.4



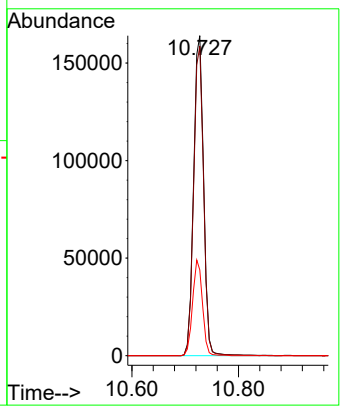


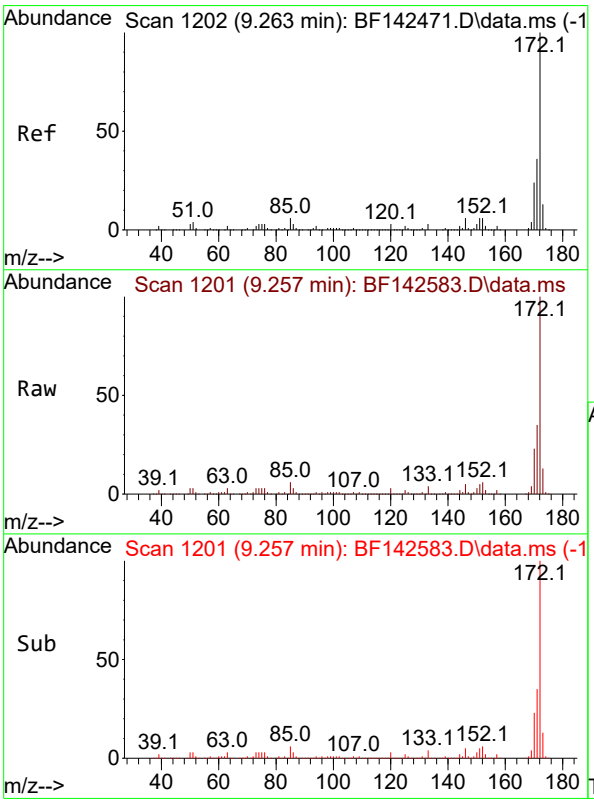
#42
2,4,6-Tribromophenol
Concen: 69.476 ng
RT: 10.727 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142583.D
Acq: 30 May 2025 21:42

Instrument :
BNA_F
ClientSampleId :
TP-42

Tgt Ion:330 Resp: 213548

Ion	Ratio	Lower	Upper
330	100		
332	96.4	77.6	116.4
141	29.6	24.6	36.8

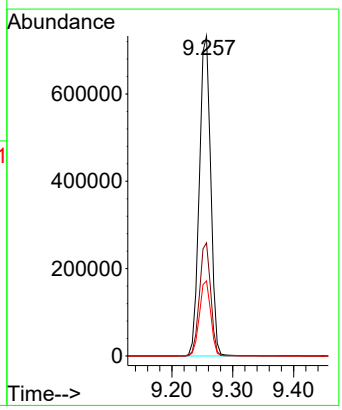


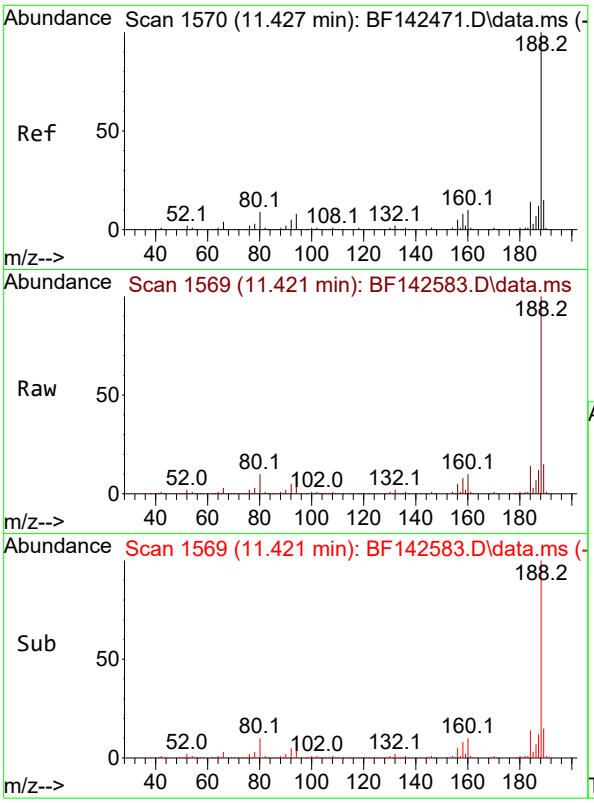


#45
2-Fluorobiphenyl
Concen: 46.001 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142583.D
Acq: 30 May 2025 21:42

Tgt Ion:172 Resp: 949387

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	42.8
170	23.4	18.9	28.3



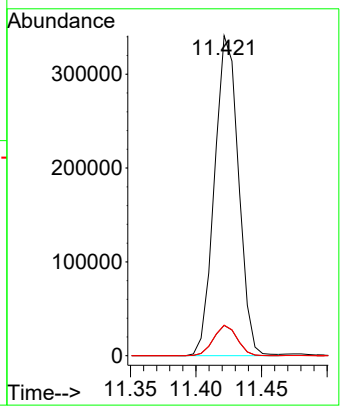


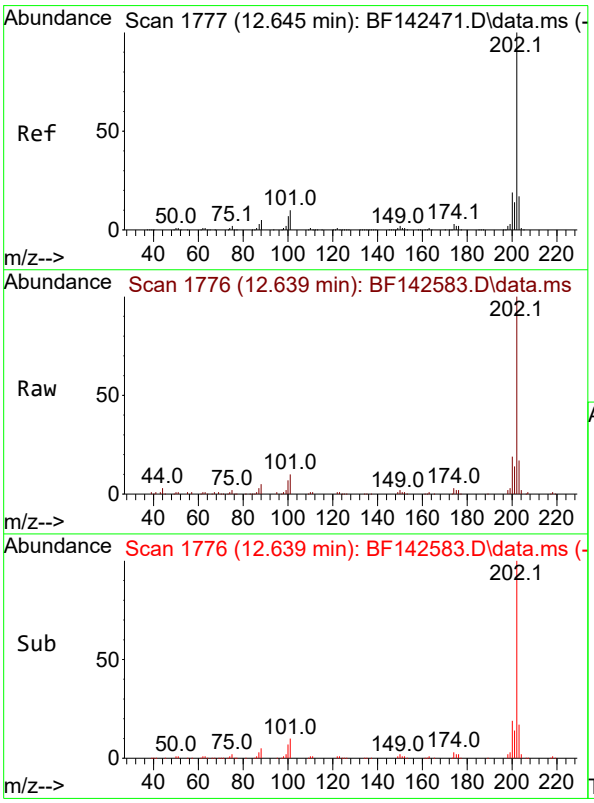
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.421 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142583.D
Acq: 30 May 2025 21:42

Instrument :
BNA_F
ClientSampleId :
TP-42

Tgt Ion:188 Resp: 434462

Ion	Ratio	Lower	Upper
188	100		
94	9.4	6.6	10.0
80	9.5	7.4	11.0

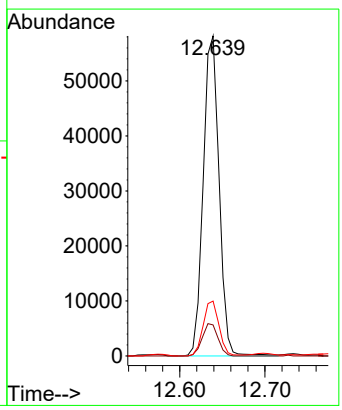


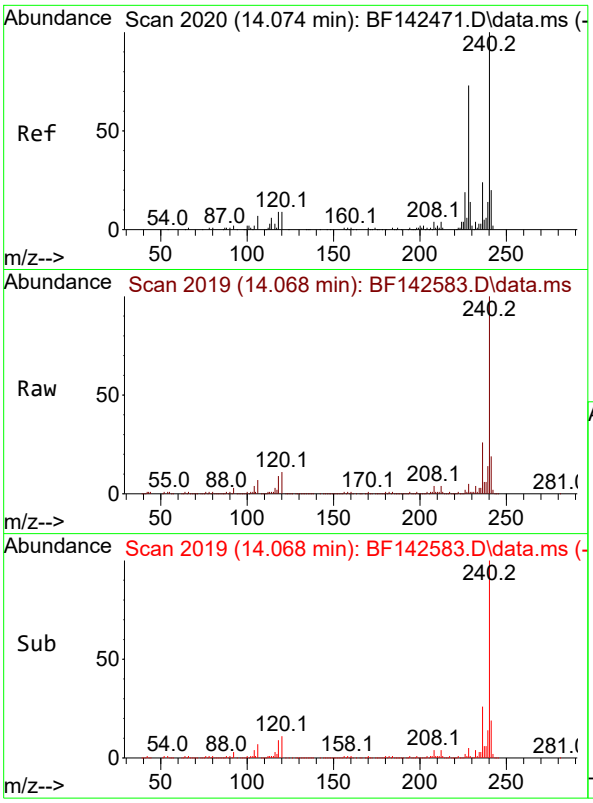


#75
Fluoranthene
Concen: 3.468 ng
RT: 12.639 min Scan# 1776
Delta R.T. -0.006 min
Lab File: BF142583.D
Acq: 30 May 2025 21:42

Tgt Ion:202 Resp: 75247

Ion	Ratio	Lower	Upper
202	100		
101	9.7	0.0	29.6
203	17.2	0.0	37.2



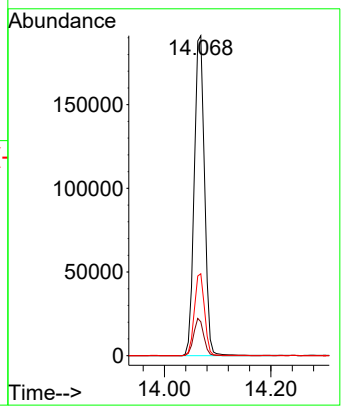


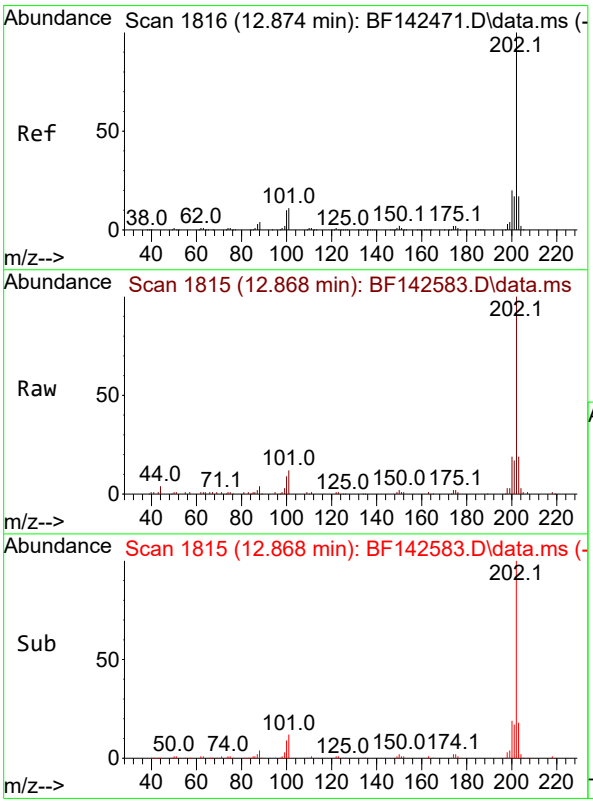
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142583.D
Acq: 30 May 2025 21:42

Instrument :
BNA_F
ClientSampleId :
TP-42

Tgt Ion:240 Resp: 256745

Ion	Ratio	Lower	Upper
240	100		
120	10.6	7.5	11.3
236	25.6	19.6	29.4

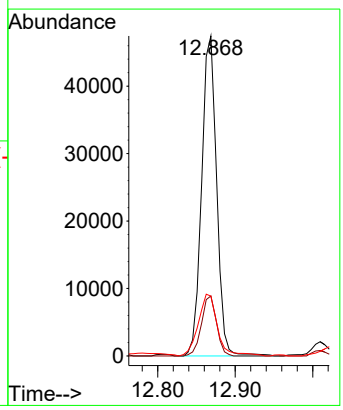


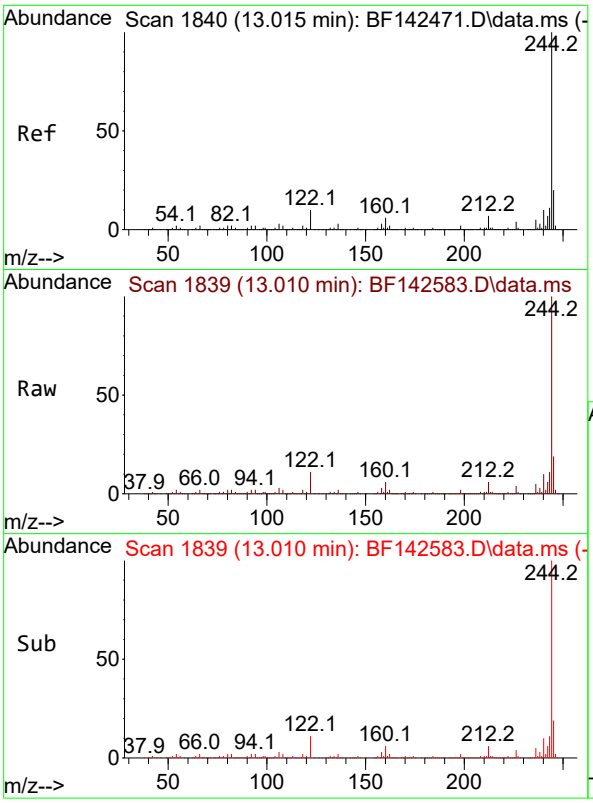


#78
Pyrene
Concen: 2.666 ng
RT: 12.868 min Scan# 1815
Delta R.T. -0.006 min
Lab File: BF142583.D
Acq: 30 May 2025 21:42

Tgt Ion:202 Resp: 63857

Ion	Ratio	Lower	Upper
202	100		
200	18.8	16.1	24.1
203	18.7	13.9	20.9



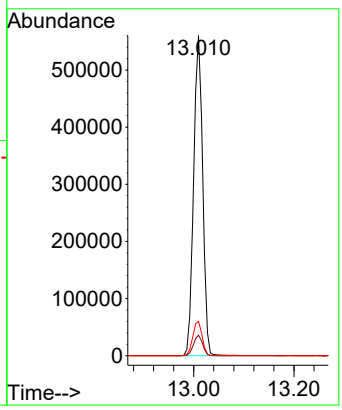


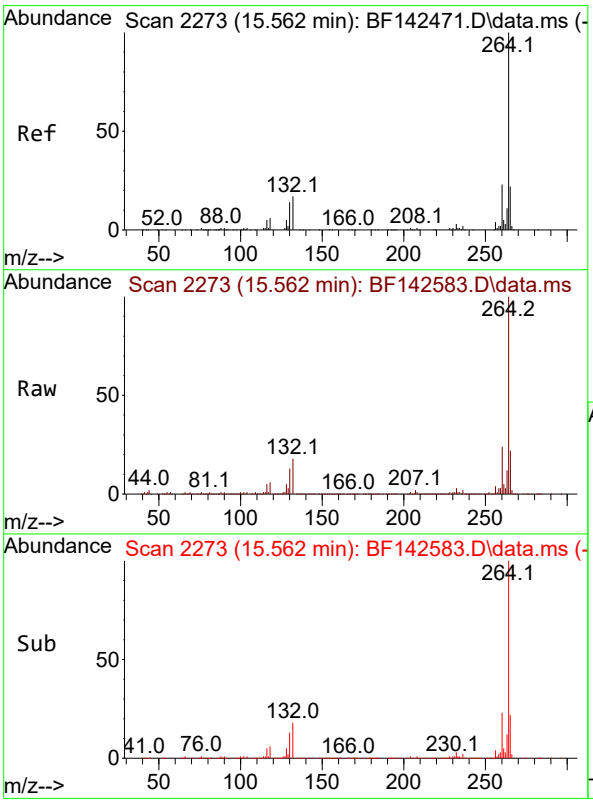
#79
Terphenyl-d14
Concen: 37.262 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142583.D
Acq: 30 May 2025 21:42

Instrument :
BNA_F
ClientSampleId :
TP-42

Tgt Ion:244 Resp: 700083

Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.3	7.9
122	10.7	8.2	12.2

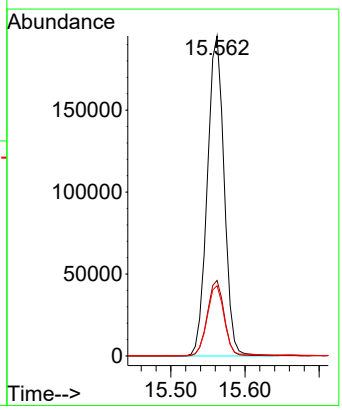


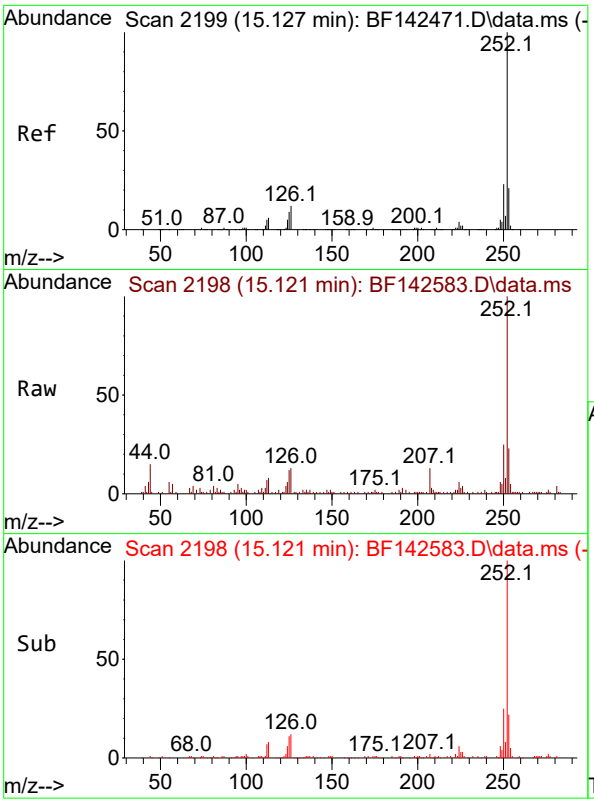


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142583.D
Acq: 30 May 2025 21:42

Tgt Ion:264 Resp: 308145

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.6	28.0
265	21.9	17.7	26.5



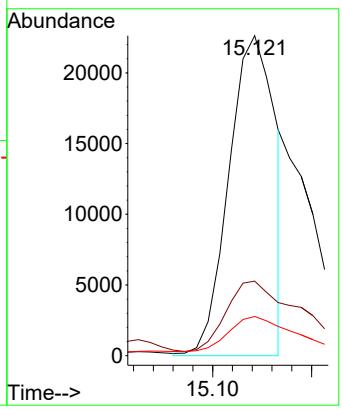


#88
Benzo(b)fluoranthene
Concen: 2.018 ng m
RT: 15.121 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142583.D
Acq: 30 May 2025 21:42

Instrument :
BNA_F
ClientSampleId :
TP-42

Tgt Ion:252 Resp: 36811

Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.0	25.4
125	12.2	7.4	11.0#



Sample Results: **BF142583.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142583.D
Acq On : 30 May 2025 21:42
Operator : RC/JU
Sample : Q2150-02
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-42

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142583.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.299	13	18	29	rVB2	26093	45733	1.72%	0.231%
2	5.116	489	497	514	rBV	179059	265837	9.99%	1.344%
3	5.516	558	565	570	rBV	1687789	2272847	85.44%	11.488%
4	6.516	729	735	741	rBV	1617452	2288359	86.03%	11.567%
5	6.898	794	800	805	rBV	651980	820738	30.85%	4.148%
6	7.457	888	895	900	rBV	1142551	1486624	55.89%	7.514%
7	7.710	934	938	949	rVB	27327	36740	1.38%	0.186%
8	8.181	1012	1018	1034	rVB	851172	1068726	40.18%	5.402%
9	9.257	1195	1201	1206	rBV	2048441	2660074	100.00%	13.446%
10	9.933	1311	1316	1326	rVB	898361	1147703	43.15%	5.801%
11	10.645	1432	1437	1445	rBV	176557	224303	8.43%	1.134%
12	10.722	1445	1450	1464	rBV	1181528	1553082	58.38%	7.850%
13	11.421	1564	1569	1577	rBV	817404	1125115	42.30%	5.687%
14	11.945	1651	1658	1670	rBV3	162543	281753	10.59%	1.424%
15	12.039	1670	1674	1684	rVB	20943	43368	1.63%	0.219%
16	12.639	1771	1776	1781	rBV	127377	163810	6.16%	0.828%
17	12.863	1808	1814	1819	rBV	101751	156773	5.89%	0.792%
18	13.010	1833	1839	1844	rBV	1461213	1832329	68.88%	9.262%
19	13.192	1863	1870	1875	rBV	16585	29542	1.11%	0.149%
20	13.904	1987	1991	2002	rVB2	71319	122975	4.62%	0.622%
21	14.063	2012	2018	2030	rVB	552999	850896	31.99%	4.301%
22	15.121	2193	2198	2206	rBV	58576	133880	5.03%	0.677%
23	15.427	2247	2250	2256	rVB	35049	55991	2.10%	0.283%
24	15.492	2257	2261	2266	rVV	50730	80108	3.01%	0.405%
25	15.562	2267	2273	2285	rVB	522027	889041	33.42%	4.494%
26	16.039	2350	2354	2359	rVB	18415	31818	1.20%	0.161%
27	17.062	2523	2528	2537	rVB2	28432	68089	2.56%	0.344%
28	17.515	2601	2605	2617	rVB	19664	47821	1.80%	0.242%

Sum of corrected areas: 19784075

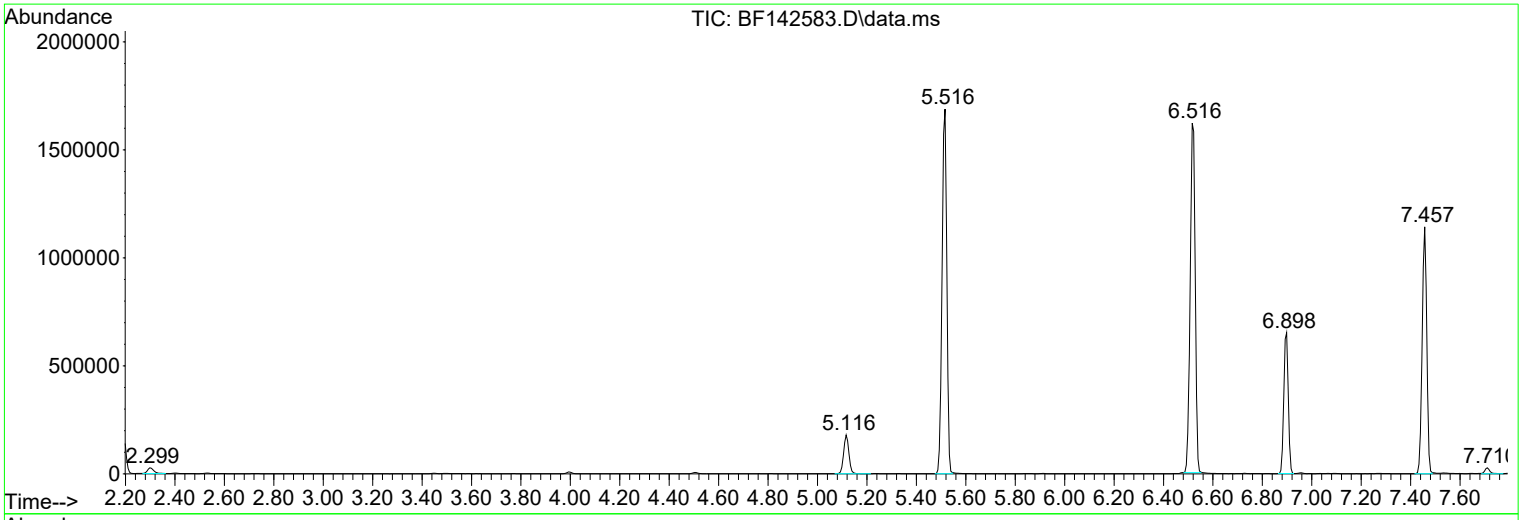
Sample Results: **BF142583.D**

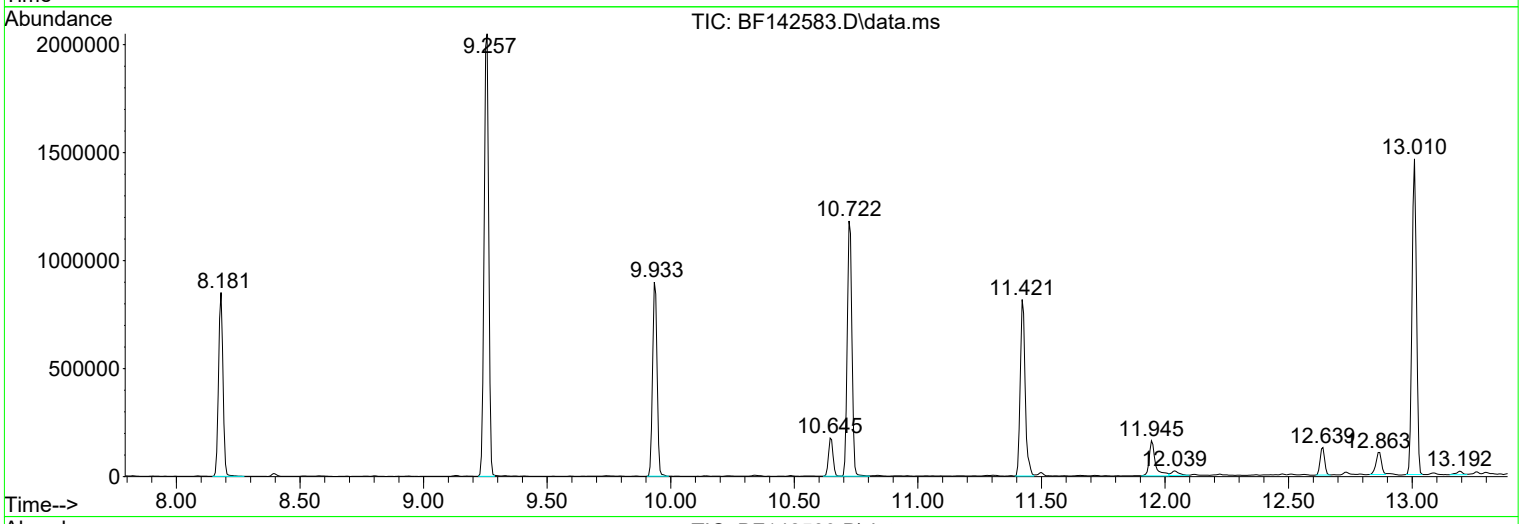
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142583.D
Acq On : 30 May 2025 21:42
Operator : RC/JU
Sample : Q2150-02
Misc :
ALS Vial : 19 Sample Multiplier: 1

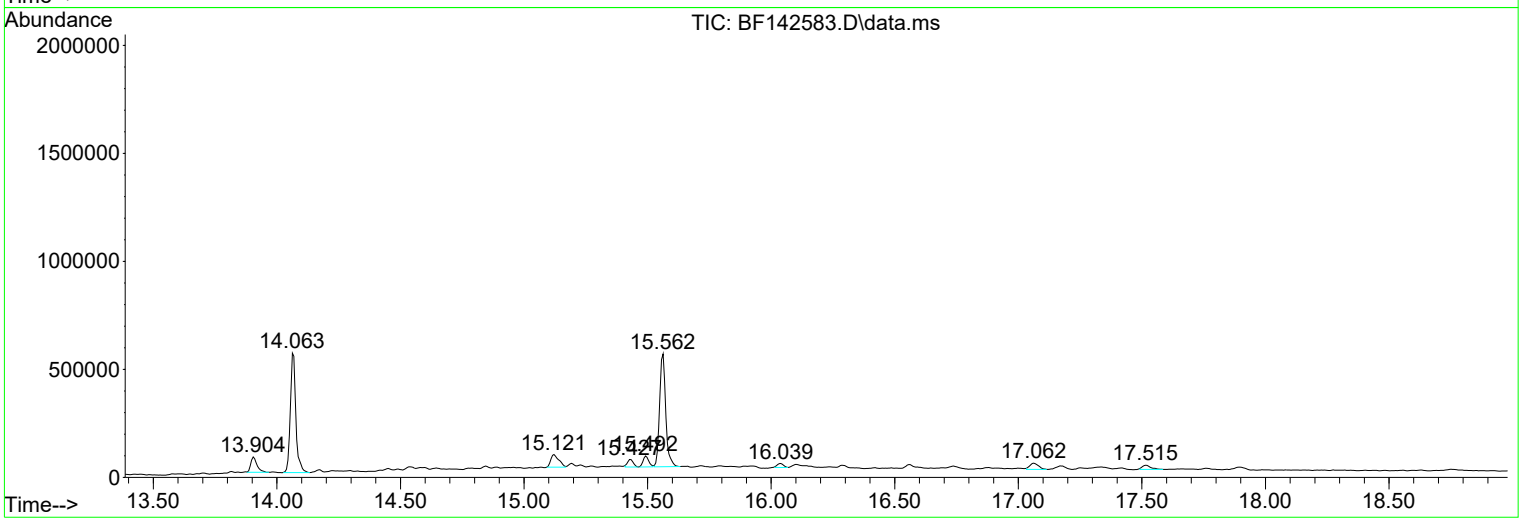
Instrument :
BNA_F
ClientSampleId :
TP-42

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.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\BF053025\
Data File : BF142583.D
Acq On : 30 May 2025 21:42
Operator : RC/JU
Sample : Q2150-02
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-42

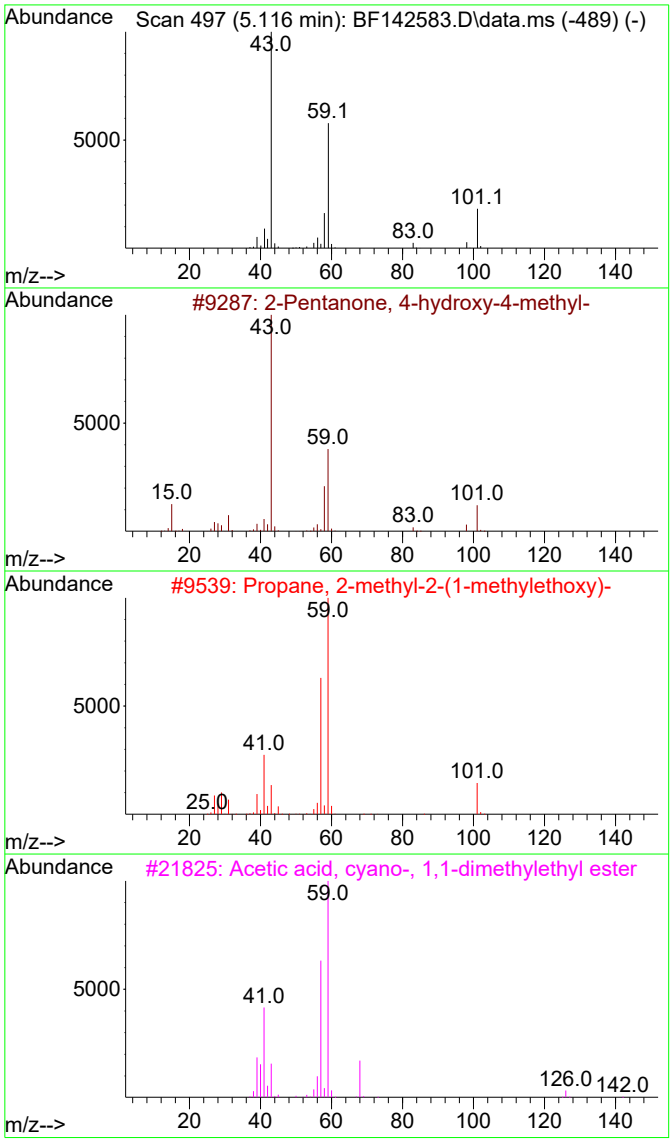
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

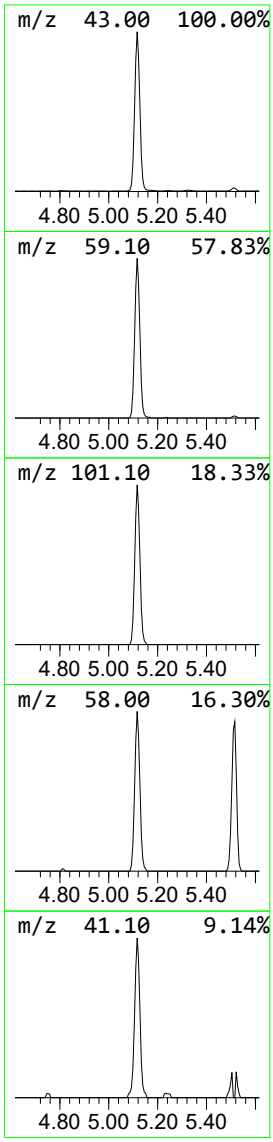
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	6.48 ng	265837	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	36
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142583.D
Acq On : 30 May 2025 21:42
Operator : RC/JU
Sample : Q2150-02
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-42

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

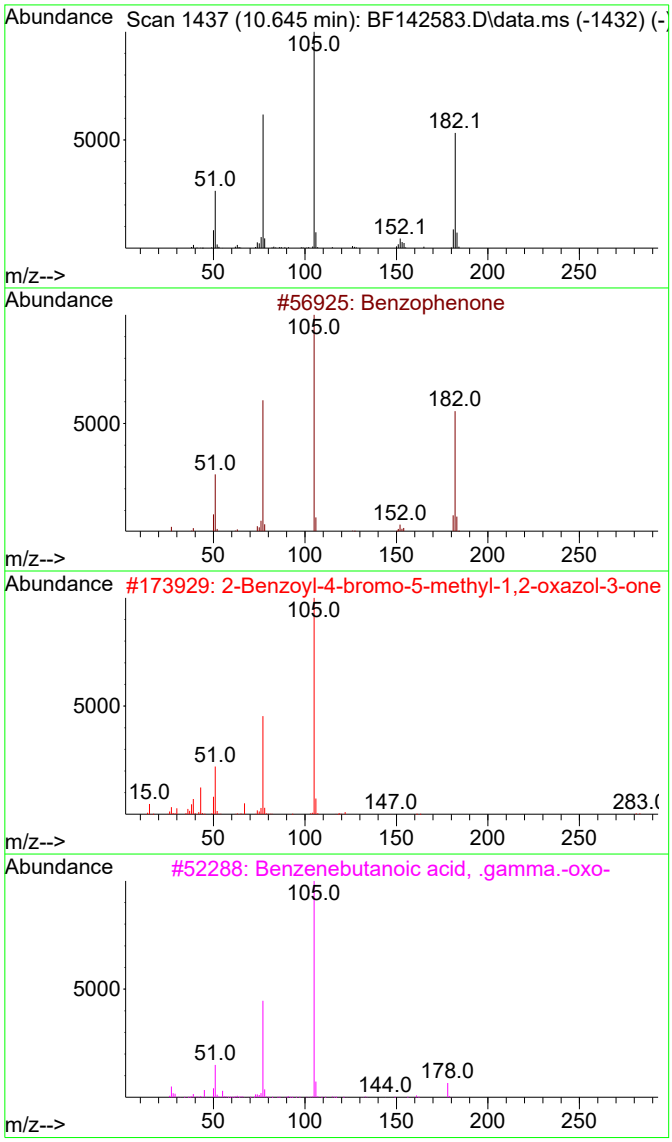
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

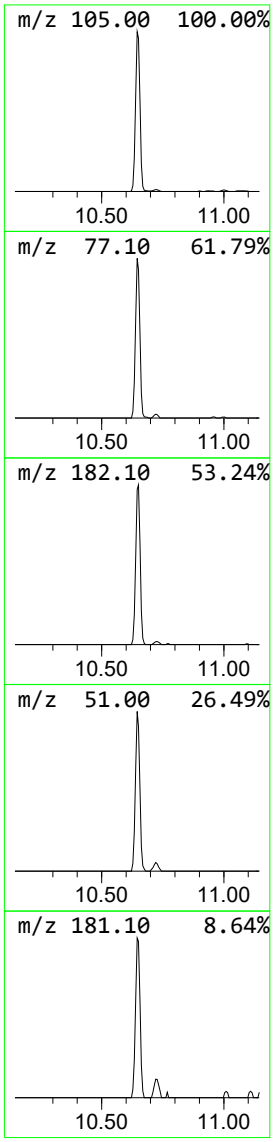
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	3.91 ng	224303	Acenaphthene-d10	9.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	47
3	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47
4	1,2,4-Triazine-3,5(2H,4H)-dione,...	249	C10H7N3O3S	024168-34-1	47
5	1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142583.D
Acq On : 30 May 2025 21:42
Operator : RC/JU
Sample : Q2150-02
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-42

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

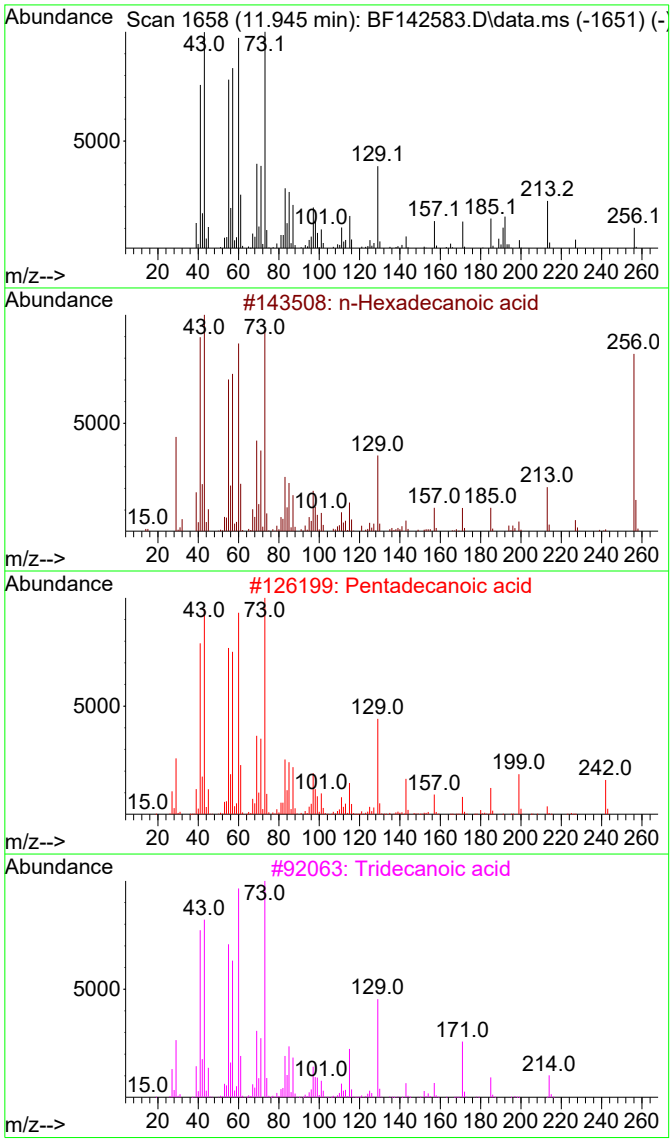
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

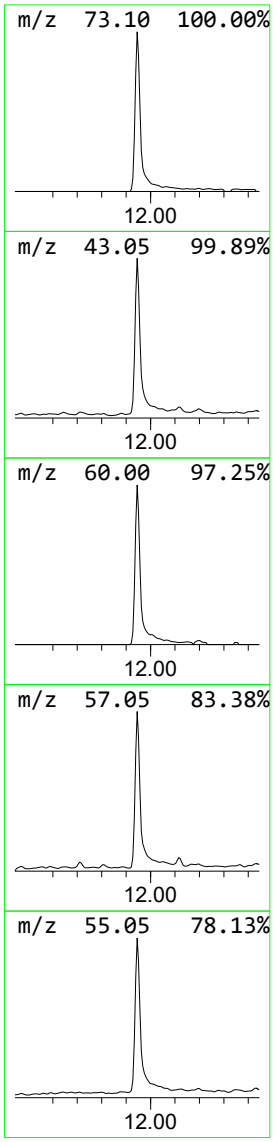
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	5.01 ng	281753	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
3	Tridecanoic acid	214	C13H26O2	000638-53-9	93
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	87
5	n-Decanoic acid	172	C10H20O2	000334-48-5	76





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142583.D
Acq On : 30 May 2025 21:42
Operator : RC/JU
Sample : Q2150-02
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-42

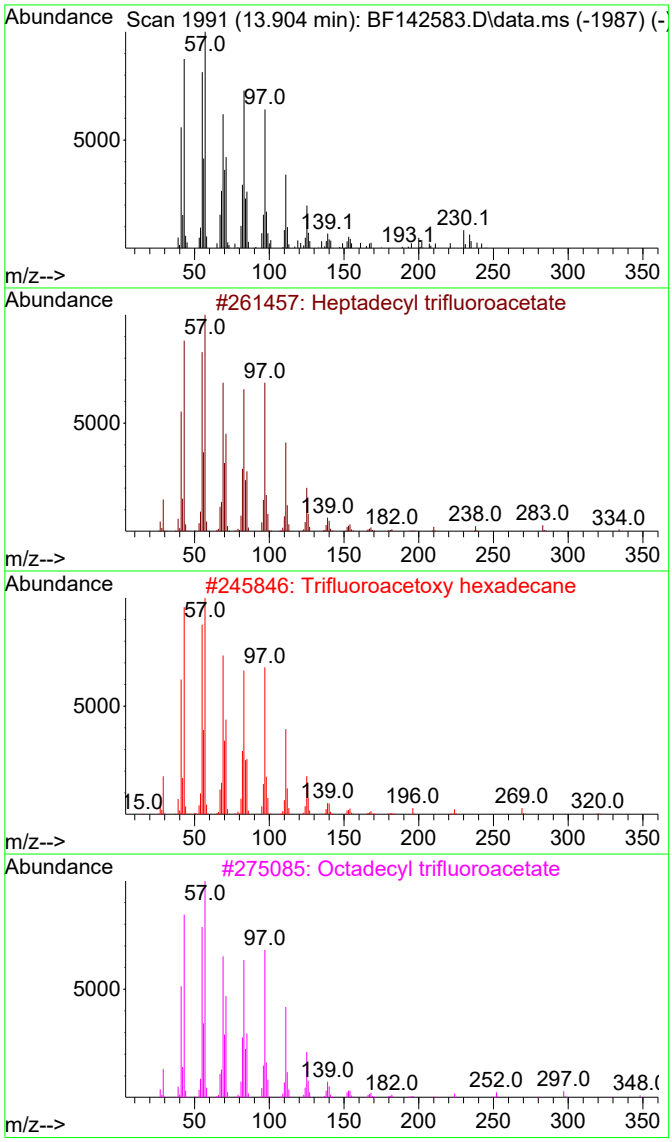
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

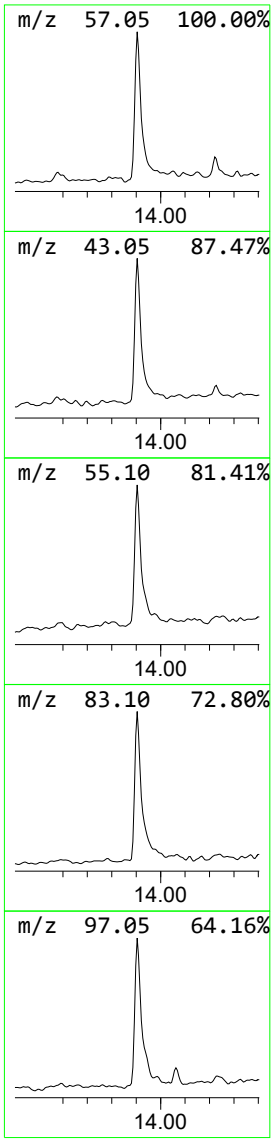
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Heptadecyl trifluoroacetate Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	2.89 ng	122975	Chrysene-d12	14.068

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	95
2	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	95
3	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	94
4	Heptafluorobutyric acid, hexadec...	438	C20H33F7O2	006385-15-5	94
5	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142583.D
Acq On : 30 May 2025 21:42
Operator : RC/JU
Sample : Q2150-02
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-42

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.116	6.5	ng	265837	1	6.898	820738	20.0
Benzophenone	10.645	3.9	ng	224303	3	9.933	1147700	20.0
n-Hexadecanoic ...	11.945	5.0	ng	281753	4	11.422	1125120	20.0
Heptadecyl trif...	13.904	2.9	ng	122975	5	14.068	850896	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142580.D
Acq On : 30 May 2025 20:14
Operator : RC/JU
Sample : Q2150-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-39

Quant Time: May 30 22:29:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

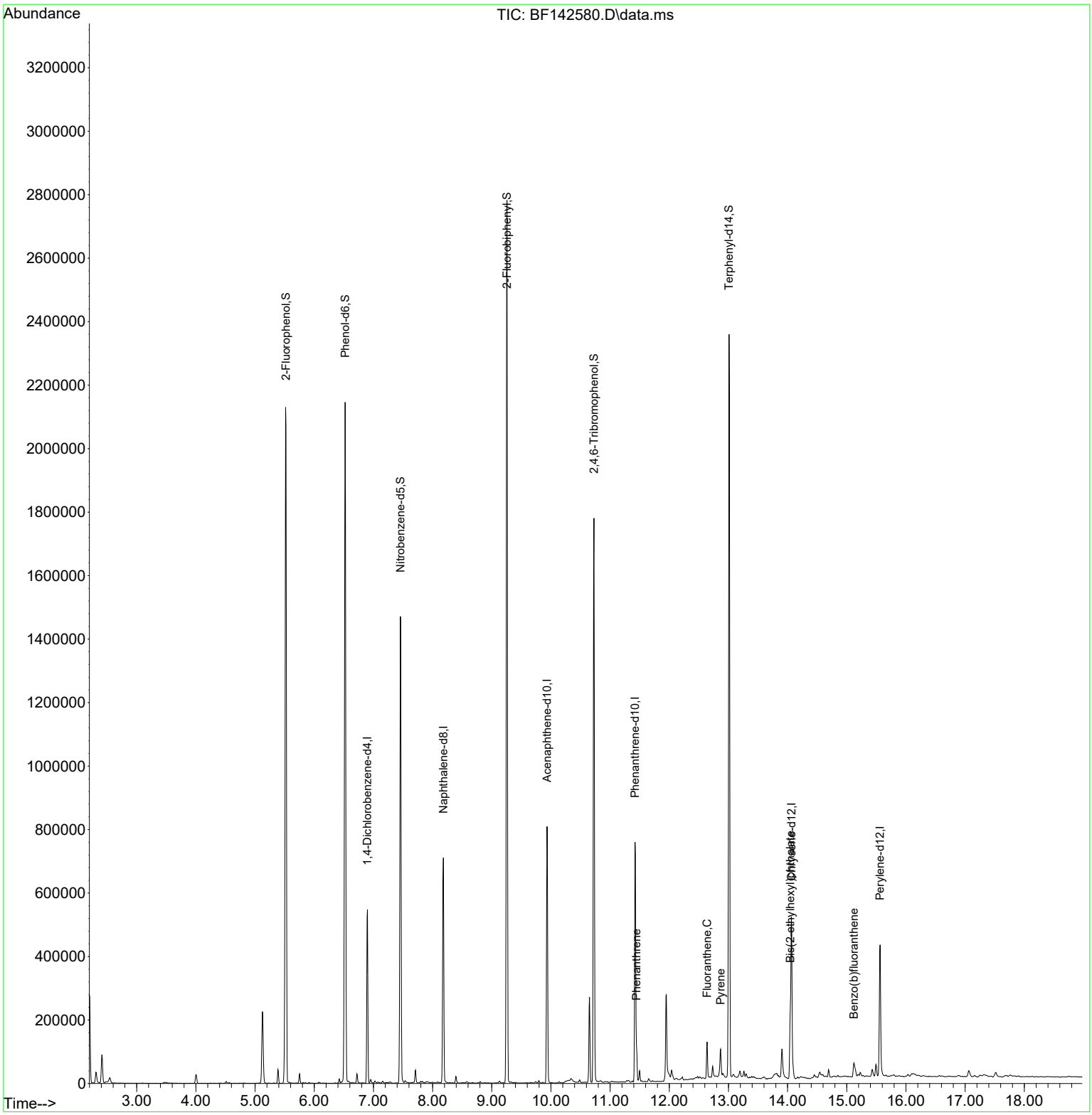
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	122275	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	460916	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	242076	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	399449	20.000	ng	-0.01
76) Chrysene-d12	14.068	240	234709	20.000	ng	0.00
86) Perylene-d12	15.562	264	243865	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	881832	121.502	ng	0.00
7) Phenol-d6	6.522	99	1097956	125.674	ng	-0.01
23) Nitrobenzene-d5	7.457	82	658106	77.857	ng	-0.02
42) 2,4,6-Tribromophenol	10.727	330	332339	123.696	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	1296910	71.890	ng	-0.01
79) Terphenyl-d14	13.010	244	1161574	67.630	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.445	178	51900	2.431	ng	99
75) Fluoranthene	12.639	202	64278	3.222	ng	99
78) Pyrene	12.868	202	52703	2.407	ng	98
84) Bis(2-ethylhexyl)phtha...	14.045	149	72176	9.319	ng	98
88) Benzo(b)fluoranthene	15.121	252	30210m	2.093	ng	

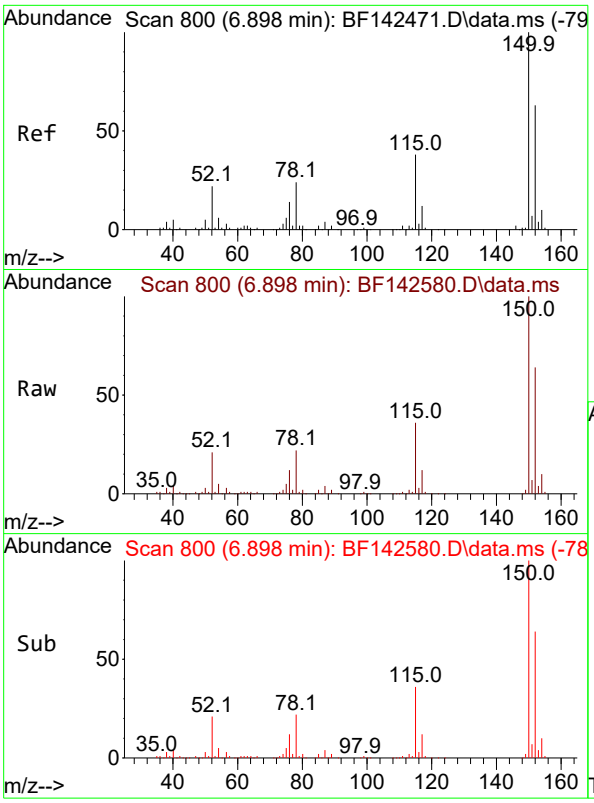
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142580.D
Acq On : 30 May 2025 20:14
Operator : RC/JU
Sample : Q2150-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-39

Quant Time: May 30 22:29:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



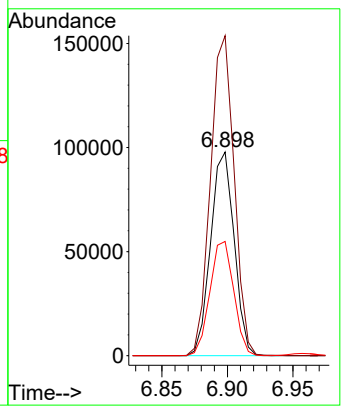


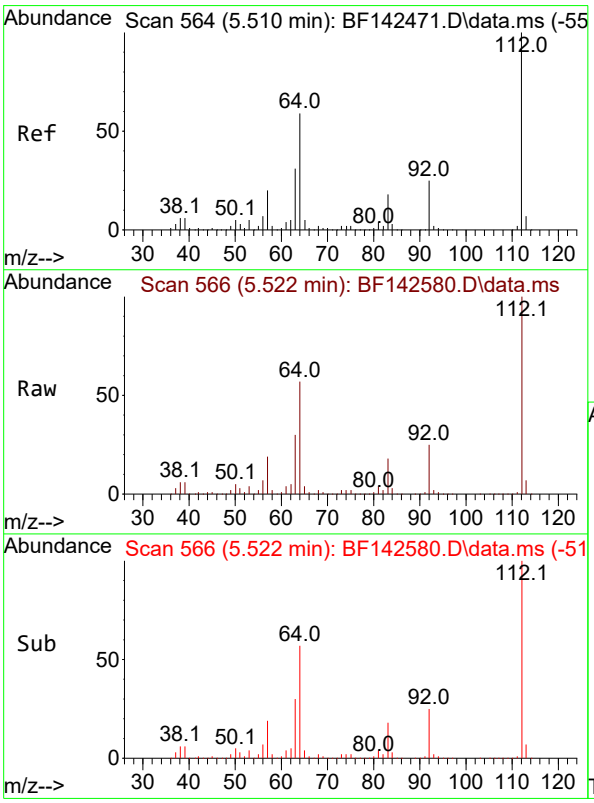
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142580.D
Acq: 30 May 2025 20:14

Instrument :
BNA_F
ClientSampleId :
TP-39

Tgt Ion:152 Resp: 122275

Ion	Ratio	Lower	Upper
152	100		
150	157.0	128.2	192.4
115	56.0	48.3	72.5

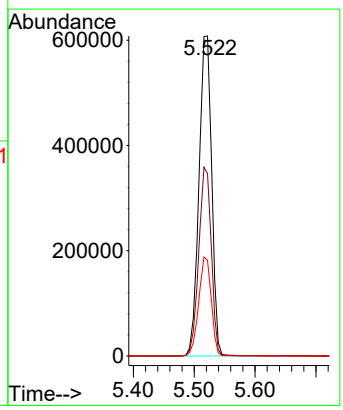


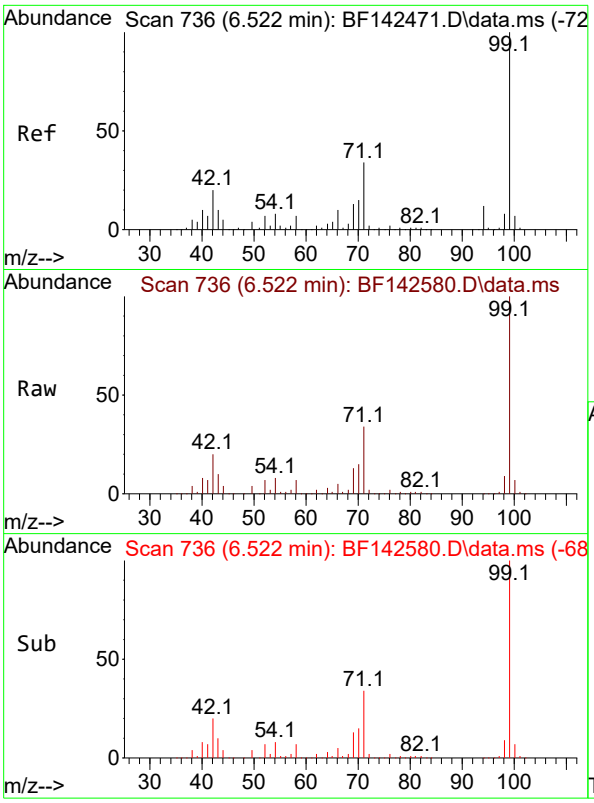


#5
2-Fluorophenol
Concen: 121.502 ng
RT: 5.522 min Scan# 566
Delta R.T. 0.006 min
Lab File: BF142580.D
Acq: 30 May 2025 20:14

Tgt Ion:112 Resp: 881832

Ion	Ratio	Lower	Upper
112	100		
64	57.0	47.5	71.3
63	29.8	24.9	37.3



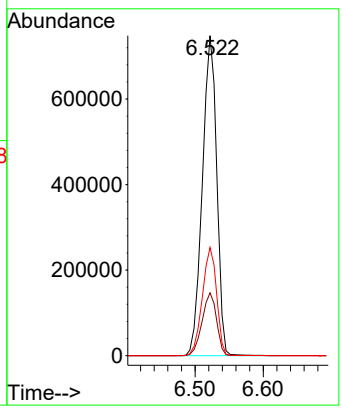


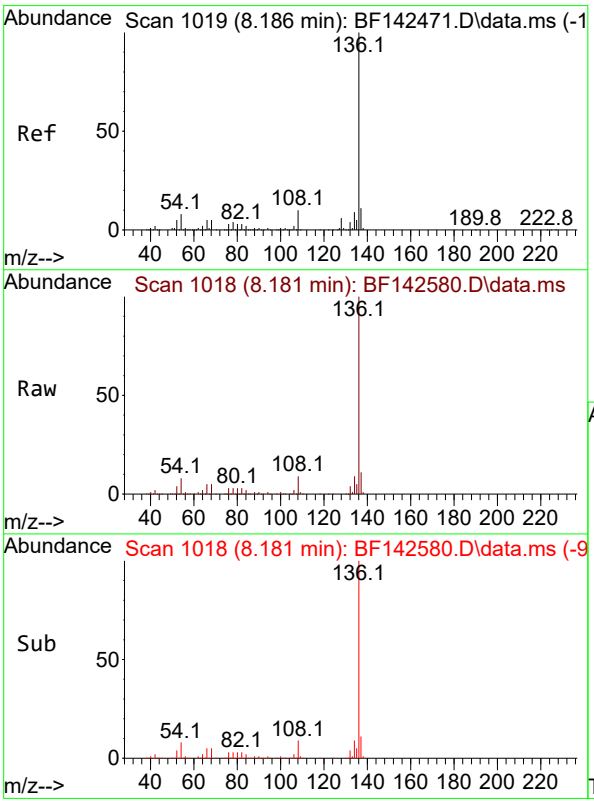
#7
Phenol-d6
Concen: 125.674 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142580.D
Acq: 30 May 2025 20:14

Instrument :
BNA_F
ClientSampleId :
TP-39

Tgt Ion: 99 Resp: 1097956

Ion	Ratio	Lower	Upper
99	100		
42	19.7	16.2	24.2
71	33.8	27.3	40.9

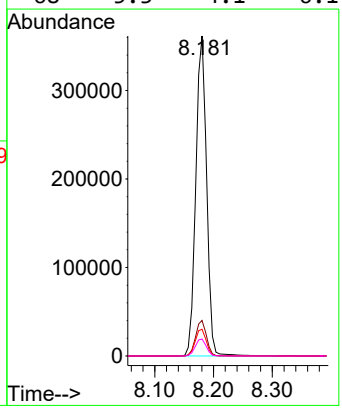


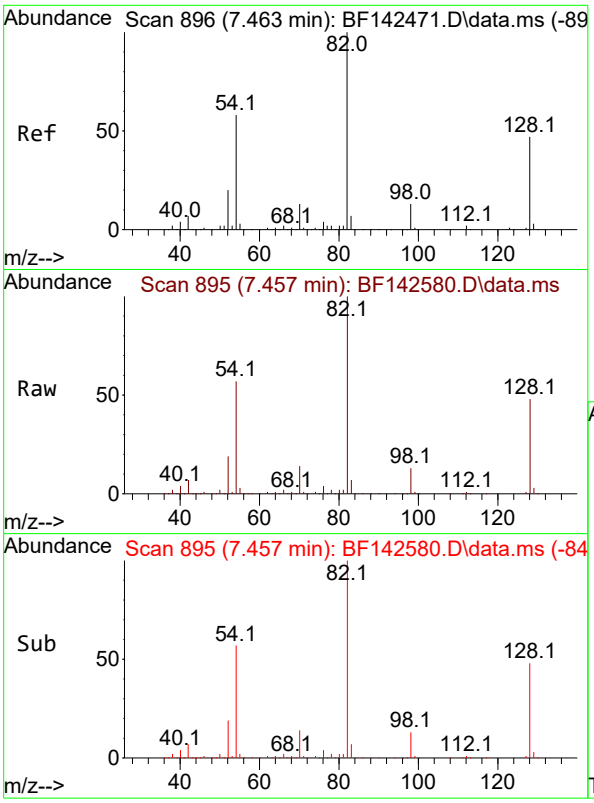


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142580.D
Acq: 30 May 2025 20:14

Tgt Ion:136 Resp: 460916

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	8.4	6.6	10.0
68	5.3	4.1	6.1



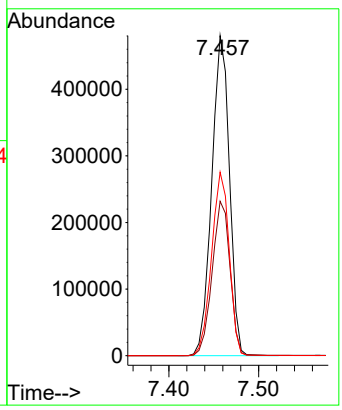


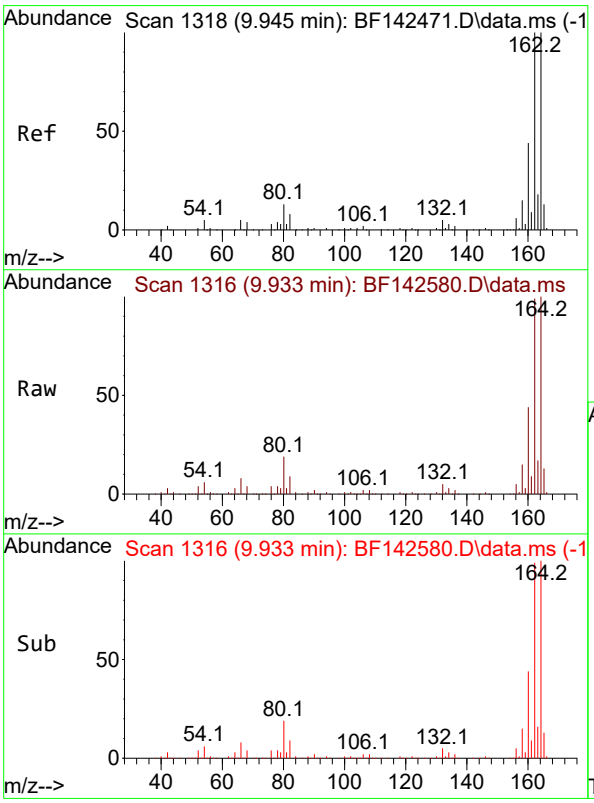
#23
Nitrobenzene-d5
Concen: 77.857 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142580.D
Acq: 30 May 2025 20:14

Instrument :
BNA_F
ClientSampleId :
TP-39

Tgt Ion: 82 Resp: 658106

Ion	Ratio	Lower	Upper
82	100		
128	48.2	37.4	56.2
54	57.4	46.6	70.0

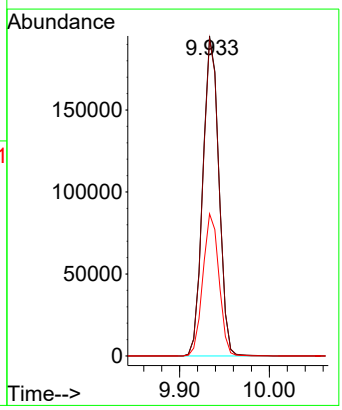


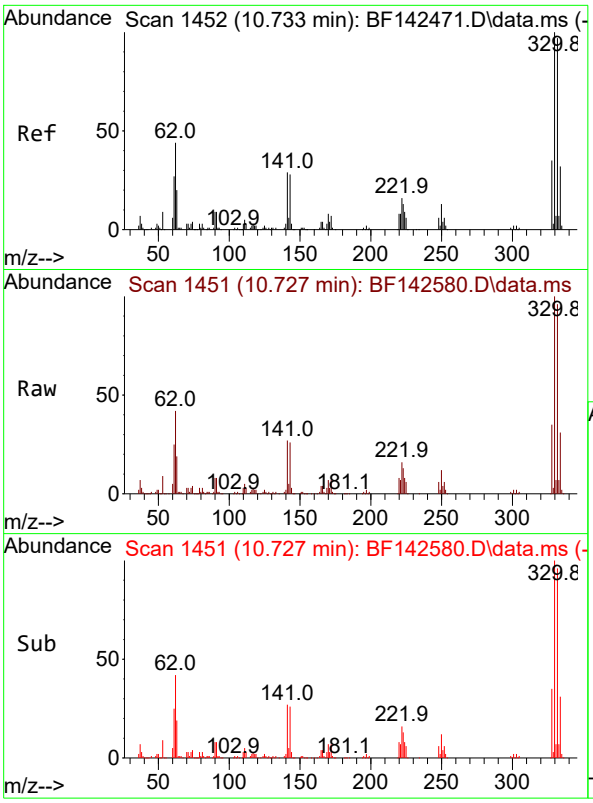


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142580.D
Acq: 30 May 2025 20:14

Tgt Ion:164 Resp: 242076

Ion	Ratio	Lower	Upper
164	100		
162	99.1	80.2	120.4
160	44.4	35.6	53.4



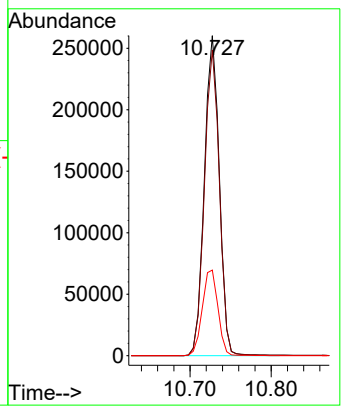


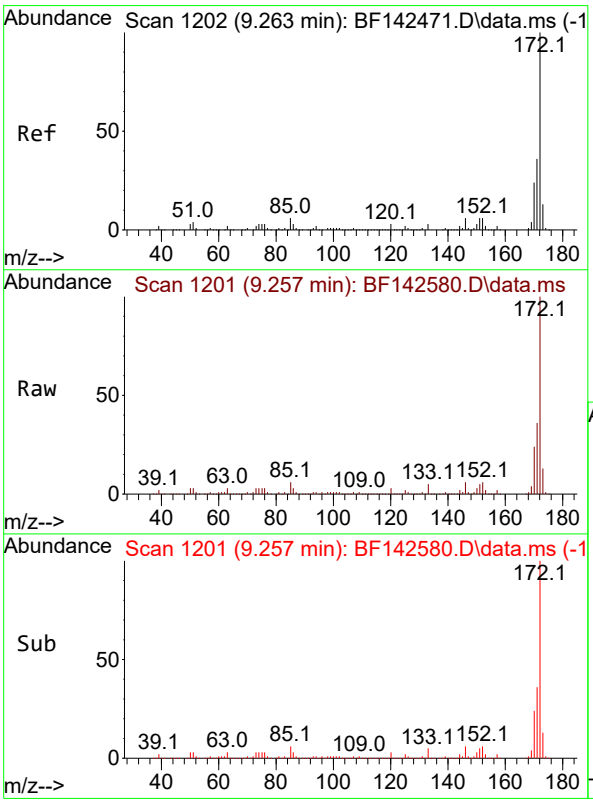
#42
2,4,6-Tribromophenol
Concen: 123.696 ng
RT: 10.727 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142580.D
Acq: 30 May 2025 20:14

Instrument :
BNA_F
ClientSampleId :
TP-39

Tgt Ion:330 Resp: 332339

Ion	Ratio	Lower	Upper
330	100		
332	96.0	77.6	116.4
141	28.1	24.6	36.8

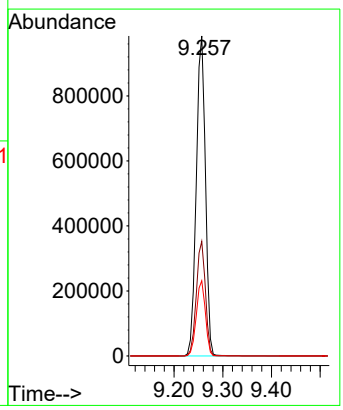


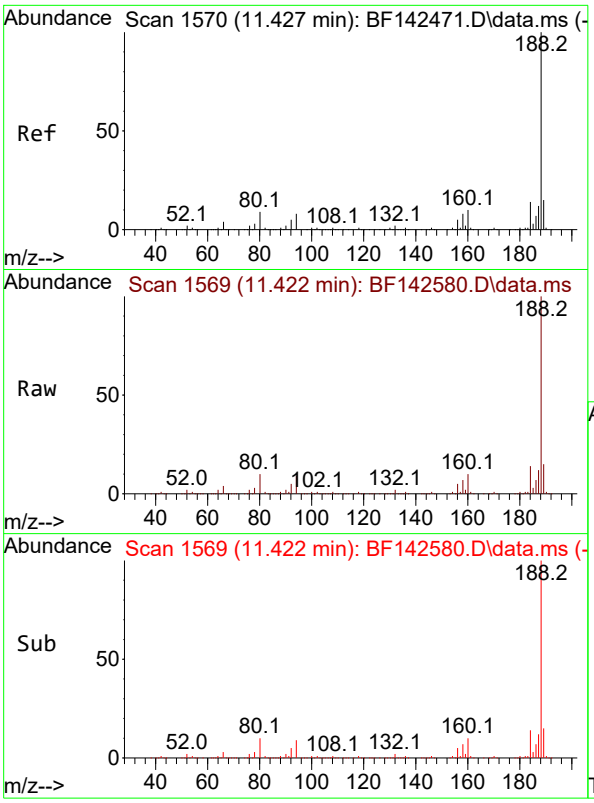


#45
2-Fluorobiphenyl
Concen: 71.890 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142580.D
Acq: 30 May 2025 20:14

Tgt Ion:172 Resp: 1296910

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	42.8
170	23.5	18.9	28.3



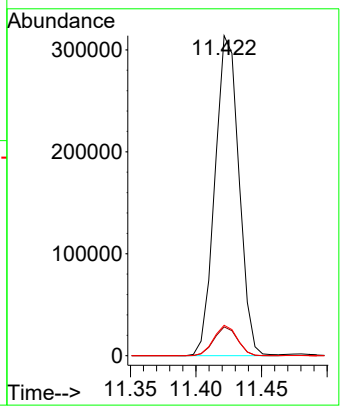


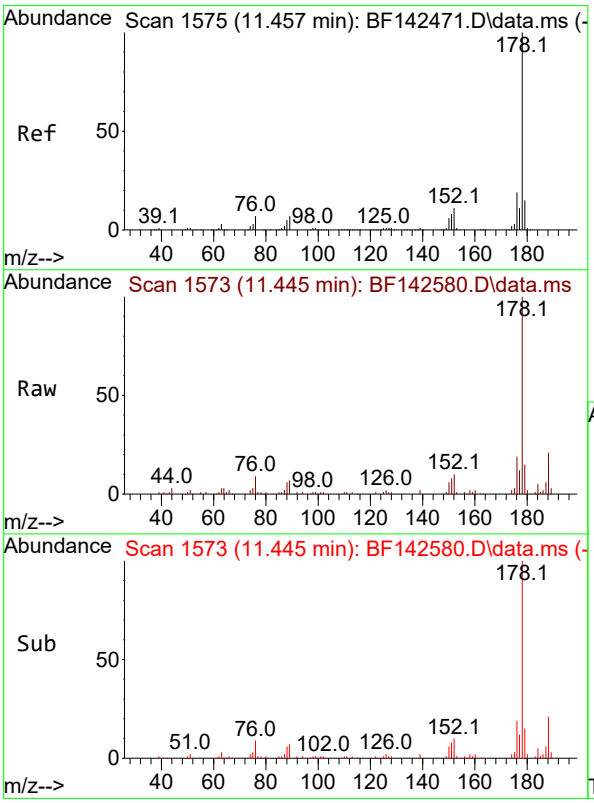
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142580.D
Acq: 30 May 2025 20:14

Instrument :
BNA_F
ClientSampleId :
TP-39

Tgt Ion:188 Resp: 399449

Ion	Ratio	Lower	Upper
188	100		
94	9.0	6.6	10.0
80	9.5	7.4	11.0

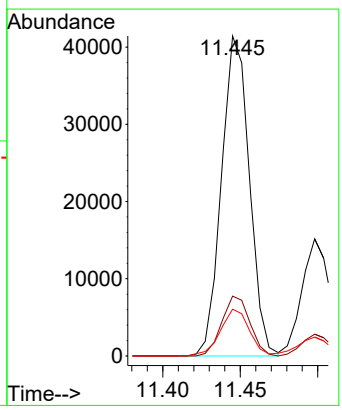


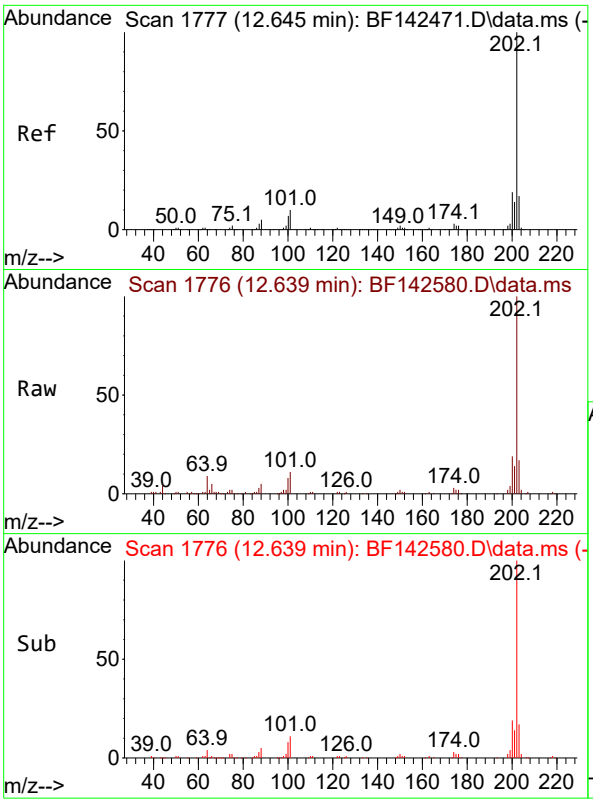


#71
Phenanthrene
Concen: 2.431 ng
RT: 11.445 min Scan# 1573
Delta R.T. -0.012 min
Lab File: BF142580.D
Acq: 30 May 2025 20:14

Tgt Ion:178 Resp: 51900

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.0
179	14.6	12.3	18.5



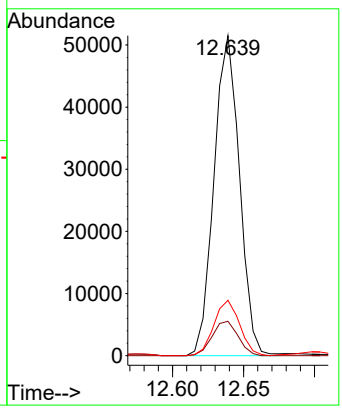


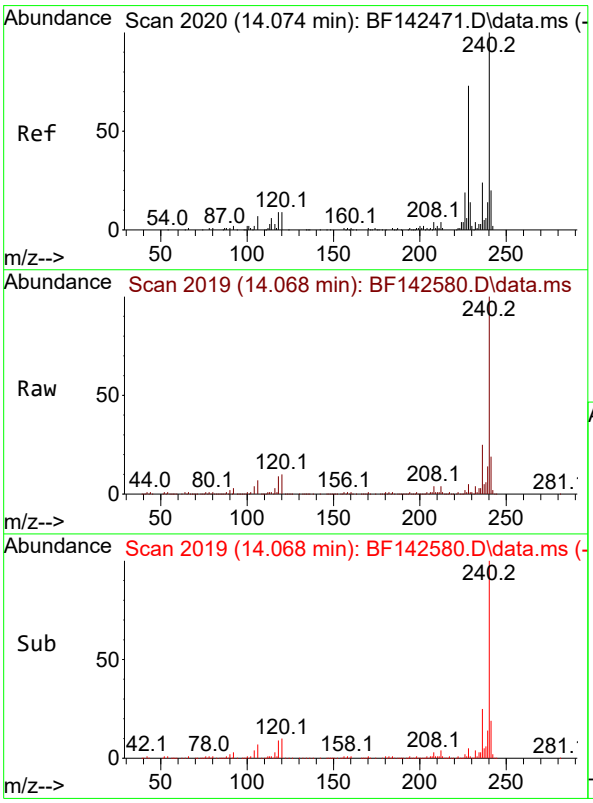
#75
Fluoranthene
Concen: 3.222 ng
RT: 12.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142580.D
Acq: 30 May 2025 20:14

Instrument :
BNA_F
ClientSampleId :
TP-39

Tgt Ion:202 Resp: 64278

Ion	Ratio	Lower	Upper
202	100		
101	10.8	0.0	29.6
203	17.3	0.0	37.2

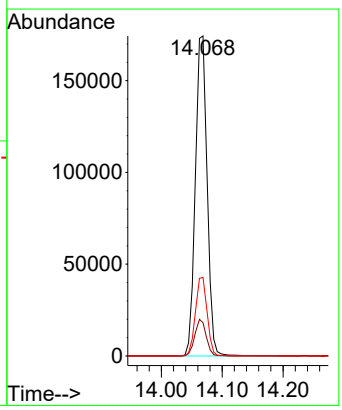


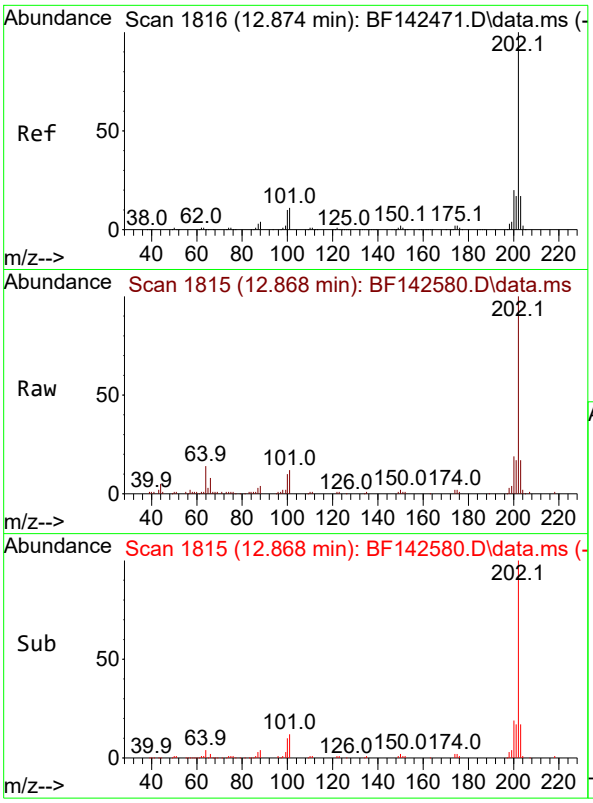


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142580.D
Acq: 30 May 2025 20:14

Tgt Ion:240 Resp: 234709

Ion	Ratio	Lower	Upper
240	100		
120	10.4	7.5	11.3
236	24.5	19.6	29.4



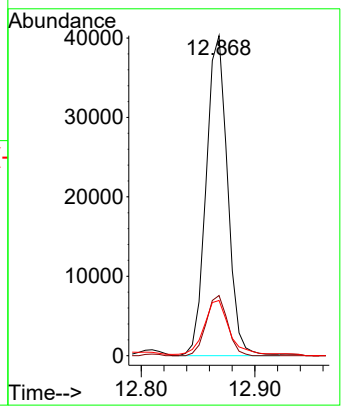


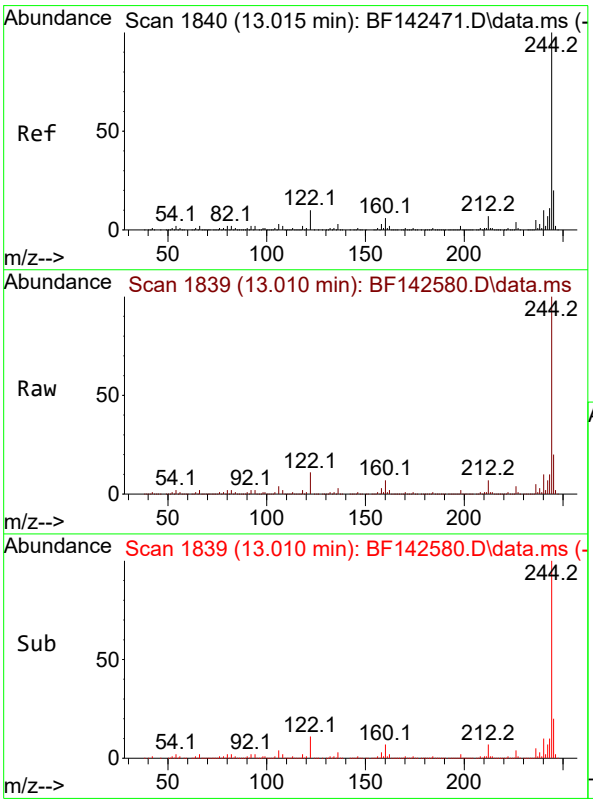
#78
Pyrene
Concen: 2.407 ng
RT: 12.868 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142580.D
Acq: 30 May 2025 20:14

Instrument :
BNA_F
ClientSampleId :
TP-39

Tgt Ion:202 Resp: 52703

Ion	Ratio	Lower	Upper
202	100		
200	18.8	16.1	24.1
203	17.2	13.9	20.9

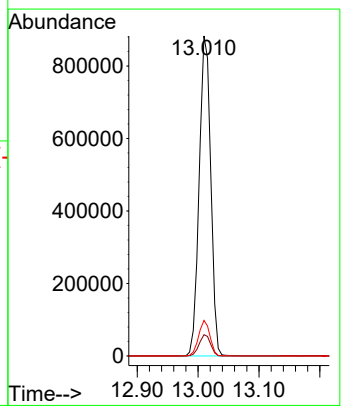


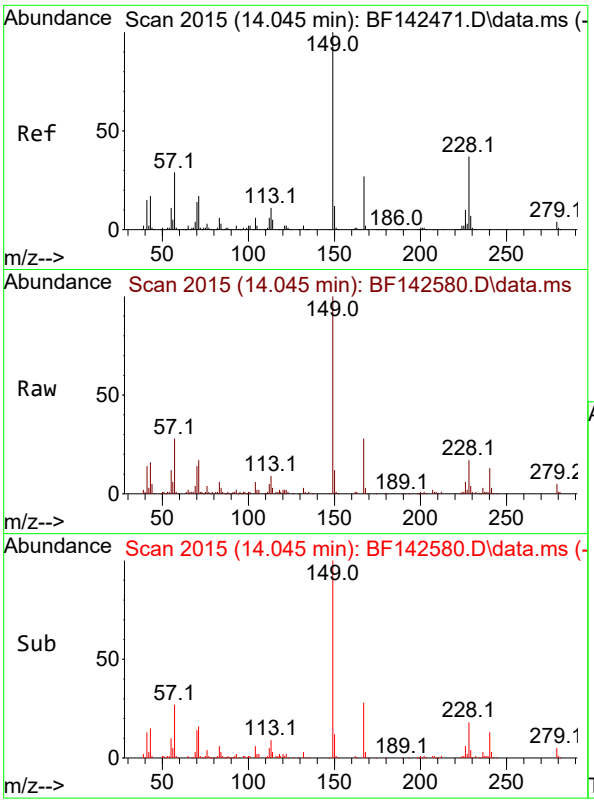


#79
Terphenyl-d14
Concen: 67.630 ng
RT: 13.010 min Scan# 1839
Delta R.T. -0.006 min
Lab File: BF142580.D
Acq: 30 May 2025 20:14

Tgt Ion:244 Resp: 1161574

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.3	7.9
122	11.1	8.2	12.2



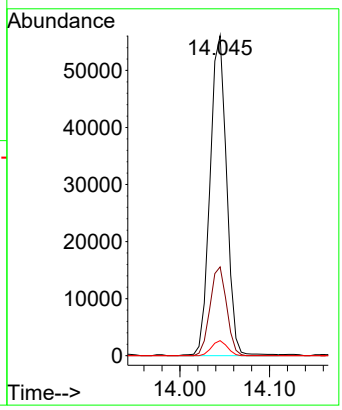


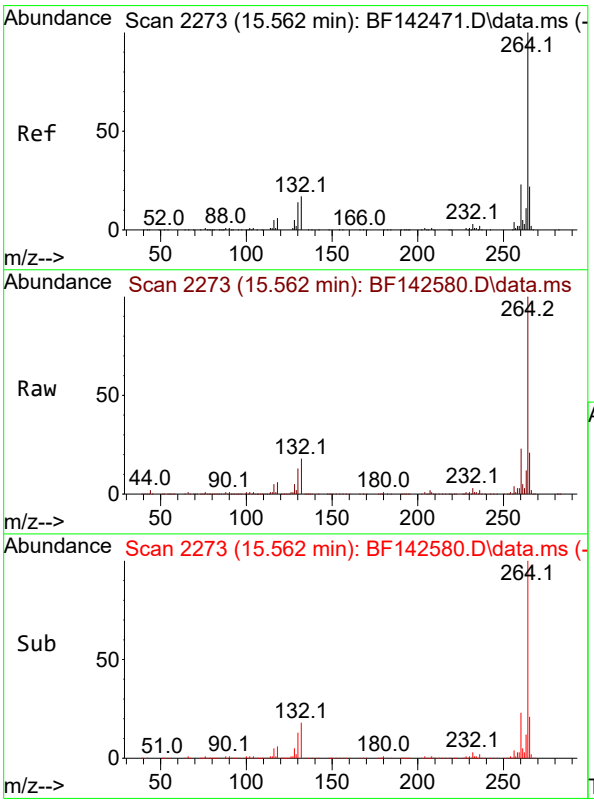
#84
Bis(2-ethylhexyl)phthalate
Concen: 9.319 ng
RT: 14.045 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142580.D
Acq: 30 May 2025 20:14

Instrument :
BNA_F
ClientSampleId :
TP-39

Tgt Ion:149 Resp: 72176

Ion	Ratio	Lower	Upper
149	100		
167	27.7	21.5	32.3
279	4.7	3.2	4.8

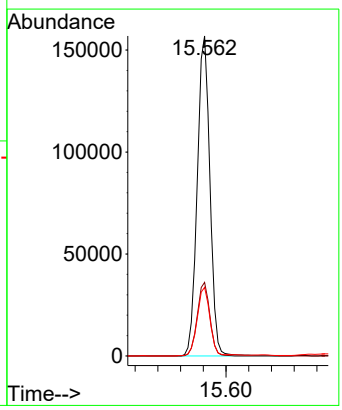


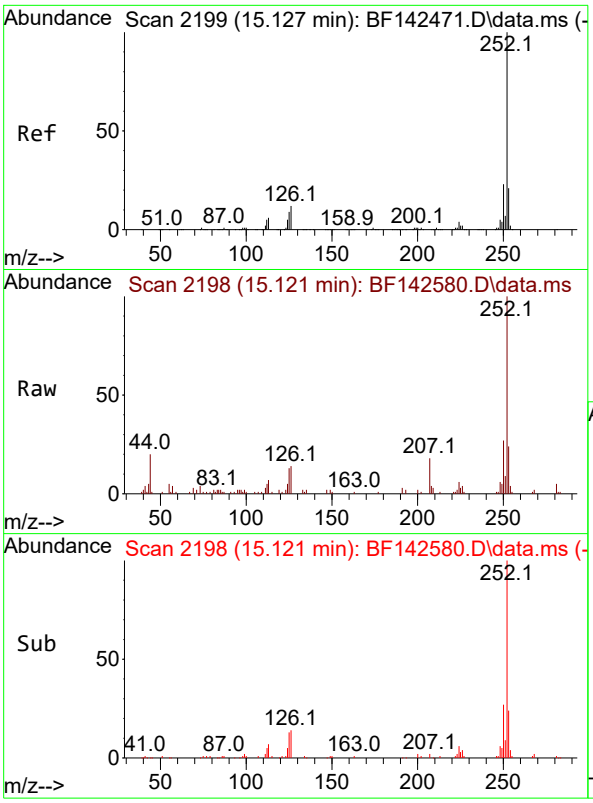


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142580.D
Acq: 30 May 2025 20:14

Tgt Ion:264 Resp: 243865

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.6	28.0
265	21.5	17.7	26.5



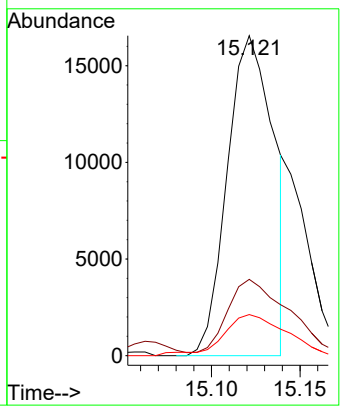


#88
Benzo(b)fluoranthene
Concen: 2.093 ng m
RT: 15.121 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142580.D
Acq: 30 May 2025 20:14

Instrument :
BNA_F
ClientSampleId :
TP-39

Tgt Ion:252 Resp: 30210

Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.0	25.4
125	12.9	7.4	11.0#



Sample Results: **BF142580.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142580.D
Acq On : 30 May 2025 20:14
Operator : RC/JU
Sample : Q2150-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-39

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142580.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.310	12	20	31	rBV2	33588	60128	1.64%	0.240%
2	2.410	31	37	44	rVB	88497	140598	3.84%	0.561%
3	4.004	299	308	316	rBV	27508	44396	1.21%	0.177%
4	5.122	487	498	507	rBV	225791	372705	10.18%	1.487%
5	5.387	538	543	548	rVB	42918	53795	1.47%	0.215%
6	5.516	556	565	571	rBV	2129479	3094571	84.54%	12.343%
7	6.522	726	736	741	rBV	2142221	3166768	86.51%	12.631%
8	6.722	765	770	776	rBV2	28795	37009	1.01%	0.148%
9	6.898	794	800	805	rBV	547254	693801	18.95%	2.767%
10	7.457	888	895	900	rBV	1469913	2021148	55.22%	8.061%
11	7.710	933	938	946	rVB	39662	52923	1.45%	0.211%
12	8.181	1012	1018	1032	rVB	709119	910743	24.88%	3.632%
13	9.257	1194	1201	1206	rBV	2780800	3660397	100.00%	14.599%
14	9.933	1311	1316	1328	rVB	807758	1003179	27.41%	4.001%
15	10.651	1432	1438	1445	rBV	268098	334321	9.13%	1.333%
16	10.727	1445	1451	1456	rBV	1776778	2335126	63.79%	9.314%
17	11.422	1564	1569	1578	rBV2	755144	1081310	29.54%	4.313%
18	11.498	1578	1582	1586	rVB	32386	40489	1.11%	0.161%
19	11.951	1650	1659	1670	rBV3	273057	465643	12.72%	1.857%
20	12.039	1670	1674	1682	rVB2	29559	58024	1.59%	0.231%
21	12.639	1771	1776	1781	rBV	115271	149091	4.07%	0.595%
22	12.733	1788	1792	1799	rBV	34064	51446	1.41%	0.205%
23	12.868	1808	1815	1819	rBV2	85115	127187	3.47%	0.507%
24	13.010	1833	1839	1845	rBV	2337381	3054203	83.44%	12.182%
25	13.192	1863	1870	1875	rBV2	19775	36865	1.01%	0.147%
26	13.904	1986	1991	2009	rVB	93928	177374	4.85%	0.707%
27	14.063	2010	2018	2030	rVB2	510537	986172	26.94%	3.933%
28	15.121	2193	2198	2206	rBV	44170	101833	2.78%	0.406%
29	15.492	2256	2261	2266	rBV	36639	55069	1.50%	0.220%
30	15.562	2266	2273	2285	rVV	412791	663248	18.12%	2.645%
31	17.062	2523	2528	2537	rVB2	19244	42728	1.17%	0.170%

Sum of corrected areas: 25072290

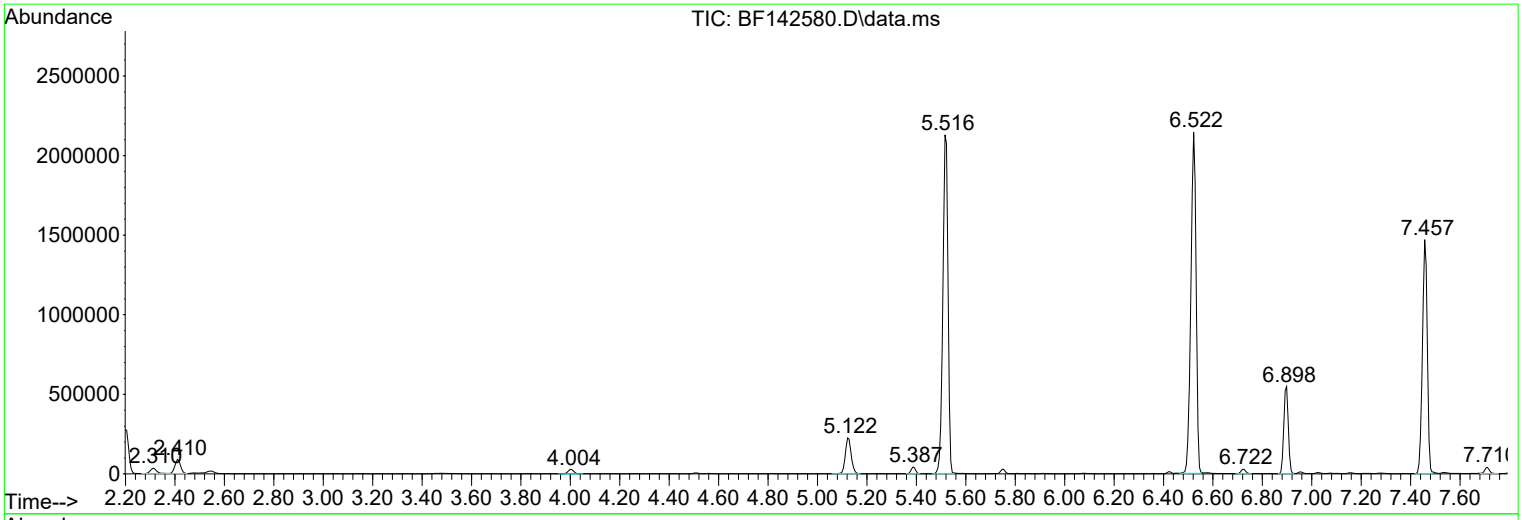
Sample Results: **BF142580.D**

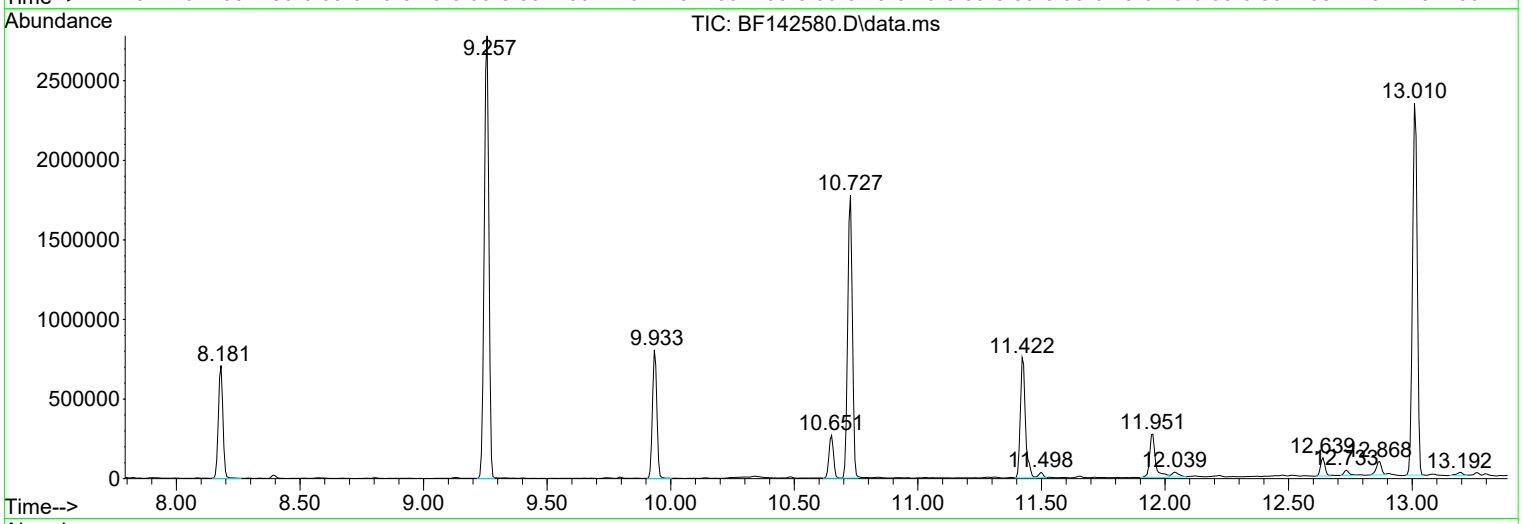
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142580.D
Acq On : 30 May 2025 20:14
Operator : RC/JU
Sample : Q2150-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

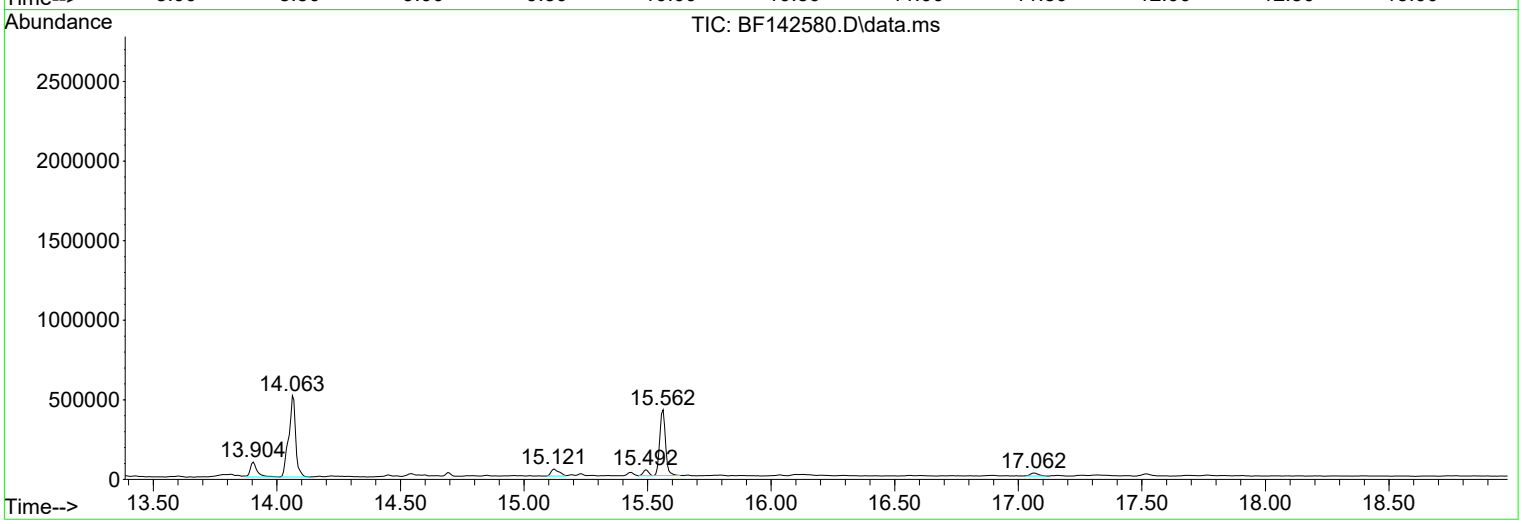
Instrument :
BNA_F
ClientSampleId :
TP-39

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.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\BF053025\
Data File : BF142580.D
Acq On : 30 May 2025 20:14
Operator : RC/JU
Sample : Q2150-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-39

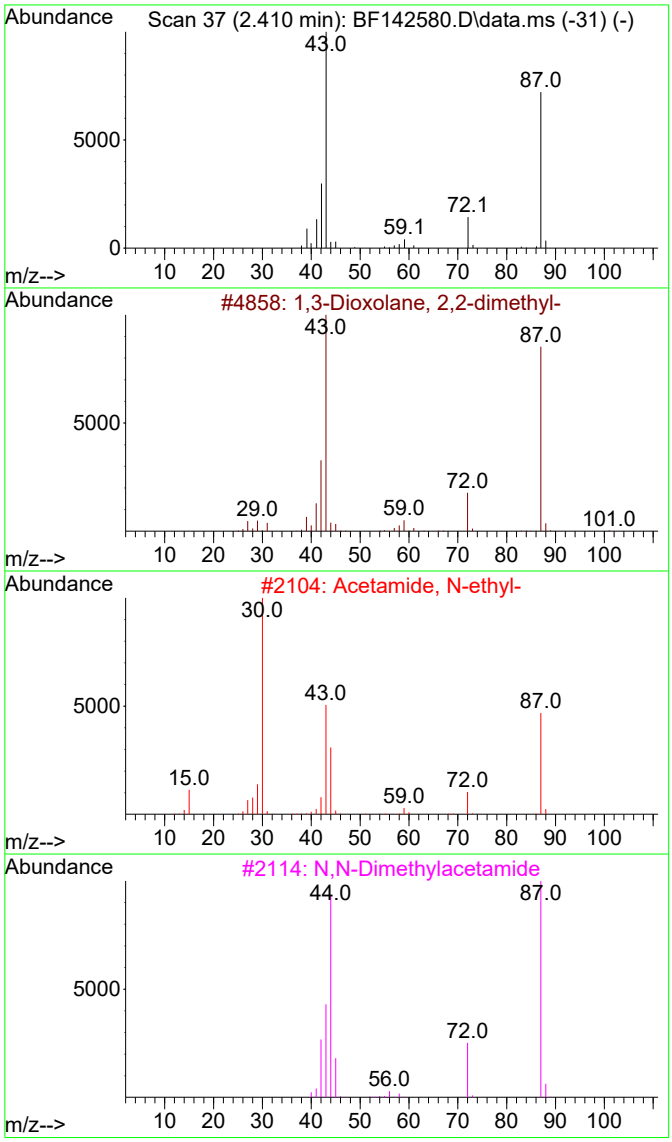
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

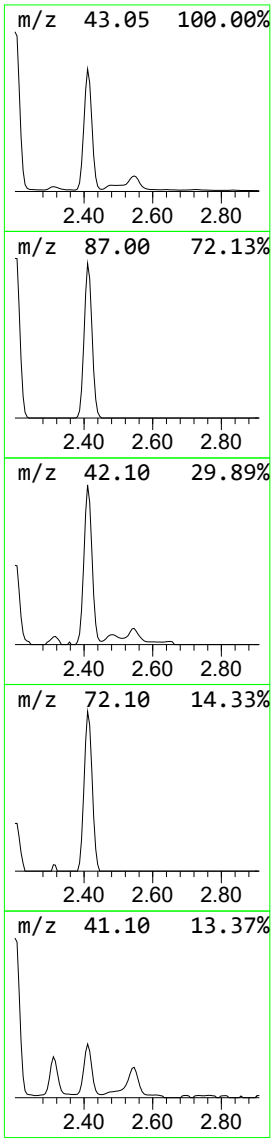
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 1,3-Dioxolane, 2,2-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.410	4.05 ng	140598	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	102	C5H10O2	002916-31-6	90
2	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	64
3	N,N-Dimethylacetamide	87	C4H9NO	000127-19-5	47
4	2-Propanone, O-methyloxime	87	C4H9NO	003376-35-0	43
5	Ethanol, 2,2'-oxybis-, diacetate	190	C8H14O5	000628-68-2	38





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142580.D
Acq On : 30 May 2025 20:14
Operator : RC/JU
Sample : Q2150-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-39

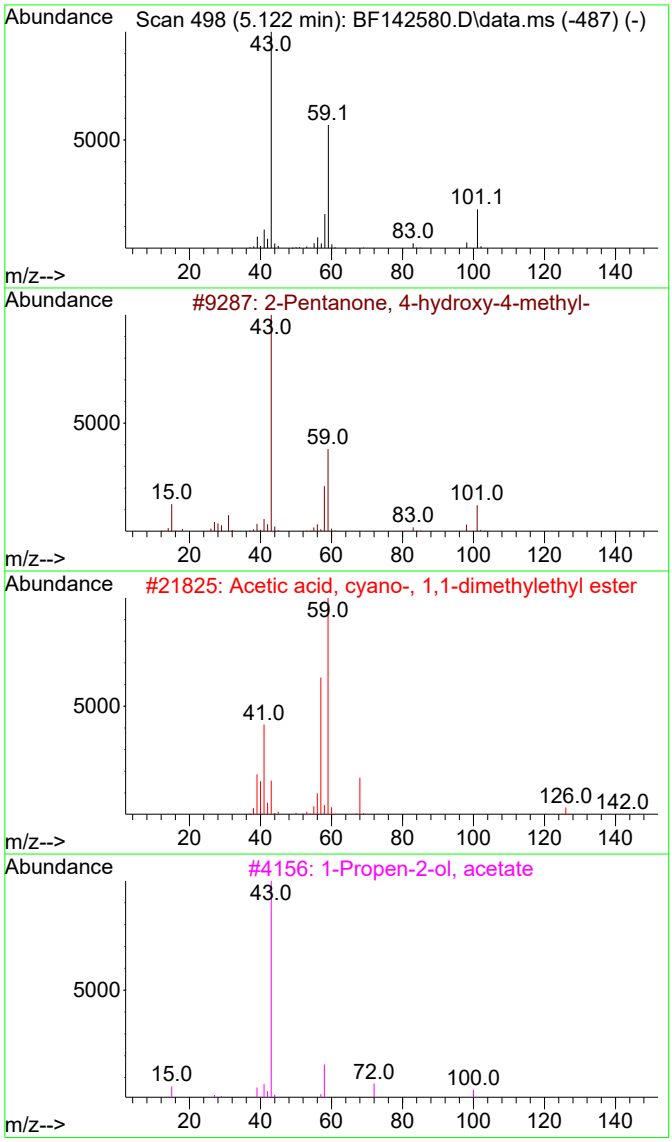
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

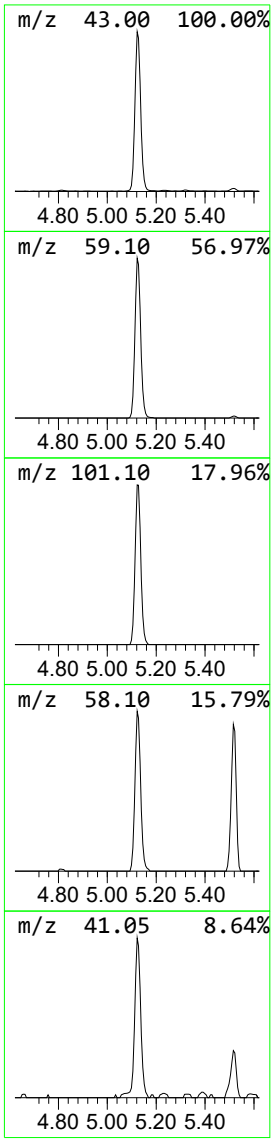
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.122	10.74 ng	372705	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5	Ethanol, pentamethyl-	116	C7H16O	000594-83-2	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142580.D
Acq On : 30 May 2025 20:14
Operator : RC/JU
Sample : Q2150-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-39

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

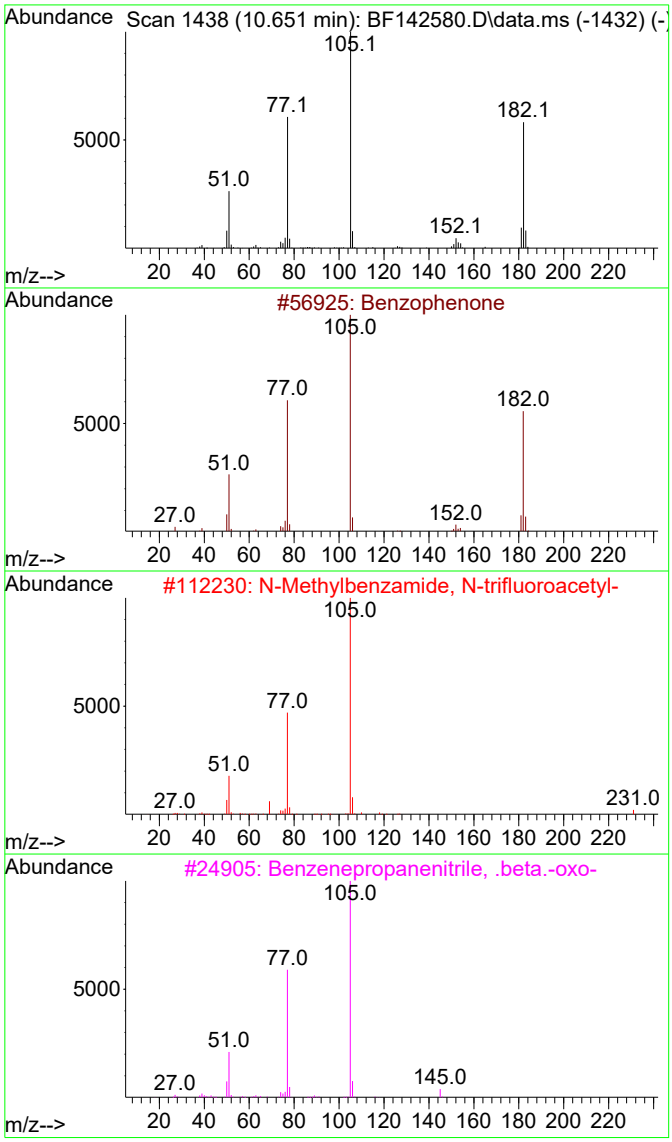
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

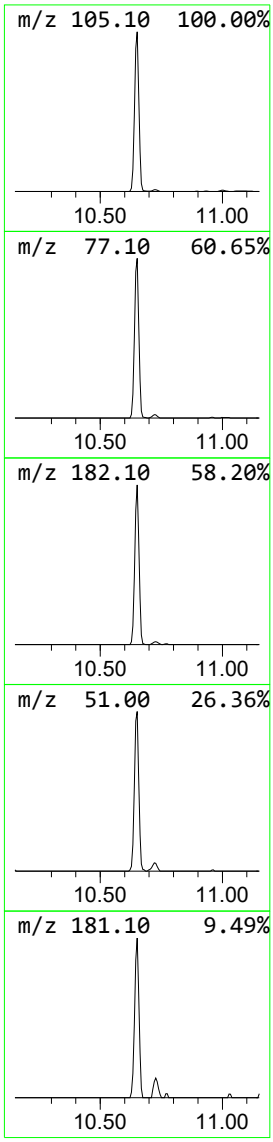
****

Peak Number 3 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	6.67 ng	334321	Acenaphthene-d10	9.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	N-Methylbenzamide, N-trifluoroac...	231	C10H8F3NO2	1000446-91-5	47
3	Benzenepropanenitrile, .beta.-oxo-	145	C9H7NO	000614-16-4	47
4	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47
5	acetic acid, 2-bromo-, 2-oxo-2-p...	256	C10H9BrO3	1000401-50-0	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142580.D
Acq On : 30 May 2025 20:14
Operator : RC/JU
Sample : Q2150-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-39

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

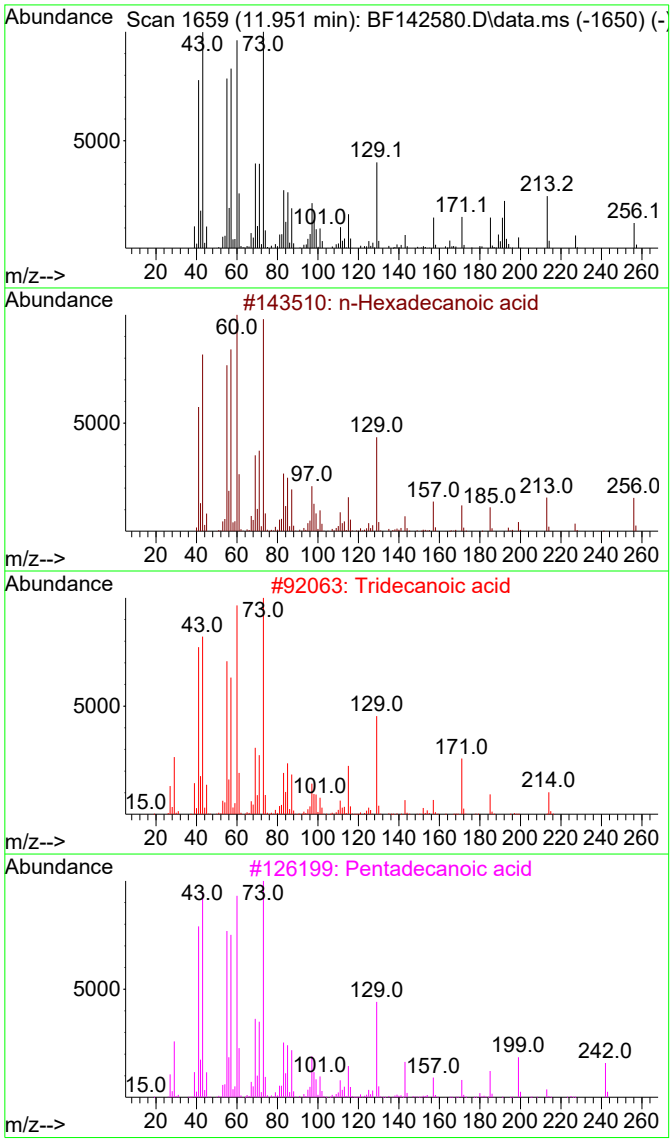
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

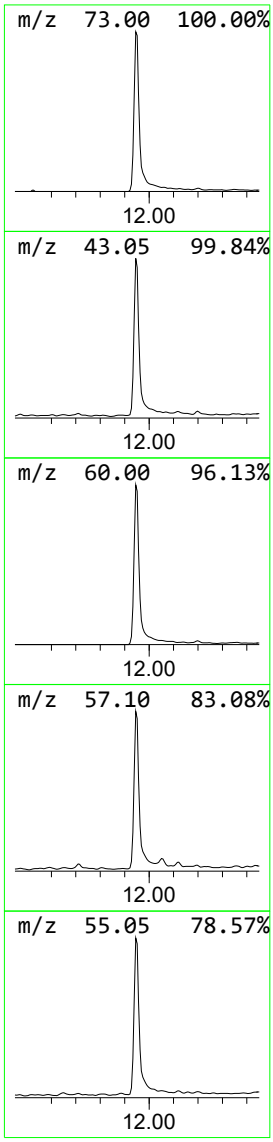
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.951	8.61 ng	465643	Phenanthrene-d10	11.422

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	91
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	74
5	n-Decanoic acid	172	C10H20O2	000334-48-5	60





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142580.D
Acq On : 30 May 2025 20:14
Operator : RC/JU
Sample : Q2150-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-39

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

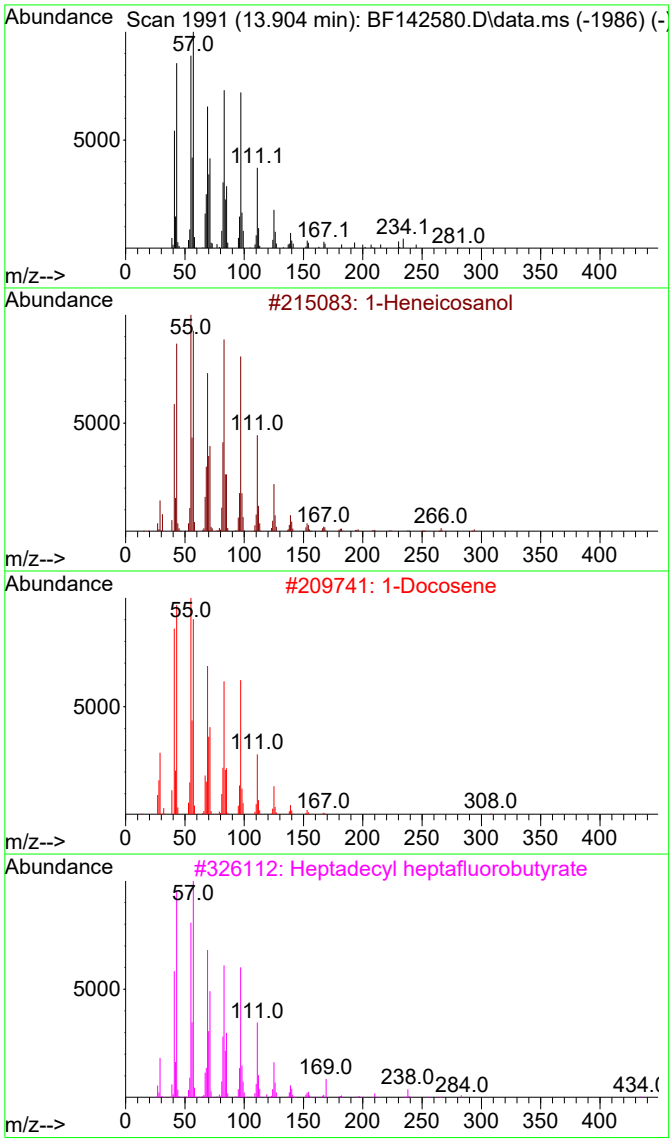
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

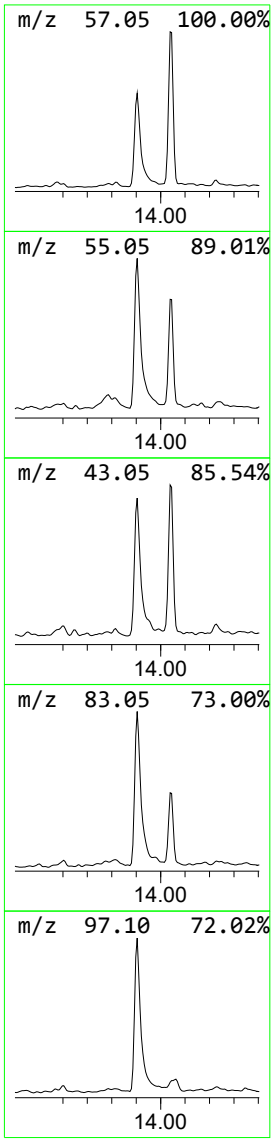
****

Peak Number 5 1-Heneicosanol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	3.60 ng	177374	Chrysene-d12	14.068

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	95
2	1-Docosene	308	C22H44	001599-67-3	94
3	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94
4	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	94
5	n-Tetracosanol-1	354	C24H50O	000506-51-4	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142580.D
Acq On : 30 May 2025 20:14
Operator : RC/JU
Sample : Q2150-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-39

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
1,3-Dioxolane, ...	2.410	4.0	ng	140598	1	6.898	693801	20.0
2-Pentanone, 4-...	5.122	10.7	ng	372705	1	6.898	693801	20.0
Benzophenone	10.651	6.7	ng	334321	3	9.933	1003180	20.0
n-Hexadecanoic ...	11.951	8.6	ng	465643	4	11.422	1081310	20.0
1-Heneicosanol	13.904	3.6	ng	177374	5	14.068	986172	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142581.D
Acq On : 30 May 2025 20:43
Operator : RC/JU
Sample : Q2150-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-48

Quant Time: May 30 22:29:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

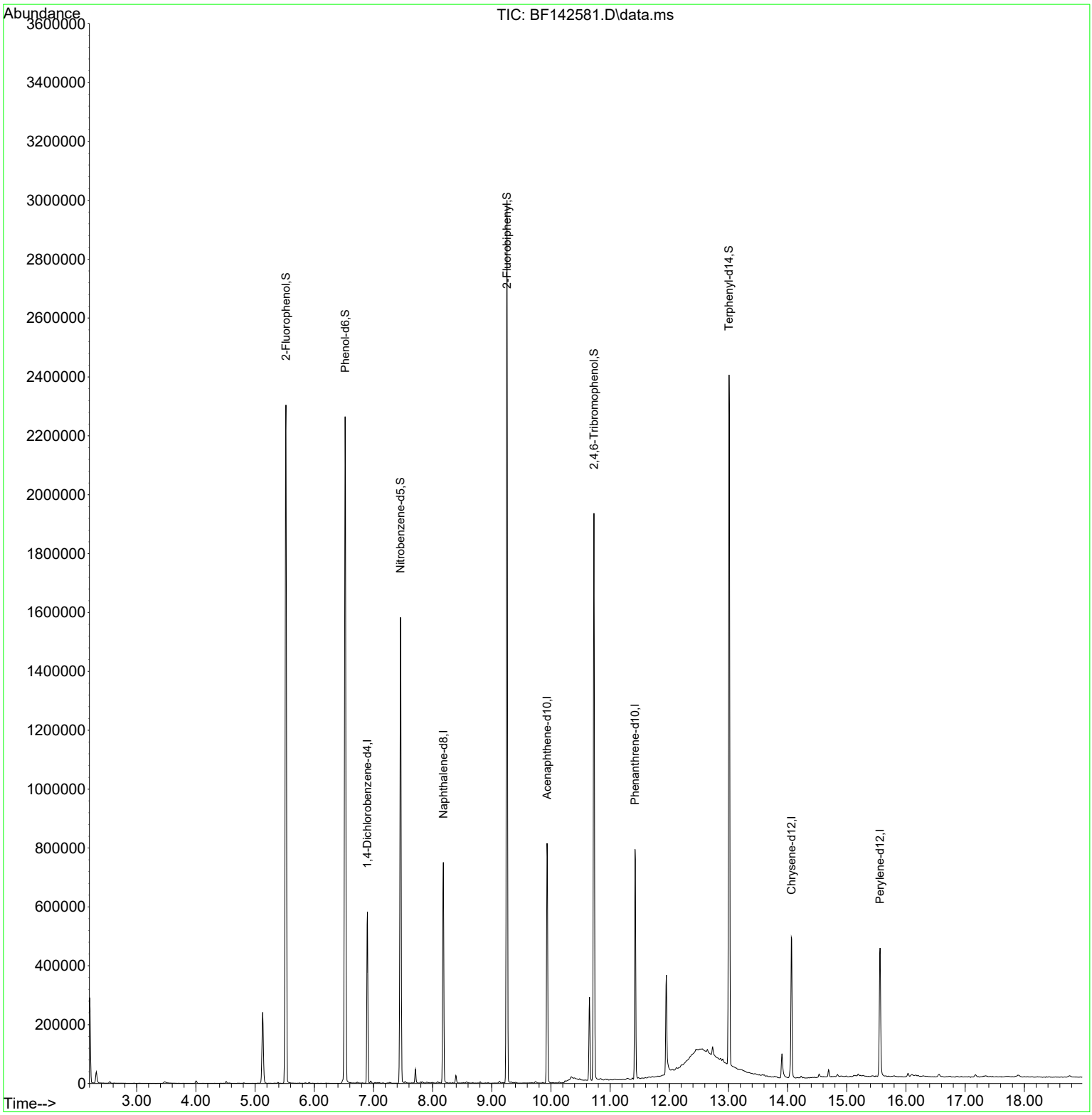
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	128466	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	478682	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	251559	20.000	ng	-0.01
64) Phenanthrene-d10	11.421	188	419835	20.000	ng	-0.01
76) Chrysene-d12	14.068	240	239865	20.000	ng	0.00
86) Perylene-d12	15.562	264	260798	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	973305	127.643	ng	0.00
7) Phenol-d6	6.522	99	1194091	130.091	ng	-0.01
23) Nitrobenzene-d5	7.457	82	728299	82.964	ng	-0.02
42) 2,4,6-Tribromophenol	10.727	330	357324	127.982	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	1386957	73.983	ng	-0.01
79) Terphenyl-d14	13.010	244	1184744	67.497	ng	0.00
Target Compounds						Qvalue

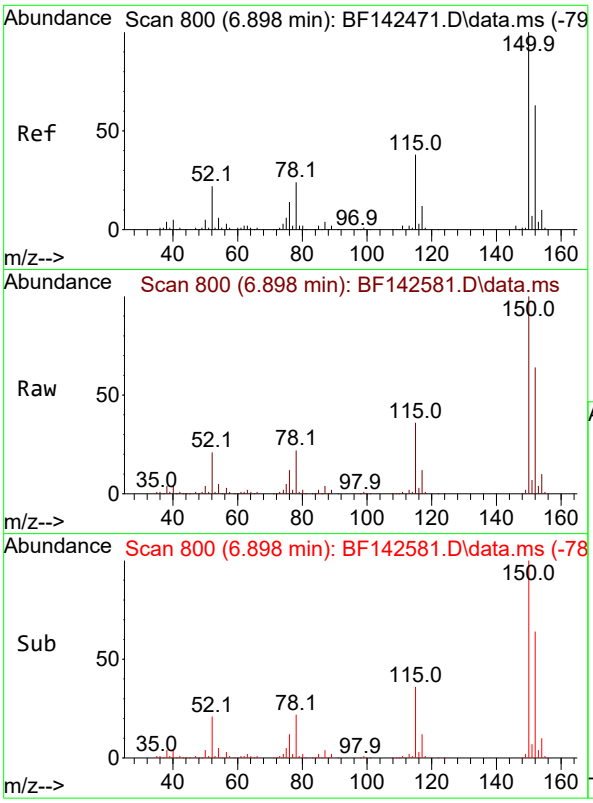
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142581.D
Acq On : 30 May 2025 20:43
Operator : RC/JU
Sample : Q2150-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-48

Quant Time: May 30 22:29:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



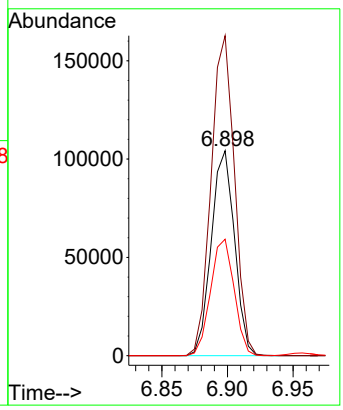


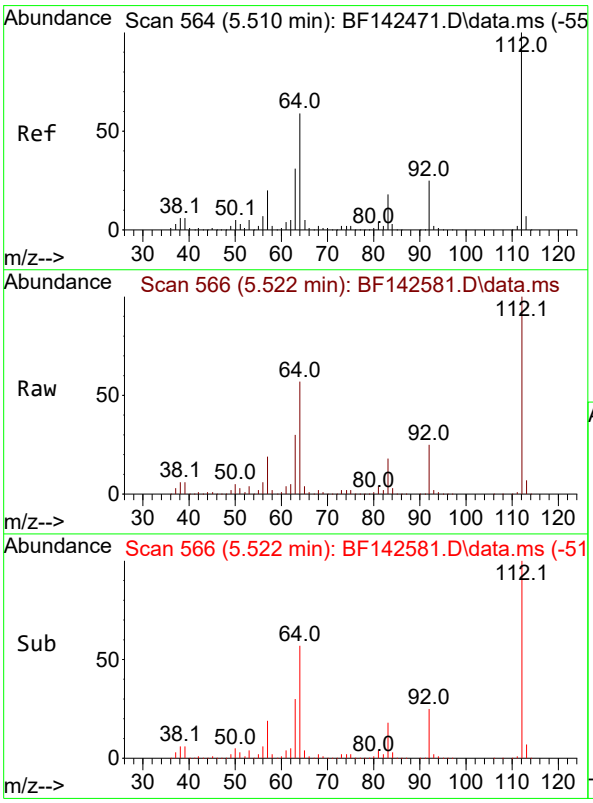
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142581.D
Acq: 30 May 2025 20:43

Instrument :
BNA_F
ClientSampleId :
TP-48

Tgt Ion:152 Resp: 128466

Ion	Ratio	Lower	Upper
152	100		
150	156.1	128.2	192.4
115	56.8	48.3	72.5

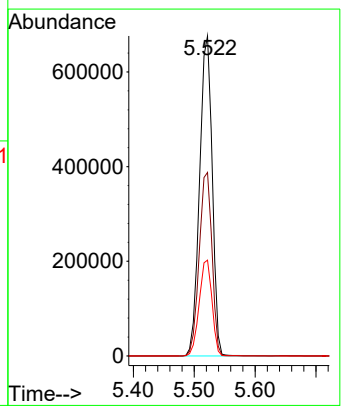


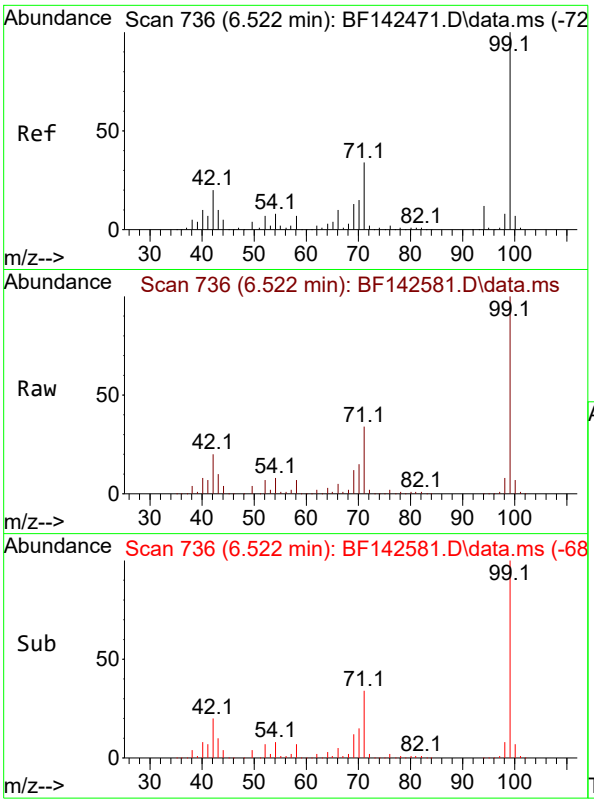


#5
2-Fluorophenol
Concen: 127.643 ng
RT: 5.522 min Scan# 566
Delta R.T. 0.006 min
Lab File: BF142581.D
Acq: 30 May 2025 20:43

Tgt Ion:112 Resp: 973305

Ion	Ratio	Lower	Upper
112	100		
64	57.3	47.5	71.3
63	30.0	24.9	37.3



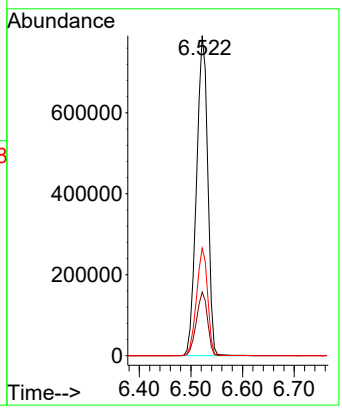


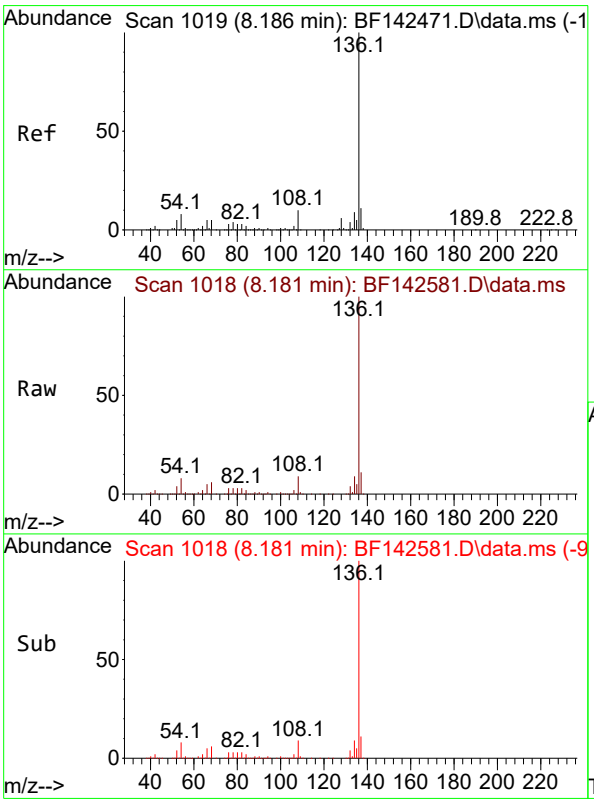
#7
Phenol-d6
Concen: 130.091 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142581.D
Acq: 30 May 2025 20:43

Instrument :
BNA_F
ClientSampleId :
TP-48

Tgt Ion: 99 Resp: 1194091

Ion	Ratio	Lower	Upper
99	100		
42	19.8	16.2	24.2
71	33.6	27.3	40.9

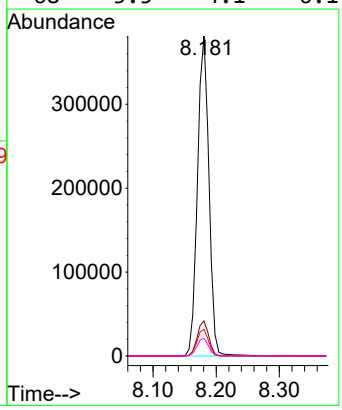


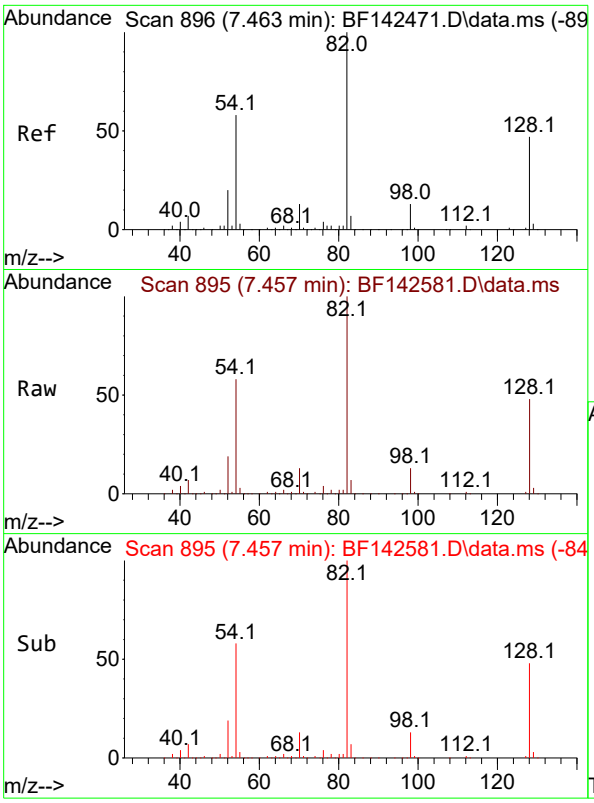


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142581.D
Acq: 30 May 2025 20:43

Tgt Ion:136 Resp: 478682

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.3	6.6	10.0
68	5.5	4.1	6.1



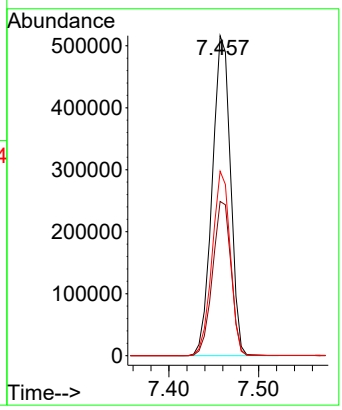


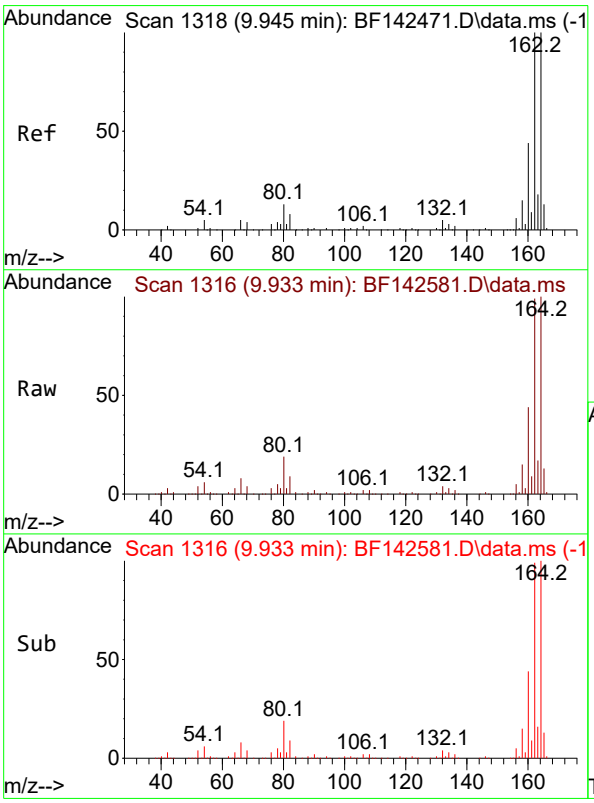
#23
Nitrobenzene-d5
Concen: 82.964 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142581.D
Acq: 30 May 2025 20:43

Instrument :
BNA_F
ClientSampleId :
TP-48

Tgt Ion: 82 Resp: 728299

Ion	Ratio	Lower	Upper
82	100		
128	48.2	37.4	56.2
54	57.6	46.6	70.0

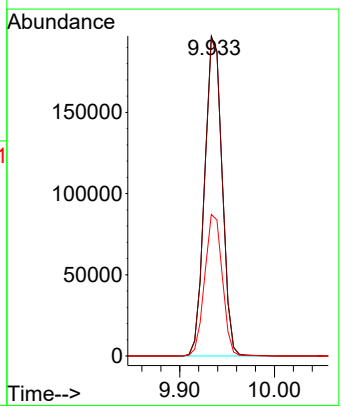


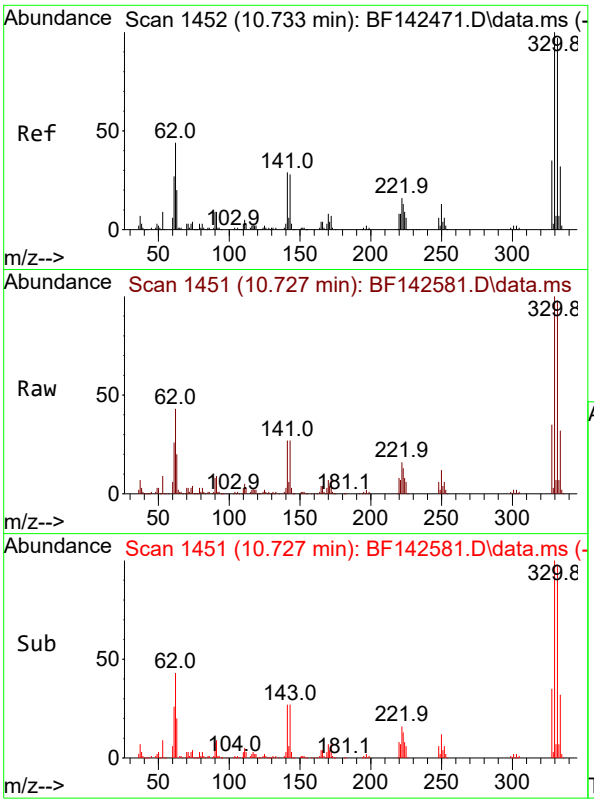


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142581.D
Acq: 30 May 2025 20:43

Tgt Ion:164 Resp: 251559

Ion	Ratio	Lower	Upper
164	100		
162	99.1	80.2	120.4
160	44.3	35.6	53.4



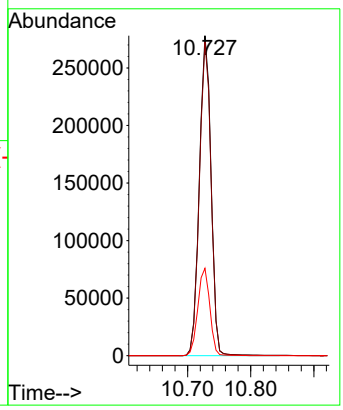


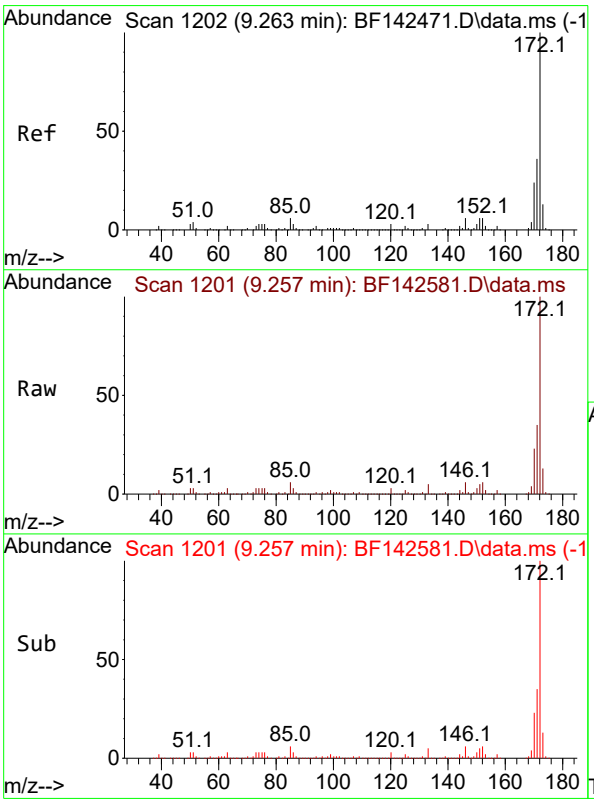
#42
2,4,6-Tribromophenol
Concen: 127.982 ng
RT: 10.727 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142581.D
Acq: 30 May 2025 20:43

Instrument :
BNA_F
ClientSampleId :
TP-48

Tgt Ion:330 Resp: 357324

Ion	Ratio	Lower	Upper
330	100		
332	97.9	77.6	116.4
141	28.0	24.6	36.8

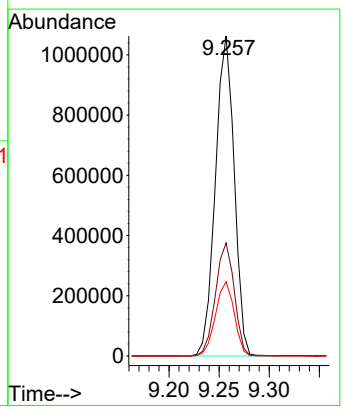


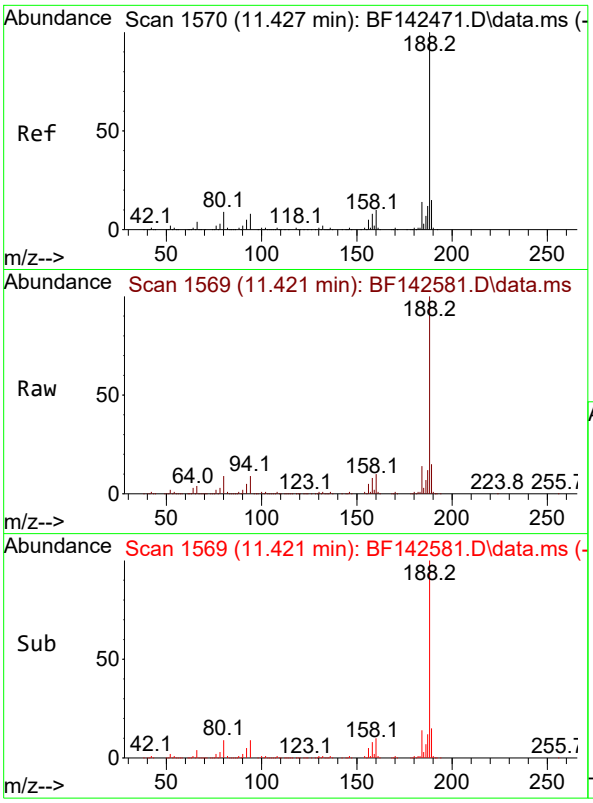


#45
2-Fluorobiphenyl
Concen: 73.983 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142581.D
Acq: 30 May 2025 20:43

Tgt Ion:172 Resp: 1386957

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	42.8
170	23.2	18.9	28.3



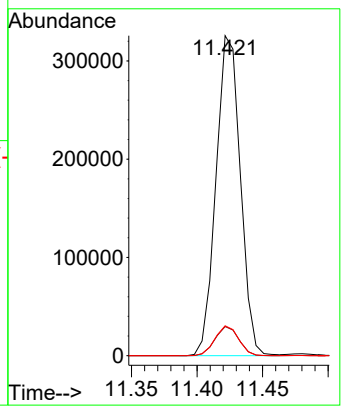


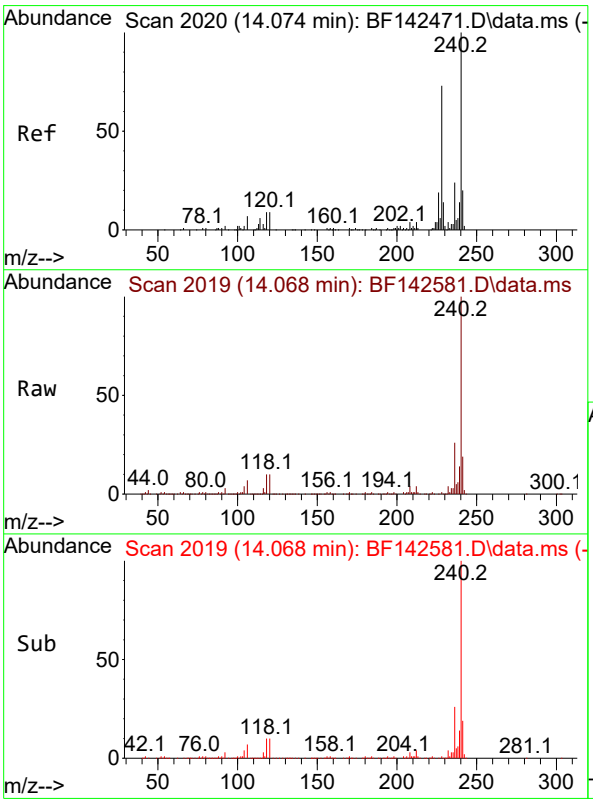
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.421 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142581.D
Acq: 30 May 2025 20:43

Instrument :
BNA_F
ClientSampleId :
TP-48

Tgt Ion:188 Resp: 419835

Ion	Ratio	Lower	Upper
188	100		
94	9.1	6.6	10.0
80	9.4	7.4	11.0

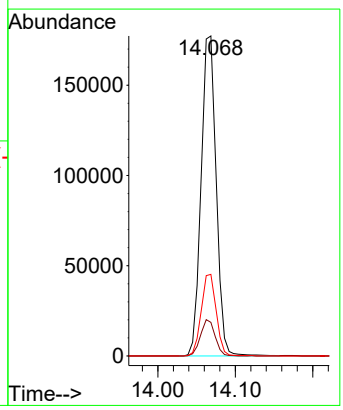


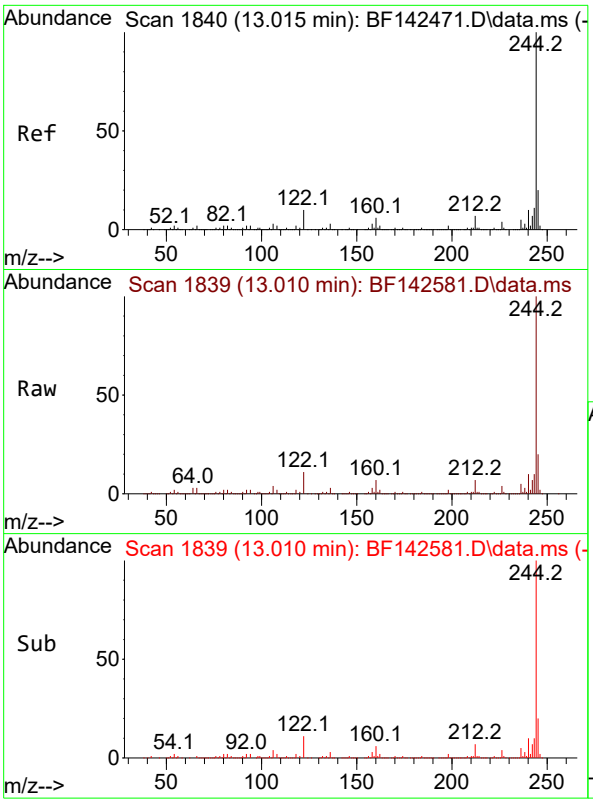


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142581.D
Acq: 30 May 2025 20:43

Tgt Ion:240 Resp: 239865

Ion	Ratio	Lower	Upper
240	100		
120	10.5	7.5	11.3
236	25.5	19.6	29.4



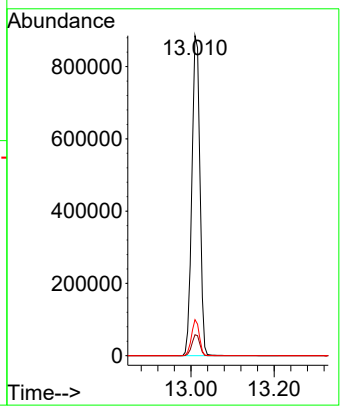


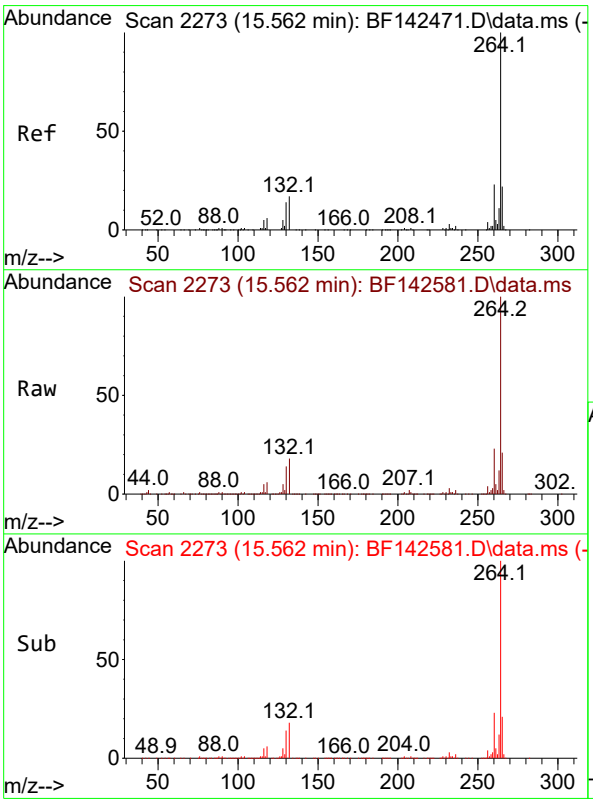
#79
Terphenyl-d14
Concen: 67.497 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142581.D
Acq: 30 May 2025 20:43

Instrument :
BNA_F
ClientSampleId :
TP-48

Tgt Ion:244 Resp: 1184744

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.3	7.9
122	11.2	8.2	12.2

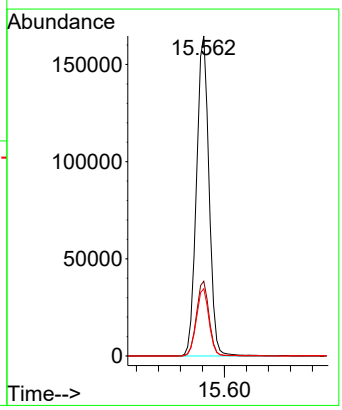




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142581.D
Acq: 30 May 2025 20:43

Tgt Ion:264 Resp: 260798

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.6	28.0
265	21.0	17.7	26.5



Sample Results: **BF142581.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142581.D
Acq On : 30 May 2025 20:43
Operator : RC/JU
Sample : Q2150-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-48

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142581.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.316	15	21	30	rVB2	38154	64036	1.64%	0.255%
2	5.128	489	499	512	rBV	241088	403121	10.31%	1.603%
3	5.522	559	566	571	rBV	2303653	3331907	85.23%	13.249%
4	6.522	729	736	742	rVB	2257320	3400334	86.98%	13.521%
5	6.898	794	800	805	rBV	581292	728417	18.63%	2.896%
6	7.457	888	895	901	rBV	1582513	2233089	57.12%	8.879%
7	7.710	933	938	949	rVB	46550	59356	1.52%	0.236%
8	8.181	1012	1018	1035	rVB	749614	942941	24.12%	3.749%
9	9.257	1194	1201	1206	rBV	2998857	3909208	100.00%	15.544%
10	9.933	1311	1316	1327	rBV	813874	1042063	26.66%	4.144%
11	10.651	1433	1438	1445	rVB	282618	349242	8.93%	1.389%
12	10.727	1445	1451	1456	rBV	1926228	2496703	63.87%	9.928%
13	11.421	1564	1569	1576	rBV	780561	1013025	25.91%	4.028%
14	11.951	1654	1659	1671	rBV	337931	524586	13.42%	2.086%
15	13.010	1834	1839	1845	rVB	2344237	3099718	79.29%	12.325%
16	13.904	1986	1991	2009	rBV	82090	152440	3.90%	0.606%
17	14.062	2010	2018	2030	rVB	478064	685497	17.54%	2.726%
18	15.562	2266	2273	2287	rBV	436763	713201	18.24%	2.836%

Sum of corrected areas: 25148884

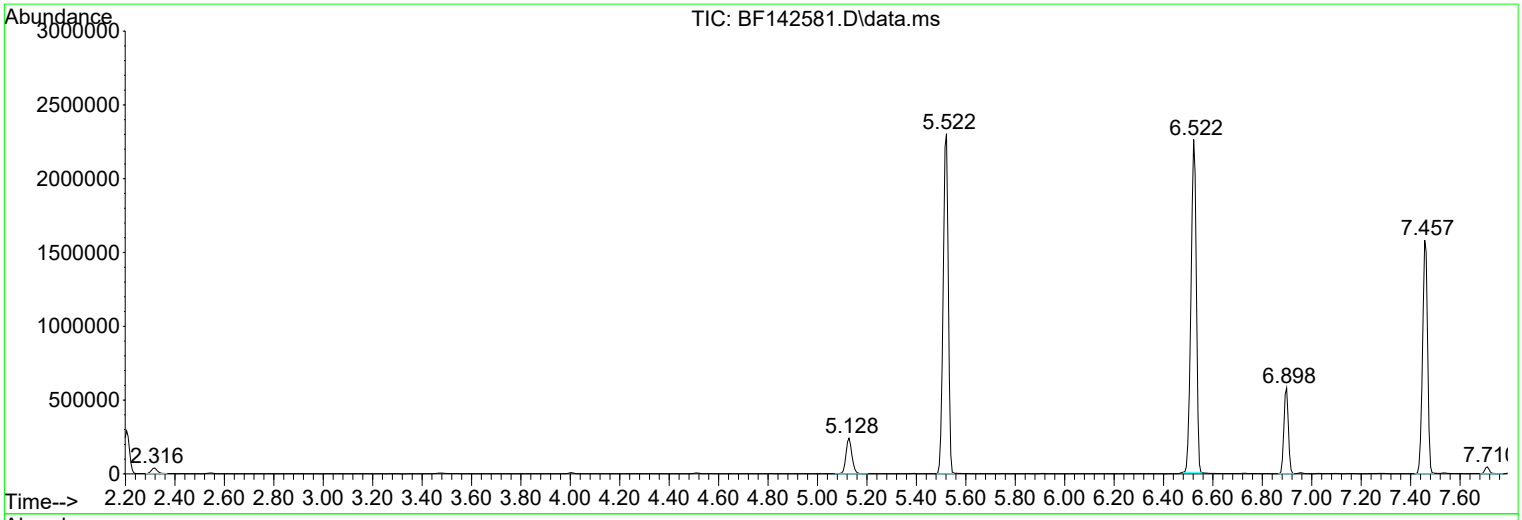
Sample Results: **BF142581.D**

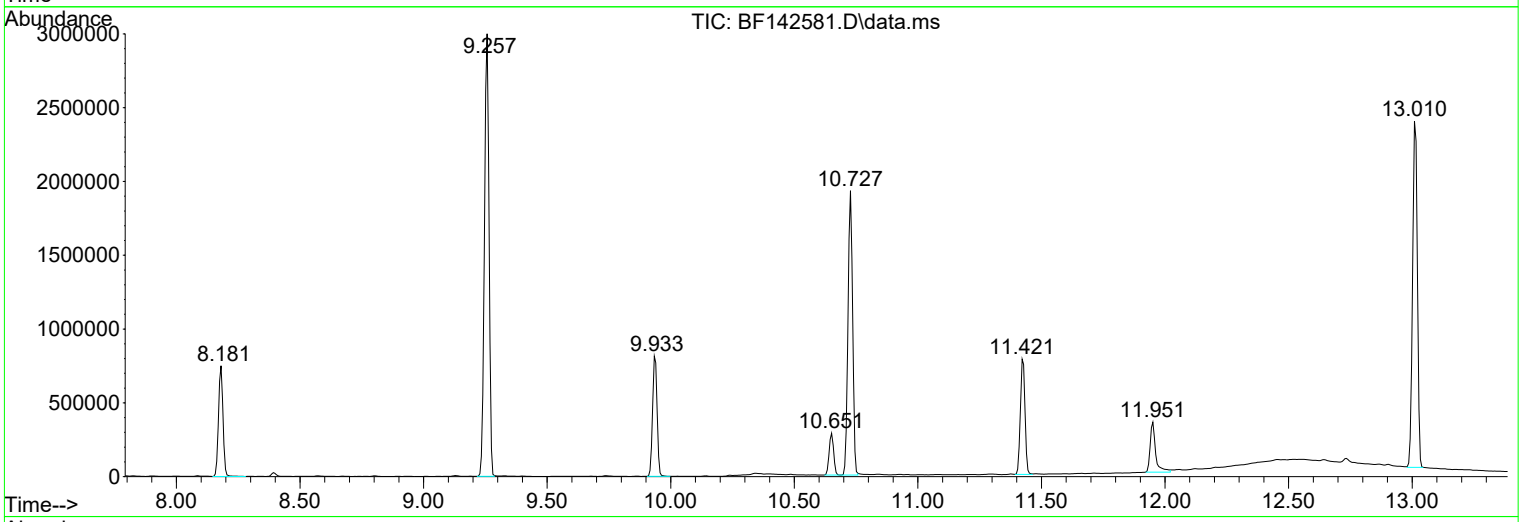
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142581.D
Acq On : 30 May 2025 20:43
Operator : RC/JU
Sample : Q2150-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

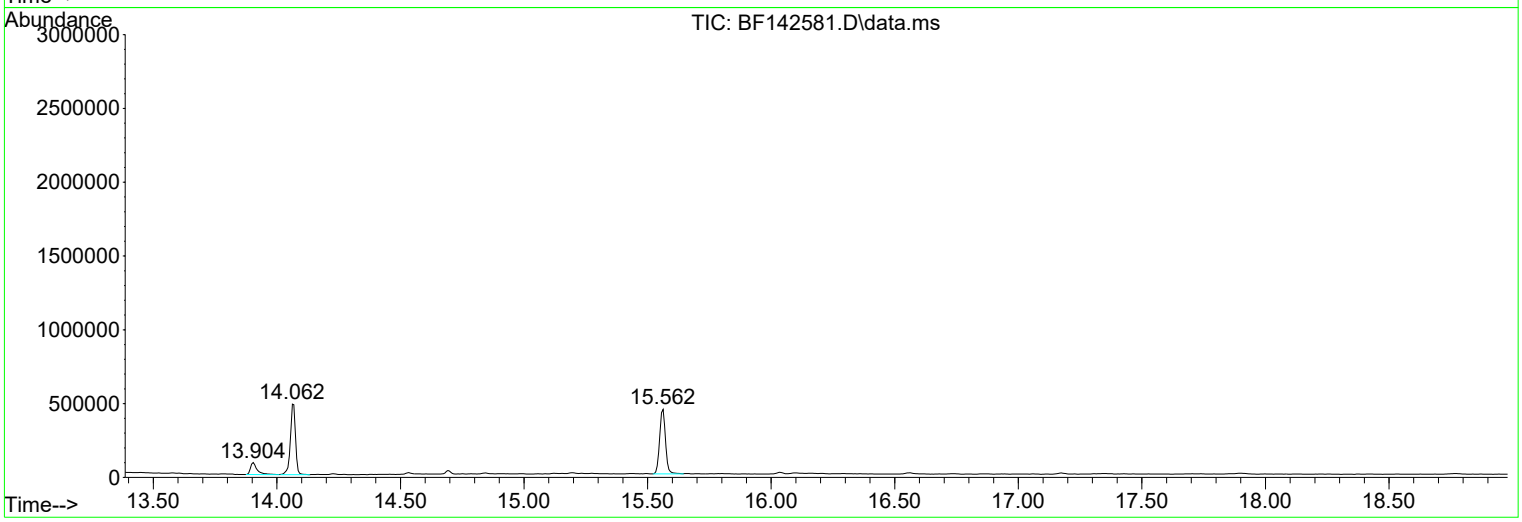
Instrument :
BNA_F
ClientSampleId :
TP-48

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.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\BF053025\
Data File : BF142581.D
Acq On : 30 May 2025 20:43
Operator : RC/JU
Sample : Q2150-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-48

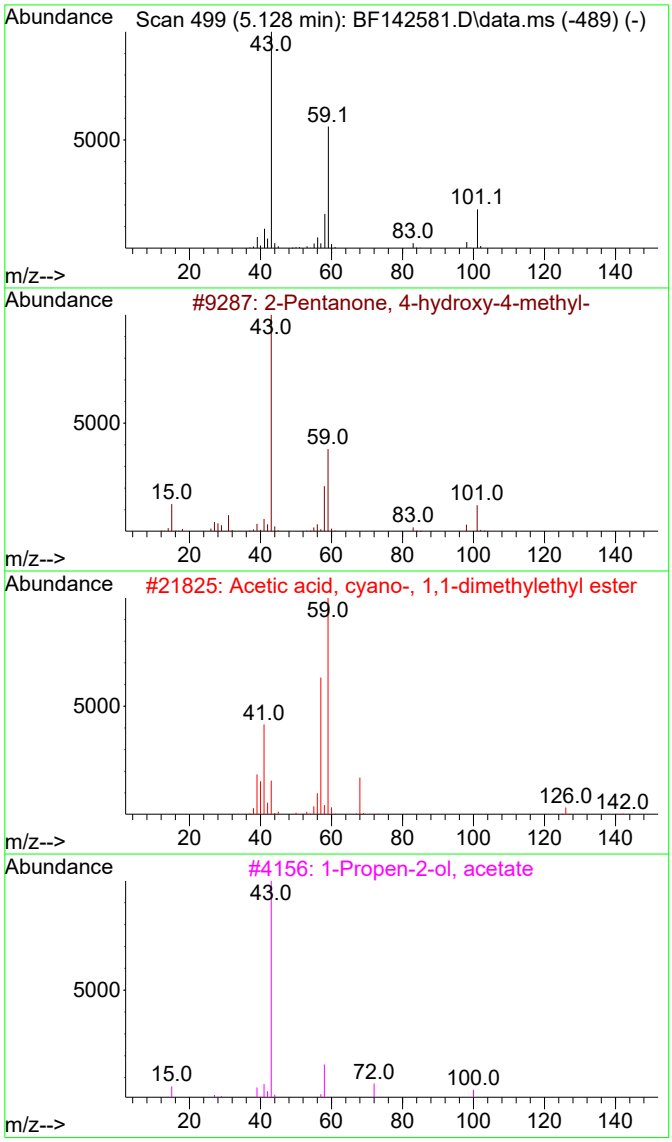
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

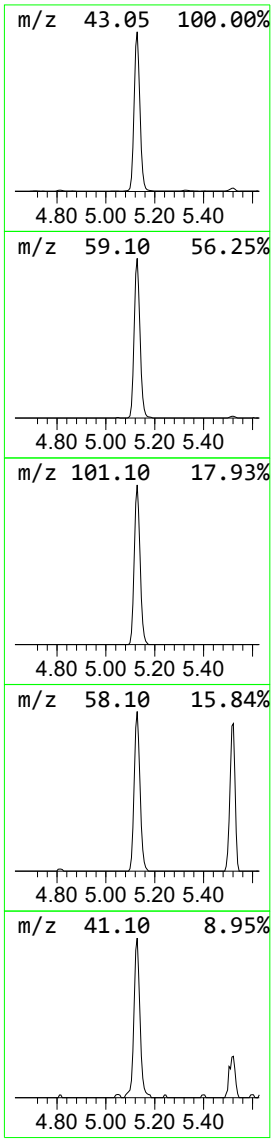
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.128	11.07 ng	403121	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	2-Propanone, 1-(1-methylethoxy)-	116	C6H12O2	042781-12-4	9
5	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142581.D
Acq On : 30 May 2025 20:43
Operator : RC/JU
Sample : Q2150-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-48

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

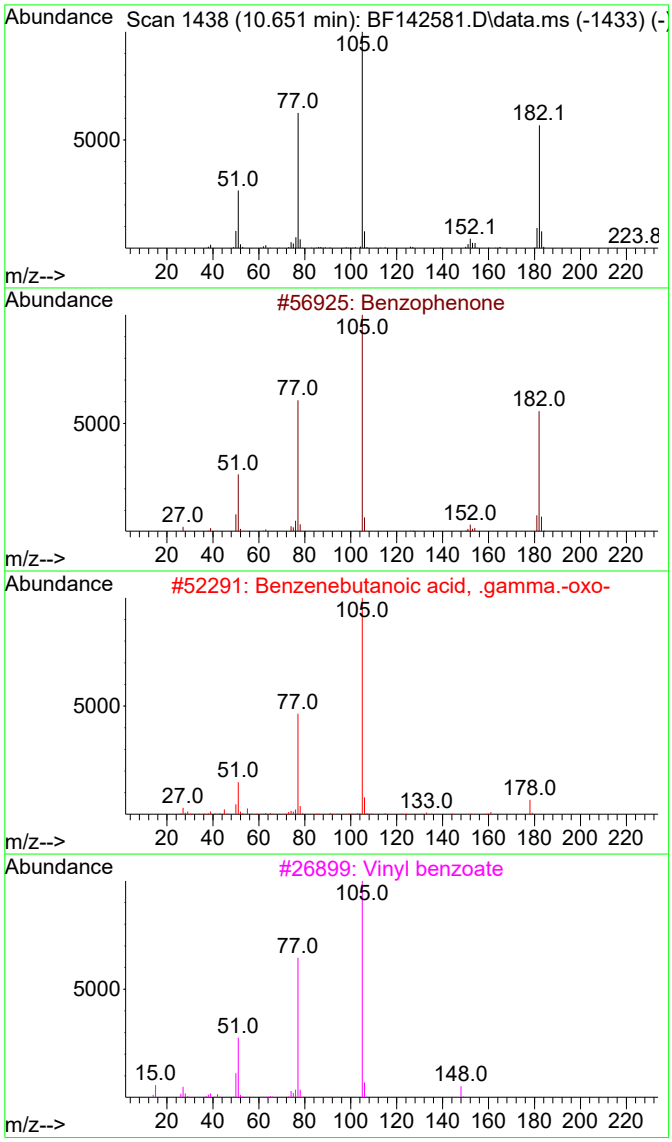
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

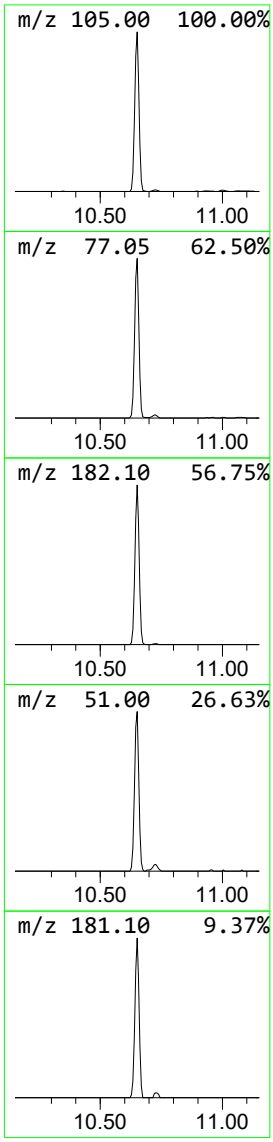
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	6.70 ng	349242	Acenaphthene-d10	9.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47
3	Vinyl benzoate	148	C9H8O2	000769-78-8	47
4	2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	47
5	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142581.D
Acq On : 30 May 2025 20:43
Operator : RC/JU
Sample : Q2150-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-48

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

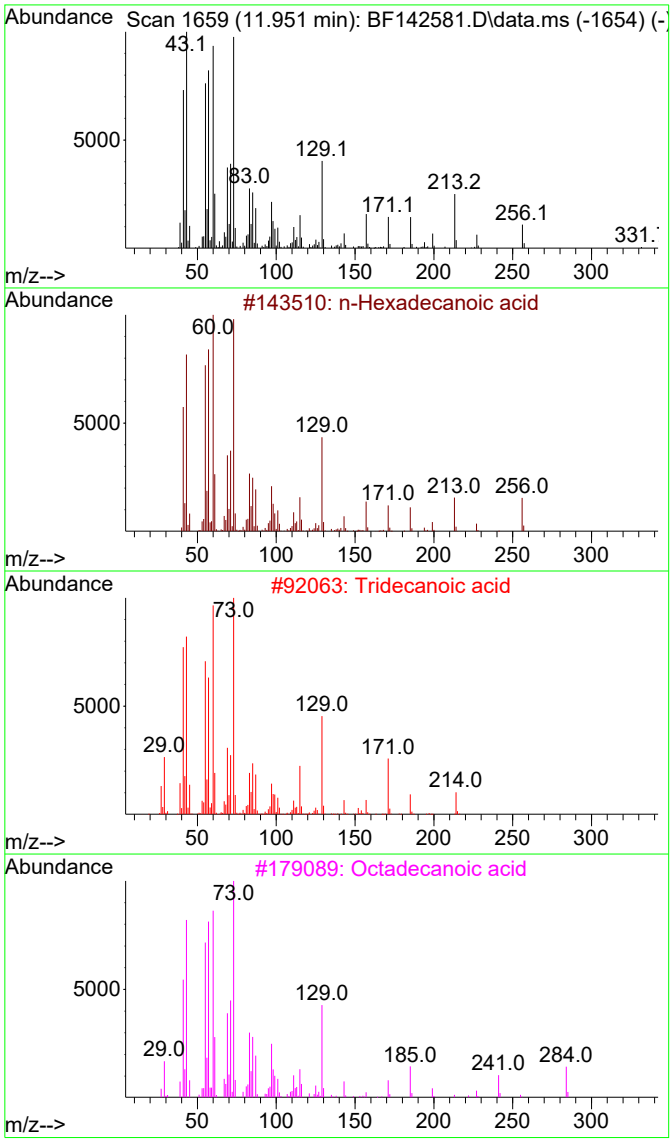
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

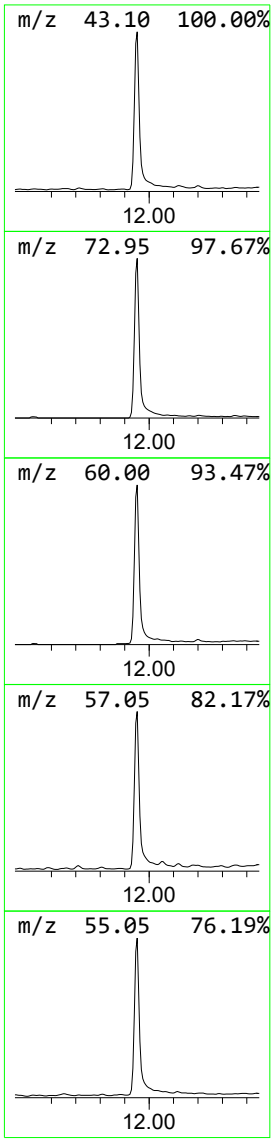
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.951	10.36 ng	524586	Phenanthrene-d10	11.422

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	Octadecanoic acid	284	C18H36O2	000057-11-4	93
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	83





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142581.D
Acq On : 30 May 2025 20:43
Operator : RC/JU
Sample : Q2150-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-48

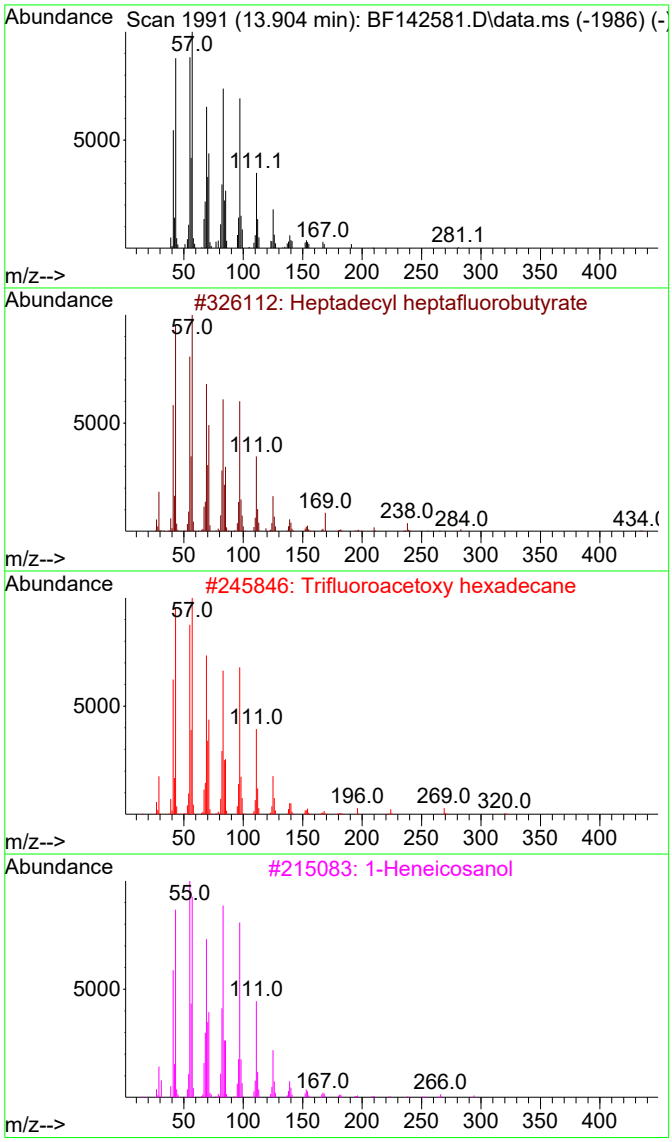
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

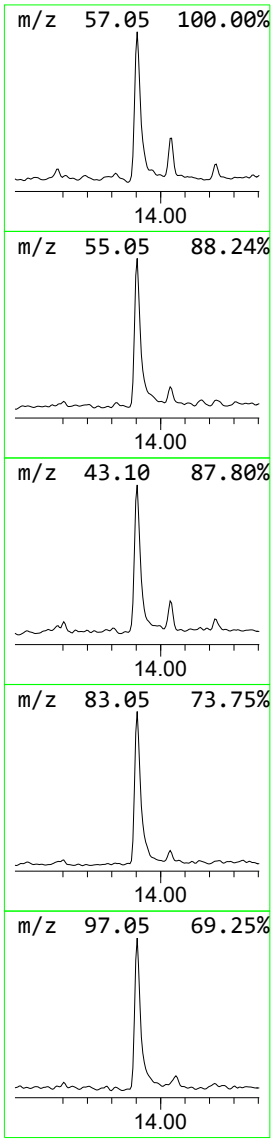
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	4.45 ng	152440	Chrysene-d12	14.068

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	95
2	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	95
3	1-Heneicosanol	312	C21H44O	015594-90-8	93
4	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	93
5	Pentafluoropropionic acid, penta...	374	C18H31F5O2	959092-08-1	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142581.D
Acq On : 30 May 2025 20:43
Operator : RC/JU
Sample : Q2150-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-48

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.128	11.1	ng	403121	1	6.898	728417	20.0
Benzophenone	10.651	6.7	ng	349242	3	9.933	1042060	20.0
n-Hexadecanoic ...	11.951	10.4	ng	524586	4	11.422	1013030	20.0
Heptadecyl hept...	13.904	4.5	ng	152440	5	14.068	685497	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142569.D
Acq On : 30 May 2025 14:52
Operator : RC/JU
Sample : Q2150-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-47

Quant Time: May 30 15:13:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

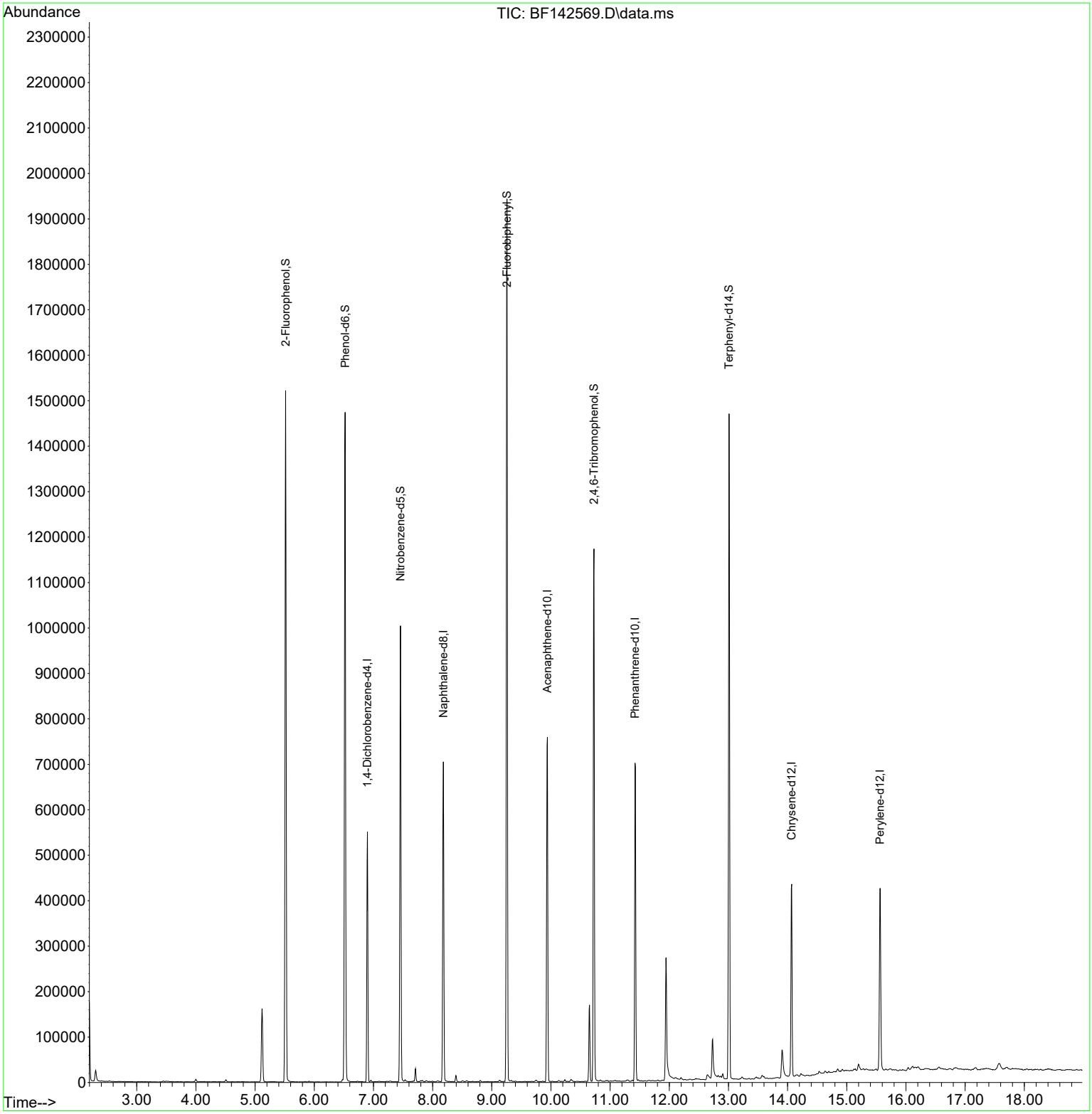
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	119655	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	452665	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	237881	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	379317	20.000	ng	-0.01
76) Chrysene-d12	14.068	240	213577	20.000	ng	0.00
86) Perylene-d12	15.563	264	233735	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	580421	81.724	ng	0.00
7) Phenol-d6	6.522	99	715121	83.646	ng	-0.01
23) Nitrobenzene-d5	7.457	82	427464	51.493	ng	-0.02
42) 2,4,6-Tribromophenol	10.728	330	213540	80.881	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	880377	49.661	ng	-0.01
79) Terphenyl-d14	13.010	244	710605	45.467	ng	0.00
Target Compounds						Qvalue

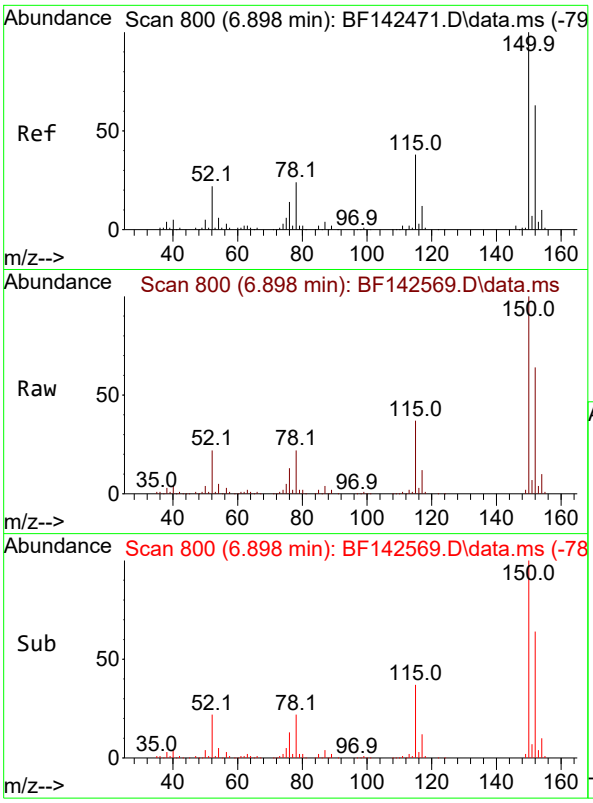
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142569.D
Acq On : 30 May 2025 14:52
Operator : RC/JU
Sample : Q2150-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-47

Quant Time: May 30 15:13:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



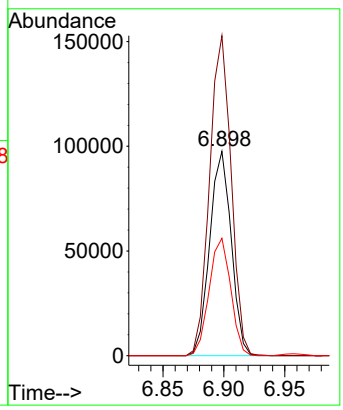


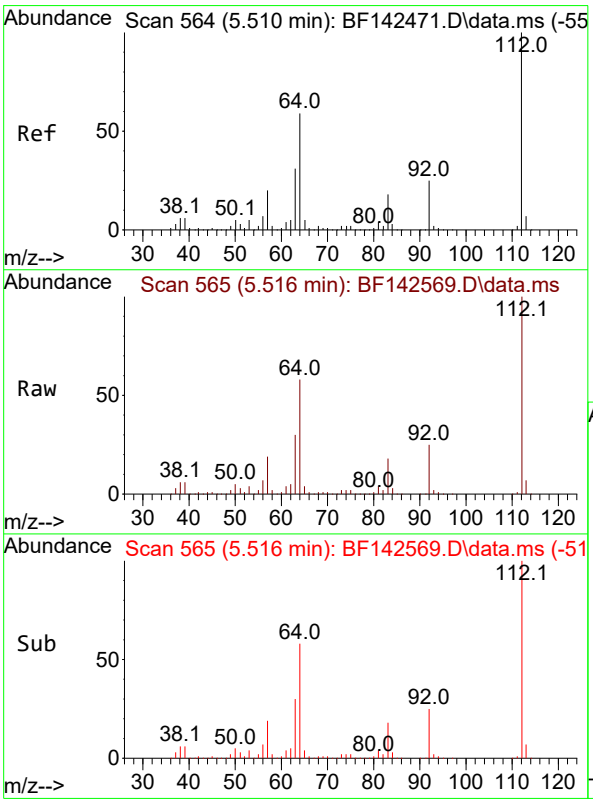
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142569.D
Acq: 30 May 2025 14:52

Instrument :
BNA_F
ClientSampleId :
TP-47

Tgt Ion:152 Resp: 119655

Ion	Ratio	Lower	Upper
152	100		
150	156.6	128.2	192.4
115	57.5	48.3	72.5

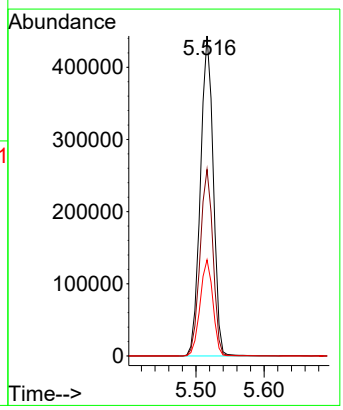


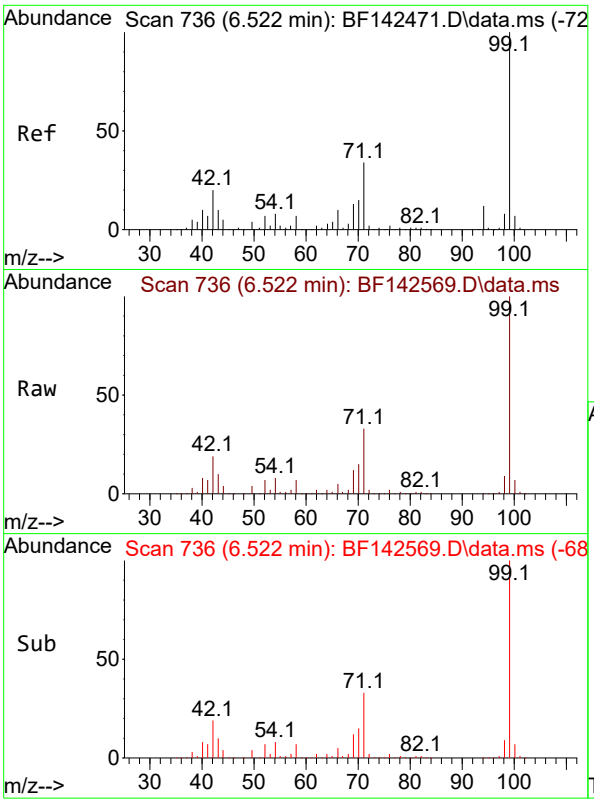


#5
2-Fluorophenol
Concen: 81.724 ng
RT: 5.516 min Scan# 565
Delta R.T. 0.000 min
Lab File: BF142569.D
Acq: 30 May 2025 14:52

Tgt Ion:112 Resp: 580421

Ion	Ratio	Lower	Upper
112	100		
64	58.3	47.5	71.3
63	30.1	24.9	37.3



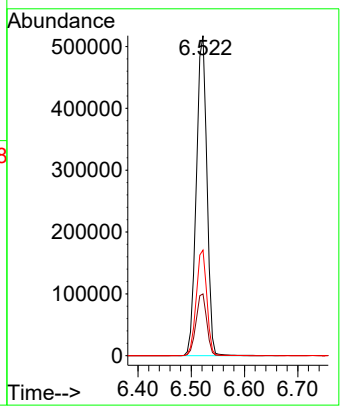


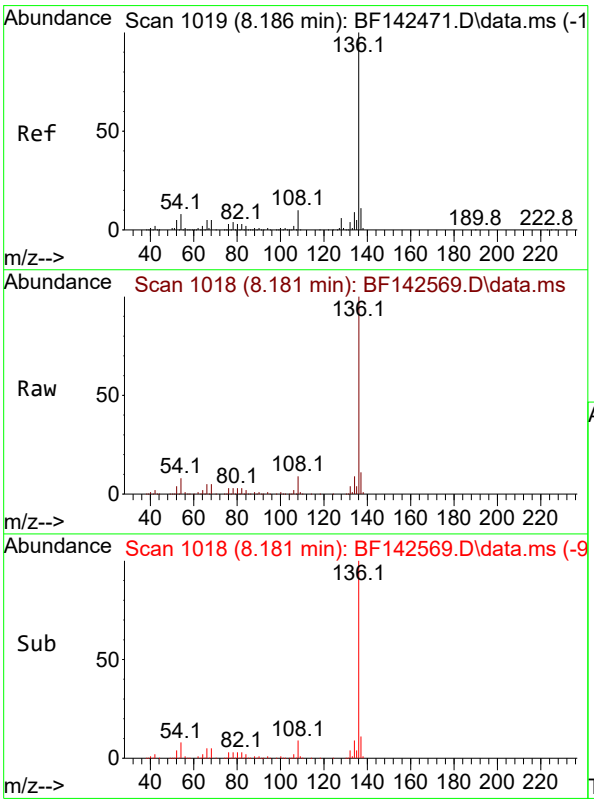
#7
Phenol-d6
Concen: 83.646 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142569.D
Acq: 30 May 2025 14:52

Instrument :
BNA_F
ClientSampleId :
TP-47

Tgt Ion: 99 Resp: 715121

Ion	Ratio	Lower	Upper
99	100		
42	19.3	16.2	24.2
71	33.0	27.3	40.9

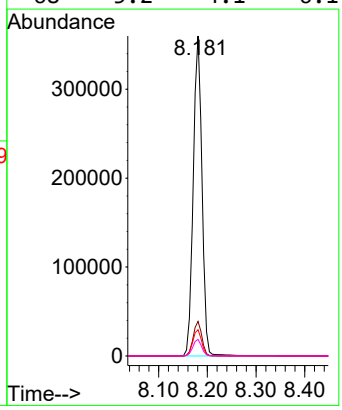


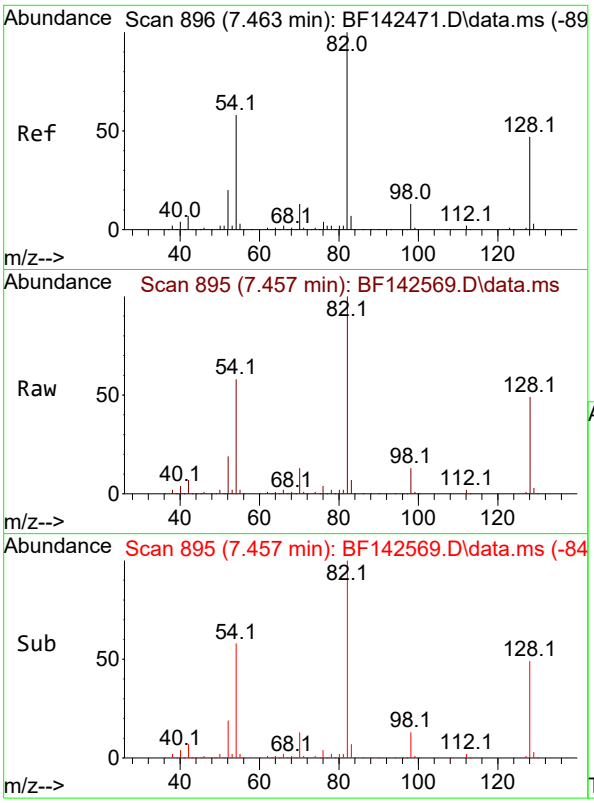


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142569.D
Acq: 30 May 2025 14:52

Tgt Ion:136 Resp: 452665

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.2	6.6	10.0
68	5.2	4.1	6.1



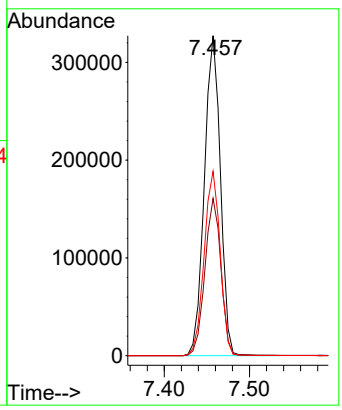


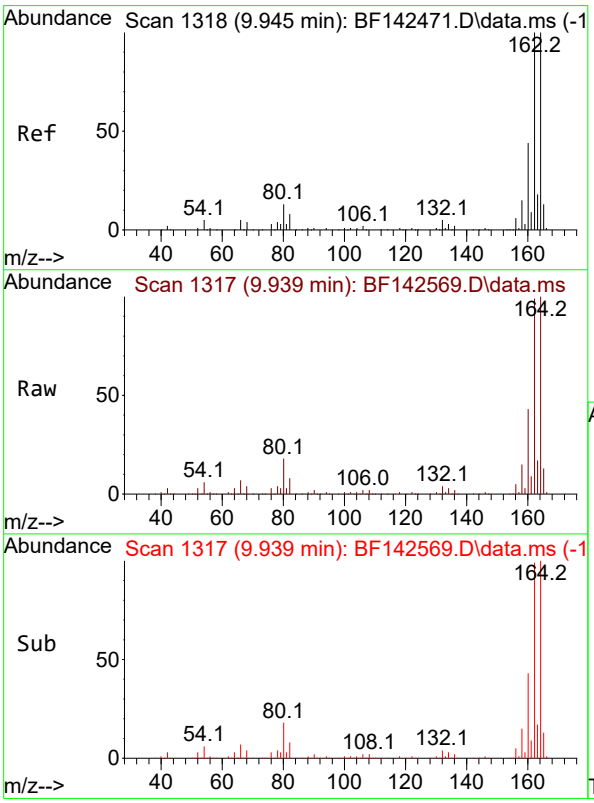
#23
Nitrobenzene-d5
Concen: 51.493 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142569.D
Acq: 30 May 2025 14:52

Instrument :
BNA_F
ClientSampleId :
TP-47

Tgt Ion: 82 Resp: 427464

Ion	Ratio	Lower	Upper
82	100		
128	49.1	37.4	56.2
54	57.6	46.6	70.0

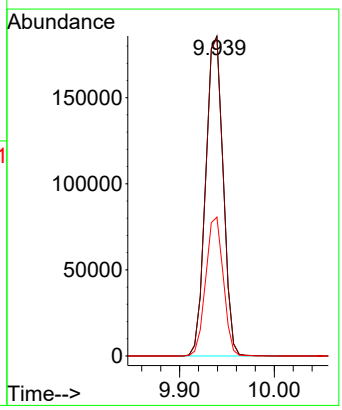


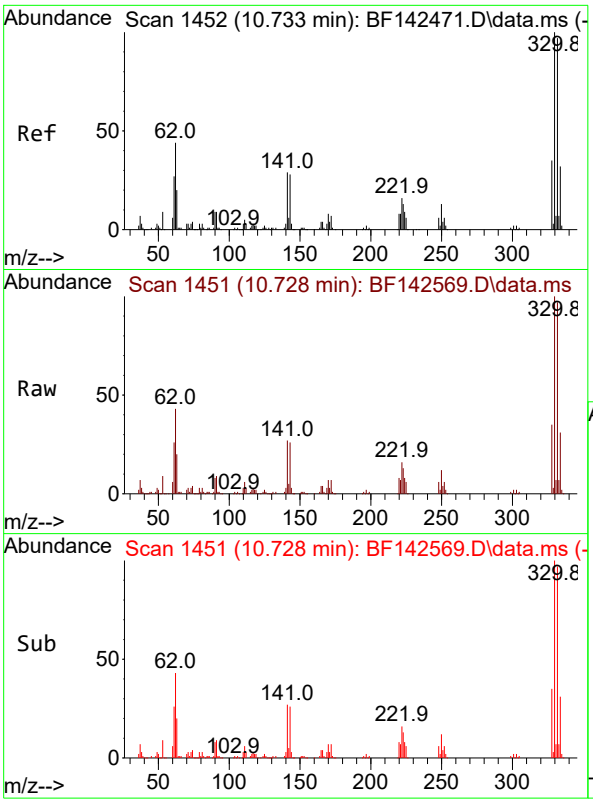


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BF142569.D
Acq: 30 May 2025 14:52

Tgt Ion:164 Resp: 237881

Ion	Ratio	Lower	Upper
164	100		
162	99.4	80.2	120.4
160	43.4	35.6	53.4



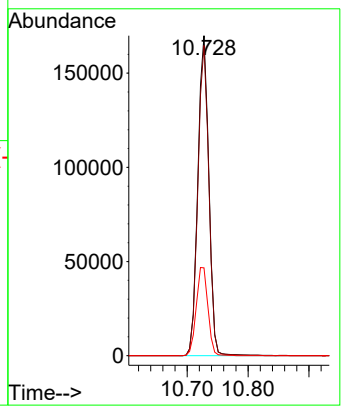


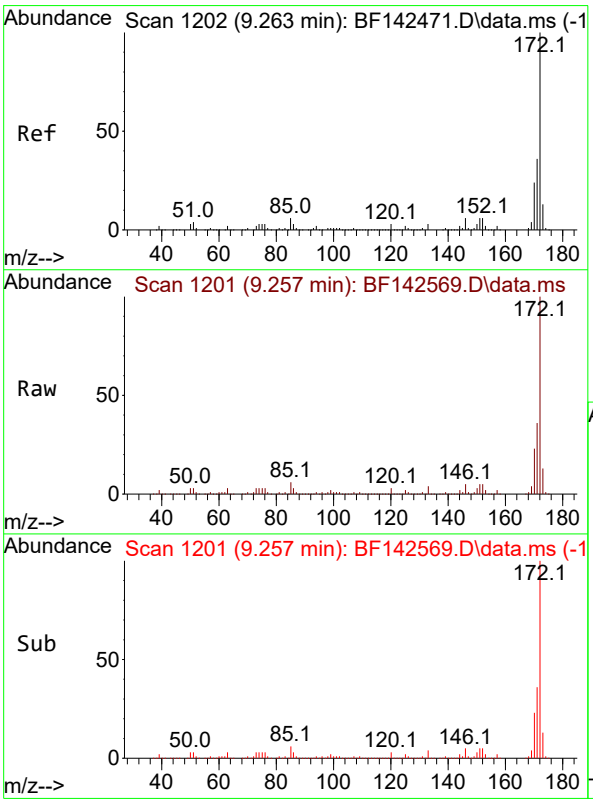
#42
2,4,6-Tribromophenol
Concen: 80.881 ng
RT: 10.728 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142569.D
Acq: 30 May 2025 14:52

Instrument :
BNA_F
ClientSampleId :
TP-47

Tgt Ion:330 Resp: 213540

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.6	116.4
141	29.2	24.6	36.8

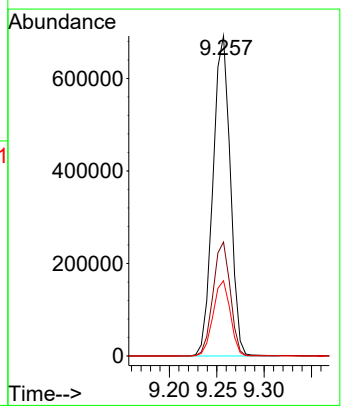


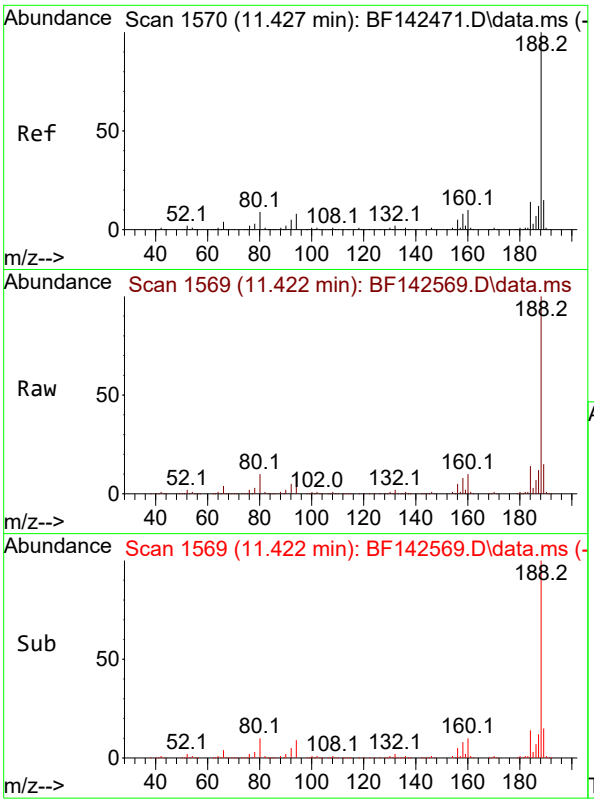


#45
2-Fluorobiphenyl
Concen: 49.661 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142569.D
Acq: 30 May 2025 14:52

Tgt Ion:172 Resp: 880377

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.6	42.8
170	23.5	18.9	28.3



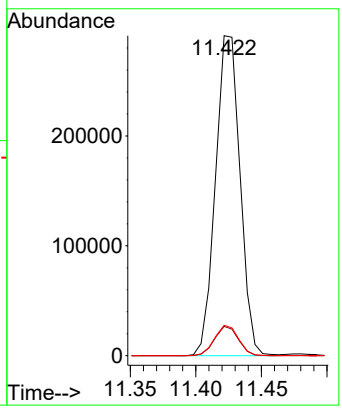


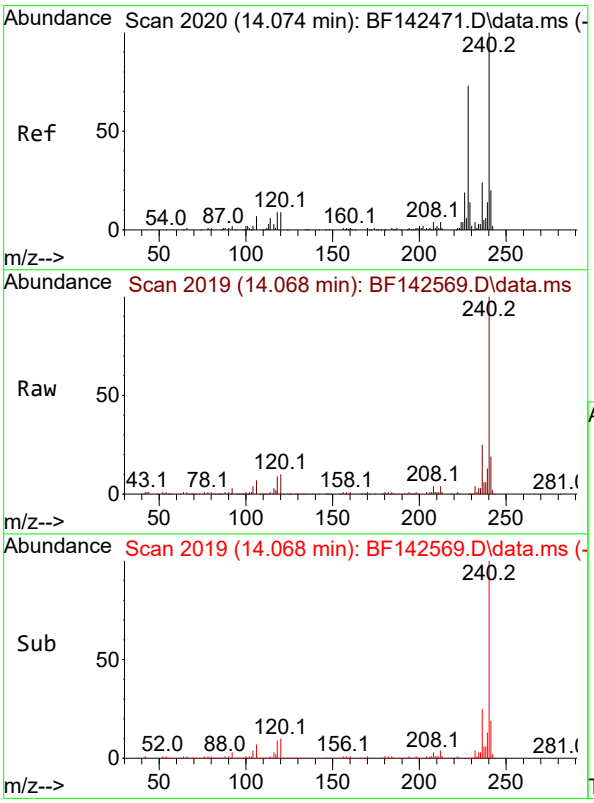
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142569.D
Acq: 30 May 2025 14:52

Instrument :
BNA_F
ClientSampleId :
TP-47

Tgt Ion:188 Resp: 379317

Ion	Ratio	Lower	Upper
188	100		
94	9.2	6.6	10.0
80	9.5	7.4	11.0

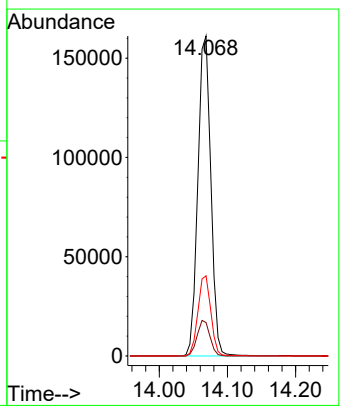


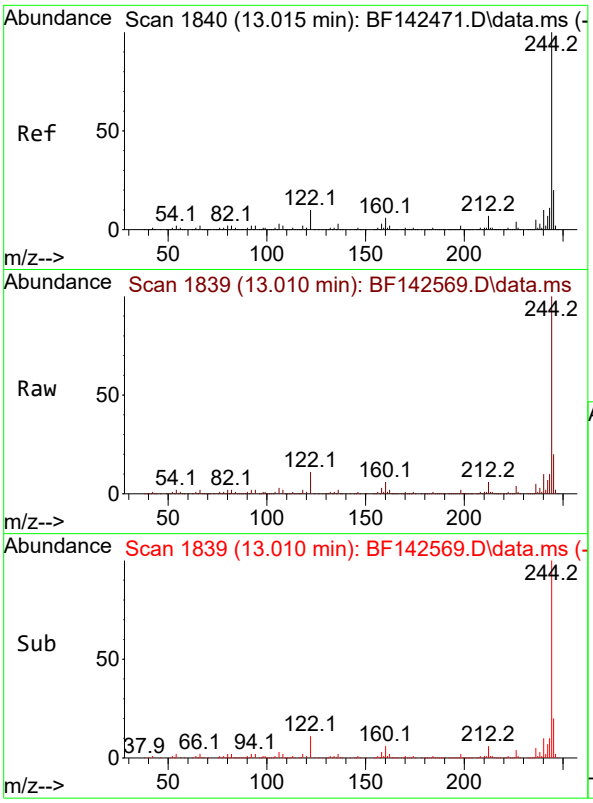


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142569.D
Acq: 30 May 2025 14:52

Tgt Ion:240 Resp: 213577

Ion	Ratio	Lower	Upper
240	100		
120	10.5	7.5	11.3
236	25.1	19.6	29.4



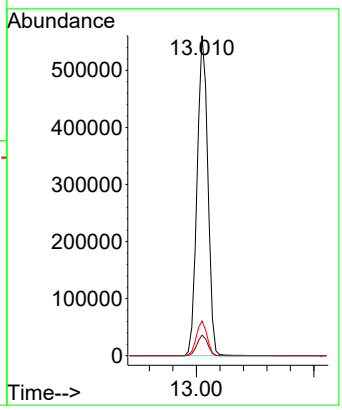


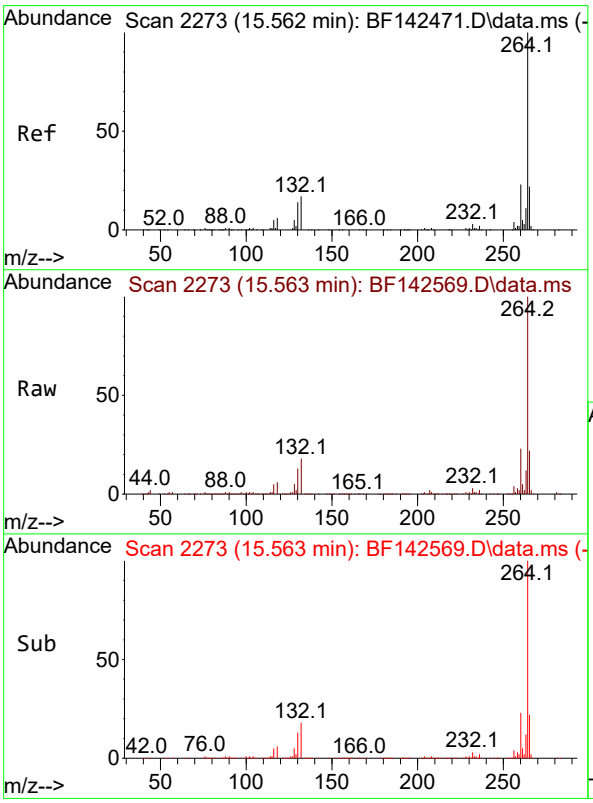
#79
Terphenyl-d14
Concen: 45.467 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142569.D
Acq: 30 May 2025 14:52

Instrument :
BNA_F
ClientSampleId :
TP-47

Tgt Ion:244 Resp: 710605

Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.3	7.9
122	10.9	8.2	12.2

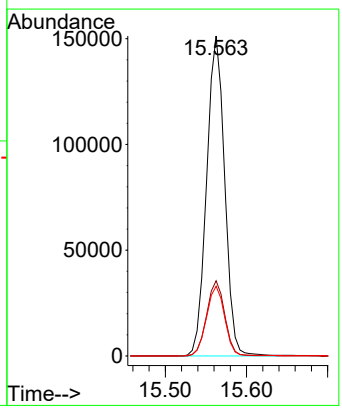




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142569.D
Acq: 30 May 2025 14:52

Tgt Ion:264 Resp: 233735

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.6	28.0
265	21.8	17.7	26.5



Sample Results: **BF142569.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142569.D
Acq On : 30 May 2025 14:52
Operator : RC/JU
Sample : Q2150-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-47

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142569.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.305	14	19	33	rVB2	23803	43463	1.76%	0.253%
2	5.116	489	497	508	rBV	161275	238633	9.64%	1.391%
3	5.516	559	565	570	rBV	1521441	1982878	80.14%	11.557%
4	6.522	729	736	747	rVB	1471626	2045280	82.66%	11.921%
5	6.898	795	800	805	rBV	550419	678910	27.44%	3.957%
6	7.457	889	895	900	rBV	1003469	1306695	52.81%	7.616%
7	7.710	934	938	944	rVB	28059	34336	1.39%	0.200%
8	8.181	1012	1018	1026	rBV	703631	879909	35.56%	5.129%
9	9.257	1195	1201	1206	rBV	1941885	2474302	100.00%	14.421%
10	9.939	1311	1317	1322	rBV	757613	978352	39.54%	5.702%
11	10.651	1432	1438	1445	rBV	168011	212672	8.60%	1.240%
12	10.728	1445	1451	1461	rBV	1171370	1524740	61.62%	8.887%
13	11.422	1564	1569	1576	rBV	700093	910343	36.79%	5.306%
14	11.945	1651	1658	1680	rBV	269944	455982	18.43%	2.658%
15	12.645	1772	1777	1786	rBV6	11212	33255	1.34%	0.194%
16	12.733	1786	1792	1805	rVV	85848	162859	6.58%	0.949%
17	13.010	1833	1839	1844	rBV	1463095	1841426	74.42%	10.733%
18	13.904	1986	1991	2005	rBV	61133	138903	5.61%	0.810%
19	14.068	2011	2019	2026	rVB	422603	567387	22.93%	3.307%
20	15.198	2207	2211	2219	rBV7	12607	24746	1.00%	0.144%
21	15.563	2267	2273	2283	rVB	399645	621975	25.14%	3.625%

Sum of corrected areas: 17157046

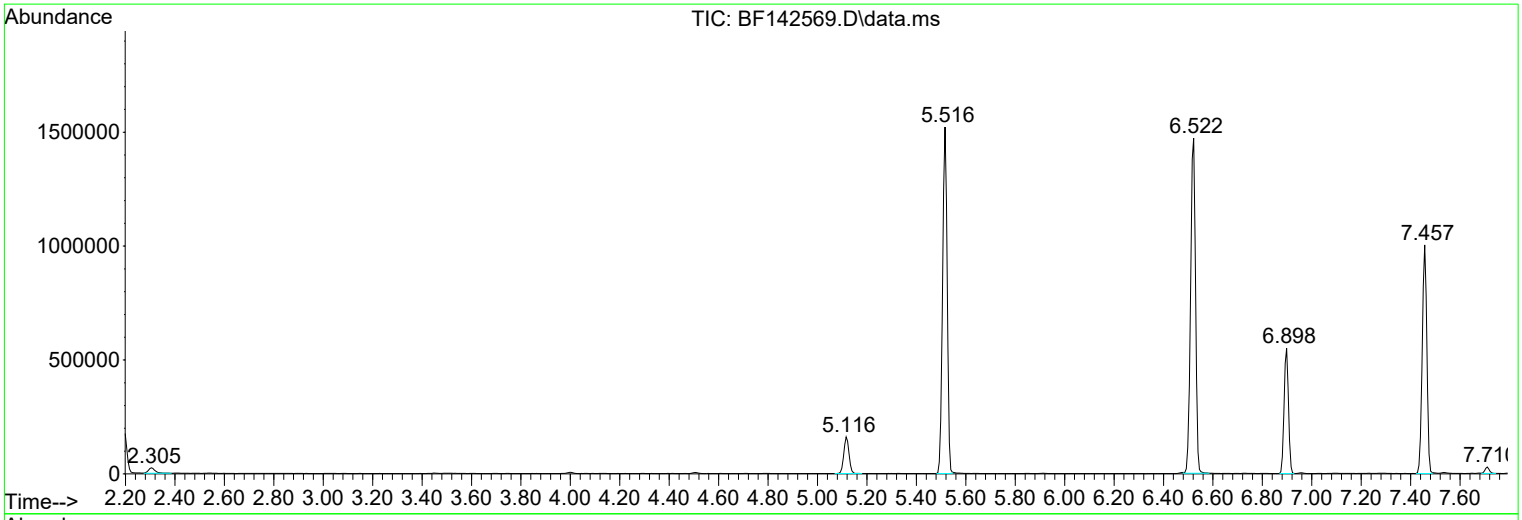
Sample Results: **BF142569.D**

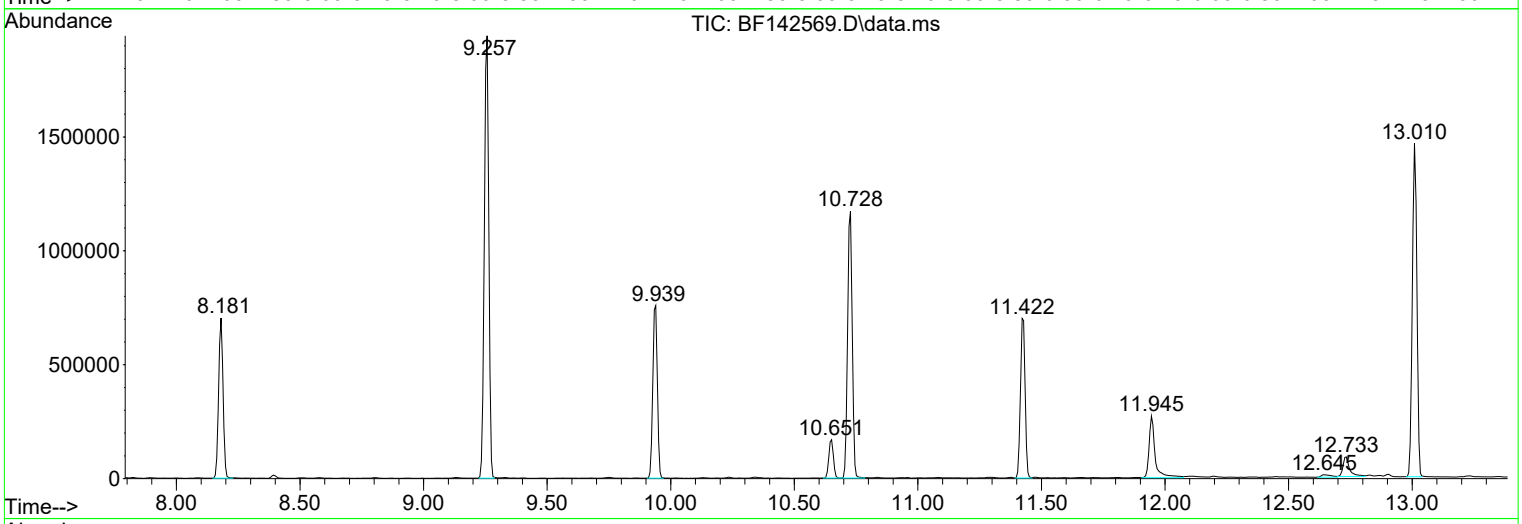
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142569.D
Acq On : 30 May 2025 14:52
Operator : RC/JU
Sample : Q2150-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

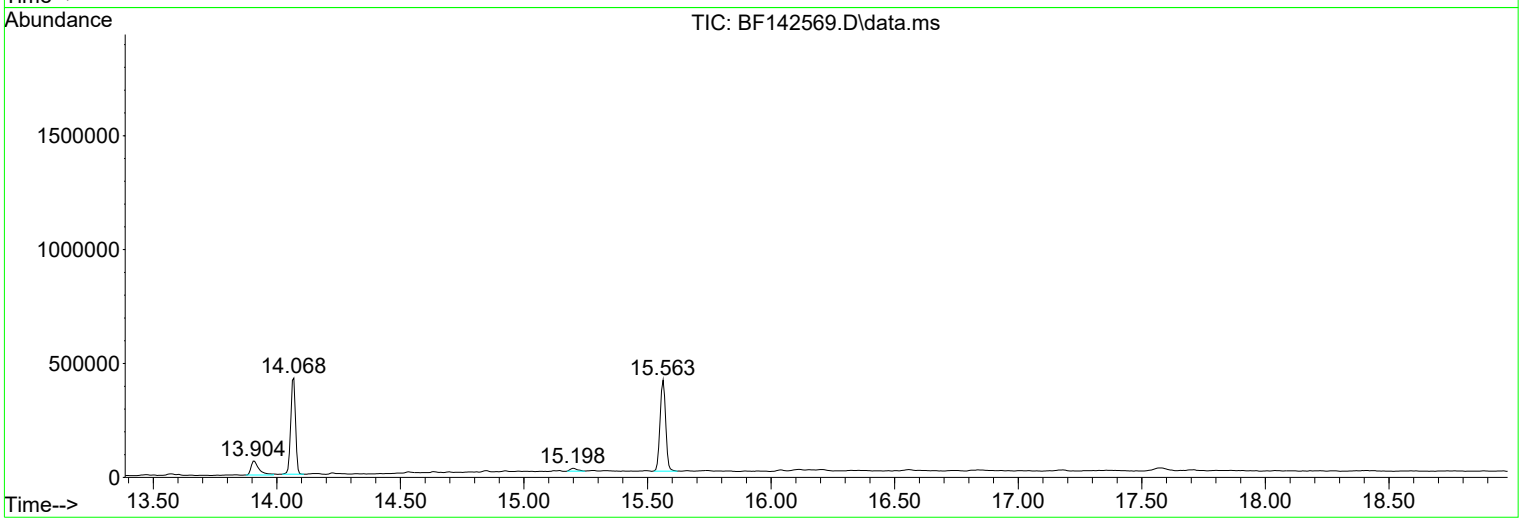
Instrument :
BNA_F
ClientSampleId :
TP-47

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.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\BF053025\
Data File : BF142569.D
Acq On : 30 May 2025 14:52
Operator : RC/JU
Sample : Q2150-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-47

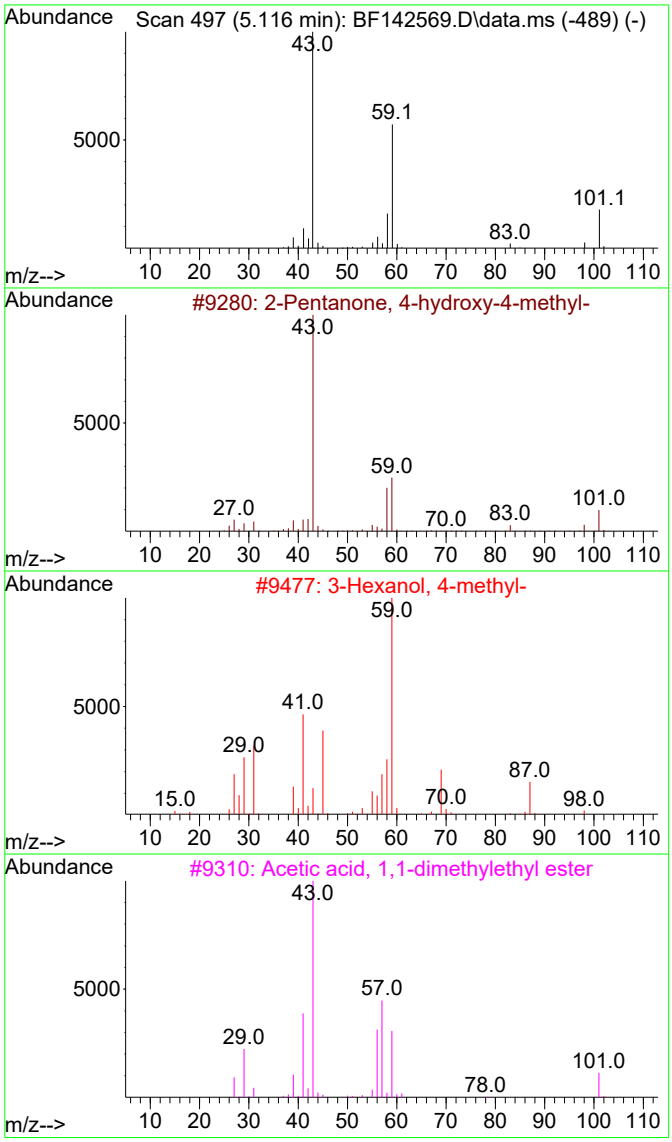
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

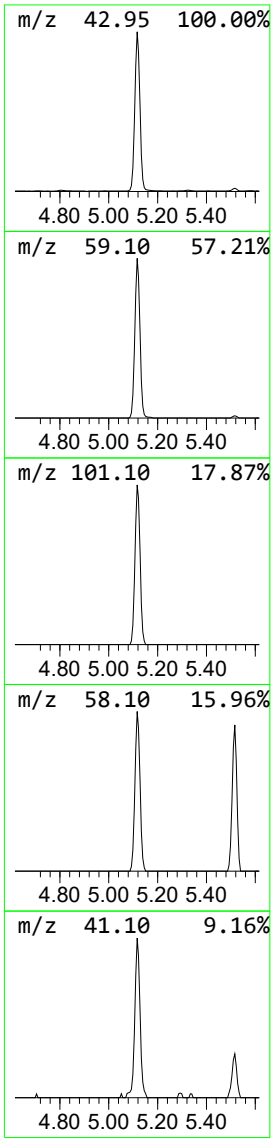
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	7.03 ng	238633	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
3	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	28
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12





Sample Results: **BF142569.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142569.D
Acq On : 30 May 2025 14:52
Operator : RC/JU
Sample : Q2150-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-47

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

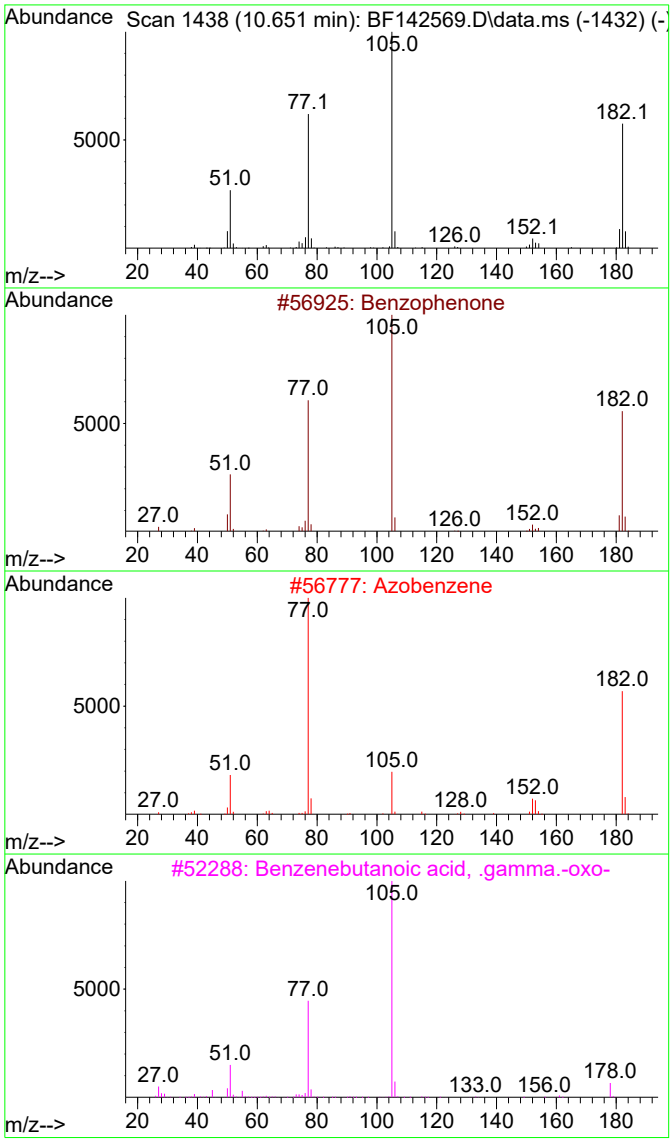
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

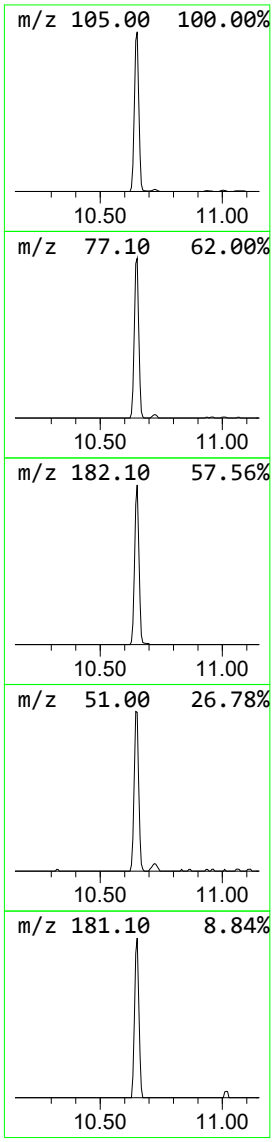
****

Peak Number 2 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	4.35 ng	212672	Acenaphthene-d10	9.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Azobenzene	182	C12H10N2	000103-33-3	59
3	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47
4	Benzeneacetic acid, .alpha.-oxo-...	178	C10H10O3	001603-79-8	47
5	2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142569.D
Acq On : 30 May 2025 14:52
Operator : RC/JU
Sample : Q2150-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-47

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

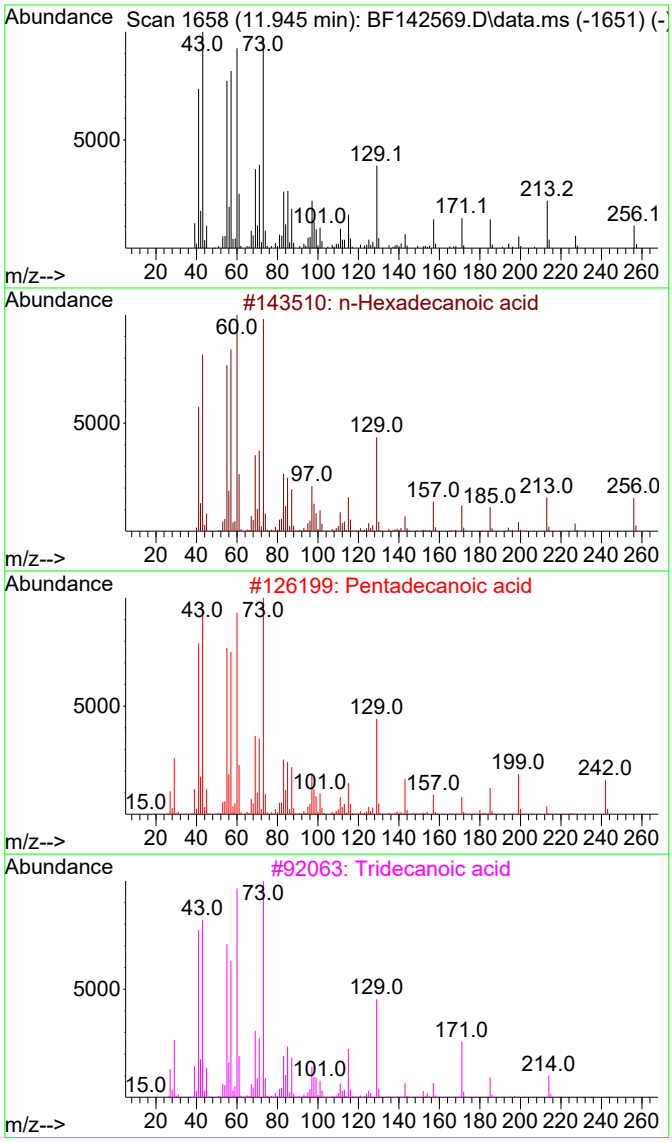
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

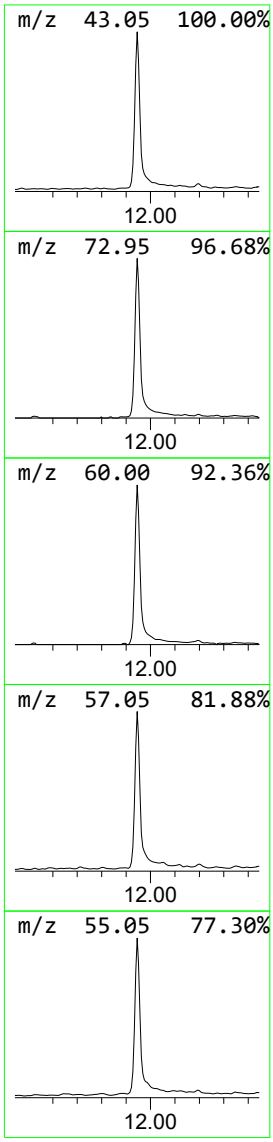
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	10.02 ng	455982	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
3	Tridecanoic acid	214	C13H26O2	000638-53-9	91
4	n-Decanoic acid	172	C10H20O2	000334-48-5	70
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	62





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142569.D
Acq On : 30 May 2025 14:52
Operator : RC/JU
Sample : Q2150-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-47

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

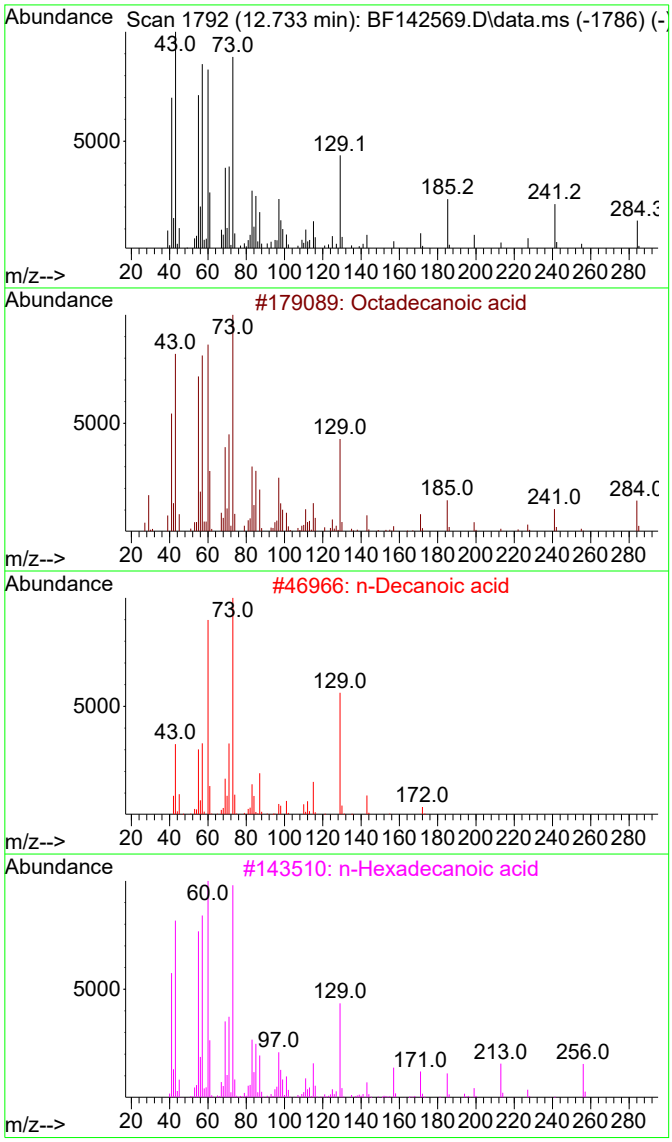
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

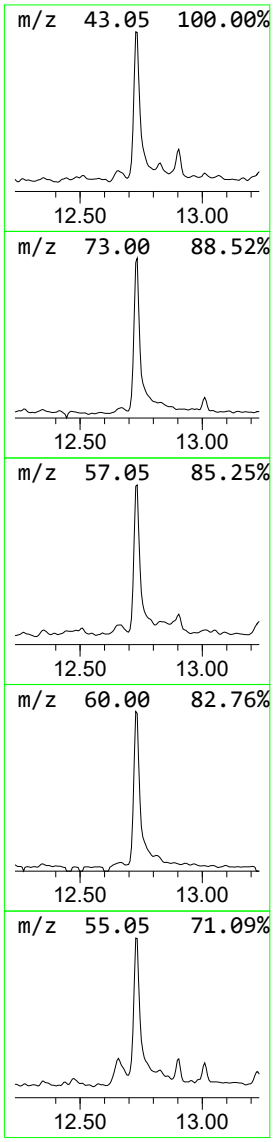
****

Peak Number 4 Octadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.733	3.58 ng	162859	Phenanthrene-d10	11.422

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	87
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	83
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	74
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	70





```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142569.D
Acq On    : 30 May 2025  14:52
Operator  : RC/JU
Sample    : Q2150-05
Misc      :
ALS Vial  : 5   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

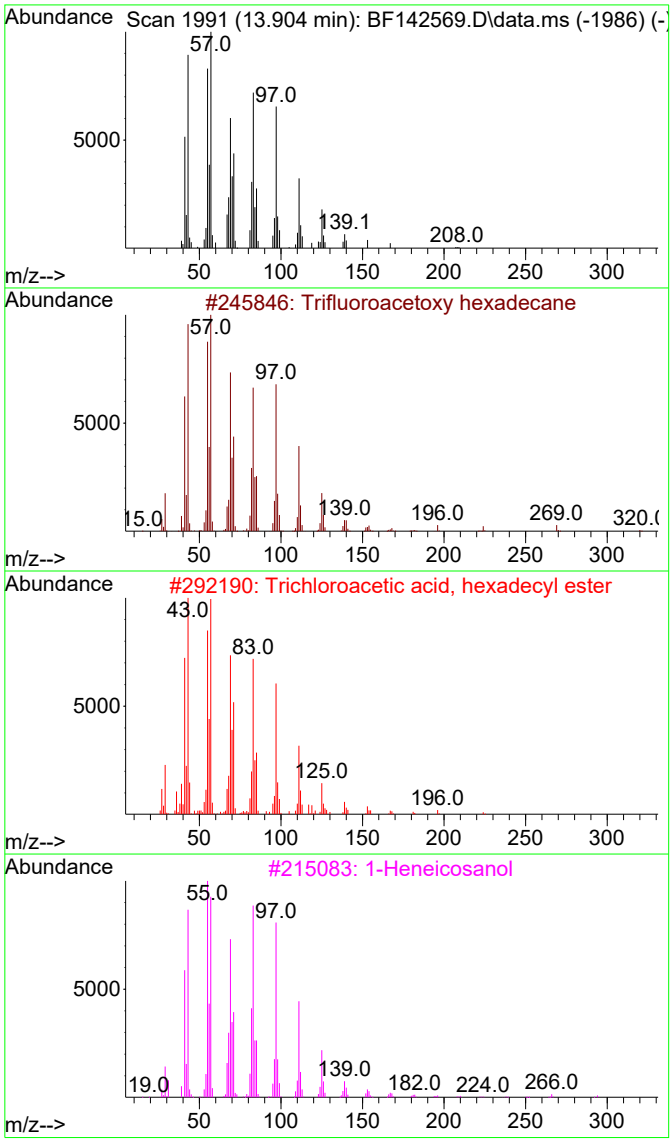
Instrument :
BNA_F
ClientSampleId :
TP-47

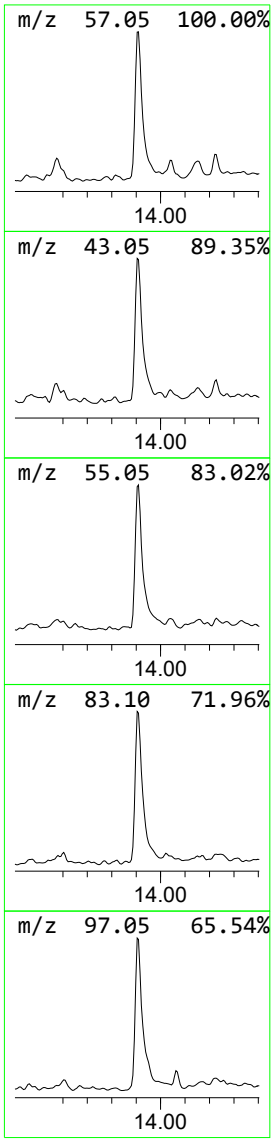
****

Peak Number 5 Trifluoroacetoxy hexadecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	4.90 ng	138903	Chrysene-d12	14.069

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	95
2	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94
3	1-Heneicosanol	312	C21H44O	015594-90-8	93
4	Octacosanol	410	C28H58O	000557-61-9	93
5	1-Heptacosanol	396	C27H56O	002004-39-9	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142569.D
Acq On : 30 May 2025 14:52
Operator : RC/JU
Sample : Q2150-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-47

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.116	7.0	ng	238633	1	6.898	678910	20.0
Benzophenone	10.651	4.3	ng	212672	3	9.939	978352	20.0
n-Hexadecanoic ...	11.945	10.0	ng	455982	4	11.422	910343	20.0
Octadecanoic acid	12.733	3.6	ng	162859	4	11.422	910343	20.0
Trifluoroacetox...	13.904	4.9	ng	138903	5	14.069	567387	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142584.D
Acq On : 30 May 2025 22:11
Operator : RC/JU
Sample : Q2150-06
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-50

Quant Time: May 31 00:11:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

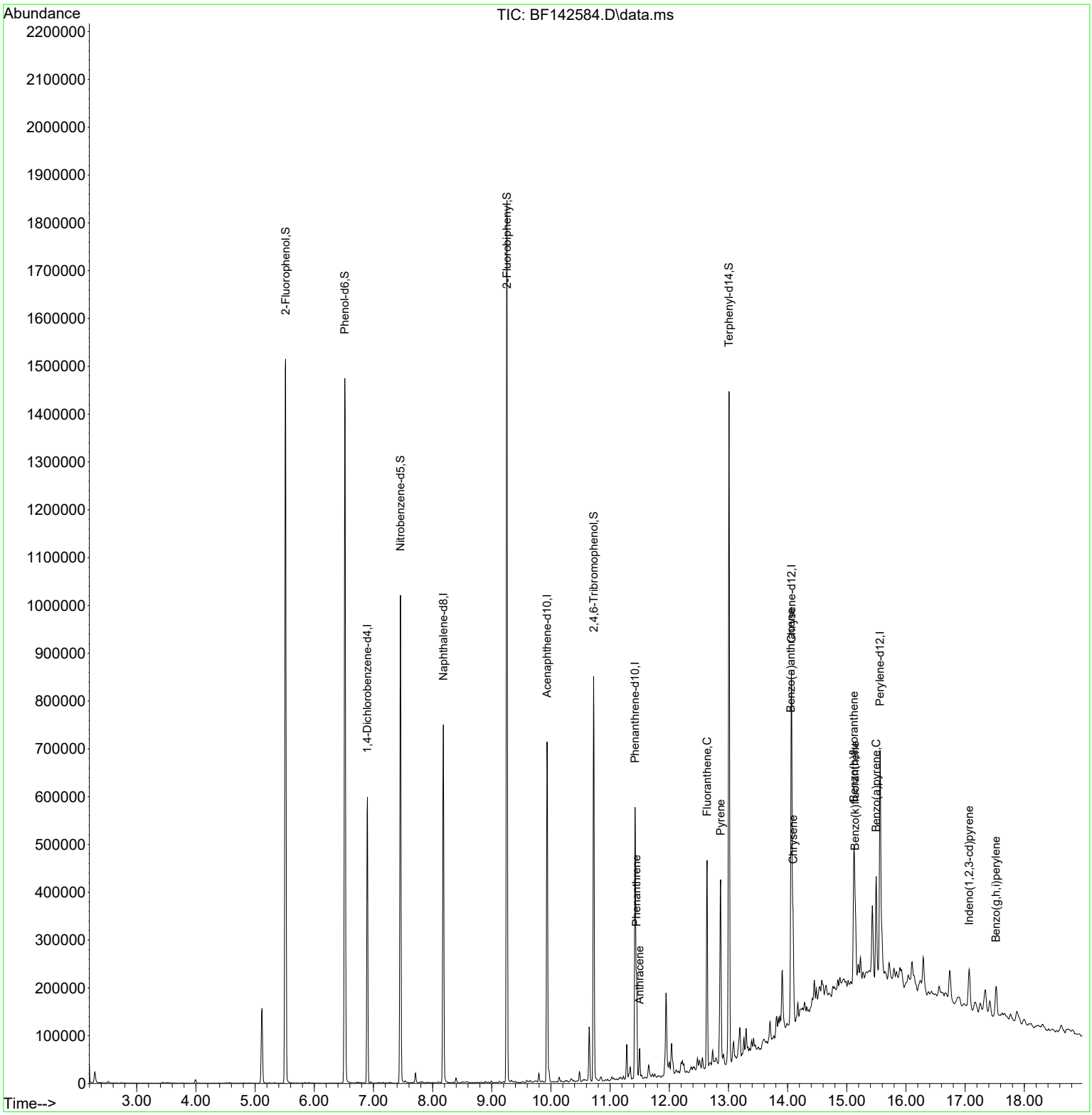
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	131837	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	470624	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	213475	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	294969	20.000	ng	-0.01
76) Chrysene-d12	14.069	240	274370	20.000	ng	0.00
86) Perylene-d12	15.563	264	279386	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	606974	77.566	ng	0.00
7) Phenol-d6	6.516	99	711329	75.514	ng	-0.02
23) Nitrobenzene-d5	7.457	82	427869	49.575	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	145565	61.438	ng	-0.02
45) 2-Fluorobiphenyl	9.257	172	850482	53.460	ng	-0.01
79) Terphenyl-d14	13.010	244	670828	33.412	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.445	178	113607	7.207	ng	100
72) Anthracene	11.498	178	36095	2.244	ng	99
75) Fluoranthene	12.639	202	254483	17.277	ng	100
78) Pyrene	12.869	202	230618	9.010	ng	99
81) Benzo(a)anthracene	14.057	228	161449	8.812	ng	95
83) Chrysene	14.092	228	122044	7.413	ng	97
87) Indeno(1,2,3-cd)pyrene	17.068	276	60492	2.884	ng	97
88) Benzo(b)fluoranthene	15.121	252	189779m	11.477	ng	
89) Benzo(k)fluoranthene	15.139	252	61390m	3.964	ng	
90) Benzo(a)pyrene	15.498	252	130312	8.361	ng	97
92) Benzo(g,h,i)perylene	17.521	276	58698	3.450	ng	95

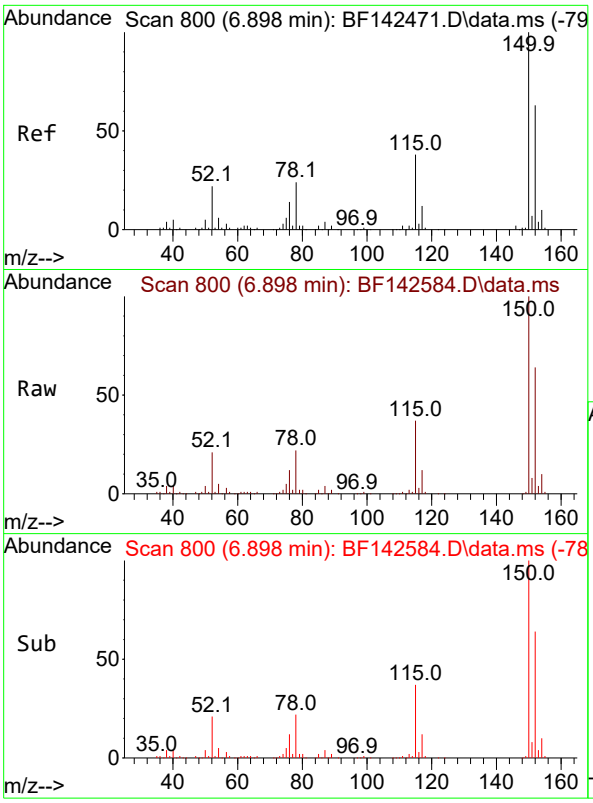
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142584.D
Acq On : 30 May 2025 22:11
Operator : RC/JU
Sample : Q2150-06
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-50

Quant Time: May 31 00:11:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



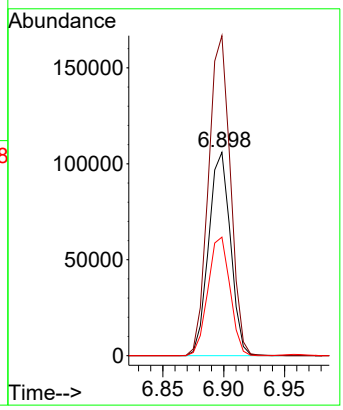


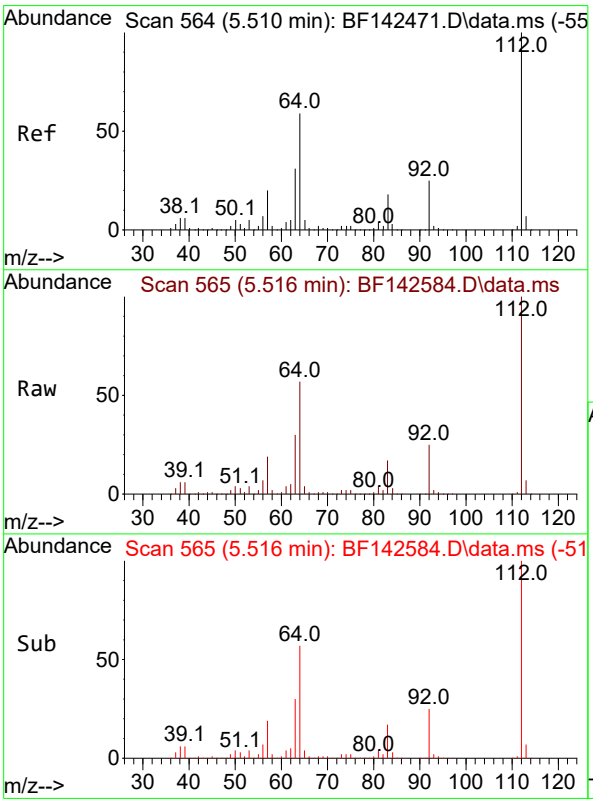
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Instrument :
BNA_F
ClientSampleId :
TP-50

Tgt Ion:152 Resp: 131837

Ion	Ratio	Lower	Upper
152	100		
150	157.3	128.2	192.4
115	58.3	48.3	72.5

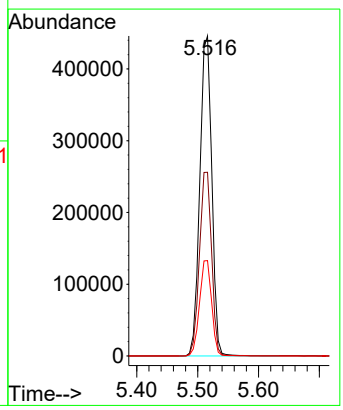


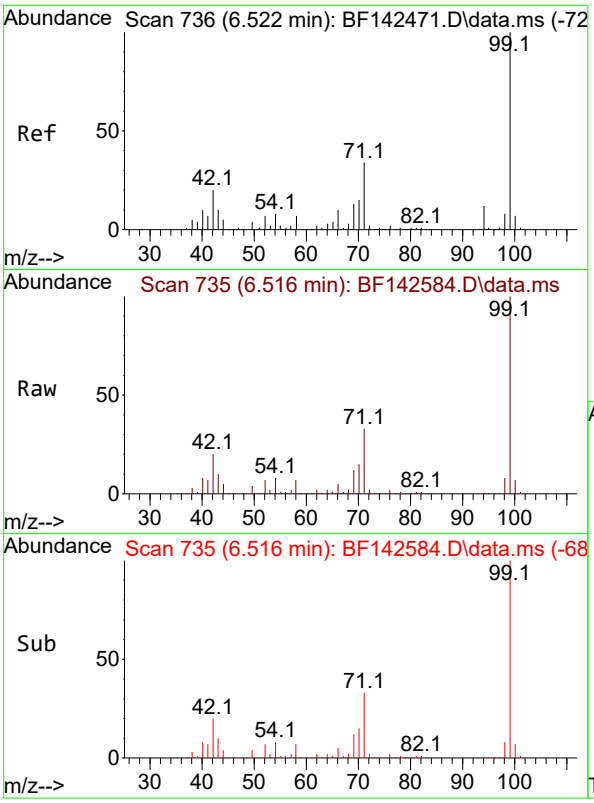


#5
2-Fluorophenol
Concen: 77.566 ng
RT: 5.516 min Scan# 565
Delta R.T. 0.000 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Tgt Ion:112 Resp: 606974

Ion	Ratio	Lower	Upper
112	100		
64	57.4	47.5	71.3
63	29.8	24.9	37.3



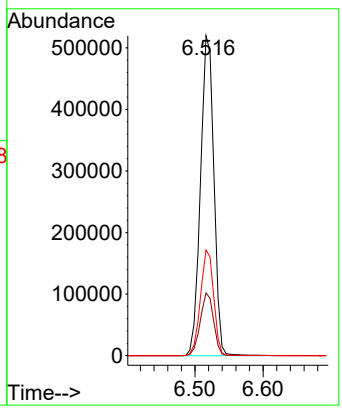


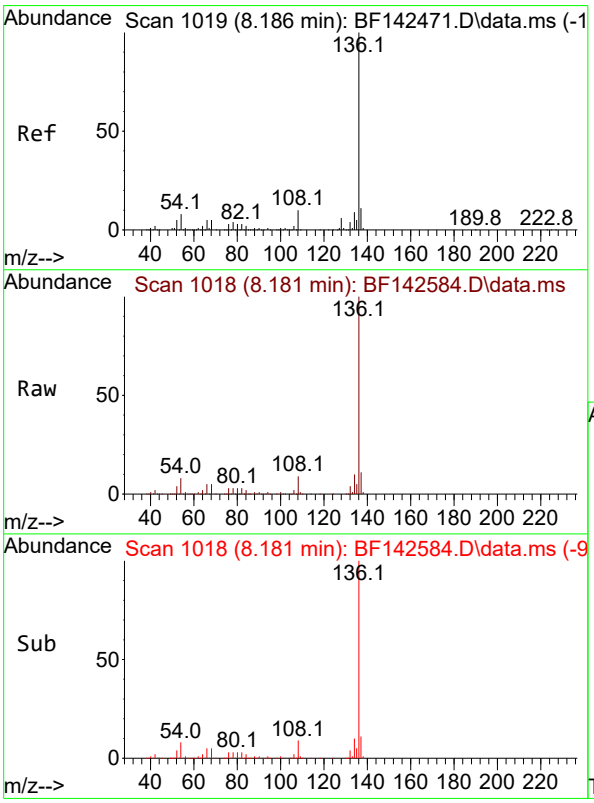
#7
Phenol-d6
Concen: 75.514 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Instrument :
BNA_F
ClientSampleId :
TP-50

Tgt Ion: 99 Resp: 711329

Ion	Ratio	Lower	Upper
99	100		
42	19.6	16.2	24.2
71	33.1	27.3	40.9

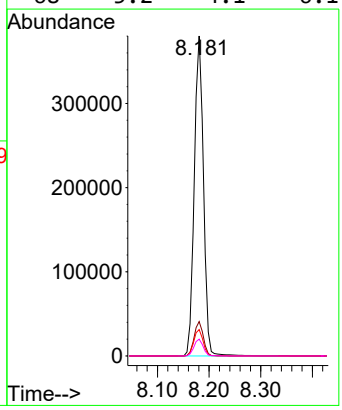


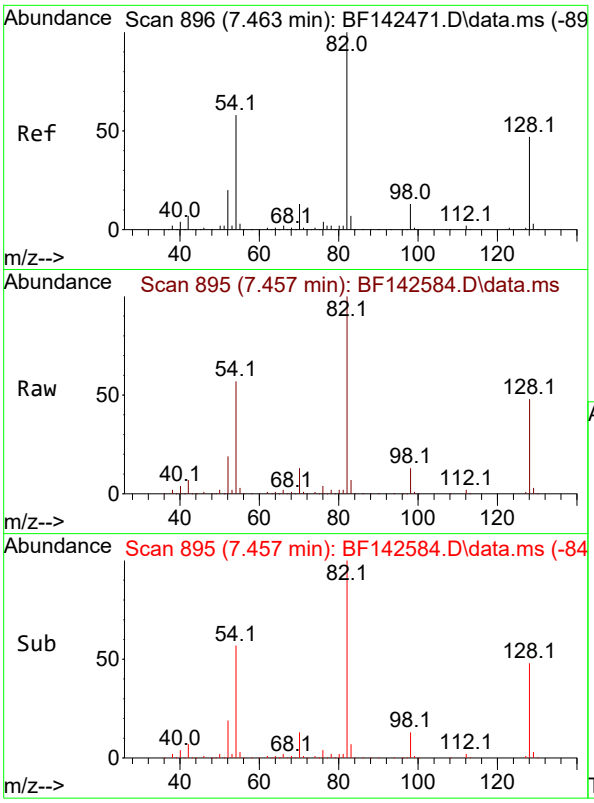


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Tgt Ion:136 Resp: 470624

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	8.3	6.6	10.0
68	5.2	4.1	6.1



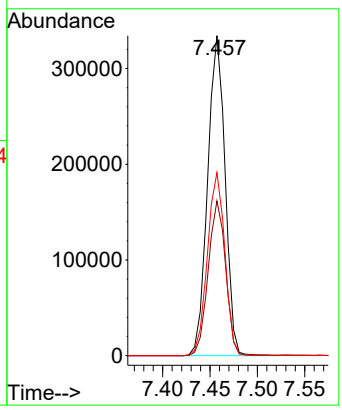


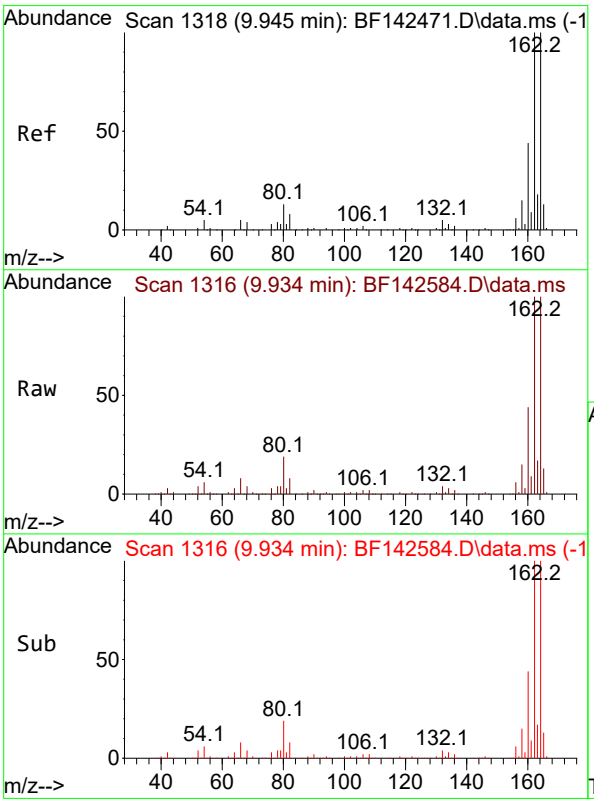
#23
Nitrobenzene-d5
Concen: 49.575 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Instrument :
BNA_F
ClientSampleId :
TP-50

Tgt Ion: 82 Resp: 427869

Ion	Ratio	Lower	Upper
82	100		
128	48.4	37.4	56.2
54	57.2	46.6	70.0

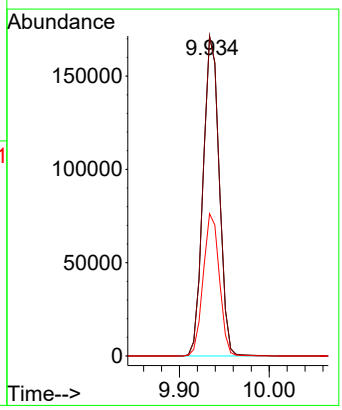


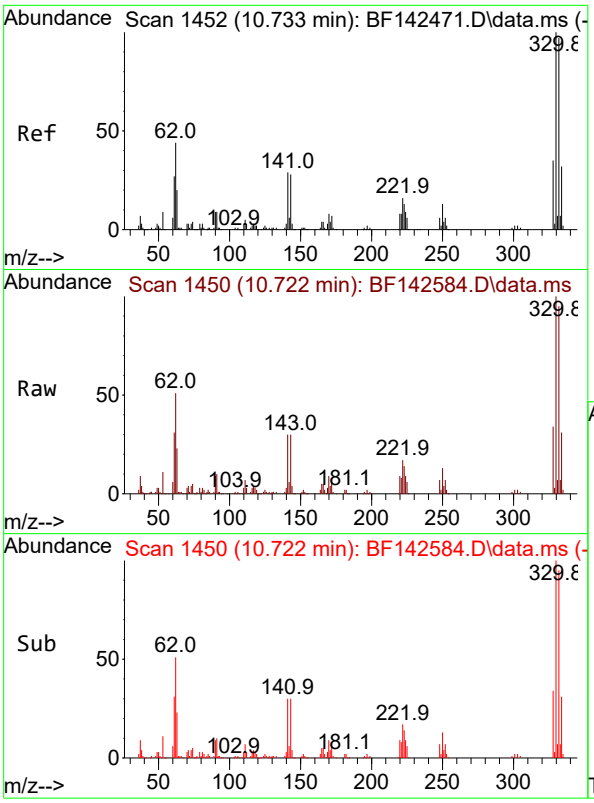


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.934 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Tgt Ion:164 Resp: 213475

Ion	Ratio	Lower	Upper
164	100		
162	100.1	80.2	120.4
160	44.5	35.6	53.4



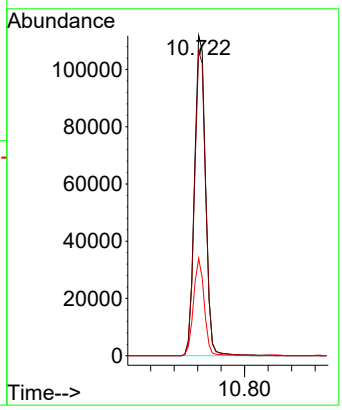


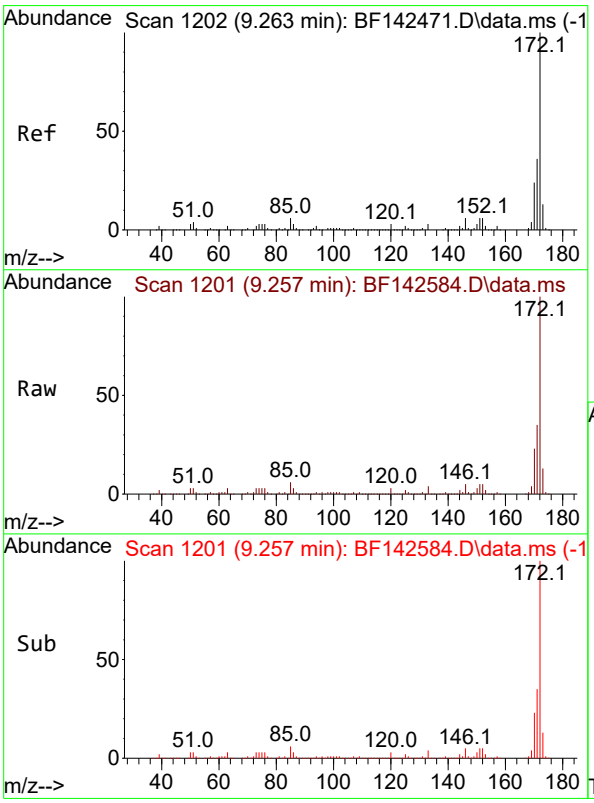
#42
2,4,6-Tribromophenol
Concen: 61.438 ng
RT: 10.722 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Instrument :
BNA_F
ClientSampleId :
TP-50

Tgt Ion:330 Resp: 145565

Ion	Ratio	Lower	Upper
330	100		
332	95.7	77.6	116.4
141	29.7	24.6	36.8

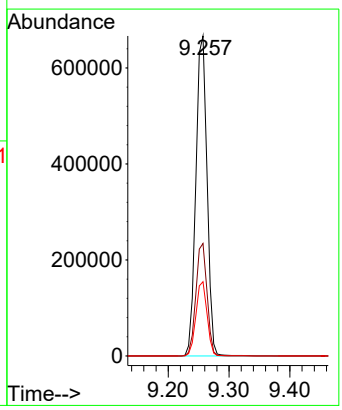


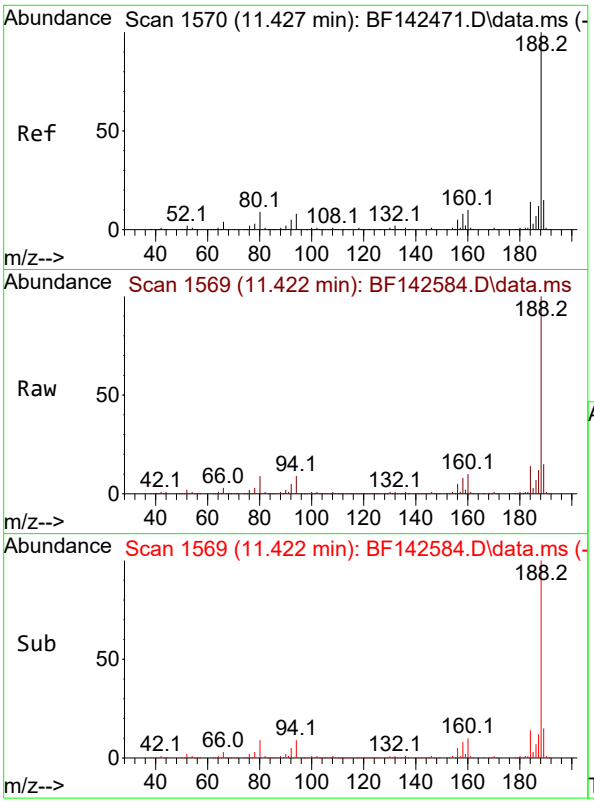


#45
2-Fluorobiphenyl
Concen: 53.460 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Tgt Ion:172 Resp: 850482

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.6	42.8
170	23.2	18.9	28.3



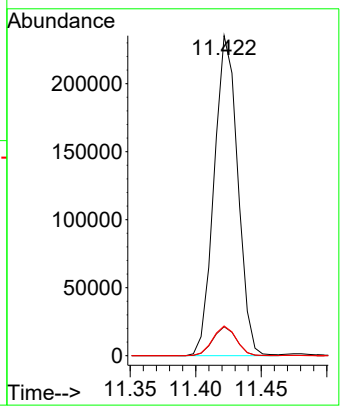


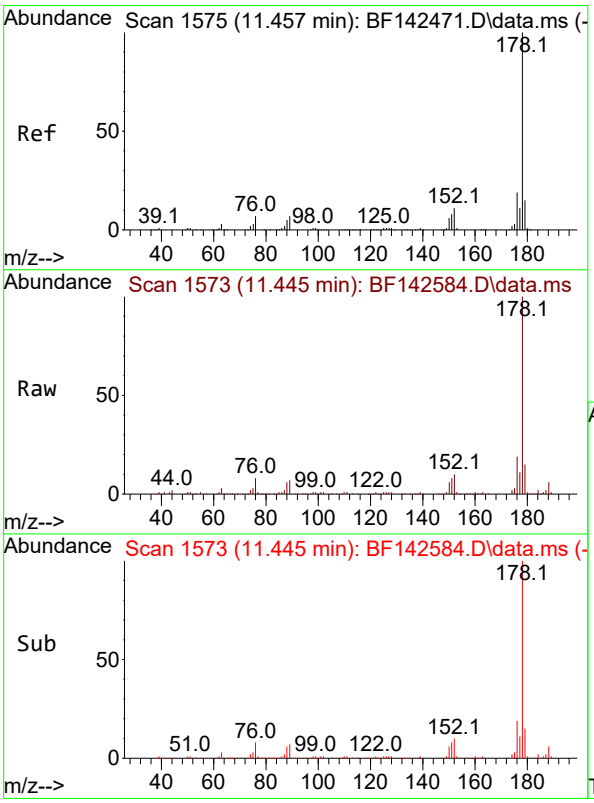
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Instrument :
BNA_F
ClientSampleId :
TP-50

Tgt Ion:188 Resp: 294969

Ion	Ratio	Lower	Upper
188	100		
94	9.0	6.6	10.0
80	9.3	7.4	11.0

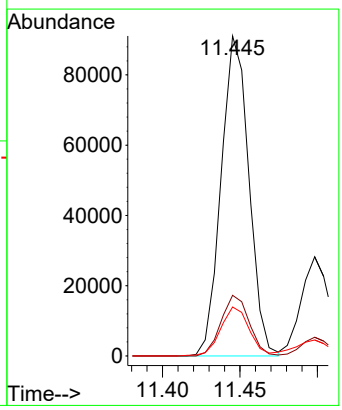


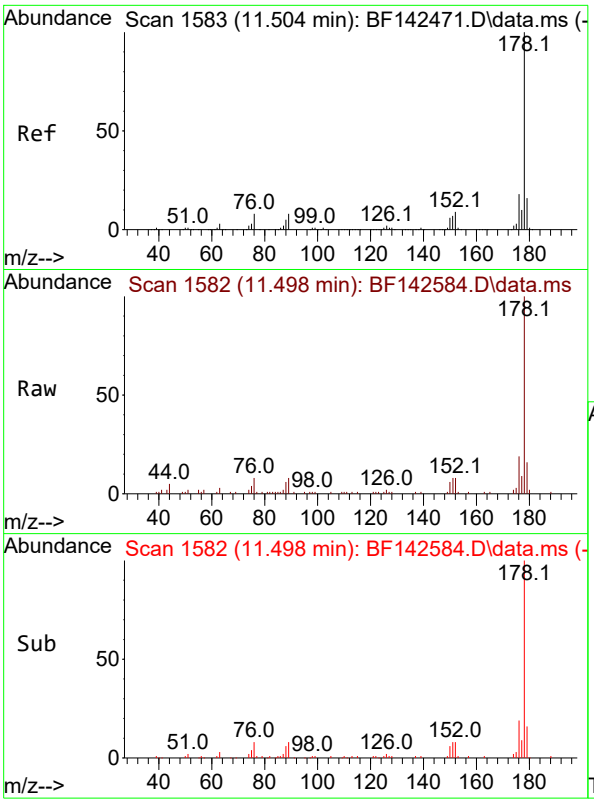


#71
Phenanthrene
Concen: 7.207 ng
RT: 11.445 min Scan# 1573
Delta R.T. -0.012 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Tgt Ion:178 Resp: 113607

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.0
179	15.3	12.3	18.5



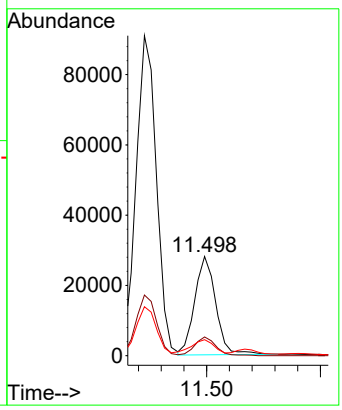


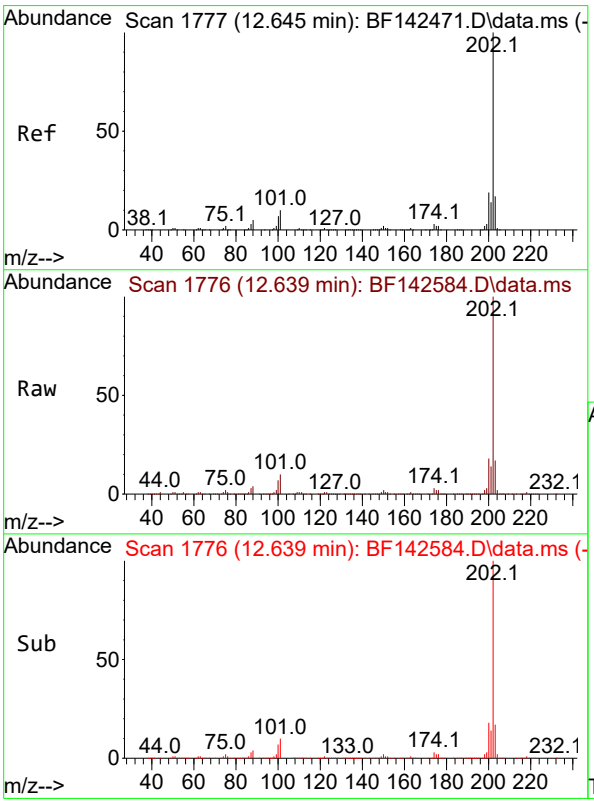
#72
Anthracene
Concen: 2.244 ng
RT: 11.498 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Instrument :
BNA_F
ClientSampleId :
TP-50

Tgt Ion:178 Resp: 36095

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.6	21.8
179	16.1	12.4	18.6

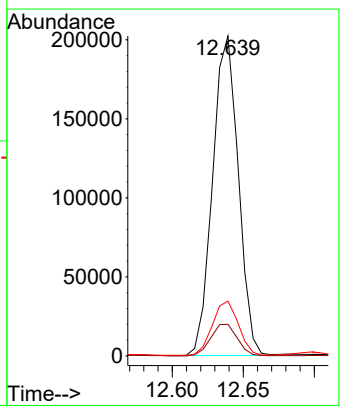


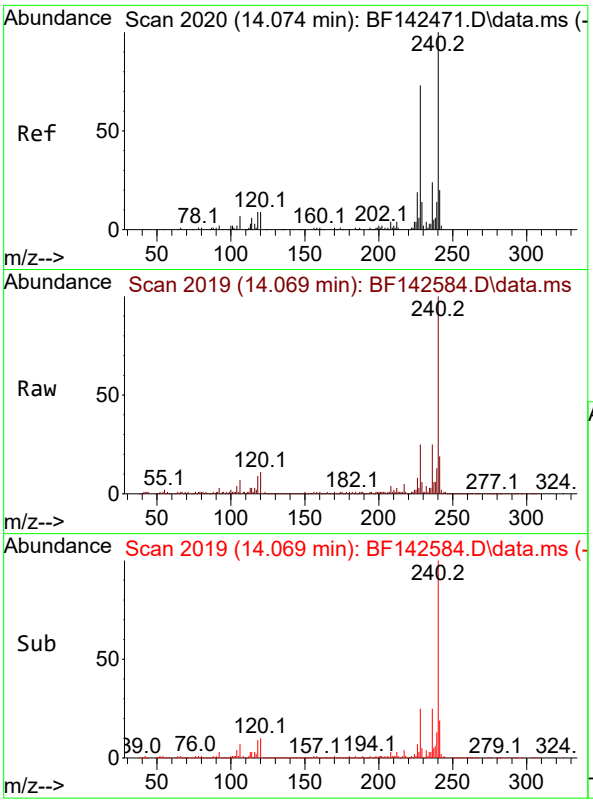


#75
Fluoranthene
Concen: 17.277 ng
RT: 12.639 min Scan# 1776
Delta R.T. -0.006 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Tgt Ion:202 Resp: 254483

Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	29.6
203	17.1	0.0	37.2



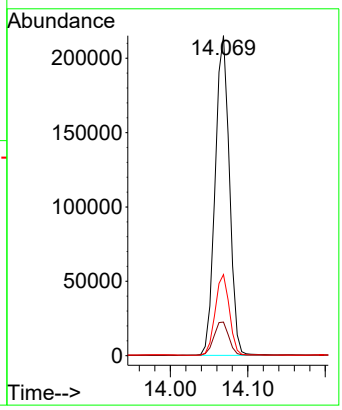


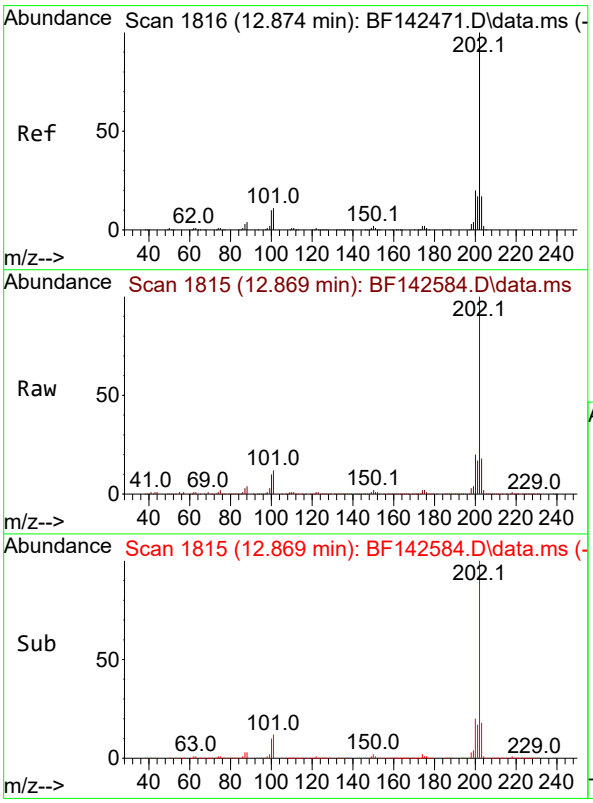
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Instrument :
BNA_F
ClientSampleId :
TP-50

Tgt Ion:240 Resp: 274370

Ion	Ratio	Lower	Upper
240	100		
120	10.5	7.5	11.3
236	25.4	19.6	29.4

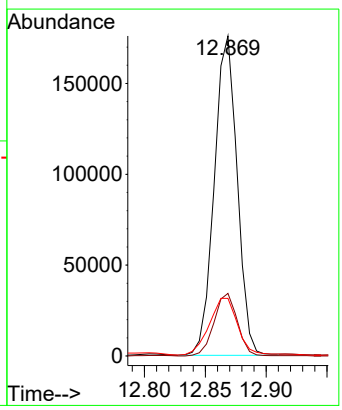


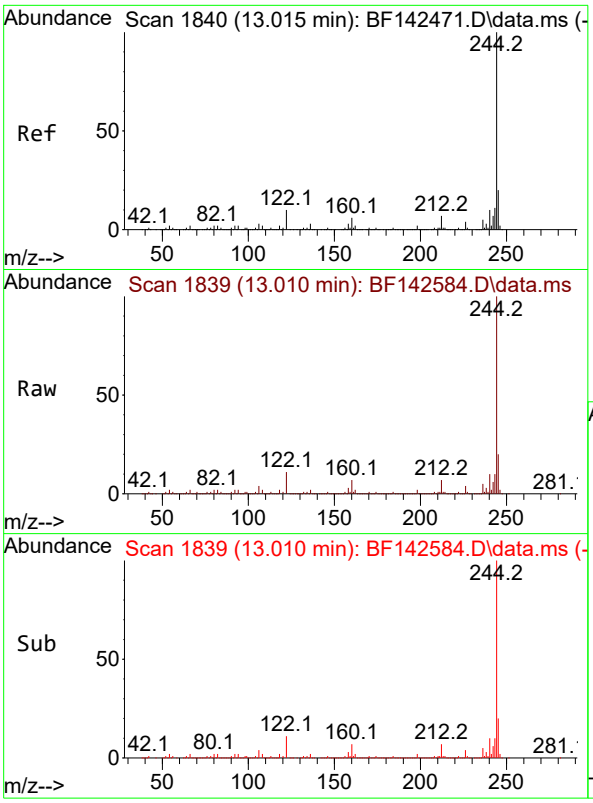


#78
Pyrene
Concen: 9.010 ng
RT: 12.869 min Scan# 1815
Delta R.T. -0.006 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Tgt Ion:202 Resp: 230618

Ion	Ratio	Lower	Upper
202	100		
200	19.6	16.1	24.1
203	18.0	13.9	20.9



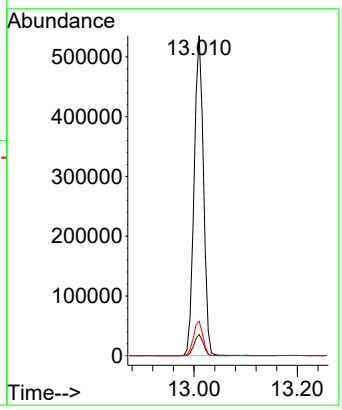


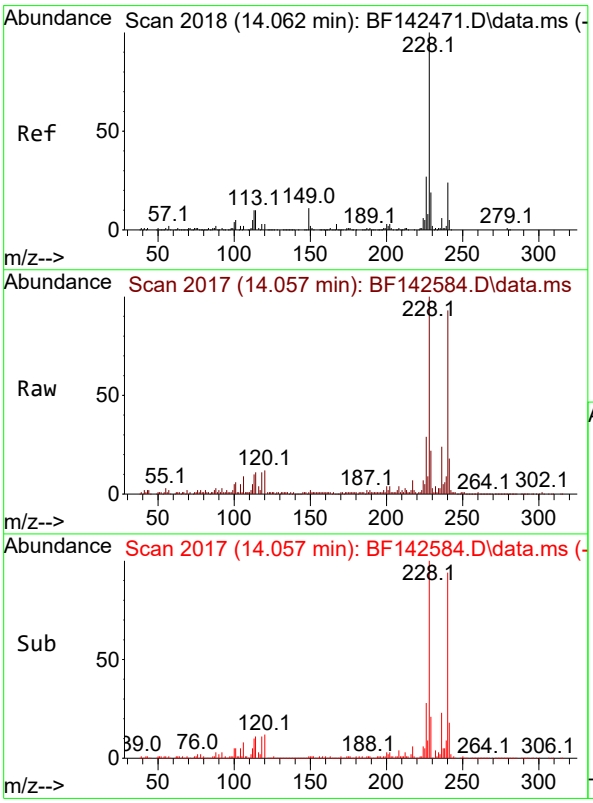
#79
Terphenyl-d14
Concen: 33.412 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Instrument :
BNA_F
ClientSampleId :
TP-50

Tgt Ion:244 Resp: 670828

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.3	7.9
122	10.8	8.2	12.2

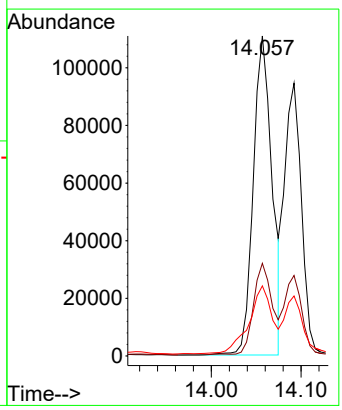


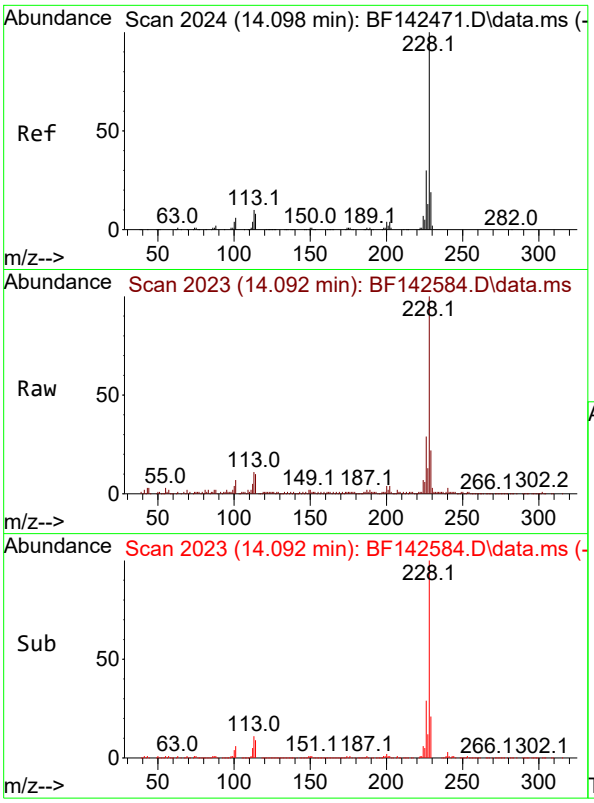


#81
Benzo(a)anthracene
Concen: 8.812 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Tgt Ion:228 Resp: 161449

Ion	Ratio	Lower	Upper
228	100		
226	29.0	21.2	31.8
229	21.9	15.5	23.3



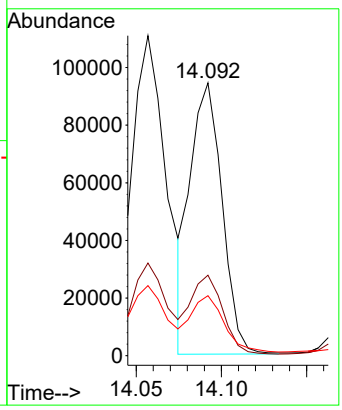


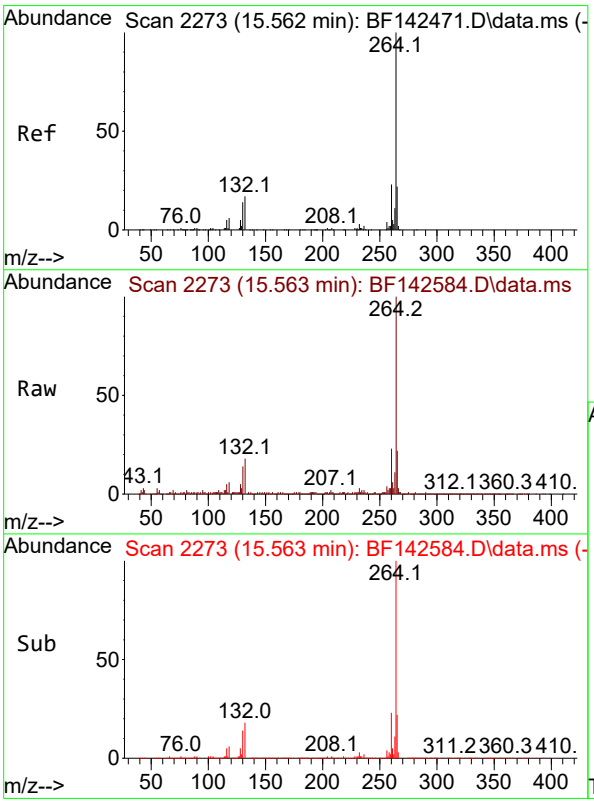
#83
Chrysene
Concen: 7.413 ng
RT: 14.092 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Instrument :
BNA_F
ClientSampleId :
TP-50

Tgt Ion:228 Resp: 122044

Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.8	35.6
229	22.0	15.4	23.2

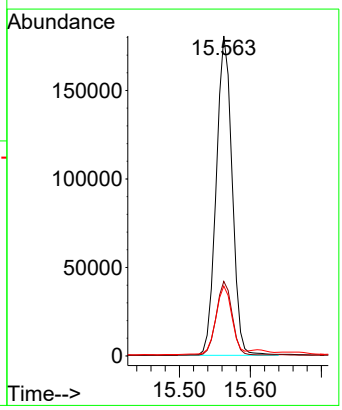


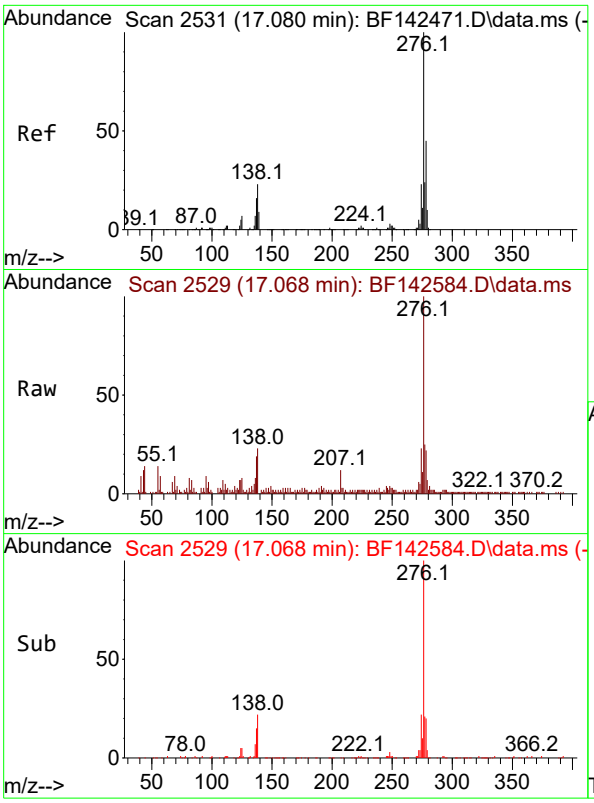


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Tgt Ion:264 Resp: 279386

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	21.8	17.7	26.5



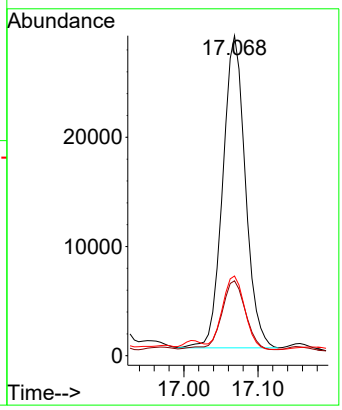


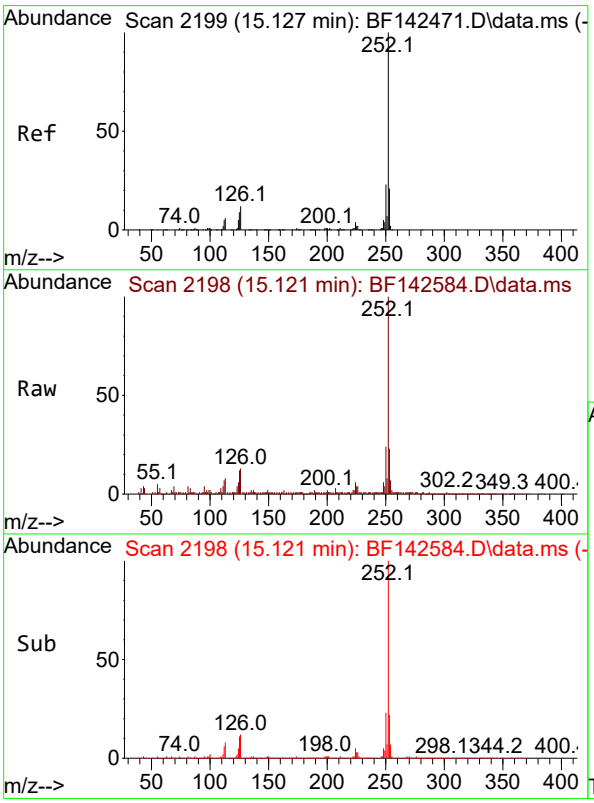
#87
Indeno(1,2,3-cd)pyrene
Concen: 2.884 ng
RT: 17.068 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Instrument :
BNA_F
ClientSampleId :
TP-50

Tgt Ion:276 Resp: 60492

Ion	Ratio	Lower	Upper
276	100		
138	23.4	19.9	29.9
277	23.5	20.2	30.2

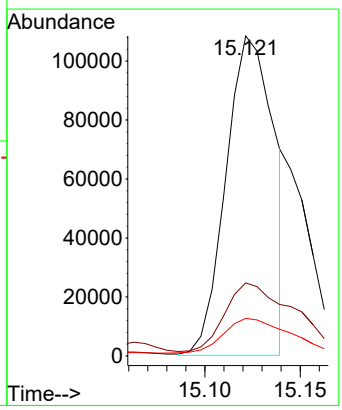


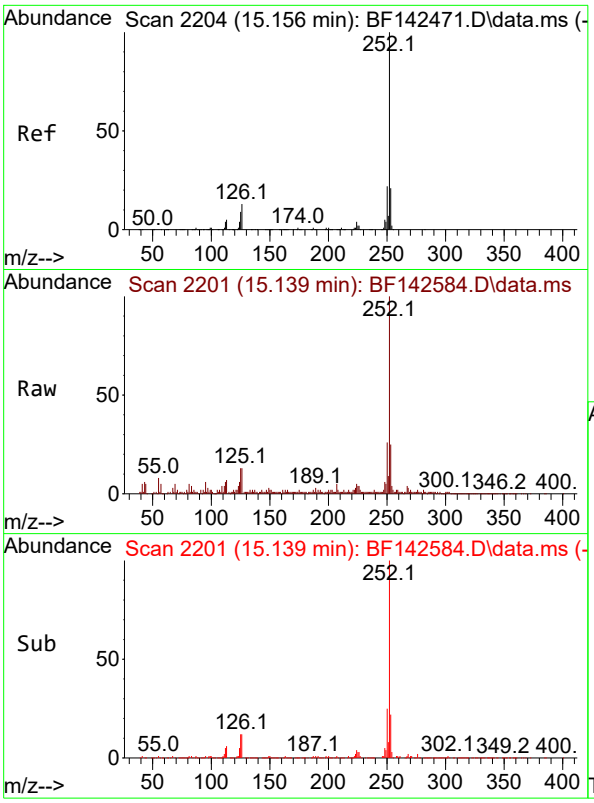


#88
Benzo(b)fluoranthene
Concen: 11.477 ng m
RT: 15.121 min Scan# 2198
Delta R.T. -0.006 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Tgt Ion:252 Resp: 189779

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.0	25.4
125	11.8	7.4	11.0#



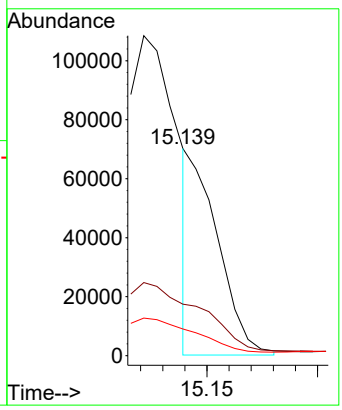


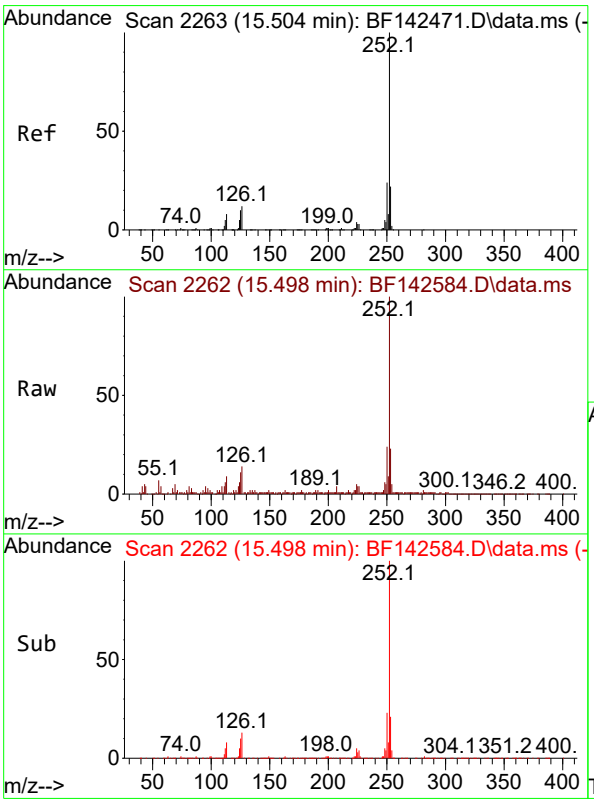
#89
Benzo(k)fluoranthene
Concen: 3.964 ng m
RT: 15.139 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Instrument :
BNA_F
ClientSampleId :
TP-50

Tgt Ion:252 Resp: 61390

Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.0	25.4
125	12.9	7.3	10.9#

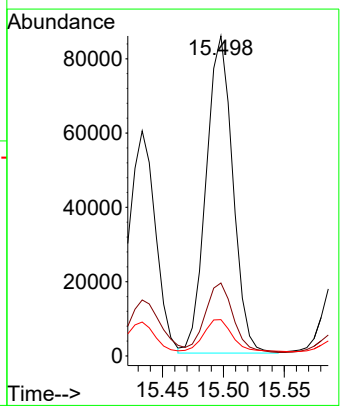


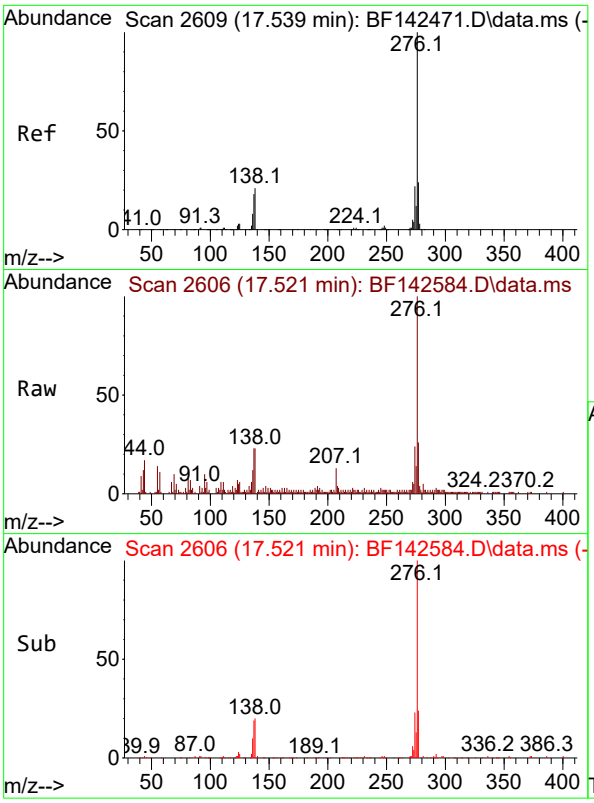


#90
Benzo(a)pyrene
Concen: 8.361 ng
RT: 15.498 min Scan# 2262
Delta R.T. -0.012 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Tgt Ion:252 Resp: 130312

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.4	26.0
125	11.4	7.9	11.9



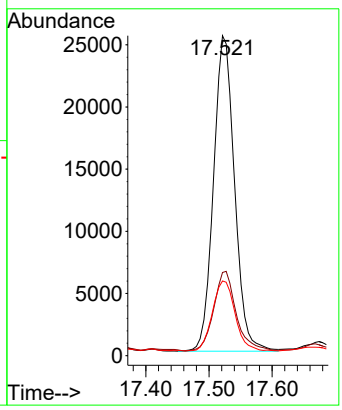


#92
Benzo(g,h,i)perylene
Concen: 3.450 ng
RT: 17.521 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF142584.D
Acq: 30 May 2025 22:11

Instrument :
BNA_F
ClientSampleId :
TP-50

Tgt Ion:276 Resp: 58698

Ion	Ratio	Lower	Upper
276	100		
277	26.0	19.2	28.8
138	23.4	16.8	25.2



Sample Results: **BF142584.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142584.D
Acq On : 30 May 2025 22:11
Operator : RC/JU
Sample : Q2150-06
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-50

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142584.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.293	11	17	29	rVB	22407	39153	1.65%	0.188%
2	5.116	488	497	507	rBV	156927	237811	10.05%	1.141%
3	5.516	558	565	570	rBV	1514657	2071322	87.50%	9.934%
4	6.516	729	735	749	rVB	1472988	2021827	85.41%	9.696%
5	6.898	794	800	805	rBV	598320	750434	31.70%	3.599%
6	7.457	889	895	900	rBV	1020565	1305577	55.15%	6.261%
7	7.710	934	938	949	rVB	20316	27863	1.18%	0.134%
8	8.181	1013	1018	1030	rBV	748295	928074	39.20%	4.451%
9	9.257	1195	1201	1206	rBV	1845056	2367318	100.00%	11.353%
10	9.934	1311	1316	1321	rBV	710782	895006	37.81%	4.292%
11	10.481	1405	1409	1415	rVB	20887	28170	1.19%	0.135%
12	10.645	1432	1437	1445	rVB	113423	144926	6.12%	0.695%
13	10.722	1445	1450	1466	rBV	846599	1081535	45.69%	5.187%
14	11.281	1540	1545	1549	rBV2	72827	92708	3.92%	0.445%
15	11.339	1549	1555	1559	rVB2	24799	43302	1.83%	0.208%
16	11.422	1564	1569	1578	rBV2	566025	973547	41.12%	4.669%
17	11.498	1578	1582	1586	rVB	57450	69333	2.93%	0.333%
18	11.651	1603	1608	1616	rBV2	27204	50559	2.14%	0.242%
19	11.945	1651	1658	1664	rBV2	172289	300309	12.69%	1.440%
20	12.039	1670	1674	1682	rVB2	62549	113191	4.78%	0.543%
21	12.198	1697	1701	1703	rBV4	21211	31224	1.32%	0.150%
22	12.475	1744	1748	1751	rBV	24286	34467	1.46%	0.165%
23	12.510	1751	1754	1759	rVV2	17264	27360	1.16%	0.131%
24	12.563	1759	1763	1768	rVB2	23016	32932	1.39%	0.158%
25	12.639	1771	1776	1780	rBV	434455	553254	23.37%	2.653%
26	12.733	1788	1792	1796	rBV2	29834	41467	1.75%	0.199%
27	12.869	1808	1815	1820	rBV	384967	593346	25.06%	2.846%
28	13.010	1831	1839	1846	rBV	1406482	1830782	77.34%	8.780%
29	13.086	1847	1852	1856	rBV2	40405	71342	3.01%	0.342%
30	13.192	1863	1870	1874	rBV	60998	112525	4.75%	0.540%
31	13.263	1878	1882	1884	rBV	33273	38793	1.64%	0.186%
32	13.298	1884	1888	1892	rVV2	44393	54578	2.31%	0.262%
33	13.392	1901	1904	1906	rBV	20950	23854	1.01%	0.114%
34	13.704	1954	1957	1961	rVB	36981	48034	2.03%	0.230%
35	13.816	1972	1976	1978	rBV2	38028	56352	2.38%	0.270%
36	13.910	1988	1992	2001	rVB	119906	201180	8.50%	0.965%

Sample Results: **BF142584.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142584.D
Acq On : 30 May 2025 22:11
Operator : RC/JU
Sample : Q2150-06
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-50

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	14.063	2012	2018	2029	rBV2	732753	1452452	61.35%	6.966%
38	15.121	2193	2198	2207	rBV	284551	659973	27.88%	3.165%
39	15.433	2247	2251	2257	rVB	148894	240930	10.18%	1.155%
40	15.498	2257	2262	2267	rBV	209688	331522	14.00%	1.590%
41	15.563	2268	2273	2285	rVB	467765	872822	36.87%	4.186%

Sum of corrected areas: 20851154

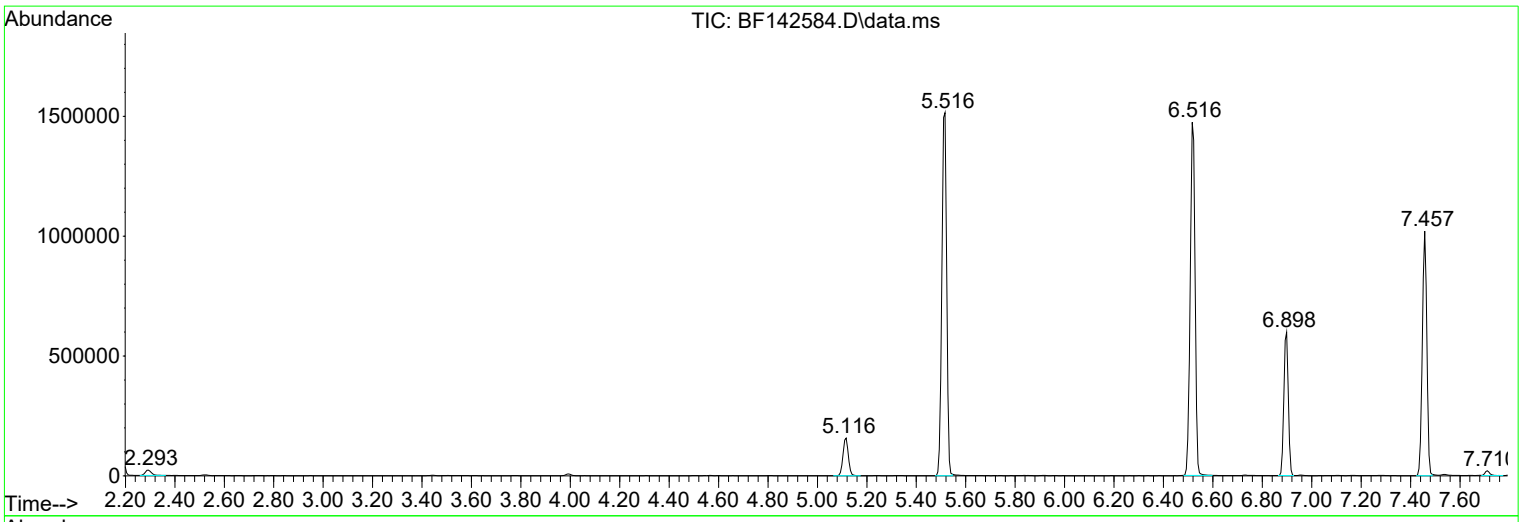
Sample Results: **BF142584.D**

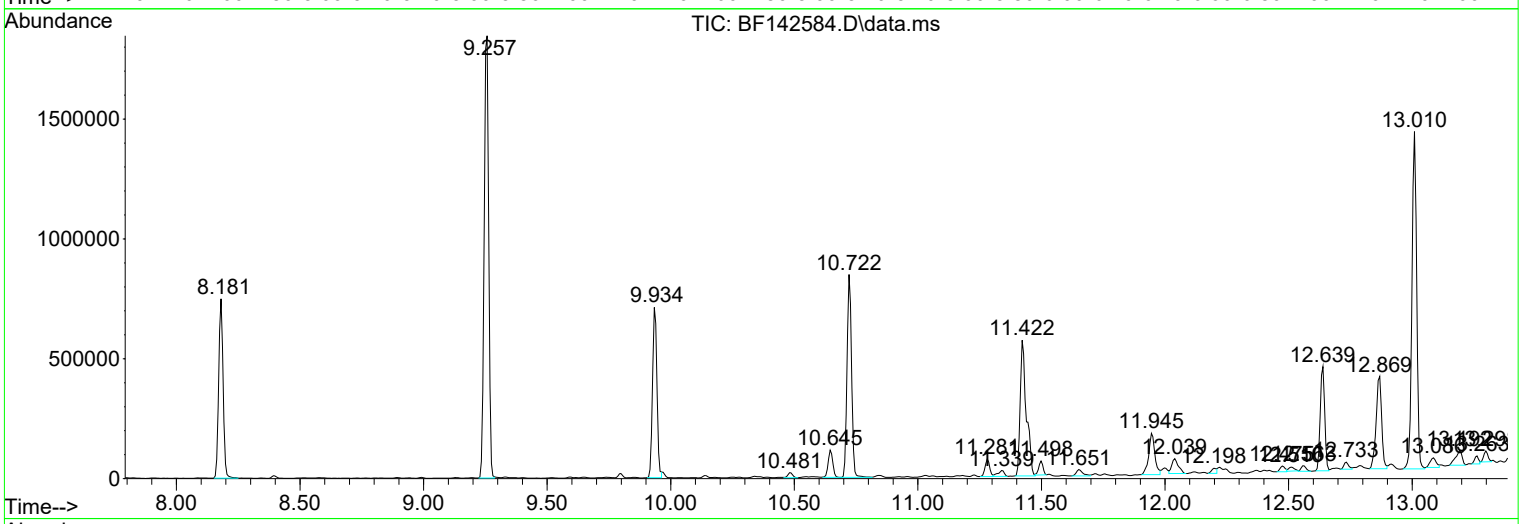
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142584.D
Acq On : 30 May 2025 22:11
Operator : RC/JU
Sample : Q2150-06
Misc :
ALS Vial : 20 Sample Multiplier: 1

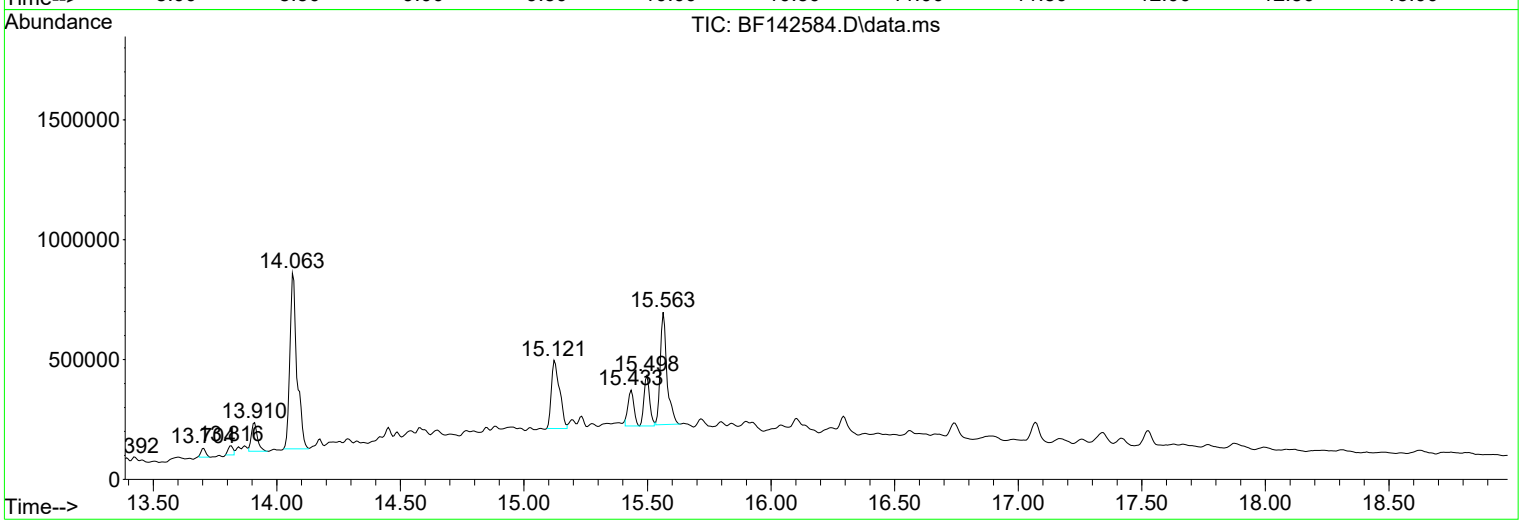
Instrument :
BNA_F
ClientSampleId :
TP-50

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.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\BF053025\
Data File : BF142584.D
Acq On : 30 May 2025 22:11
Operator : RC/JU
Sample : Q2150-06
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-50

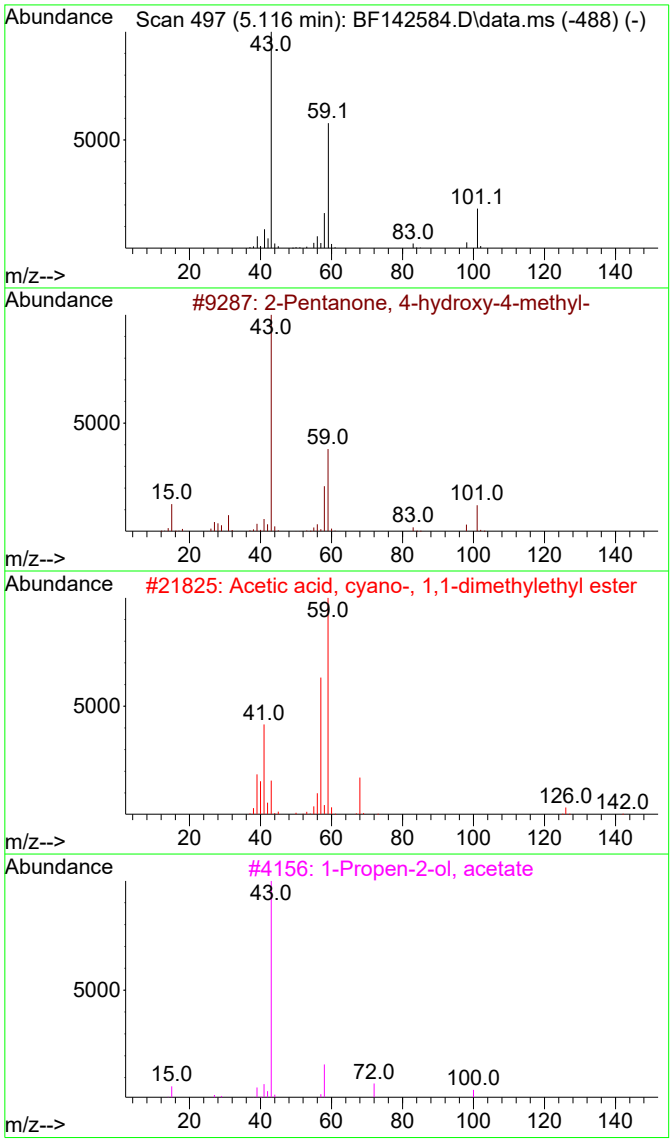
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

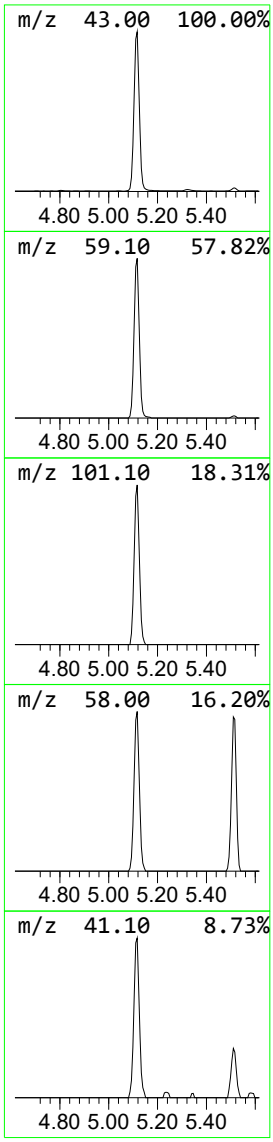
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	6.34 ng	237811	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5	1-Butanol, 3-methoxy-	104	C5H12O2	002517-43-3	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142584.D
Acq On : 30 May 2025 22:11
Operator : RC/JU
Sample : Q2150-06
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-50

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

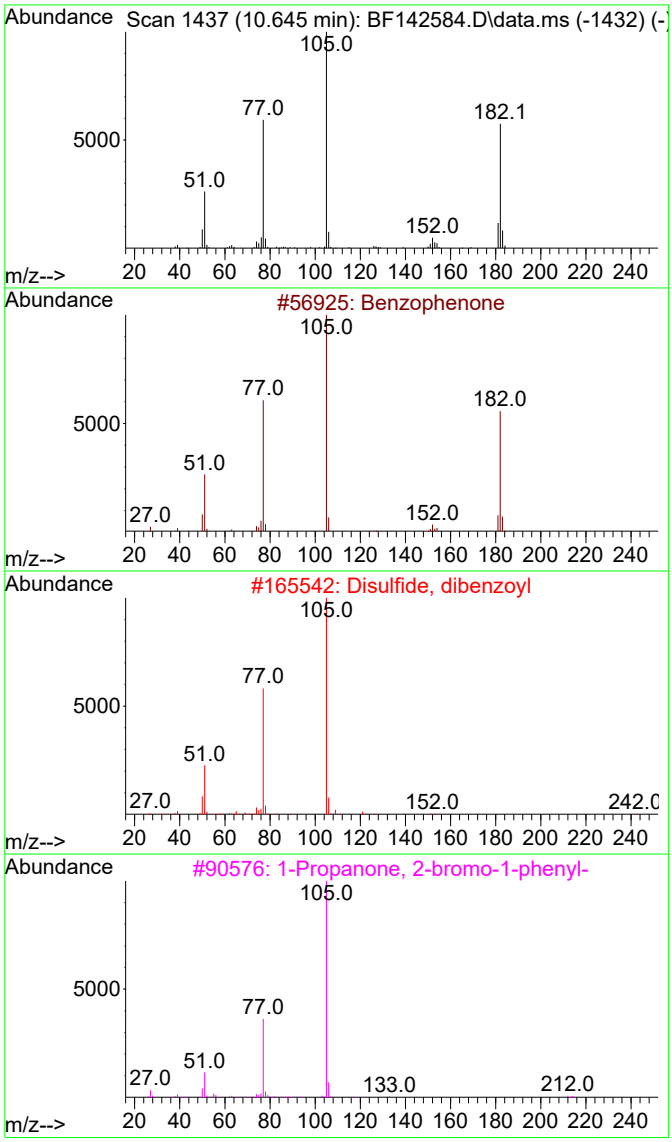
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

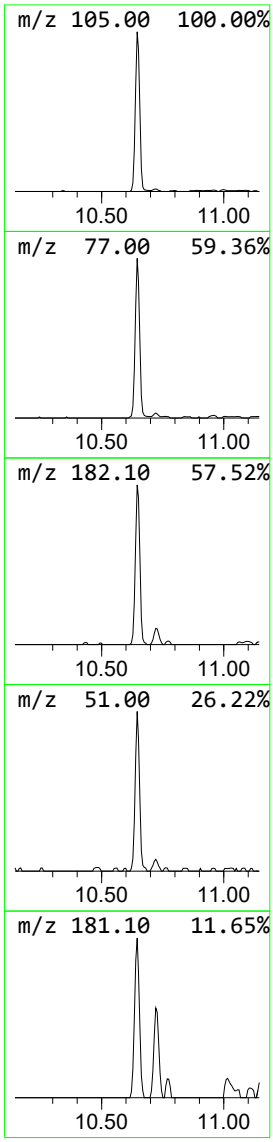
****

Peak Number 2 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	3.24 ng	144926	Acenaphthene-d10	9.934

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	49
3	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47
4	acetic acid, 2-bromo-, 2-oxo-2-p...	256	C10H9BrO3	1000401-50-0	47
5	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142584.D
Acq On : 30 May 2025 22:11
Operator : RC/JU
Sample : Q2150-06
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-50

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

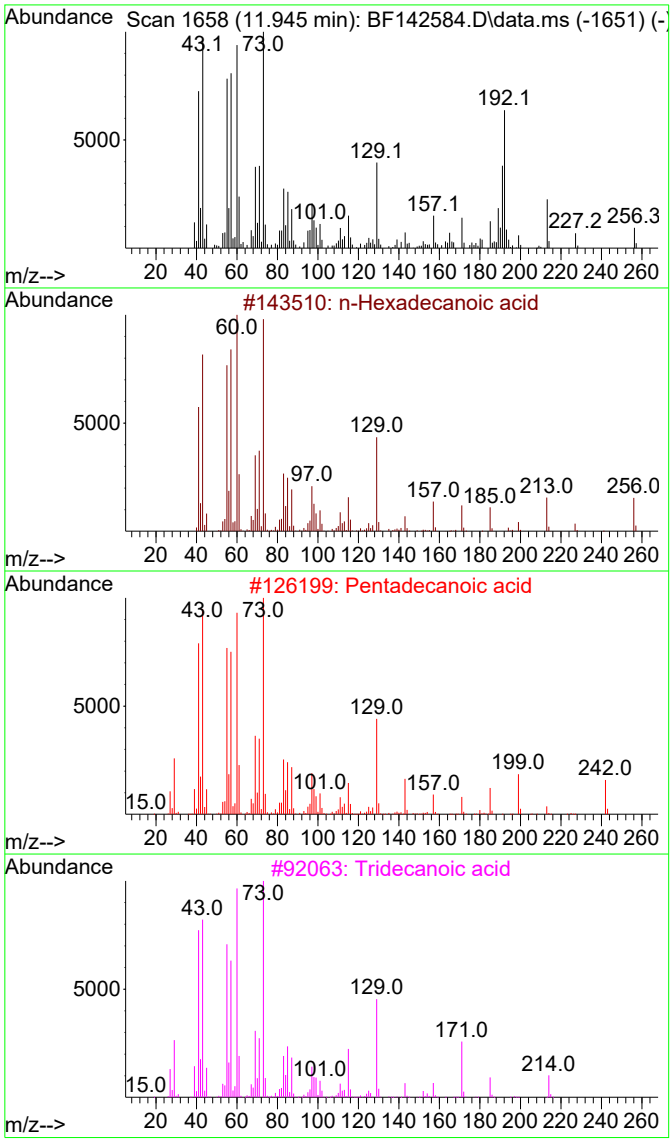
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

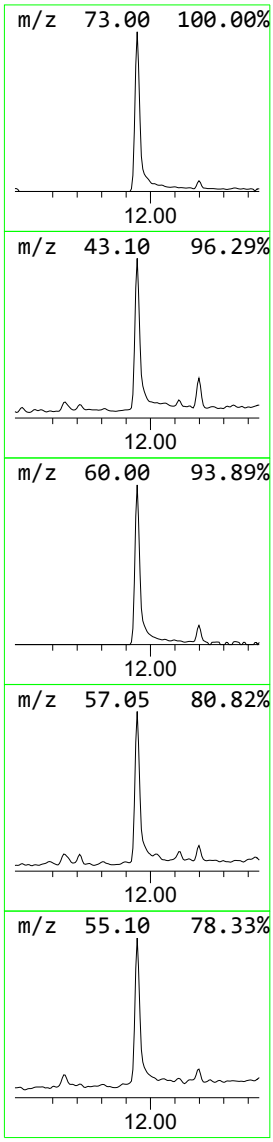
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	6.17 ng	300309	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	86
3	Tridecanoic acid	214	C13H26O2	000638-53-9	83
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	59
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	55





Sample Results: **BF142584.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142584.D
Acq On : 30 May 2025 22:11
Operator : RC/JU
Sample : Q2150-06
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-50

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

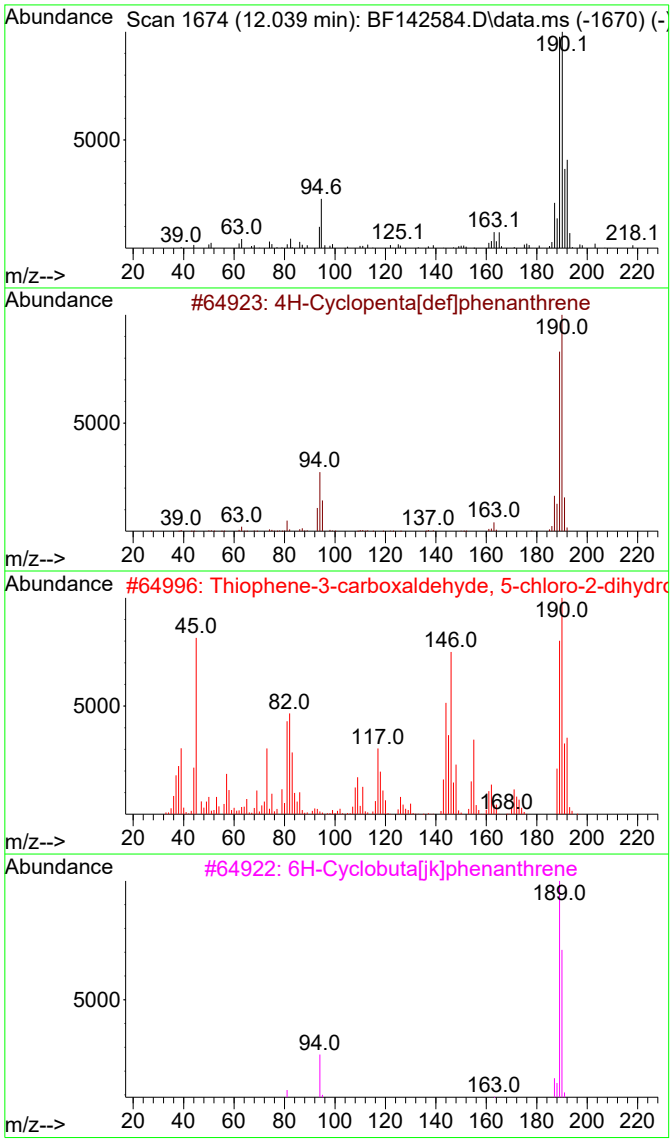
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

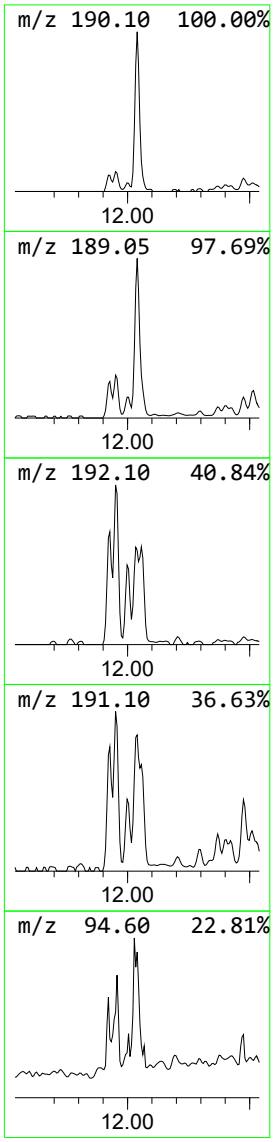
****

Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.039	2.33 ng	113191	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	81
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	50
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	45
4	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	40
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	36





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142584.D
Acq On : 30 May 2025 22:11
Operator : RC/JU
Sample : Q2150-06
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-50

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

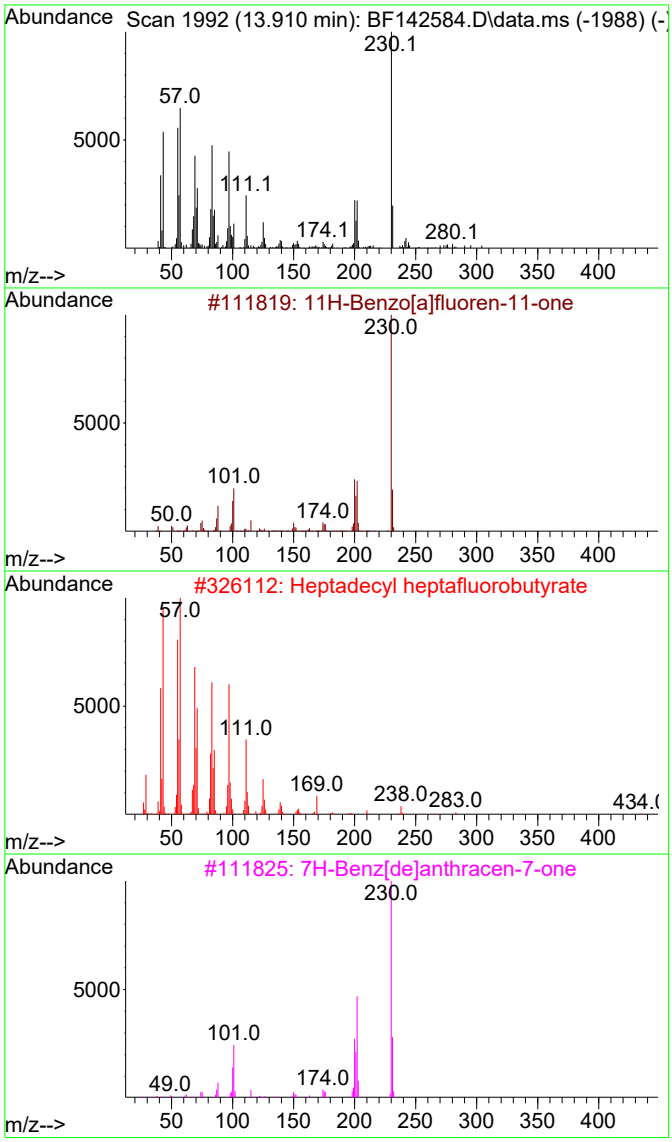
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

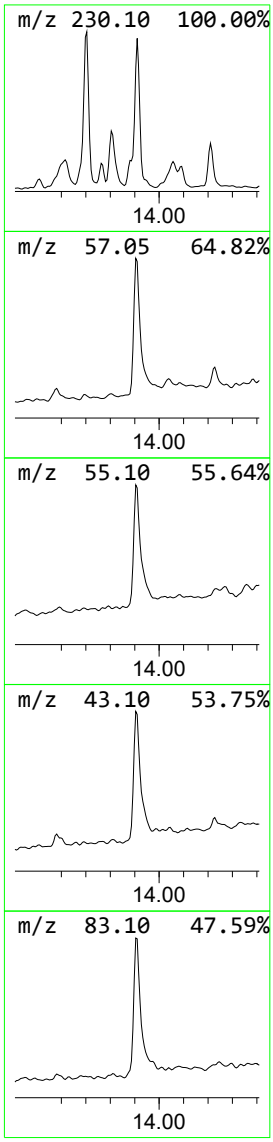
****

Peak Number 5 11H-Benzo[a]fluoren-11-one Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.910	2.77 ng	201180	Chrysene-d12	14.069

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	89
2	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	55
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	55
4	Heptafluorobutyric acid, hexadec...	438	C20H33F7O2	006385-15-5	53
5	Cycloeicosane	280	C20H40	000296-56-0	45





Sample Results: **BF142584.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142584.D
Acq On : 30 May 2025 22:11
Operator : RC/JU
Sample : Q2150-06
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-50

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

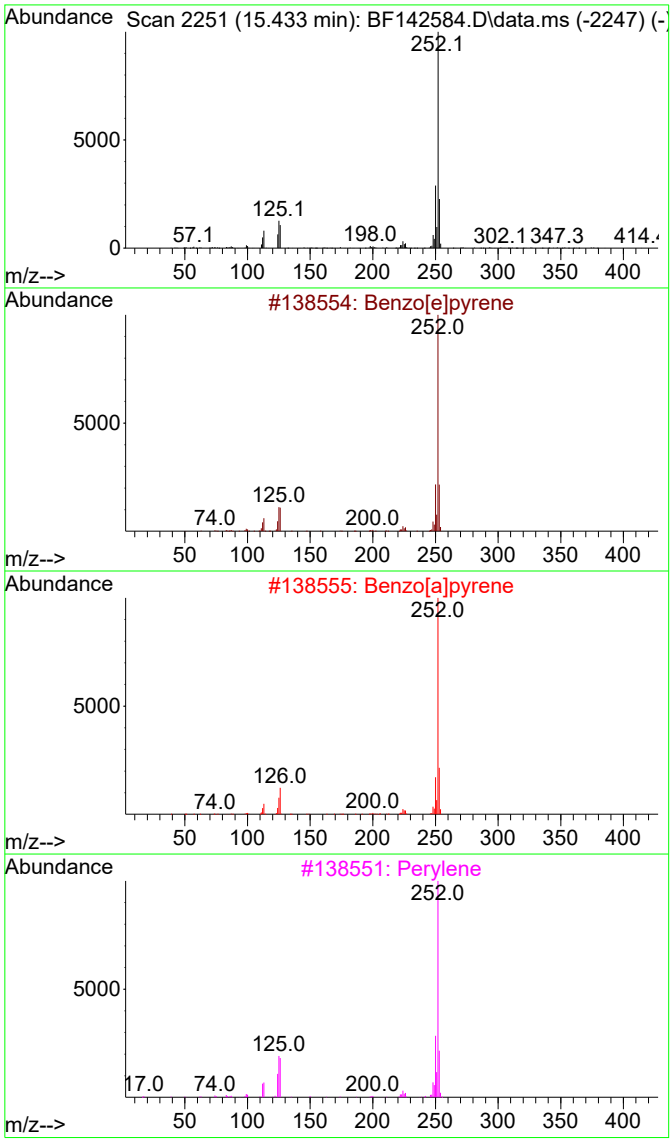
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

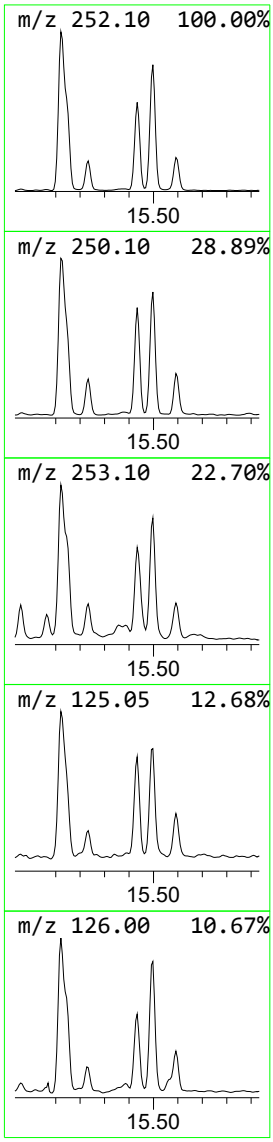
****

Peak Number 6 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.433	5.52 ng	240930	Perylene-d12	15.563

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Benzo[a]pyrene	252	C20H12	000050-32-8	97
3	Perylene	252	C20H12	000198-55-0	93
4	Benzo[b]fluoranthene	252	C20H12	000205-99-2	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142584.D
Acq On : 30 May 2025 22:11
Operator : RC/JU
Sample : Q2150-06
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-50

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.116	6.3	ng	237811	1	6.898	750434	20.0
Benzophenone	10.645	3.2	ng	144926	3	9.934	895006	20.0
n-Hexadecanoic ...	11.945	6.2	ng	300309	4	11.422	973547	20.0
4H-Cyclopenta[d...	12.039	2.3	ng	113191	4	11.422	973547	20.0
11H-Benzo[a]flu...	13.910	2.8	ng	201180	5	14.069	1452450	20.0
Benzo[e]pyrene	15.433	5.5	ng	240930	6	15.563	872822	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142579.D
Acq On : 30 May 2025 19:45
Operator : RC/JU
Sample : Q2150-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-51

Quant Time: May 30 22:29:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

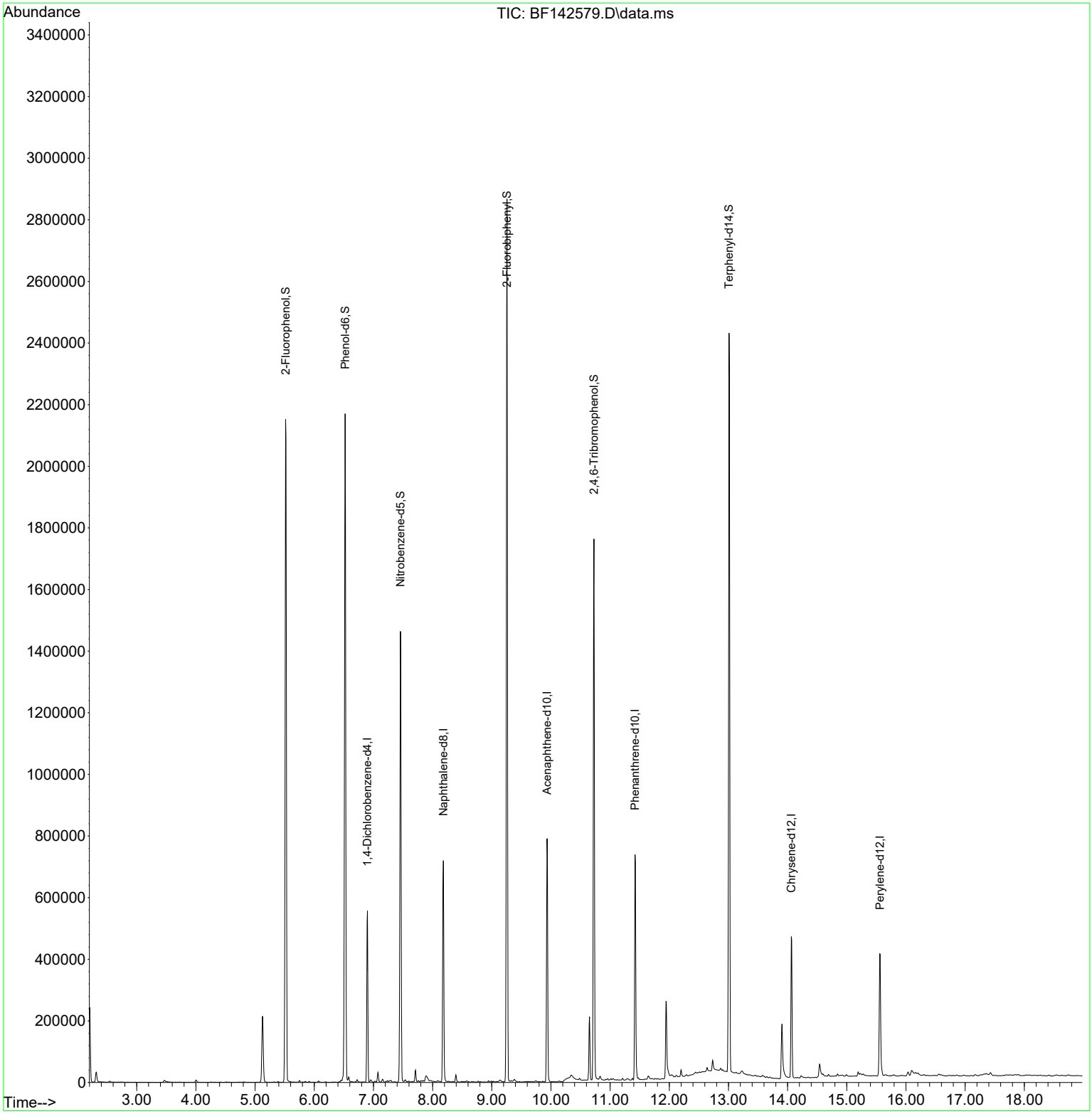
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	123122	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	465540	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	241553	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	396120	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	234971	20.000	ng	-0.01
86) Perylene-d12	15.562	264	241563	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	892849	122.174	ng	0.00
7) Phenol-d6	6.522	99	1110920	126.283	ng	-0.01
23) Nitrobenzene-d5	7.457	82	666097	78.020	ng	-0.02
42) 2,4,6-Tribromophenol	10.727	330	325495	121.411	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	1311542	72.858	ng	-0.01
79) Terphenyl-d14	13.010	244	1212570	70.521	ng	0.00
Target Compounds						Qvalue

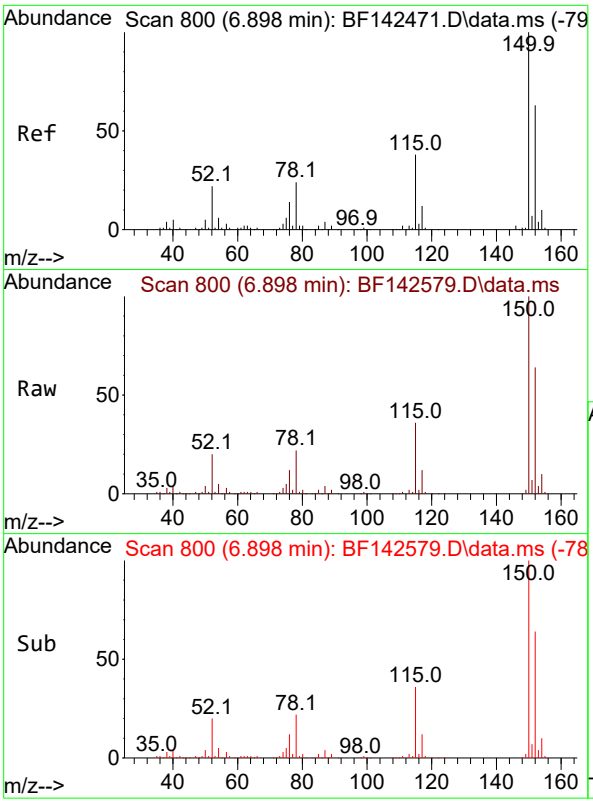
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142579.D
Acq On : 30 May 2025 19:45
Operator : RC/JU
Sample : Q2150-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-51

Quant Time: May 30 22:29:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



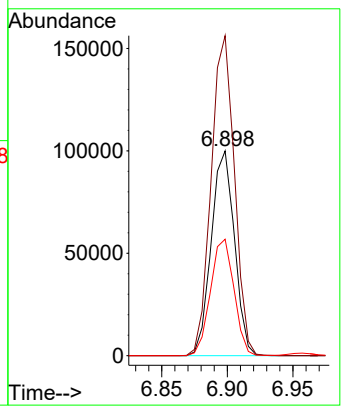


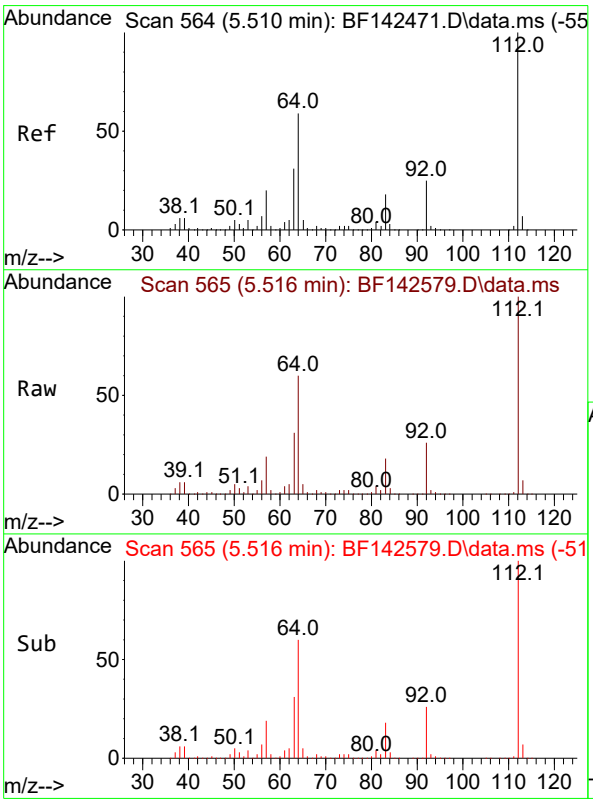
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142579.D
Acq: 30 May 2025 19:45

Instrument :
BNA_F
ClientSampleId :
TP-51

Tgt Ion:152 Resp: 123122

Ion	Ratio	Lower	Upper
152	100		
150	156.2	128.2	192.4
115	56.8	48.3	72.5

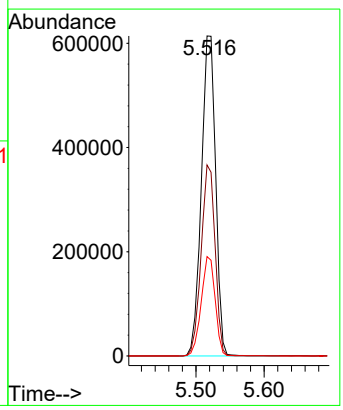


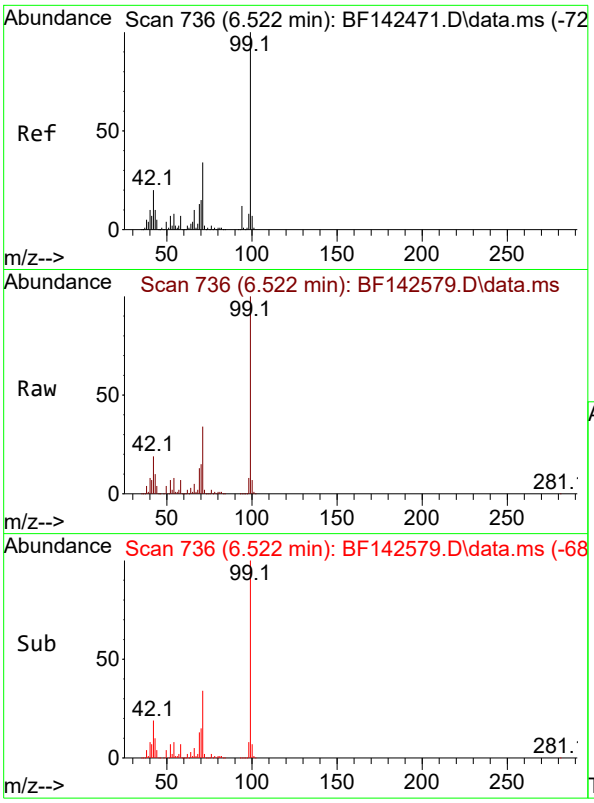


#5
2-Fluorophenol
Concen: 122.174 ng
RT: 5.516 min Scan# 565
Delta R.T. 0.000 min
Lab File: BF142579.D
Acq: 30 May 2025 19:45

Tgt Ion:112 Resp: 892849

Ion	Ratio	Lower	Upper
112	100		
64	59.7	47.5	71.3
63	31.1	24.9	37.3



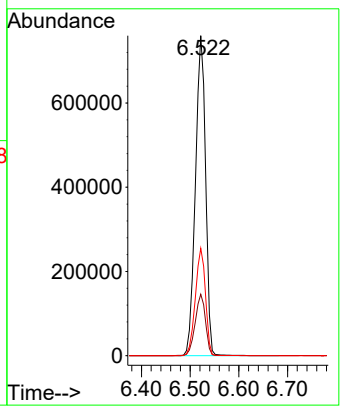


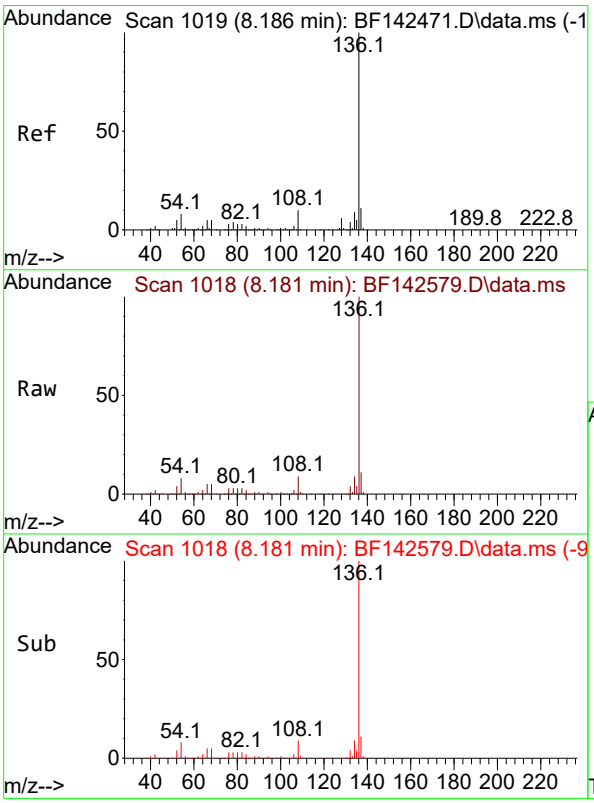
#7
Phenol-d6
Concen: 126.283 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142579.D
Acq: 30 May 2025 19:45

Instrument :
BNA_F
ClientSampleId :
TP-51

Tgt Ion: 99 Resp: 1110920

Ion	Ratio	Lower	Upper
99	100		
42	19.2	16.2	24.2
71	33.6	27.3	40.9

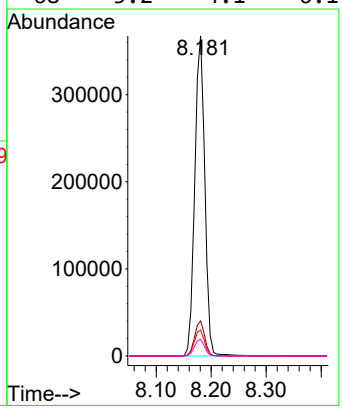


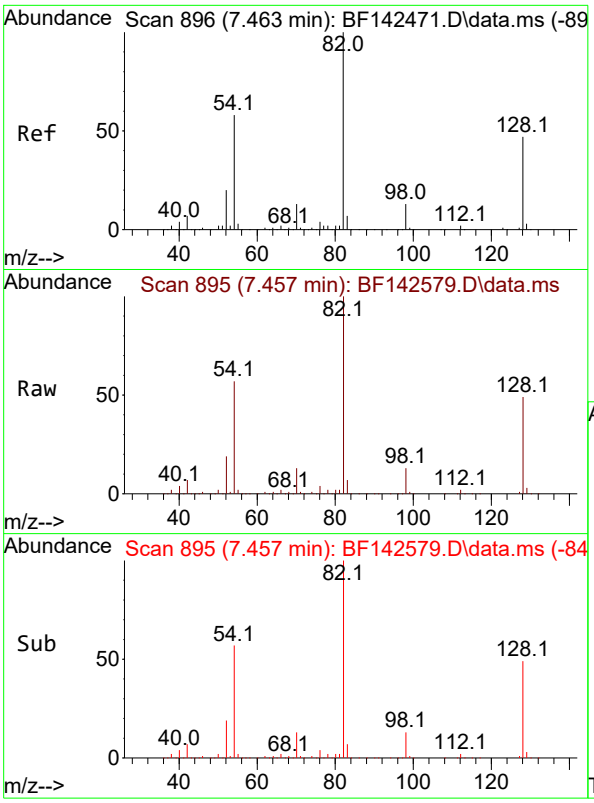


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142579.D
Acq: 30 May 2025 19:45

Tgt Ion:136 Resp: 465540

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.1	6.6	10.0
68	5.2	4.1	6.1



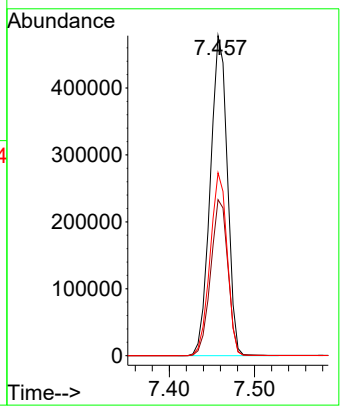


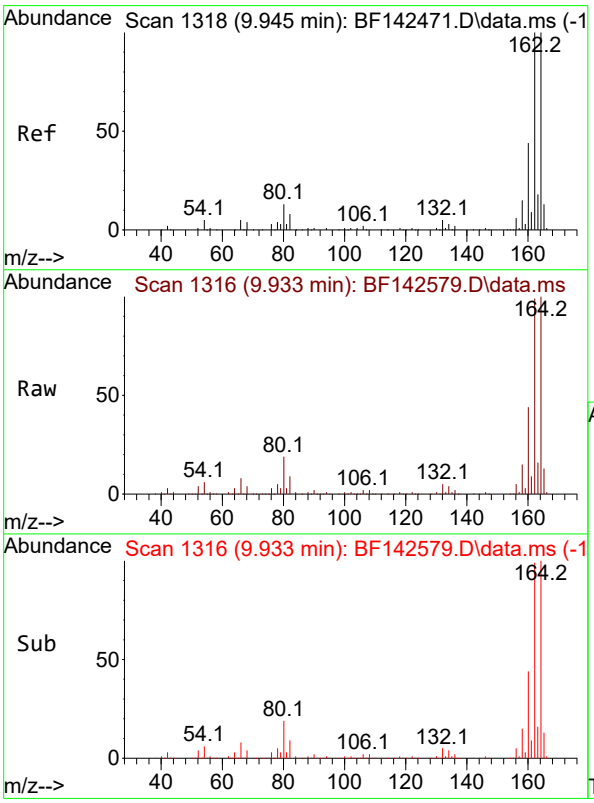
#23
Nitrobenzene-d5
Concen: 78.020 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142579.D
Acq: 30 May 2025 19:45

Instrument :
BNA_F
ClientSampleId :
TP-51

Tgt Ion: 82 Resp: 666097

Ion	Ratio	Lower	Upper
82	100		
128	48.7	37.4	56.2
54	57.2	46.6	70.0

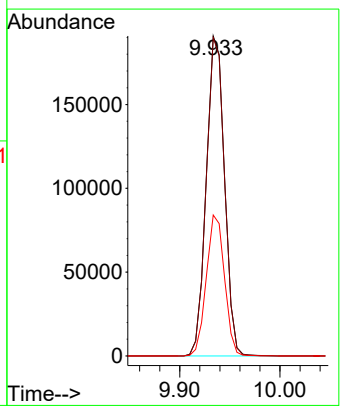




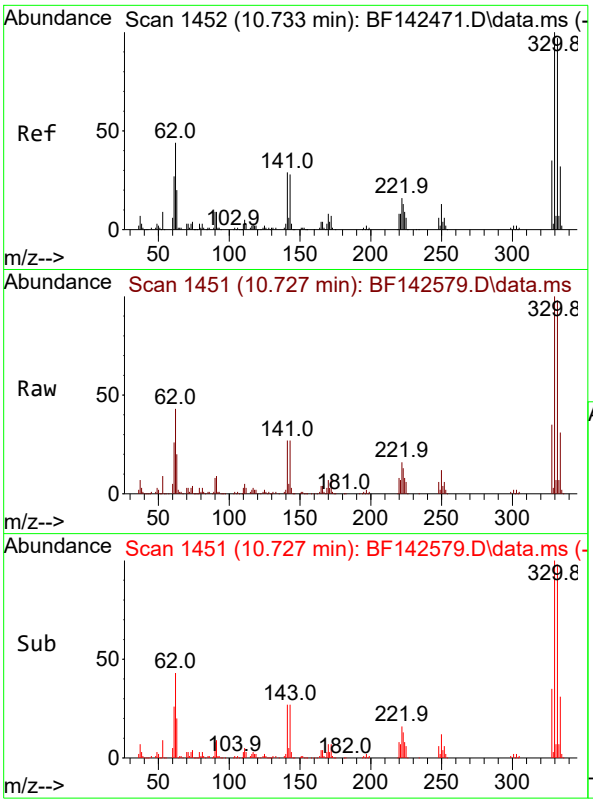
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142579.D
Acq: 30 May 2025 19:45

Tgt Ion:164 Resp: 241553

Ion	Ratio	Lower	Upper
164	100		
162	99.5	80.2	120.4
160	44.0	35.6	53.4



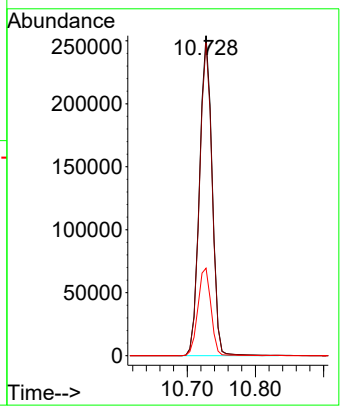
Instrument :
BNA_F
ClientSampleId :
TP-51

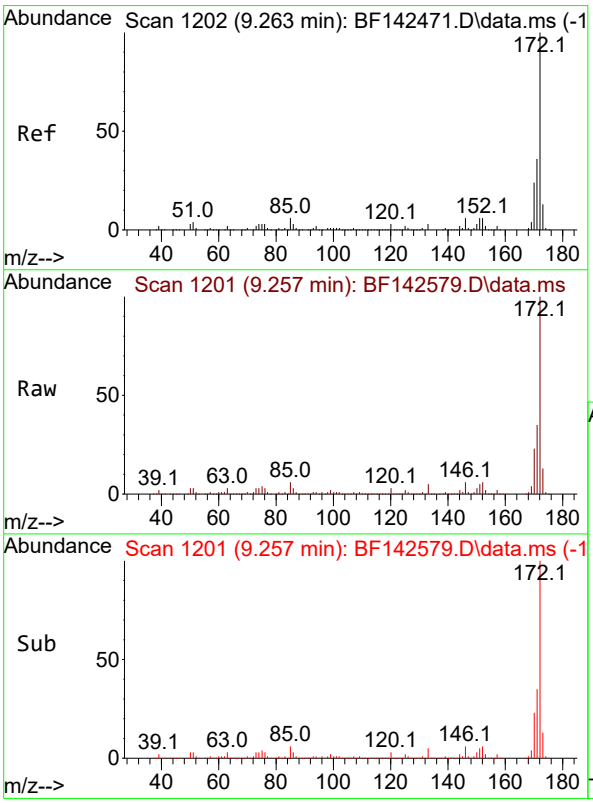


#42
2,4,6-Tribromophenol
Concen: 121.411 ng
RT: 10.727 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142579.D
Acq: 30 May 2025 19:45

Tgt Ion:330 Resp: 325495

Ion	Ratio	Lower	Upper
330	100		
332	97.7	77.6	116.4
141	28.5	24.6	36.8

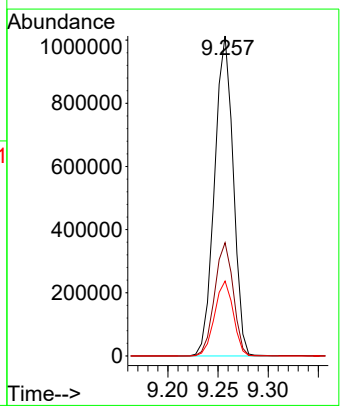


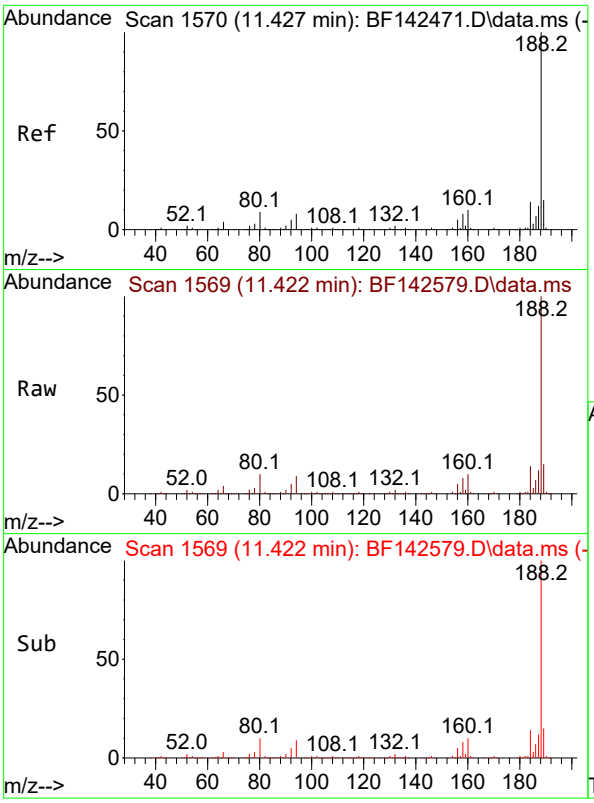


#45
2-Fluorobiphenyl
Concen: 72.858 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142579.D
Acq: 30 May 2025 19:45

Tgt Ion:172 Resp: 1311542

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	42.8
170	23.4	18.9	28.3



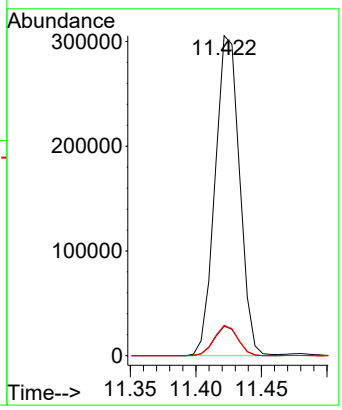


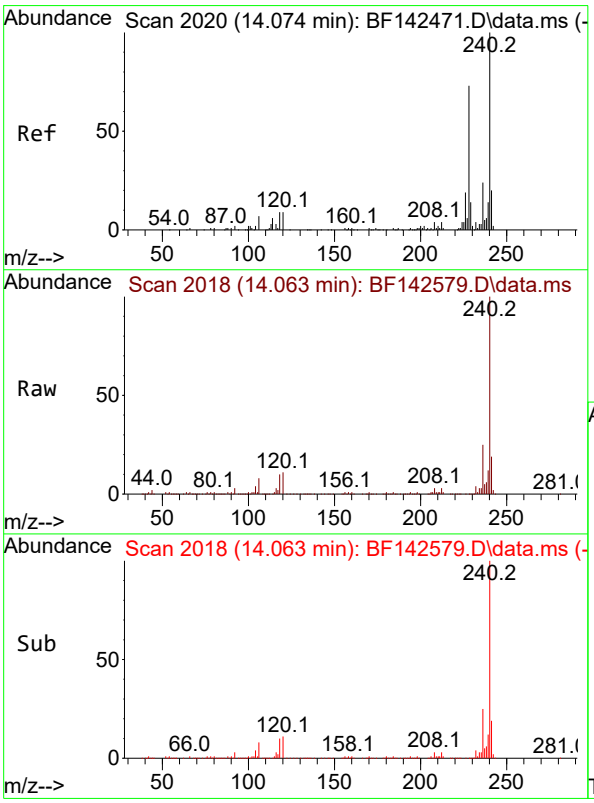
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142579.D
Acq: 30 May 2025 19:45

Instrument :
BNA_F
ClientSampleId :
TP-51

Tgt Ion:188 Resp: 396120

Ion	Ratio	Lower	Upper
188	100		
94	9.2	6.6	10.0
80	9.5	7.4	11.0

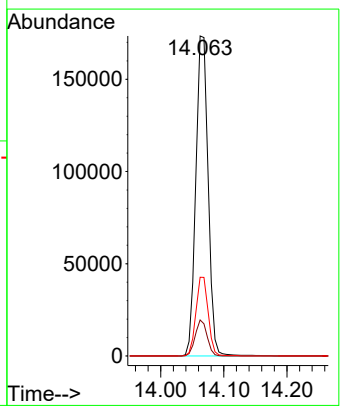


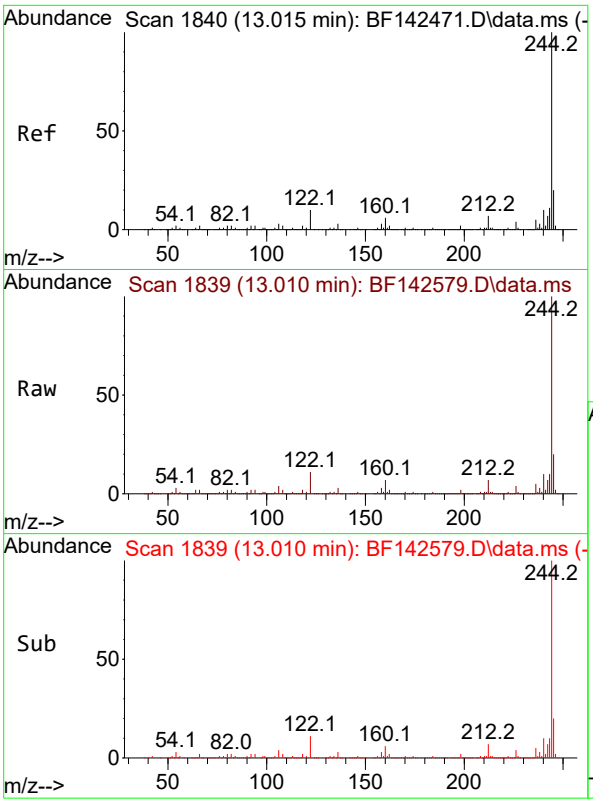


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142579.D
Acq: 30 May 2025 19:45

Tgt Ion:240 Resp: 234971

Ion	Ratio	Lower	Upper
240	100		
120	11.2	7.5	11.3
236	24.6	19.6	29.4



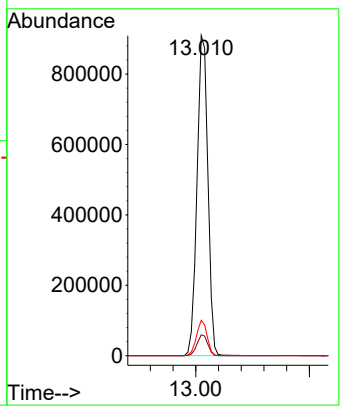


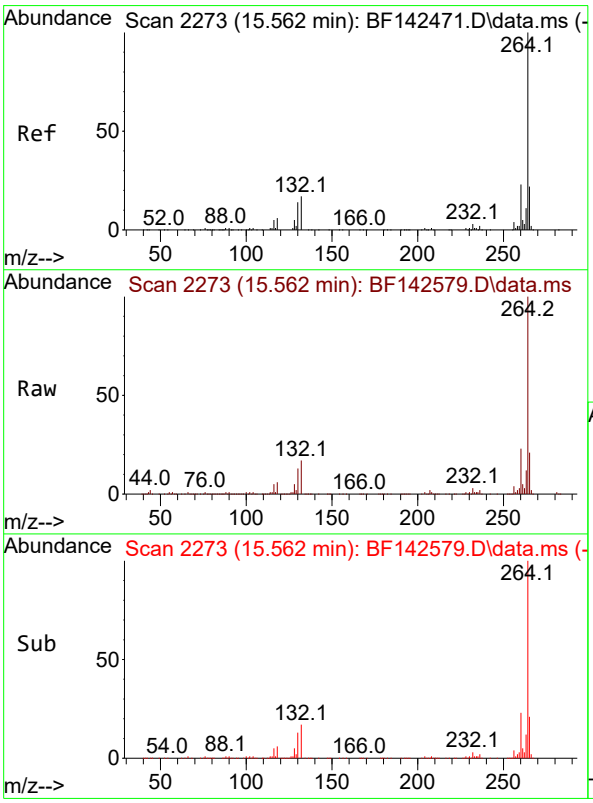
#79
Terphenyl-d14
Concen: 70.521 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142579.D
Acq: 30 May 2025 19:45

Instrument :
BNA_F
ClientSampleId :
TP-51

Tgt Ion:244 Resp: 1212570

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.3	7.9
122	11.1	8.2	12.2

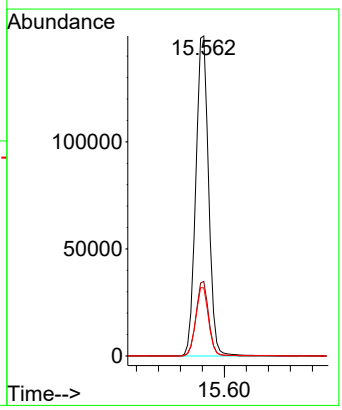




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142579.D
Acq: 30 May 2025 19:45

Tgt Ion:264 Resp: 241563

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	21.3	17.7	26.5



Sample Results: **BF142579.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142579.D
Acq On : 30 May 2025 19:45
Operator : RC/JU
Sample : Q2150-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-51

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142579.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.316	15	21	32	rBV2	32604	57893	1.56%	0.239%
2	5.128	490	499	508	rBV	213507	358975	9.67%	1.481%
3	5.516	558	565	571	rBV	2151792	3082394	83.05%	12.720%
4	6.522	726	736	743	rBV	2164691	3183733	85.78%	13.138%
5	6.898	794	800	805	rBV	556730	693690	18.69%	2.863%
6	7.075	826	830	839	rVB	31128	39807	1.07%	0.164%
7	7.457	884	895	901	rBV	1463263	2045750	55.12%	8.442%
8	7.710	930	938	943	rBV	37128	48326	1.30%	0.199%
9	7.892	964	969	978	rBV4	17117	46710	1.26%	0.193%
10	8.181	1012	1018	1027	rBV	718169	919727	24.78%	3.795%
11	9.257	1194	1201	1206	rBV	2865612	3711360	100.00%	15.315%
12	9.933	1311	1316	1327	rVB	789539	1001490	26.98%	4.133%
13	10.345	1361	1386	1401	rBV4	21435	161203	4.34%	0.665%
14	10.651	1433	1438	1445	rBV	204759	252562	6.81%	1.042%
15	10.728	1445	1451	1456	rBV	1755696	2292160	61.76%	9.459%
16	11.422	1564	1569	1576	rBV	731533	975449	26.28%	4.025%
17	11.945	1653	1658	1669	rBV	251228	402114	10.83%	1.659%
18	12.733	1788	1792	1800	rBV	33339	57158	1.54%	0.236%
19	13.010	1833	1839	1845	rBV	2396808	3165768	85.30%	13.064%
20	13.904	1986	1991	2010	rBV	177278	330809	8.91%	1.365%
21	14.063	2013	2018	2027	rVB	458518	613277	16.52%	2.531%
22	14.539	2094	2099	2107	rBV	41226	87826	2.37%	0.362%
23	15.557	2266	2272	2283	rBV	396225	661147	17.81%	2.728%
24	16.098	2359	2364	2372	rBV3	15289	43525	1.17%	0.180%

Sum of corrected areas: 24232853

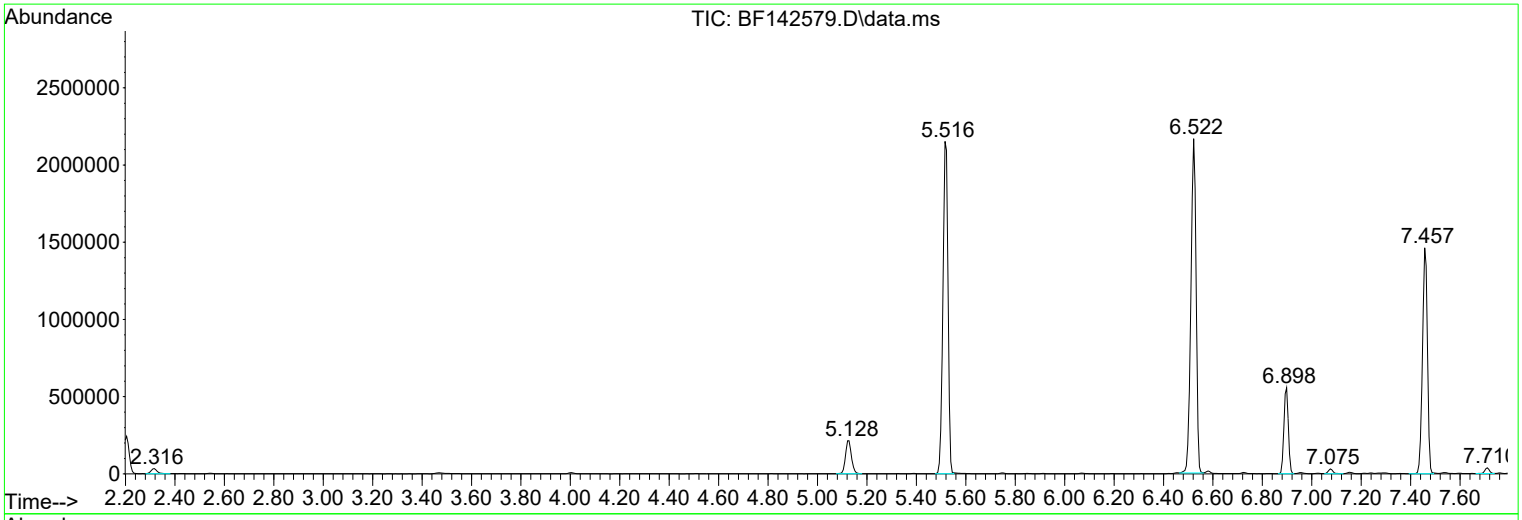
Sample Results: **BF142579.D**

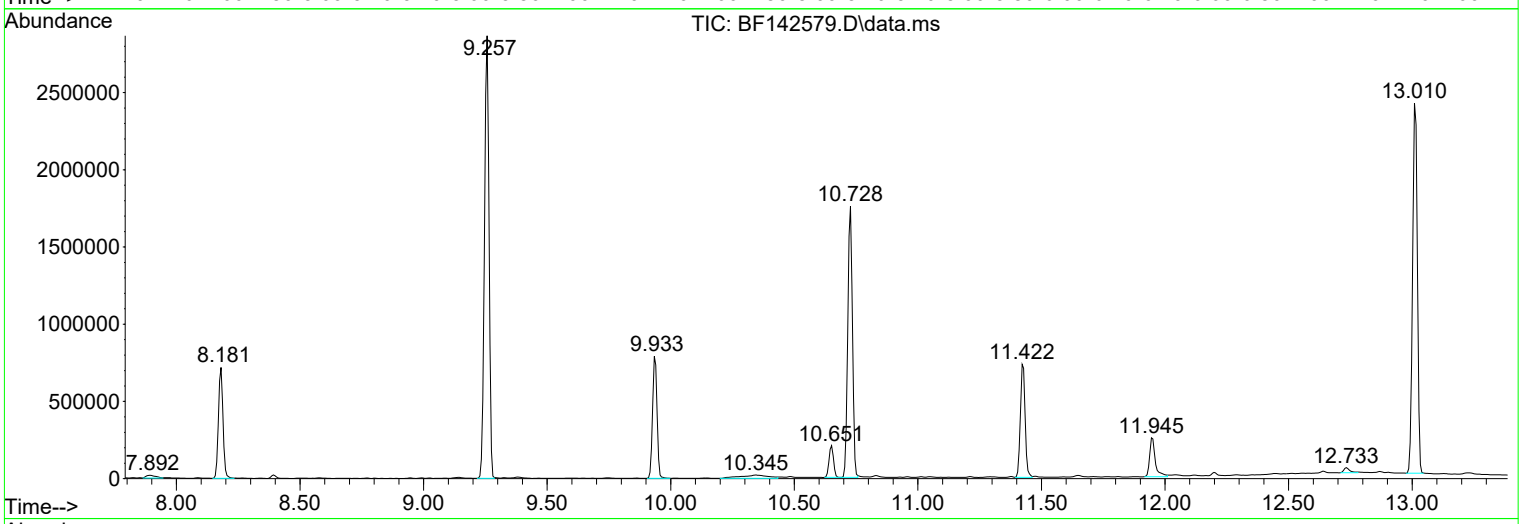
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142579.D
Acq On : 30 May 2025 19:45
Operator : RC/JU
Sample : Q2150-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

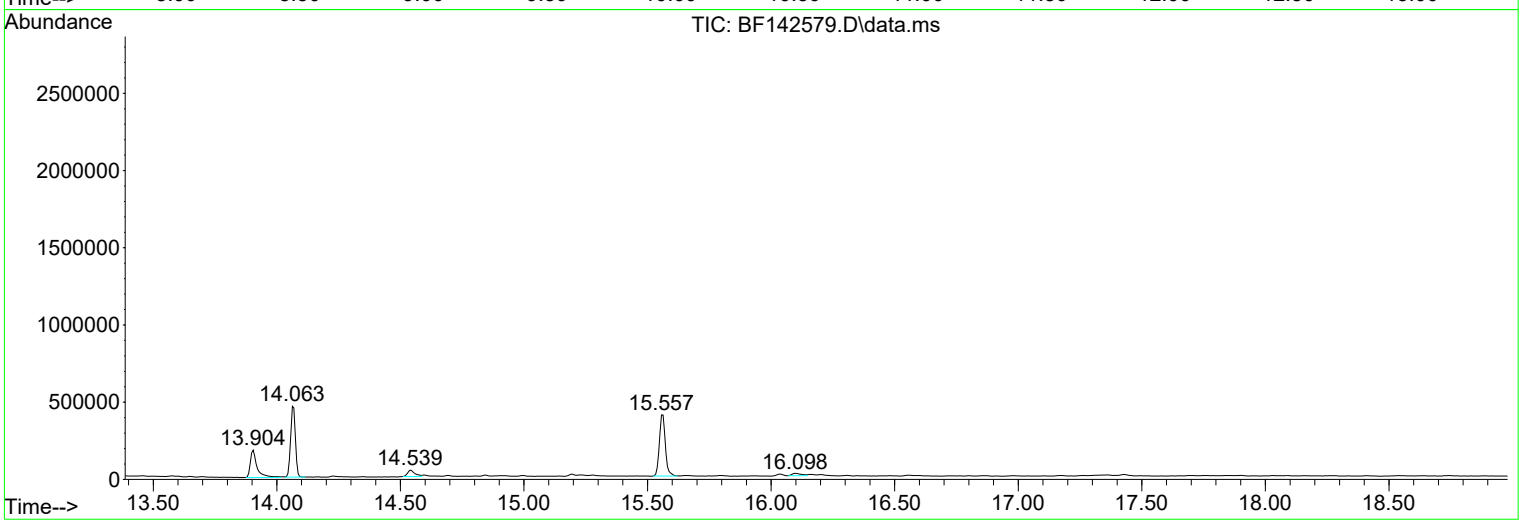
Instrument :
BNA_F
ClientSampleId :
TP-51

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.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\BF053025\
Data File : BF142579.D
Acq On : 30 May 2025 19:45
Operator : RC/JU
Sample : Q2150-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-51

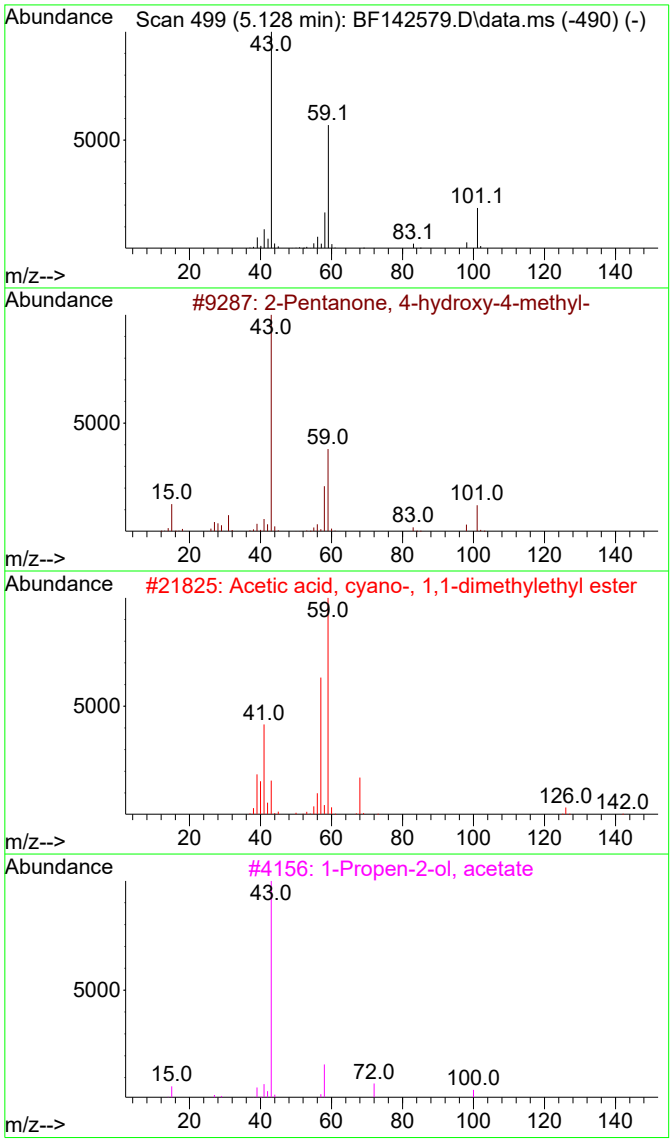
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

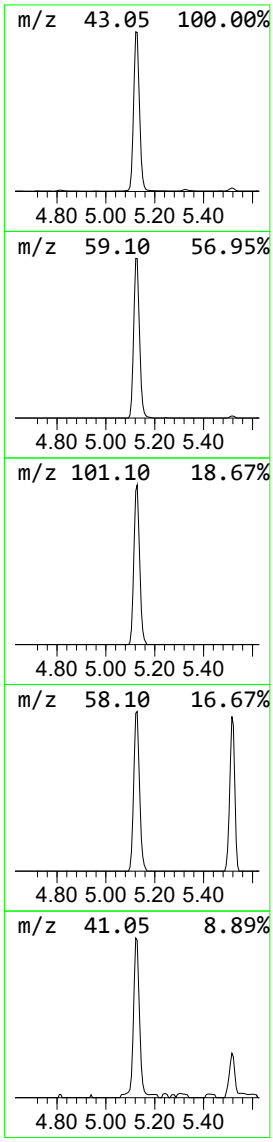
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.128	10.35 ng	358975	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142579.D
Acq On : 30 May 2025 19:45
Operator : RC/JU
Sample : Q2150-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-51

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

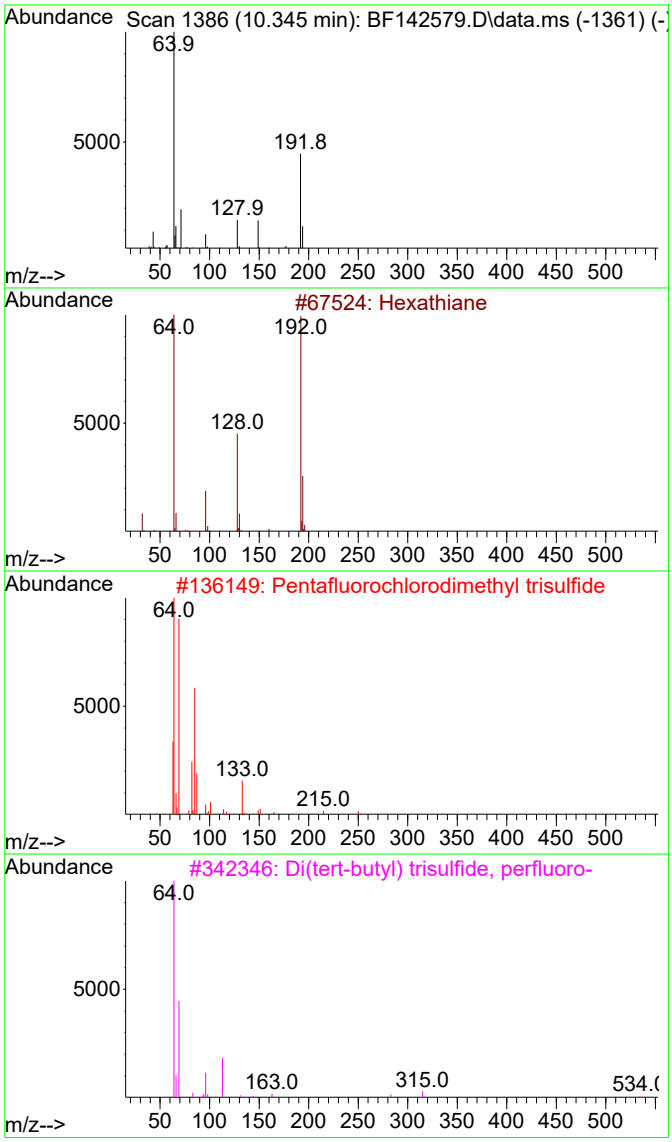
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

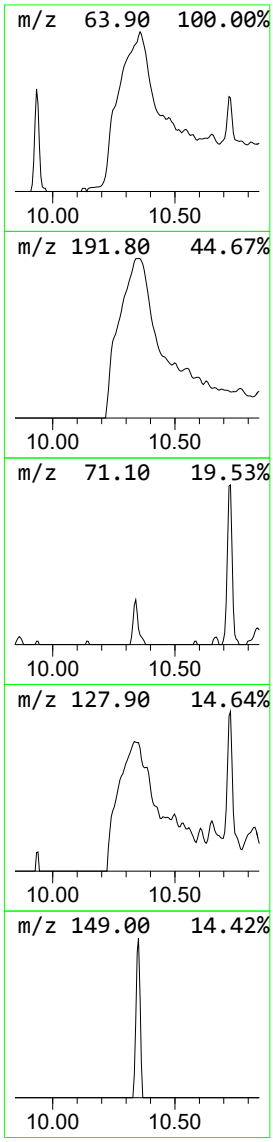
****

Peak Number 2 unknown10.345 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.345	3.22 ng	161203	Acenaphthene-d10	9.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexathiane	192	S6	013798-23-7	10
2	Pentafluorochlorodimethyl trisul...	250	C2ClF5S3	1000226-65-9	9
3	Di(tert-butyl) trisulfide, perfl...	534	C8F18S3	016005-64-4	9
4	Sulfur dioxide	64	O2S	007446-09-5	4
5	Ethyl Chloride	64	C2H5Cl	000075-00-3	4





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142579.D
Acq On : 30 May 2025 19:45
Operator : RC/JU
Sample : Q2150-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-51

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

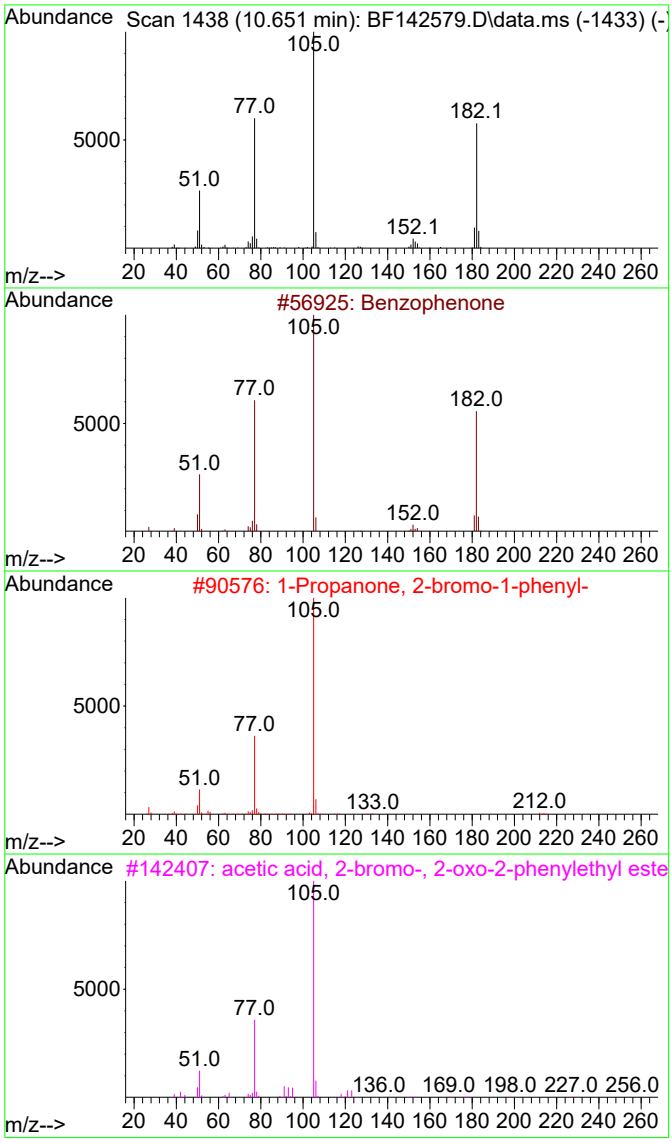
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

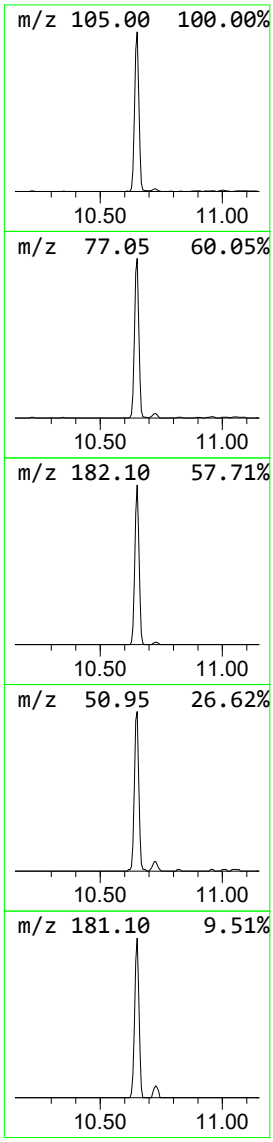
****

Peak Number 3 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	5.04 ng	252562	Acenaphthene-d10	9.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47
3	acetic acid, 2-bromo-, 2-oxo-2-p...	256	C10H9BrO3	1000401-50-0	47
4	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	47
5	Benzoic acid, phenyl ester	198	C13H10O2	000093-99-2	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142579.D
Acq On : 30 May 2025 19:45
Operator : RC/JU
Sample : Q2150-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-51

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

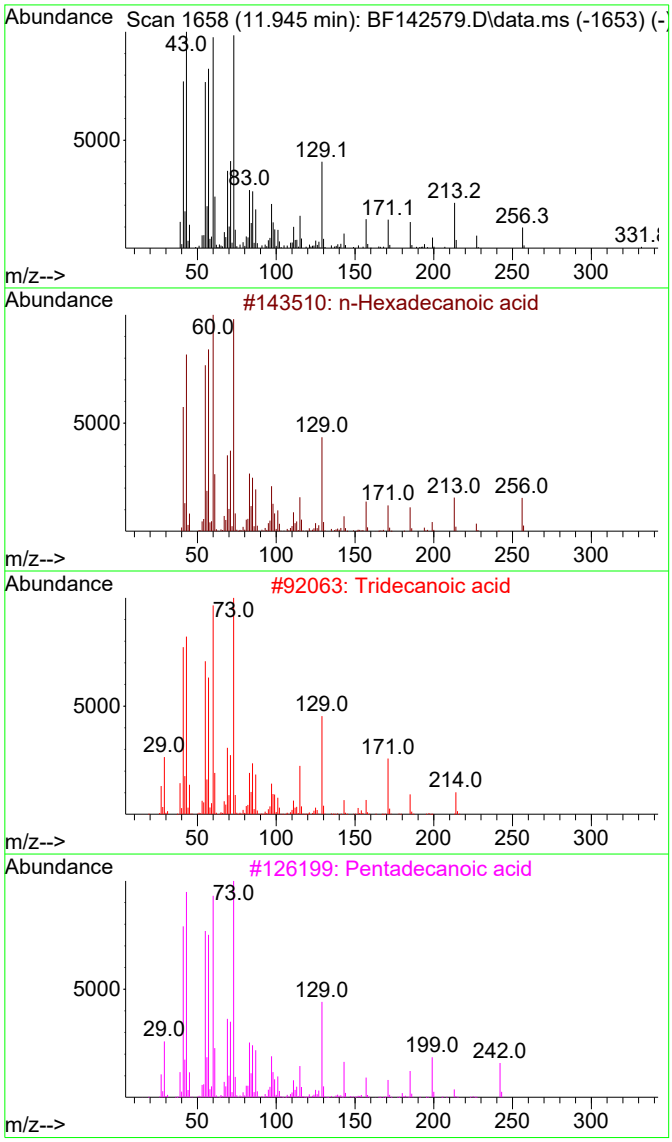
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

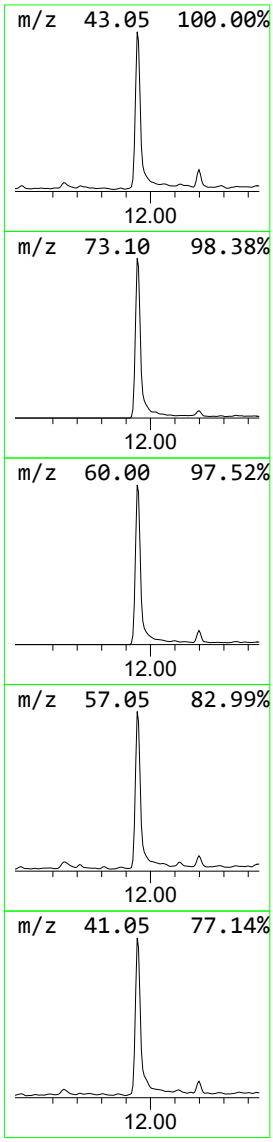
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	8.24 ng	402114	Phenanthrene-d10	11.422

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	91
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	74
5	8-Methylnonanoic acid	172	C10H20O2	005963-14-4	70





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142579.D
Acq On : 30 May 2025 19:45
Operator : RC/JU
Sample : Q2150-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-51

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

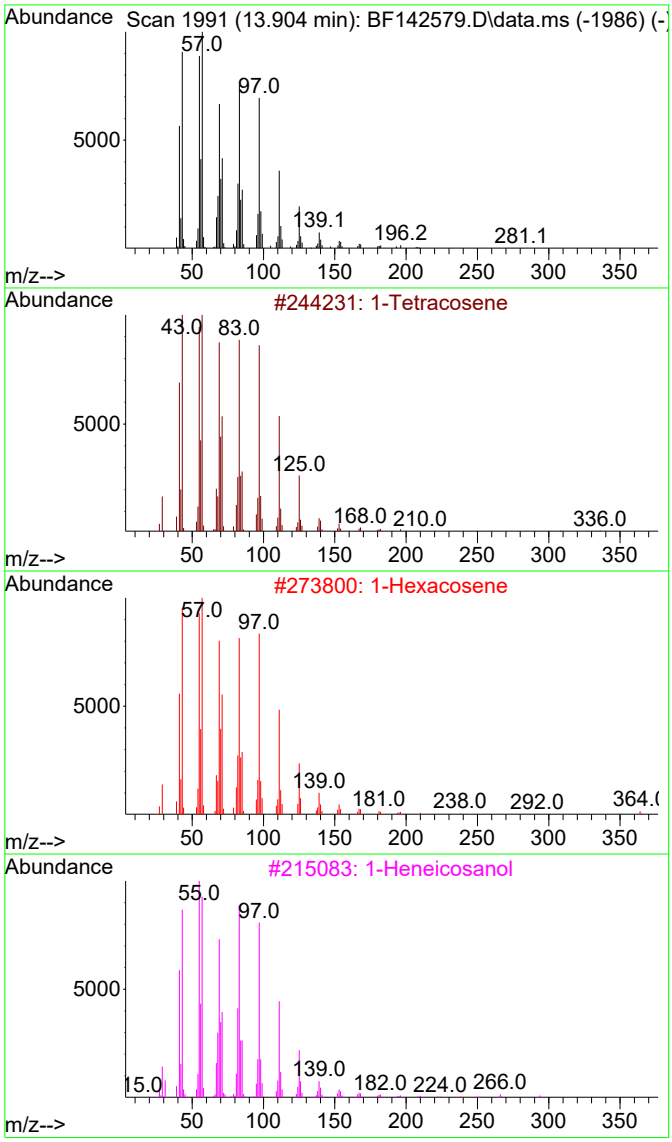
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

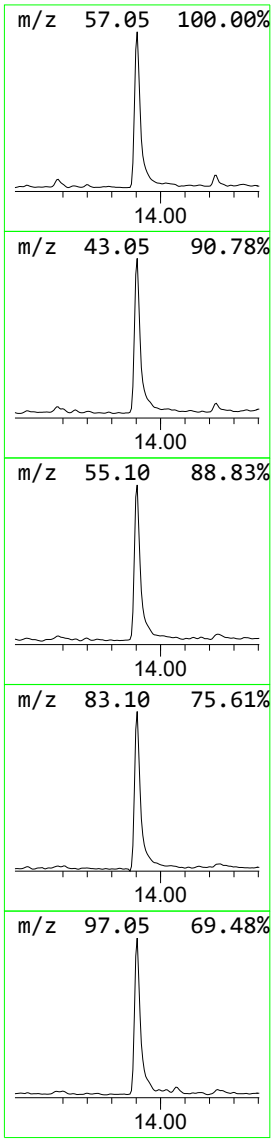
****

Peak Number 5 1-Tetracosene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	10.79 ng	330809	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Tetracosene	336	C24H48	010192-32-2	95
2	1-Hexacosene	364	C26H52	018835-33-1	95
3	1-Heneicosanol	312	C21H44O	015594-90-8	95
4	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	94
5	Behenic alcohol	326	C22H46O	000661-19-8	93





Sample Results: **BF142579.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142579.D
Acq On : 30 May 2025 19:45
Operator : RC/JU
Sample : Q2150-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-51

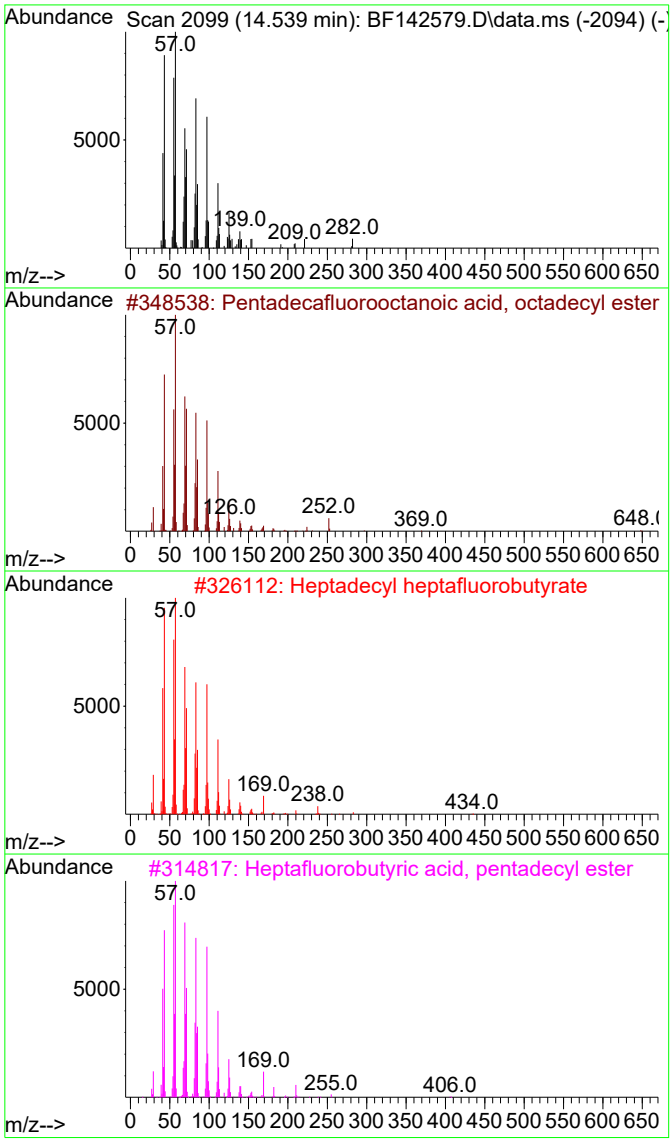
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

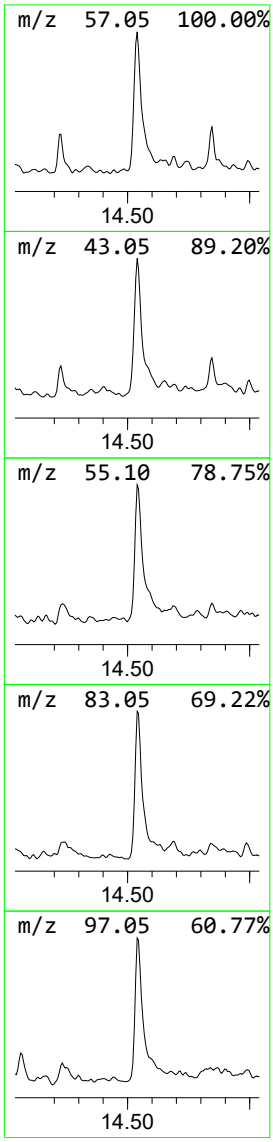
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Pentadecafluorooctanoic aci... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.539	2.86 ng	87826	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	94
2	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	93
3	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	93
4	1-Hexacosene	364	C26H52	018835-33-1	93
5	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142579.D
Acq On : 30 May 2025 19:45
Operator : RC/JU
Sample : Q2150-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-51

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.128	10.4	ng	358975	1	6.898	693690	20.0
unknown10.345	10.345	3.2	ng	161203	3	9.933	1001490	20.0
Benzophenone	10.651	5.0	ng	252562	3	9.933	1001490	20.0
n-Hexadecanoic ...	11.945	8.2	ng	402114	4	11.422	975449	20.0
1-Tetracosene	13.904	10.8	ng	330809	5	14.063	613277	20.0
Pentadecafluoro...	14.539	2.9	ng	87826	5	14.063	613277	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142585.D
Acq On : 30 May 2025 22:41
Operator : RC/JU
Sample : Q2150-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-52

Quant Time: May 31 00:11:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

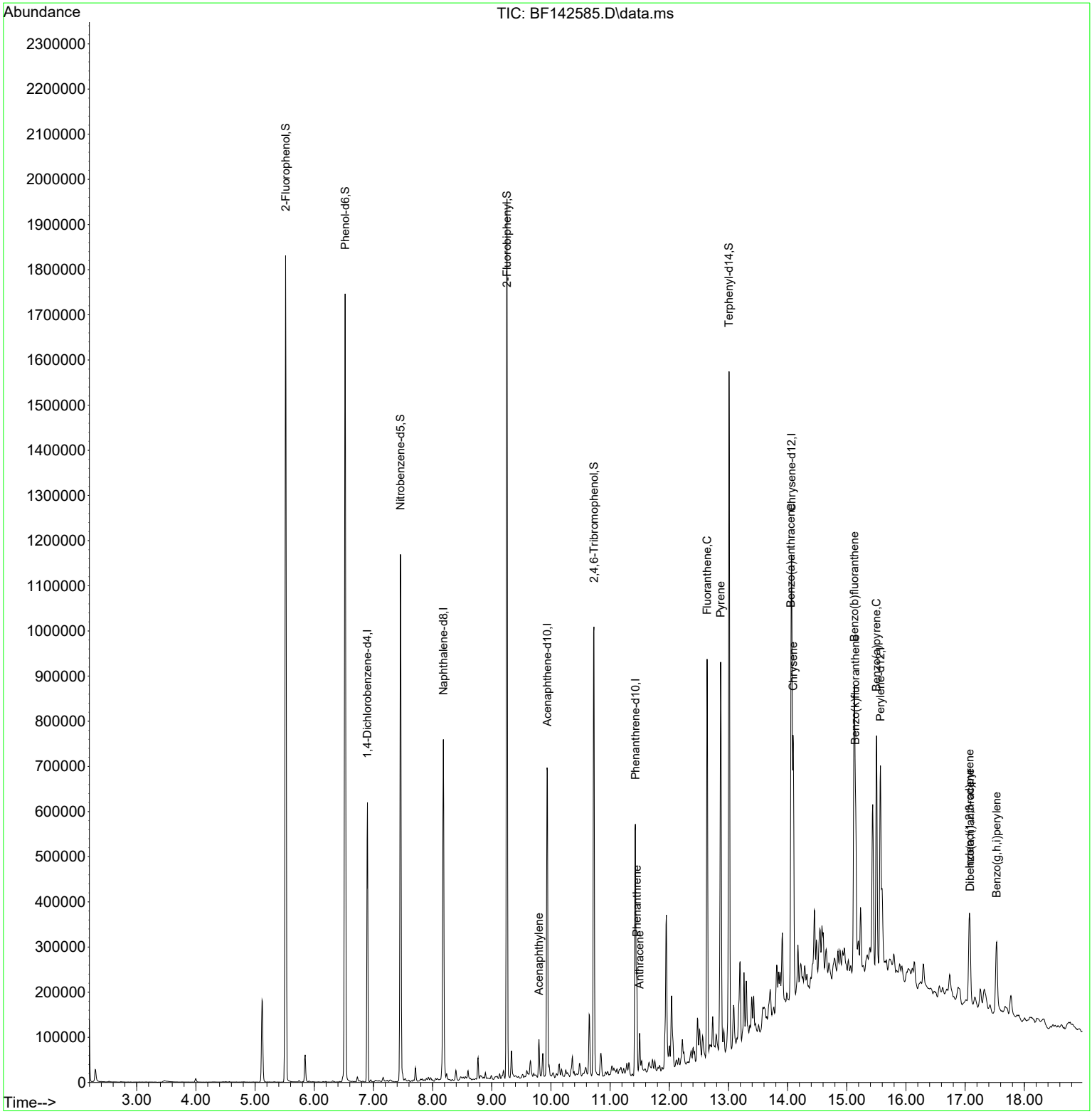
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.898	152	133645	20.000	ng		0.00
21) Naphthalene-d8	8.181	136	476744	20.000	ng		0.00
39) Acenaphthene-d10	9.939	164	213806	20.000	ng		0.00
64) Phenanthrene-d10	11.427	188	298216	20.000	ng		0.00
76) Chrysene-d12	14.068	240	272466	20.000	ng		0.00
86) Perylene-d12	15.568	264	264844	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	711745	89.724	ng		0.00
7) Phenol-d6	6.522	99	854204	89.455	ng		-0.01
23) Nitrobenzene-d5	7.457	82	498554	57.023	ng		-0.02
42) 2,4,6-Tribromophenol	10.727	330	178930	75.403	ng		-0.01
45) 2-Fluorobiphenyl	9.257	172	877026	55.043	ng		-0.01
79) Terphenyl-d14	13.010	244	725082	36.366	ng		0.00
Target Compounds							Qvalue
49) Acenaphthylene	9.798	152	49367	2.386	ng		100
71) Phenanthrene	11.451	178	112000	7.028	ng		99
72) Anthracene	11.498	178	56976	3.503	ng		99
75) Fluoranthene	12.639	202	497661	33.419	ng		99
78) Pyrene	12.868	202	507160	19.953	ng		98
81) Benzo(a)anthracene	14.057	228	350812	19.282	ng		94
83) Chrysene	14.092	228	326975	20.000	ng		98
87) Indeno(1,2,3-cd)pyrene	17.074	276	152667	7.678	ng		99
88) Benzo(b)fluoranthene	15.127	252	459256m	29.299	ng		
89) Benzo(k)fluoranthene	15.145	252	135303m	9.216	ng		
90) Benzo(a)pyrene	15.504	252	317279	21.474	ng		98
91) Dibenzo(a,h)anthracene	17.086	278	39006	2.419	ng	#	88
92) Benzo(g,h,i)perylene	17.533	276	147088	9.119	ng		98

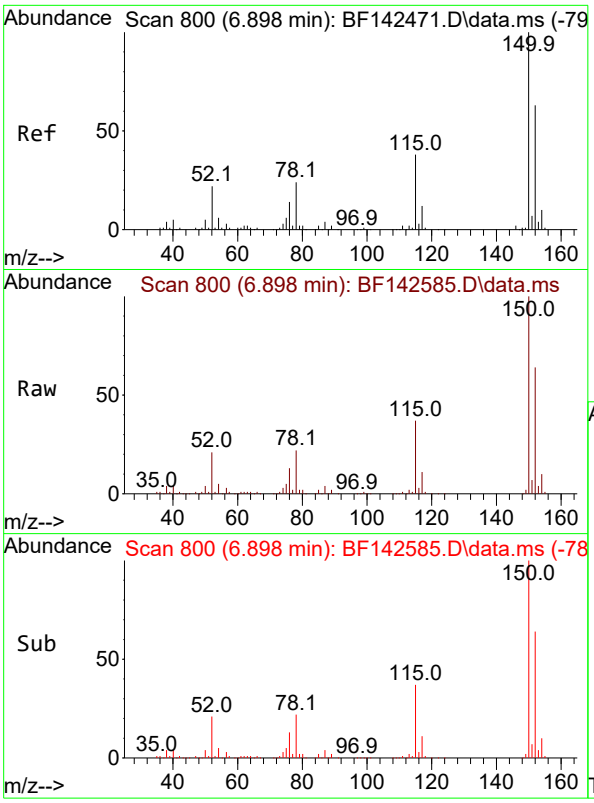
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142585.D
Acq On : 30 May 2025 22:41
Operator : RC/JU
Sample : Q2150-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-52

Quant Time: May 31 00:11:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



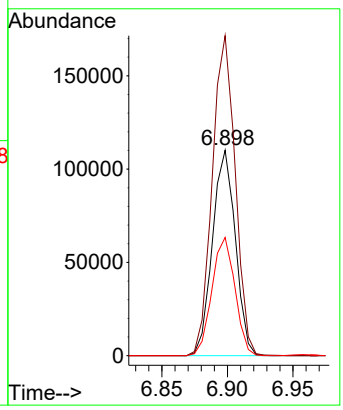


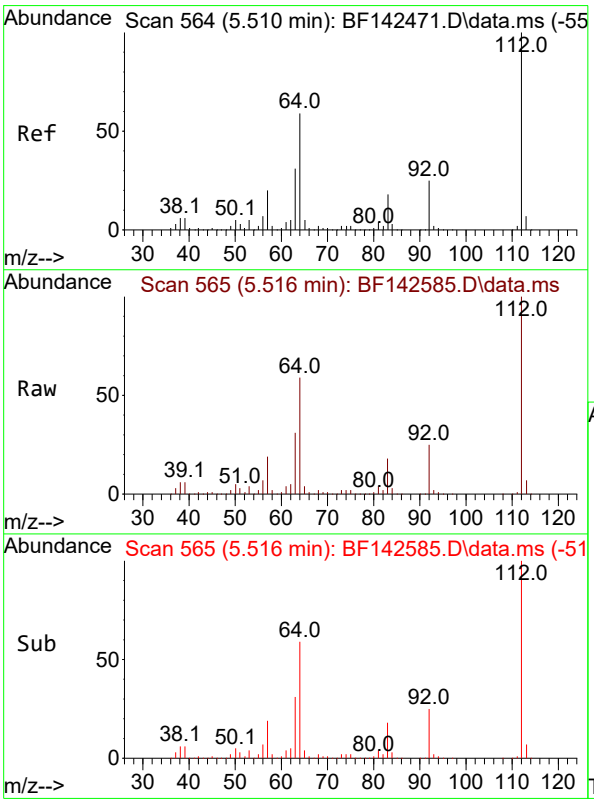
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Instrument :
BNA_F
ClientSampleId :
TP-52

Tgt Ion:152 Resp: 133645

Ion	Ratio	Lower	Upper
152	100		
150	155.7	128.2	192.4
115	57.5	48.3	72.5

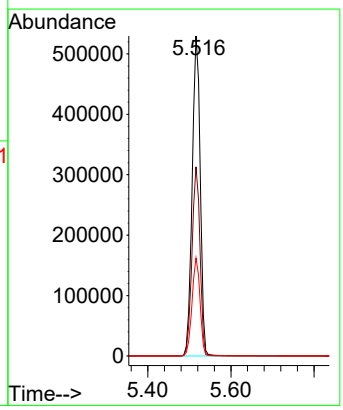


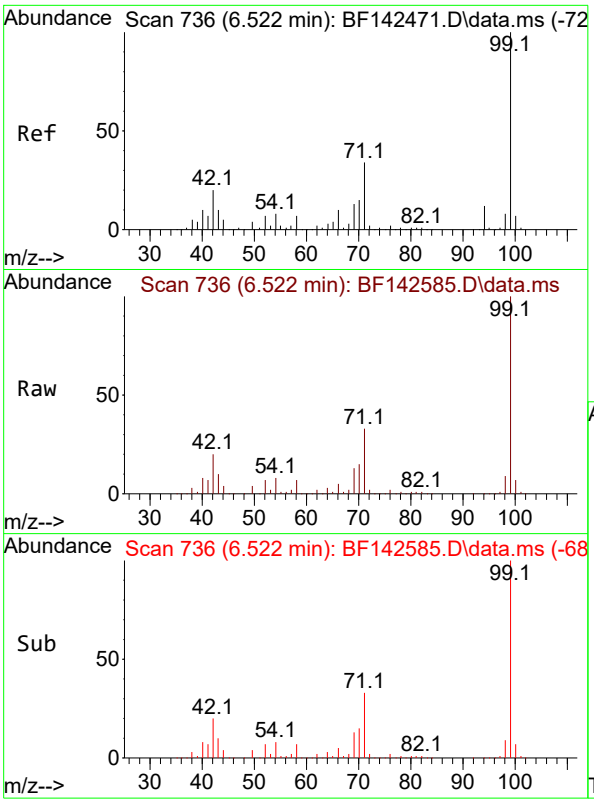


#5
2-Fluorophenol
Concen: 89.724 ng
RT: 5.516 min Scan# 565
Delta R.T. 0.000 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Tgt Ion:112 Resp: 711745

Ion	Ratio	Lower	Upper
112	100		
64	59.1	47.5	71.3
63	30.6	24.9	37.3



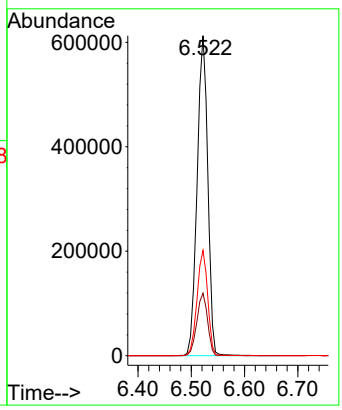


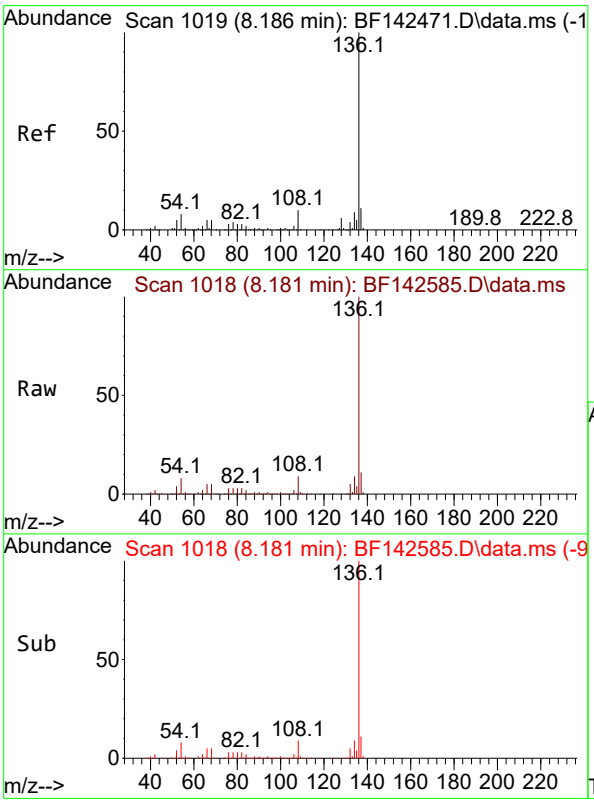
#7
Phenol-d6
Concen: 89.455 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Instrument :
BNA_F
ClientSampleId :
TP-52

Tgt Ion: 99 Resp: 854204

Ion	Ratio	Lower	Upper
99	100		
42	19.5	16.2	24.2
71	32.9	27.3	40.9

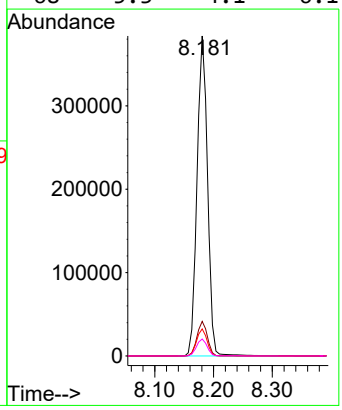


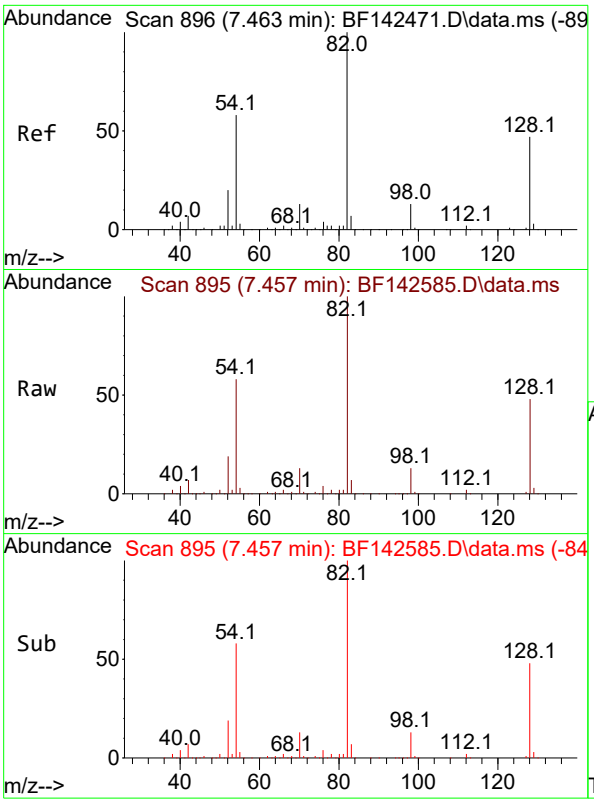


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Tgt Ion:136 Resp: 476744

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.4	6.6	10.0
68	5.3	4.1	6.1



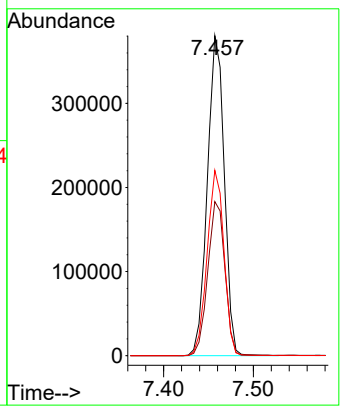


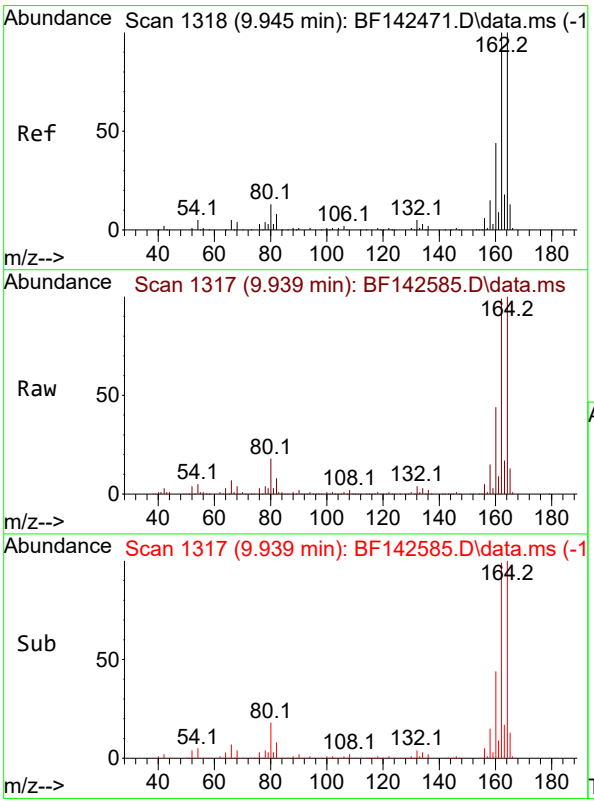
#23
Nitrobenzene-d5
Concen: 57.023 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Instrument :
BNA_F
ClientSampleId :
TP-52

Tgt Ion: 82 Resp: 498554

Ion	Ratio	Lower	Upper
82	100		
128	48.2	37.4	56.2
54	57.9	46.6	70.0

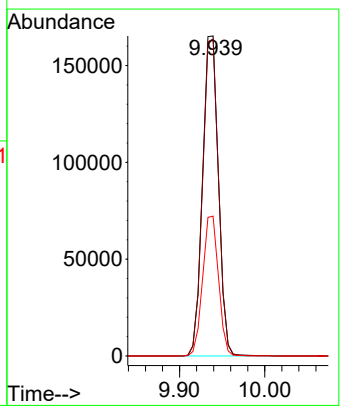


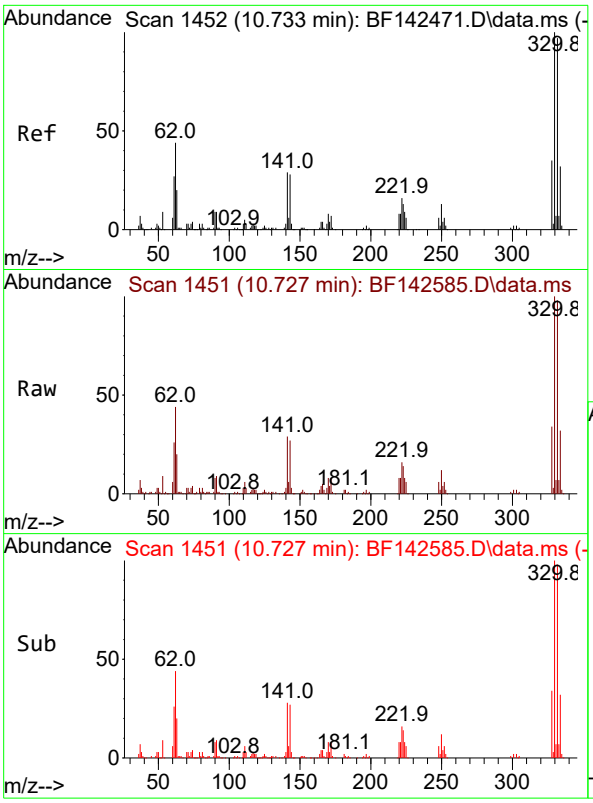


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Tgt Ion:164 Resp: 213806

Ion	Ratio	Lower	Upper
164	100		
162	99.1	80.2	120.4
160	43.7	35.6	53.4



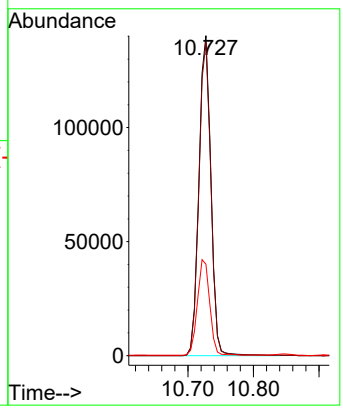


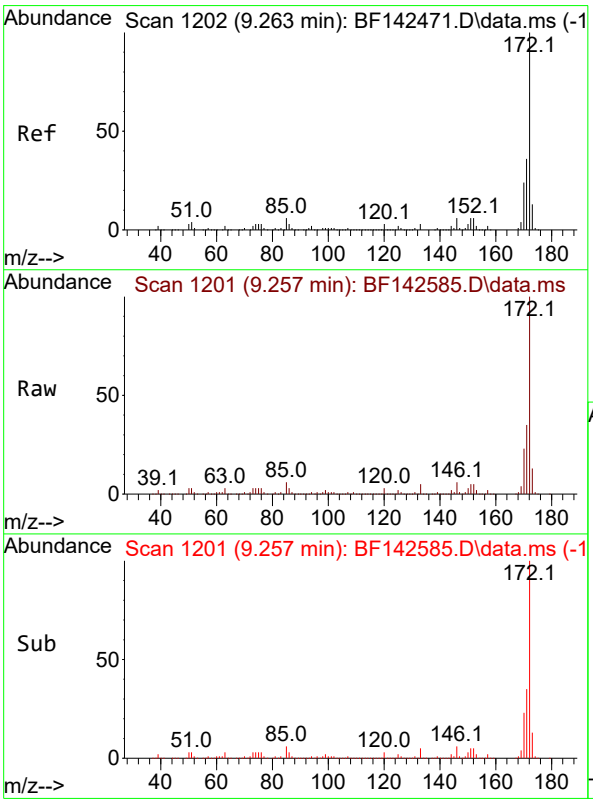
#42
2,4,6-Tribromophenol
Concen: 75.403 ng
RT: 10.727 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Instrument :
BNA_F
ClientSampleId :
TP-52

Tgt Ion:330 Resp: 178930

Ion	Ratio	Lower	Upper
330	100		
332	97.3	77.6	116.4
141	30.5	24.6	36.8

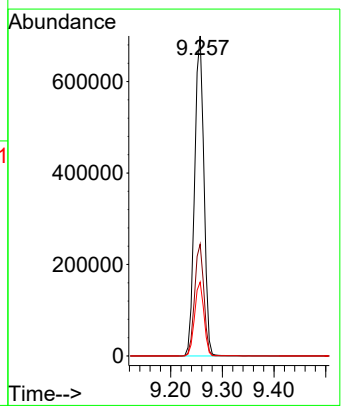


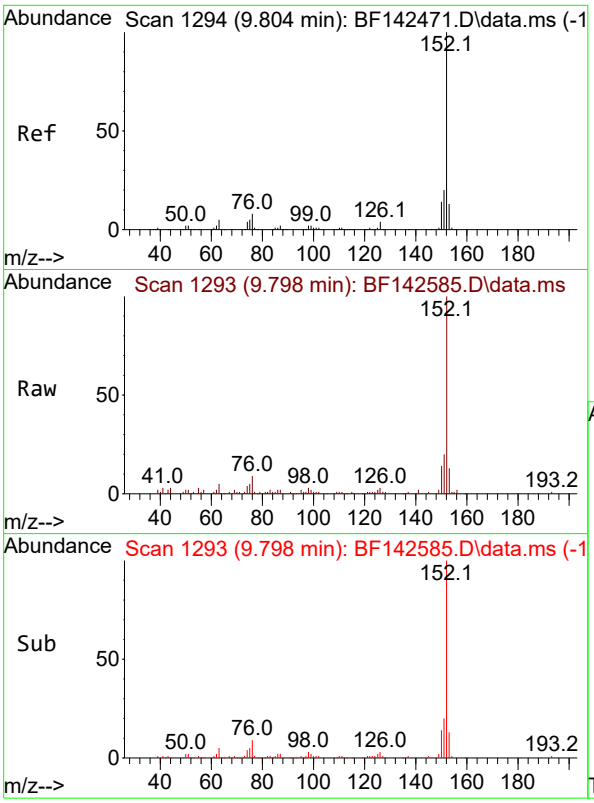


#45
2-Fluorobiphenyl
Concen: 55.043 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Tgt Ion:172 Resp: 877026

Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.6	42.8
170	23.1	18.9	28.3



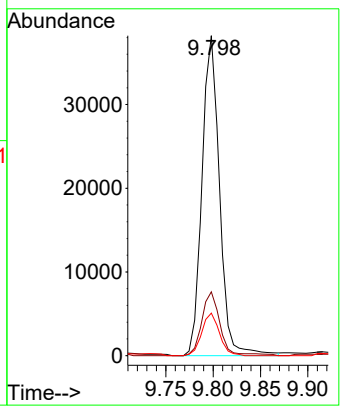


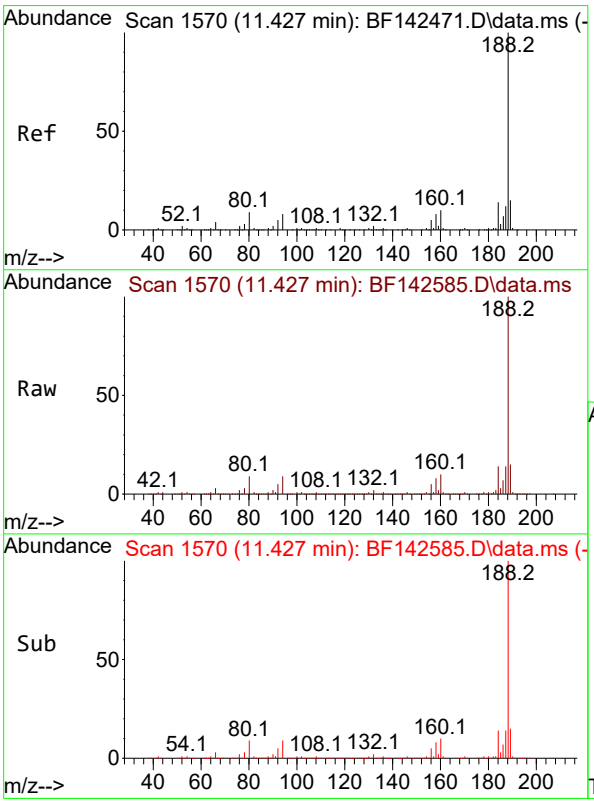
#49
Acenaphthylene
Concen: 2.386 ng
RT: 9.798 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Instrument :
BNA_F
ClientSampleId :
TP-52

Tgt Ion:152 Resp: 49367

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.8
153	13.3	10.6	15.8

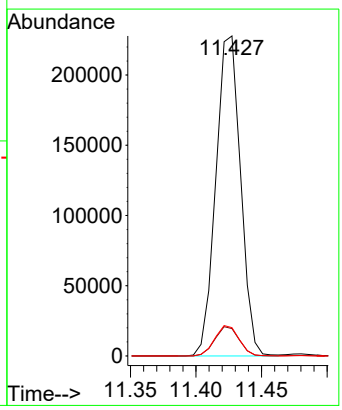


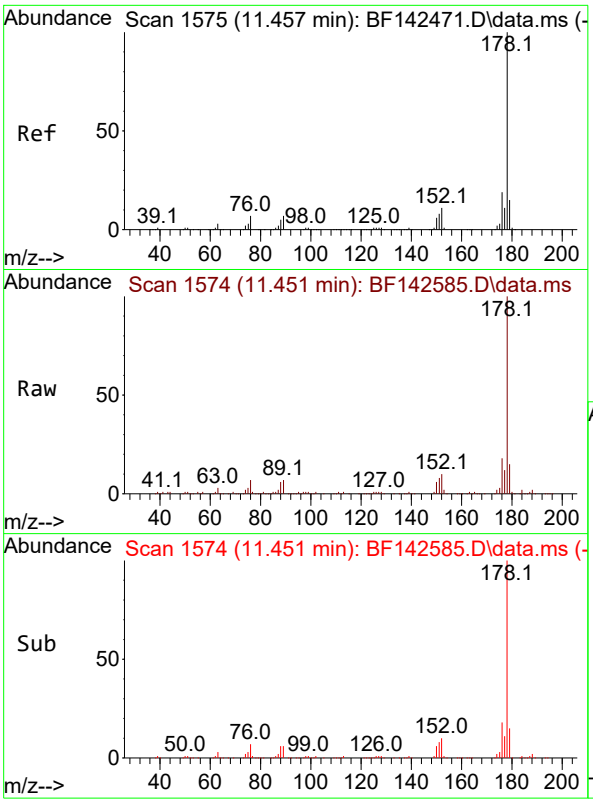


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1570
Delta R.T. -0.006 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Tgt Ion:188 Resp: 298216

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.6	10.0
80	8.9	7.4	11.0



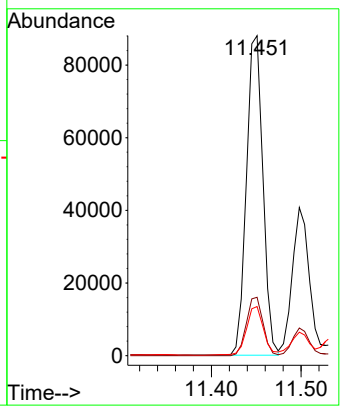


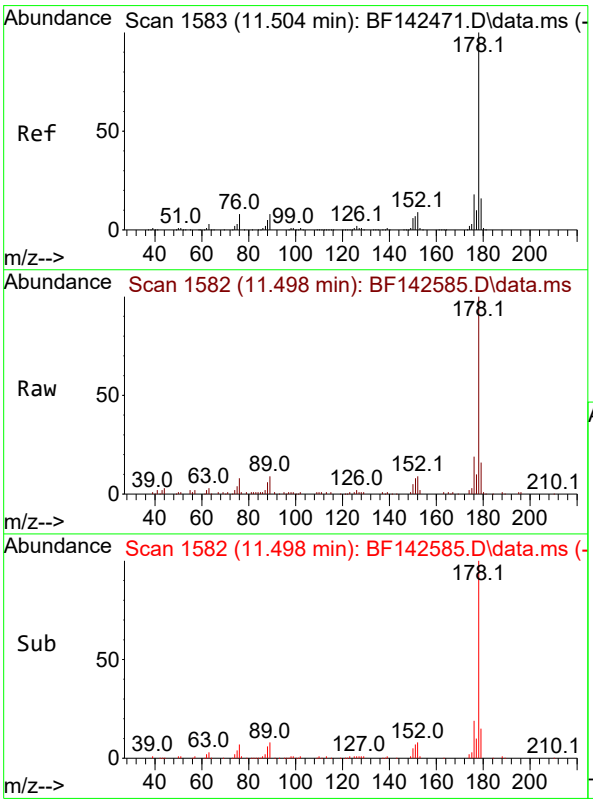
#71
Phenanthrene
Concen: 7.028 ng
RT: 11.451 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Instrument :
BNA_F
ClientSampleId :
TP-52

Tgt Ion:178 Resp: 112000

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.4	23.0
179	15.4	12.3	18.5

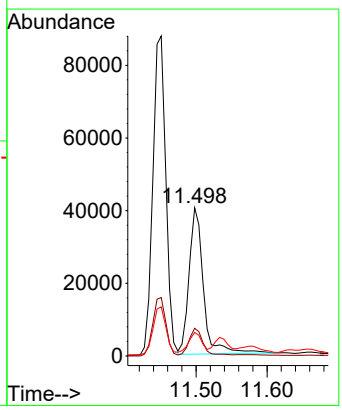


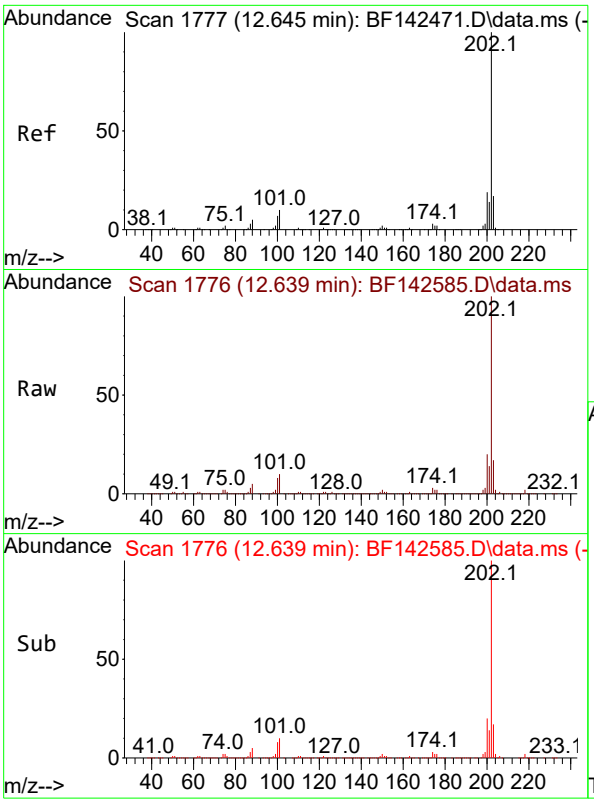


#72
Anthracene
Concen: 3.503 ng
RT: 11.498 min Scan# 1582
Delta R.T. -0.012 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Tgt Ion:178 Resp: 56976

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.6	21.8
179	15.9	12.4	18.6



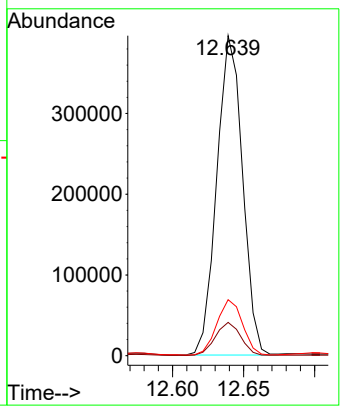


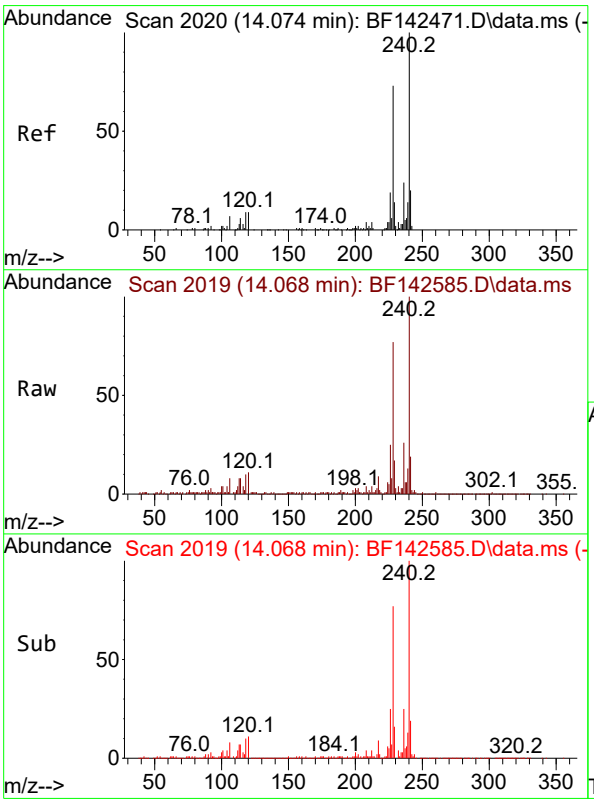
#75
Fluoranthene
Concen: 33.419 ng
RT: 12.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Instrument :
BNA_F
ClientSampleId :
TP-52

Tgt Ion:202 Resp: 497661

Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	29.6
203	17.5	0.0	37.2

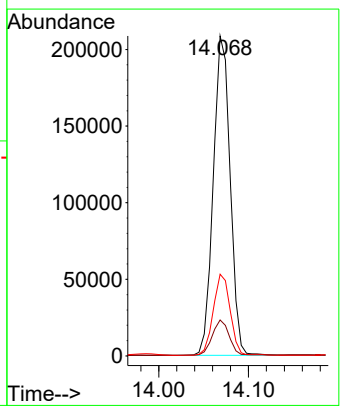


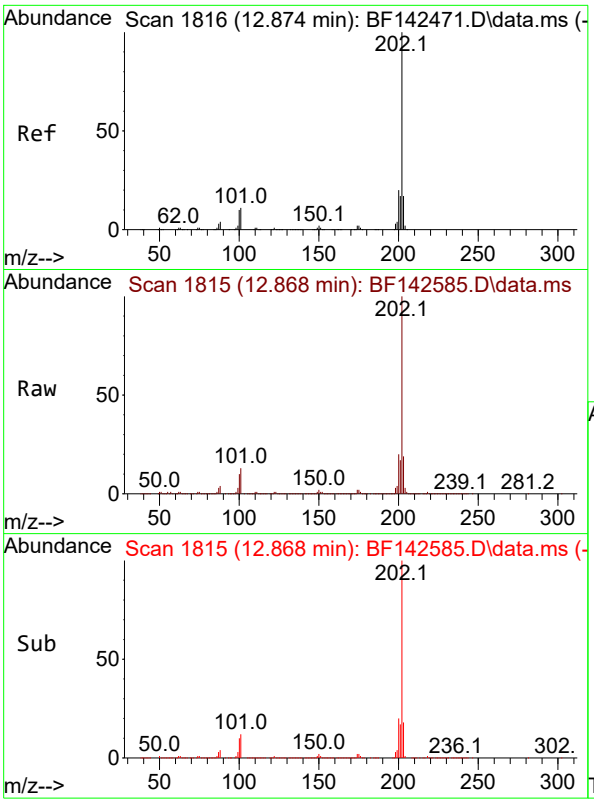


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Tgt Ion:240 Resp: 272466

Ion	Ratio	Lower	Upper
240	100		
120	11.3	7.5	11.3
236	25.6	19.6	29.4



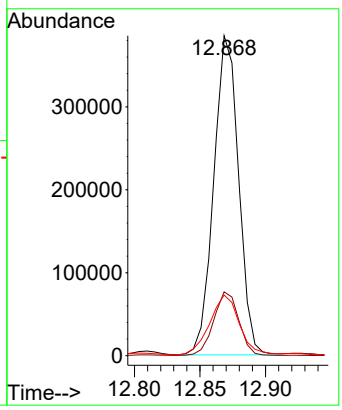


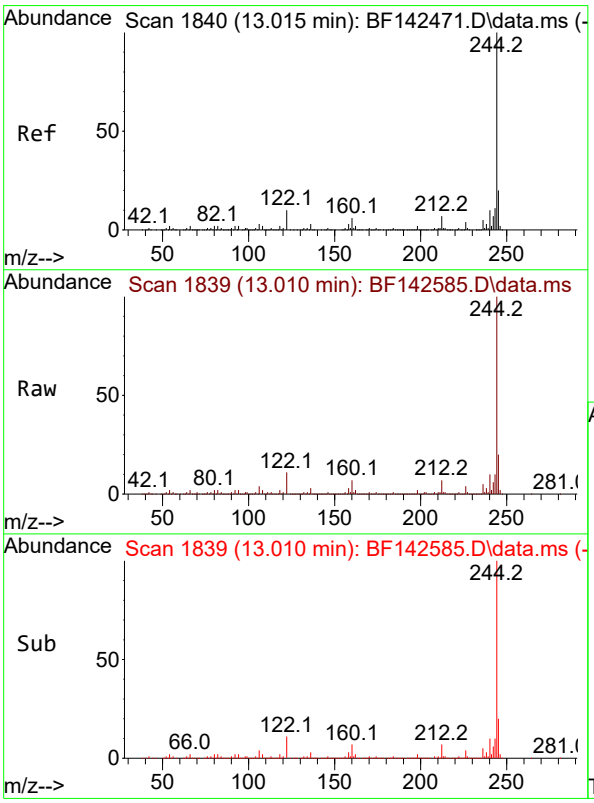
#78
Pyrene
Concen: 19.953 ng
RT: 12.868 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Instrument :
BNA_F
ClientSampleId :
TP-52

Tgt Ion:202 Resp: 507160

Ion	Ratio	Lower	Upper
202	100		
200	20.0	16.1	24.1
203	18.9	13.9	20.9

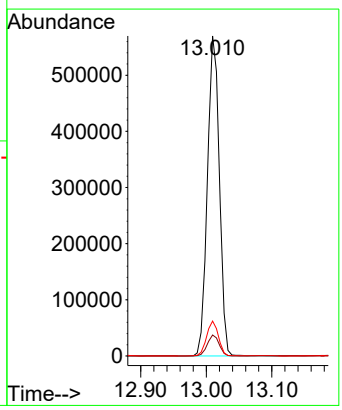


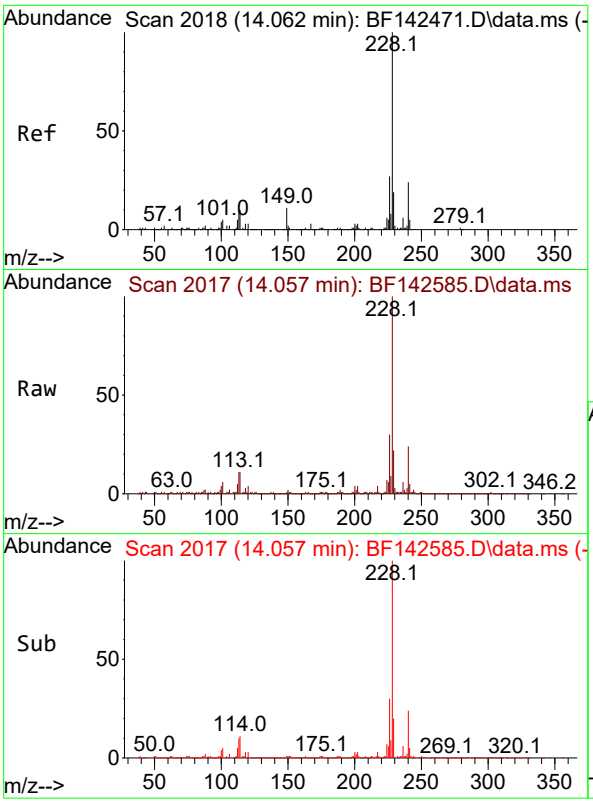


#79
Terphenyl-d14
Concen: 36.366 ng
RT: 13.010 min Scan# 1839
Delta R.T. -0.006 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Tgt Ion:244 Resp: 725082

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.3	7.9
122	10.9	8.2	12.2



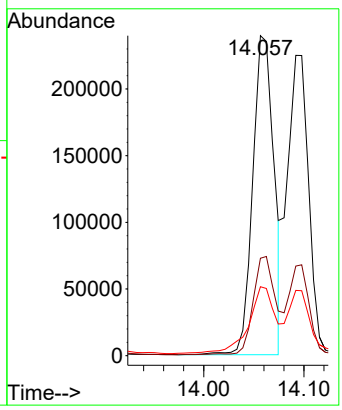


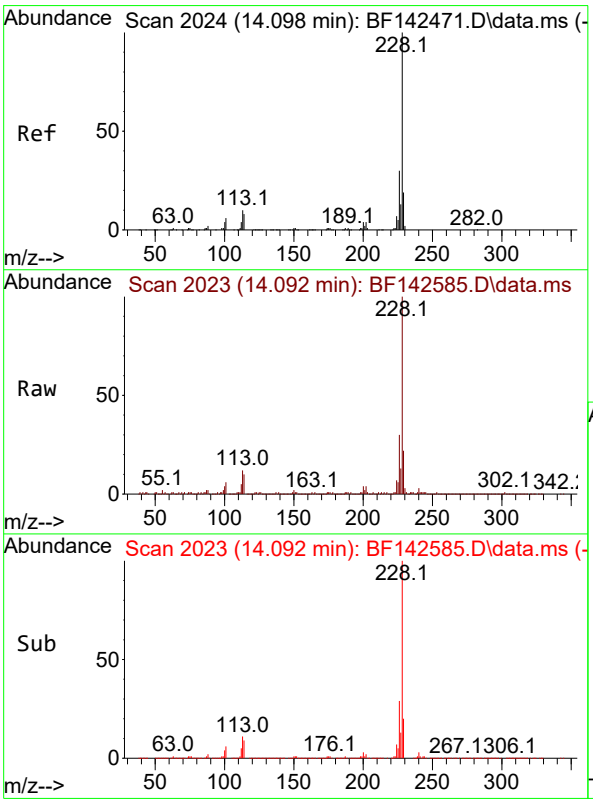
#81
Benzo(a)anthracene
Concen: 19.282 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Instrument :
BNA_F
ClientSampleId :
TP-52

Tgt Ion:228 Resp: 350812

Ion	Ratio	Lower	Upper
228	100		
226	30.4	21.2	31.8
229	21.5	15.5	23.3

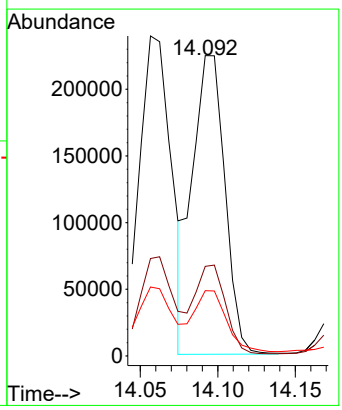


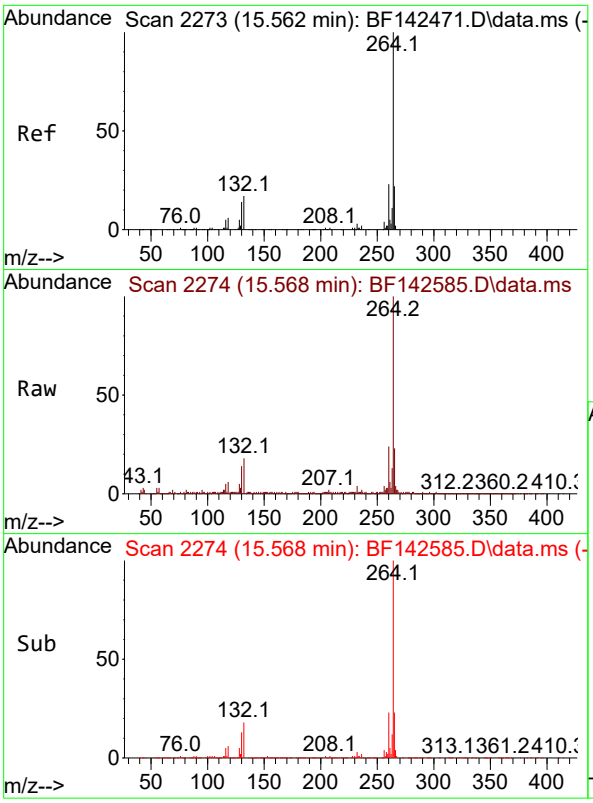


#83
Chrysene
Concen: 20.000 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Tgt Ion:228 Resp: 326975

Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.8	35.6
229	21.7	15.4	23.2



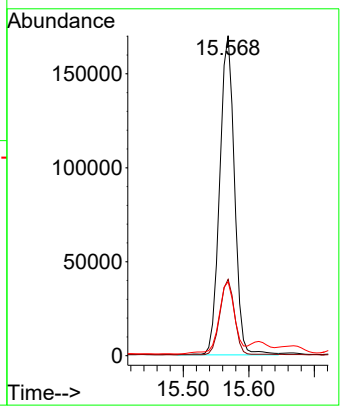


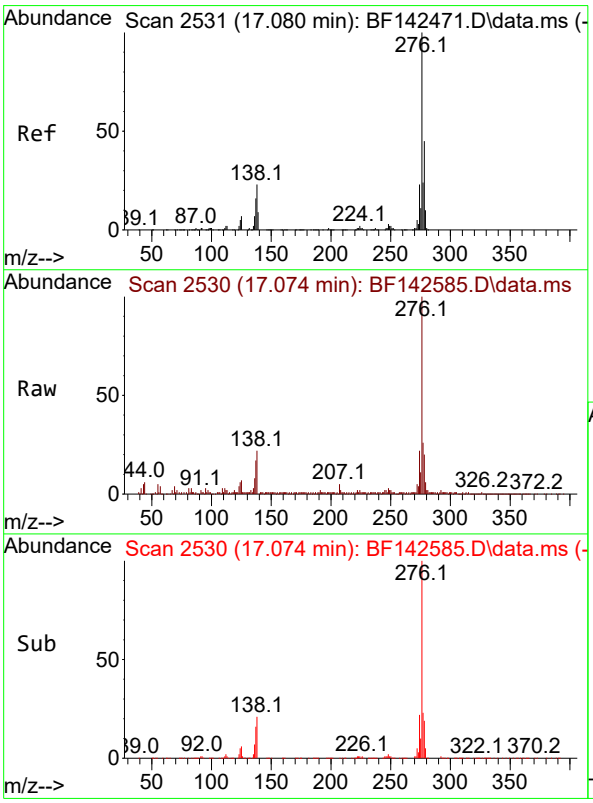
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.568 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Instrument :
BNA_F
ClientSampleId :
TP-52

Tgt Ion:264 Resp: 264844

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.6	28.0
265	23.1	17.7	26.5

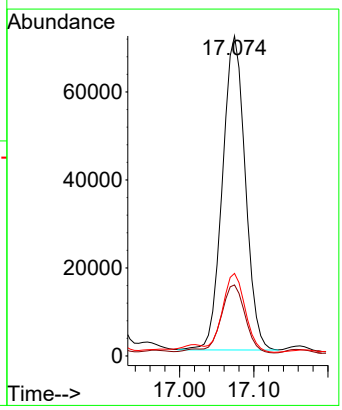


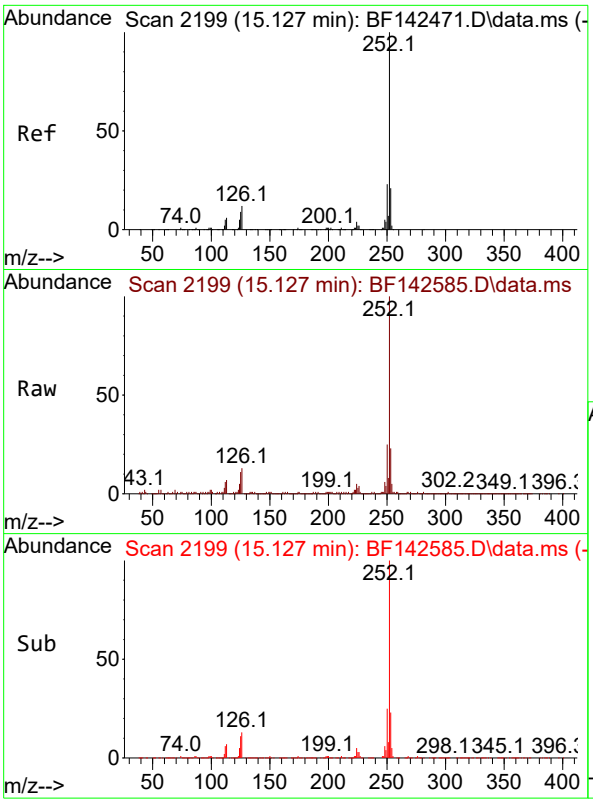


#87
Indeno(1,2,3-cd)pyrene
Concen: 7.678 ng
RT: 17.074 min Scan# 2530
Delta R.T. -0.018 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Tgt Ion:276 Resp: 152667

Ion	Ratio	Lower	Upper
276	100		
138	23.6	19.9	29.9
277	25.0	20.2	30.2



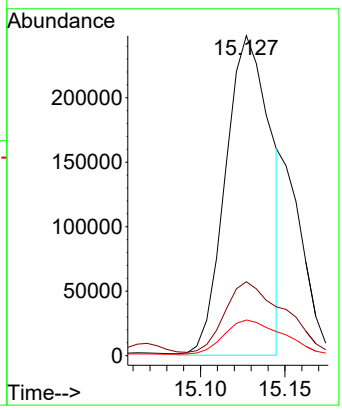


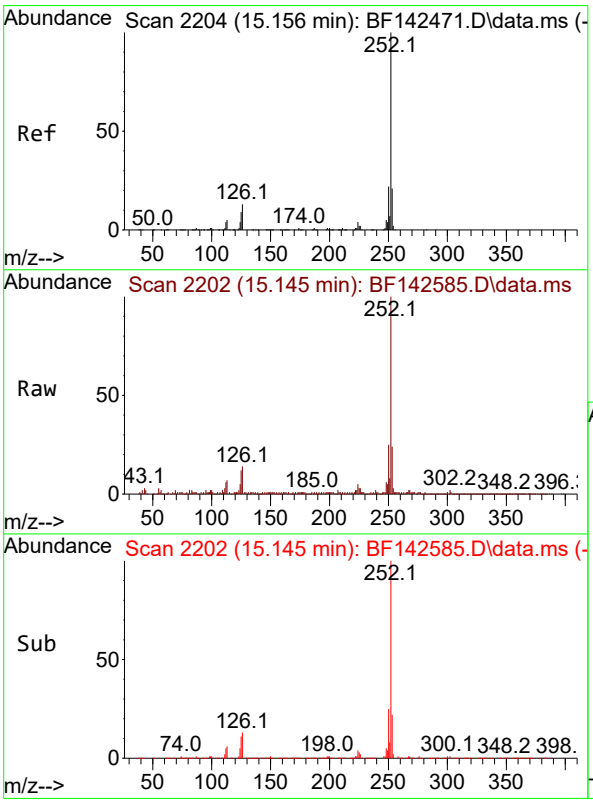
#88
Benzo(b)fluoranthene
Concen: 29.299 ng m
RT: 15.127 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Instrument :
BNA_F
ClientSampleId :
TP-52

Tgt Ion:252 Resp: 459256

Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.0	25.4
125	11.2	7.4	11.0#

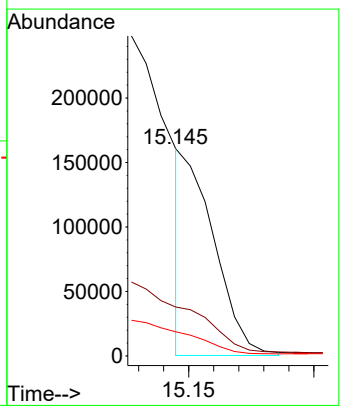


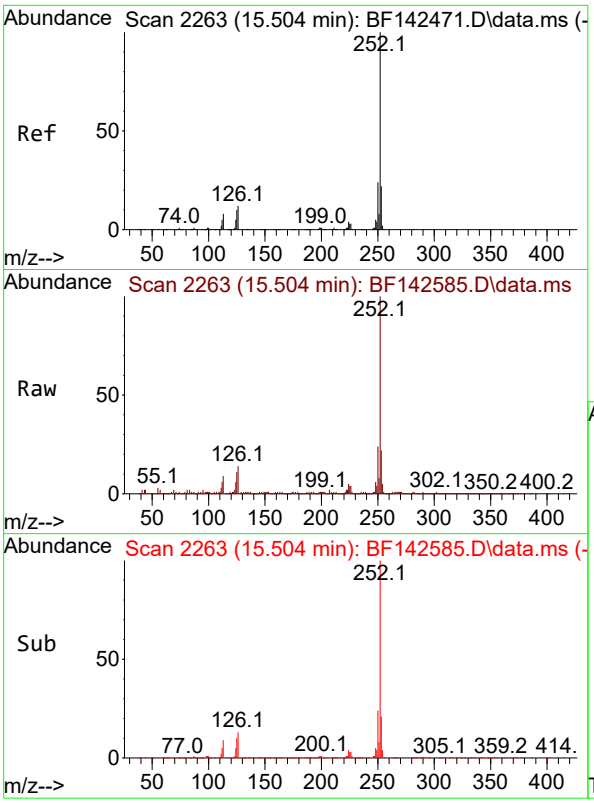


#89
Benzo(k)fluoranthene
Concen: 9.216 ng m
RT: 15.145 min Scan# 2202
Delta R.T. -0.018 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Tgt Ion:252 Resp: 135303

Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.0	25.4
125	11.7	7.3	10.9#



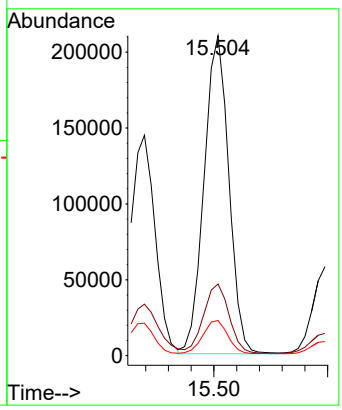


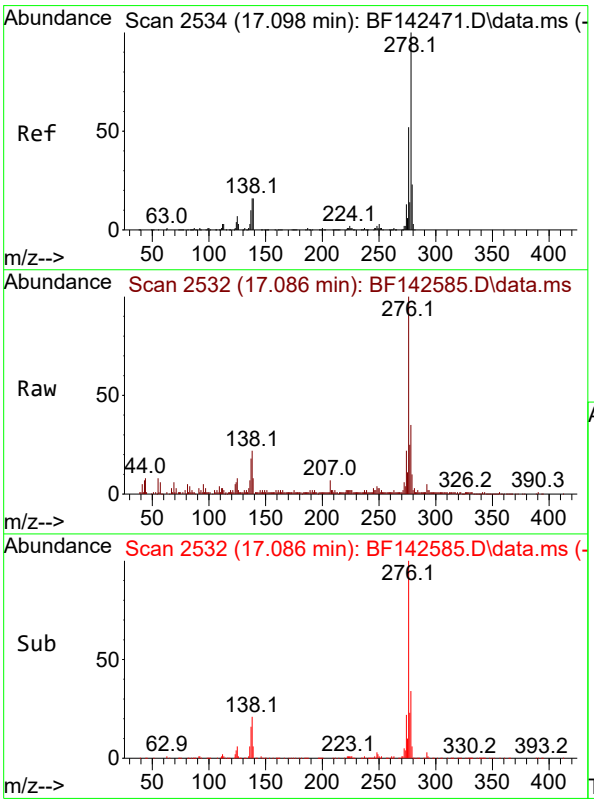
#90
Benzo(a)pyrene
Concen: 21.474 ng
RT: 15.504 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Instrument :
BNA_F
ClientSampleId :
TP-52

Tgt Ion:252 Resp: 317279

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.4	26.0
125	11.0	7.9	11.9

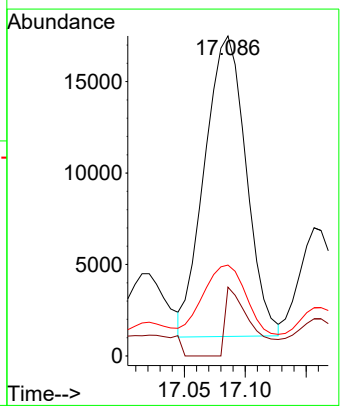


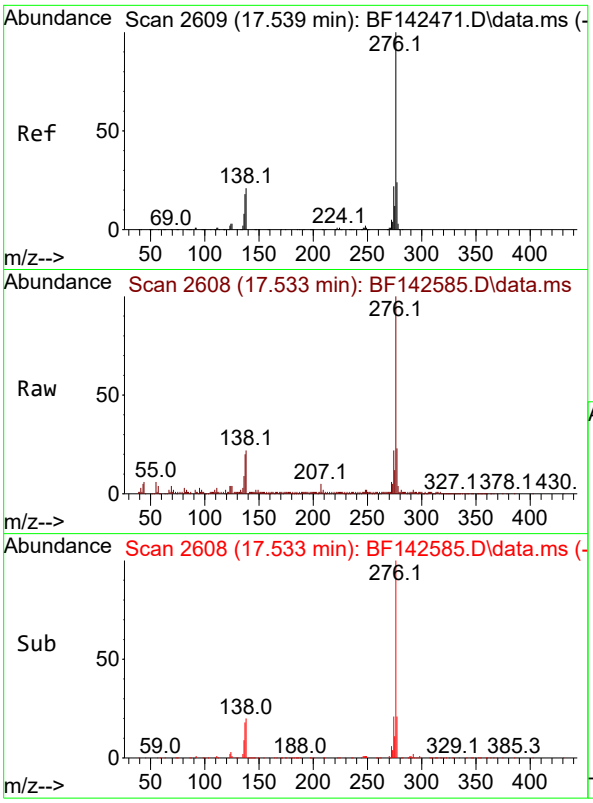


#91
Dibenzo(a,h)anthracene
Concen: 2.419 ng
RT: 17.086 min Scan# 2532
Delta R.T. -0.029 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Tgt Ion:278 Resp: 39006

Ion	Ratio	Lower	Upper
278	100		
139	21.5	12.8	19.2#
279	28.4	18.6	28.0#



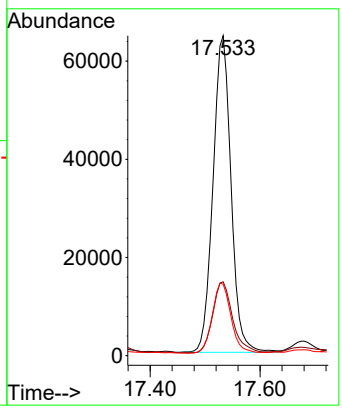


#92
Benzo(g,h,i)perylene
Concen: 9.119 ng
RT: 17.533 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF142585.D
Acq: 30 May 2025 22:41

Instrument :
BNA_F
ClientSampleId :
TP-52

Tgt Ion:276 Resp: 147088

Ion	Ratio	Lower	Upper
276	100		
277	23.1	19.2	28.8
138	22.4	16.8	25.2



Sample Results: **BF142585.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142585.D
Acq On : 30 May 2025 22:41
Operator : RC/JU
Sample : Q2150-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-52

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142585.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.299	13	18	30	rVB	26923	48271	1.97%	0.163%
2	5.116	488	497	511	rBV	181854	286965	11.70%	0.967%
3	5.516	559	565	570	rBV	1829344	2435191	99.31%	8.203%
4	5.845	616	621	629	rBV	59485	77449	3.16%	0.261%
5	6.522	725	736	741	rBV	1744939	2450336	99.92%	8.254%
6	6.898	795	800	805	rVB	618469	756248	30.84%	2.547%
7	7.457	884	895	900	rBV	1167788	1545101	63.01%	5.205%
8	7.710	934	938	944	rVB	29908	38949	1.59%	0.131%
9	8.181	1010	1018	1025	rBV	752382	993402	40.51%	3.346%
10	8.392	1049	1054	1061	rVB2	21813	30372	1.24%	0.102%
11	8.769	1113	1118	1121	rBV	47599	56880	2.32%	0.192%
12	9.257	1195	1201	1206	rBV	1947349	2452188	100.00%	8.260%
13	9.333	1209	1214	1222	rBV	59595	84450	3.44%	0.284%
14	9.651	1264	1268	1275	rVB3	34707	60017	2.45%	0.202%
15	9.798	1288	1293	1298	rBV	83747	105670	4.31%	0.356%
16	9.863	1299	1304	1308	rVB	50821	65336	2.66%	0.220%
17	9.933	1311	1316	1321	rBV	681221	892695	36.40%	3.007%
18	10.139	1346	1351	1355	rBV	24313	34283	1.40%	0.115%
19	10.363	1381	1389	1392	rBV2	44212	76550	3.12%	0.258%
20	10.486	1406	1410	1415	rVB	27940	43201	1.76%	0.146%
21	10.586	1422	1427	1432	rVV2	14527	25754	1.05%	0.087%
22	10.645	1432	1437	1444	rVB	135497	190869	7.78%	0.643%
23	10.727	1445	1451	1462	rBV	993381	1335038	54.44%	4.497%
24	10.845	1466	1471	1477	rVB3	50767	89507	3.65%	0.301%
25	11.033	1498	1503	1506	rBV3	18361	32522	1.33%	0.110%
26	11.280	1540	1545	1548	rBV4	21777	36030	1.47%	0.121%
27	11.316	1548	1551	1558	rVB2	28460	45187	1.84%	0.152%
28	11.427	1564	1570	1578	rBV2	557293	1003037	40.90%	3.379%
29	11.498	1578	1582	1586	rVV	86795	117359	4.79%	0.395%
30	11.533	1586	1588	1594	rVB2	21603	28282	1.15%	0.095%
31	11.657	1605	1609	1615	rBV3	18619	38530	1.57%	0.130%
32	11.716	1616	1619	1623	rVV2	24134	35776	1.46%	0.121%
33	11.757	1623	1626	1630	rVB	22058	27961	1.14%	0.094%
34	11.951	1650	1659	1664	rBV3	341234	597240	24.36%	2.012%
35	12.004	1664	1668	1670	rVV	46771	73801	3.01%	0.249%
36	12.039	1670	1674	1683	rVB	157183	285312	11.63%	0.961%

Sample Results: **BF142585.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142585.D
Acq On : 30 May 2025 22:41
Operator : RC/JU
Sample : Q2150-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-52

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	12.221	1698	1705	1708	rBV	55980	98202	4.00%	0.331%
38	12.368	1725	1730	1733	rBV2	25600	44918	1.83%	0.151%
39	12.404	1733	1736	1738	rBV	21968	25673	1.05%	0.086%
40	12.474	1744	1748	1751	rBV	94828	133878	5.46%	0.451%
41	12.510	1751	1754	1760	rVV2	63777	107570	4.39%	0.362%
42	12.563	1760	1763	1771	rVB3	47496	80789	3.29%	0.272%
43	12.639	1771	1776	1781	rBV	881883	1115306	45.48%	3.757%
44	12.733	1788	1792	1799	rVB	67960	80375	3.28%	0.271%
45	12.792	1799	1802	1808	rVB3	34082	53914	2.20%	0.182%
46	12.868	1808	1815	1821	rBV	859017	1285596	52.43%	4.330%
47	12.921	1821	1824	1828	rVB2	48347	67224	2.74%	0.226%
48	13.010	1832	1839	1846	rVB	1499817	1990263	81.16%	6.704%
49	13.086	1847	1852	1859	rBV3	95839	180214	7.35%	0.607%
50	13.198	1863	1871	1875	rVB	175326	317474	12.95%	1.069%
51	13.263	1878	1882	1885	rVV	136985	168186	6.86%	0.567%
52	13.304	1885	1889	1896	rVB2	114166	172086	7.02%	0.580%
53	13.392	1901	1904	1907	rBV	67437	83895	3.42%	0.283%
54	13.427	1907	1910	1913	rVB	63606	75575	3.08%	0.255%
55	13.580	1933	1936	1938	rBV2	33736	49434	2.02%	0.167%
56	13.815	1972	1976	1979	rBV2	93135	145657	5.94%	0.491%
57	13.910	1988	1992	1998	rVB3	147816	225973	9.22%	0.761%
58	14.062	2012	2018	2022	rBV2	980257	1860542	75.87%	6.267%
59	14.174	2034	2037	2040	rVB	81209	87549	3.57%	0.295%
60	14.451	2081	2084	2088	rVB	109745	138458	5.65%	0.466%
61	14.580	2104	2106	2108	rBV	54384	56867	2.32%	0.192%
62	15.127	2193	2199	2208	rBV	630627	1532319	62.49%	5.162%
63	15.233	2214	2217	2222	rVB	131231	174754	7.13%	0.589%
64	15.439	2247	2252	2258	rVB	354503	576011	23.49%	1.940%
65	15.504	2258	2263	2268	rBV	506601	757564	30.89%	2.552%
66	15.568	2269	2274	2277	rBV	435399	704576	28.73%	2.373%
67	17.074	2524	2530	2540	rVB2	201871	448824	18.30%	1.512%
68	17.533	2602	2608	2621	rVB	153340	351948	14.35%	1.186%

Sum of corrected areas: 29687373

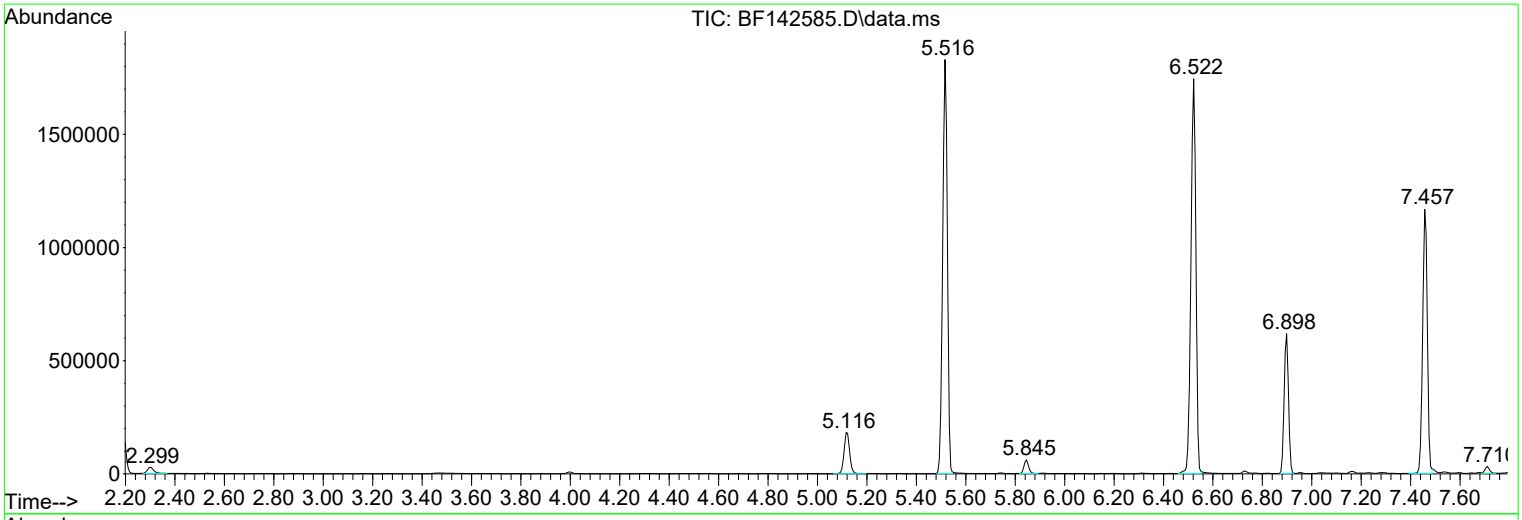
Sample Results: **BF142585.D**

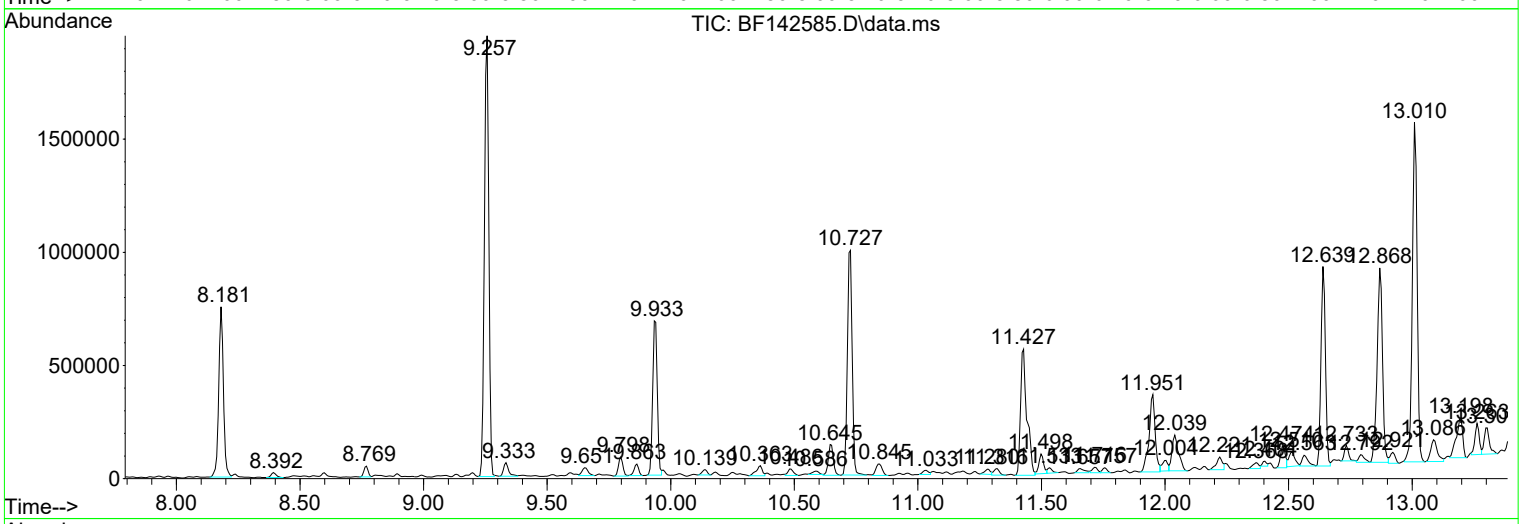
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142585.D
Acq On : 30 May 2025 22:41
Operator : RC/JU
Sample : Q2150-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

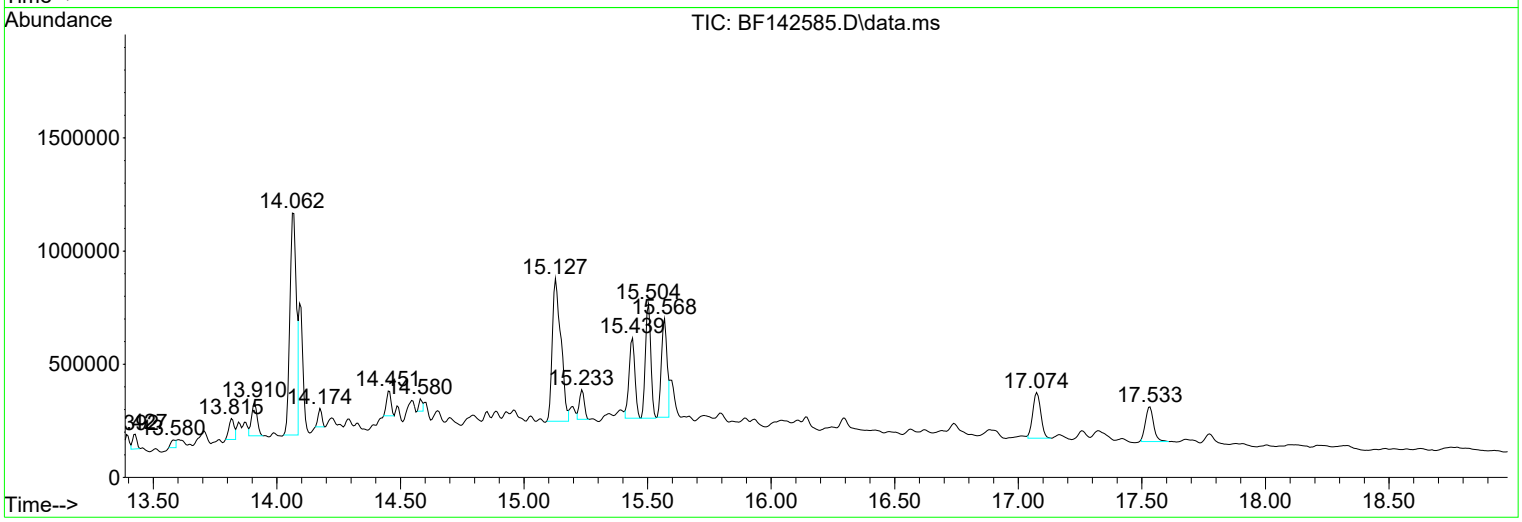
Instrument :
BNA_F
ClientSampleId :
TP-52

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.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\BF053025\
Data File : BF142585.D
Acq On : 30 May 2025 22:41
Operator : RC/JU
Sample : Q2150-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-52

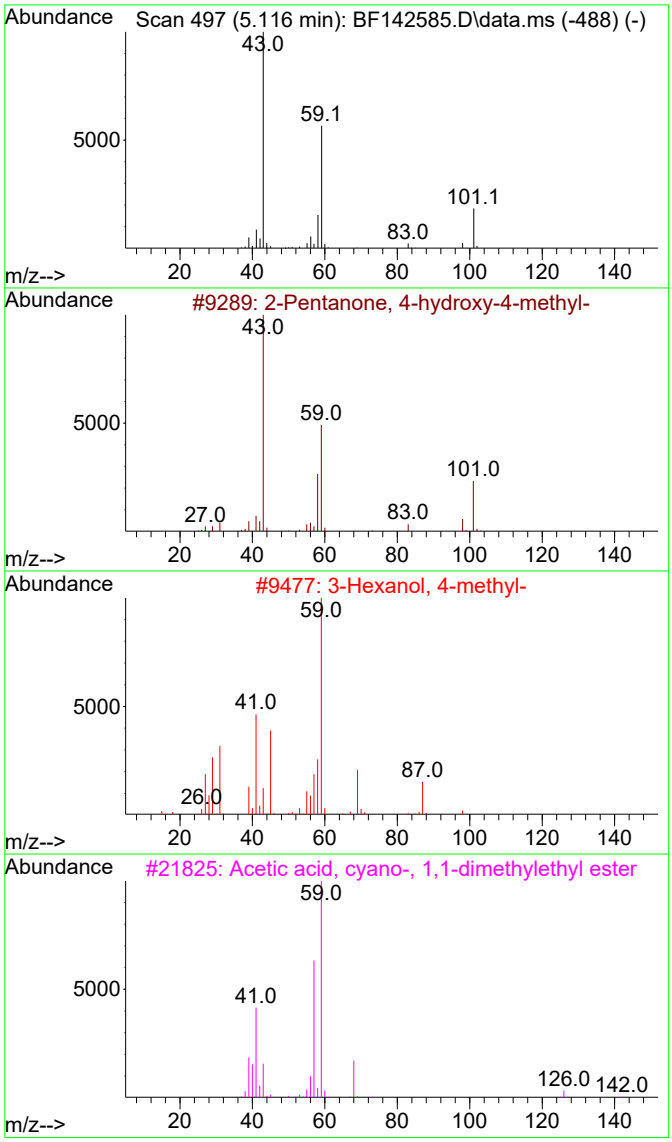
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

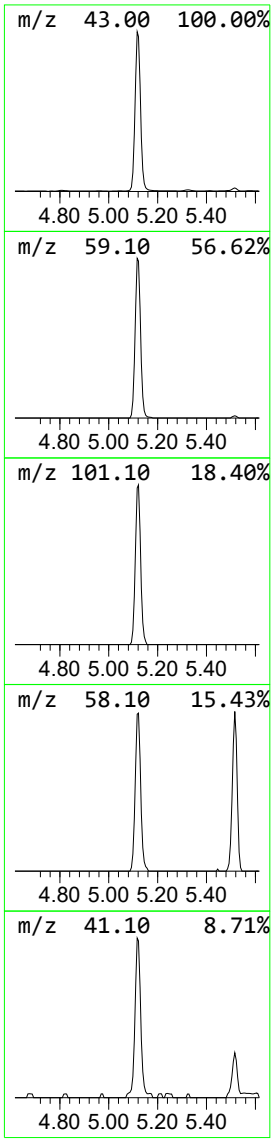
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	7.59 ng	286965	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142585.D
Acq On : 30 May 2025 22:41
Operator : RC/JU
Sample : Q2150-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-52

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

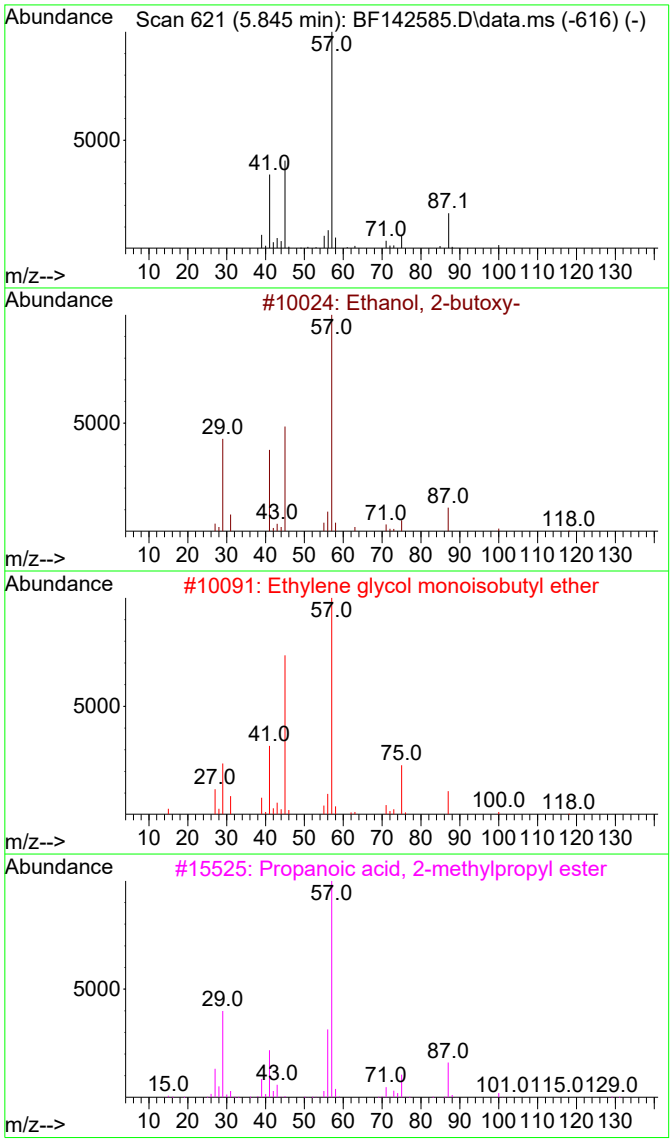
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

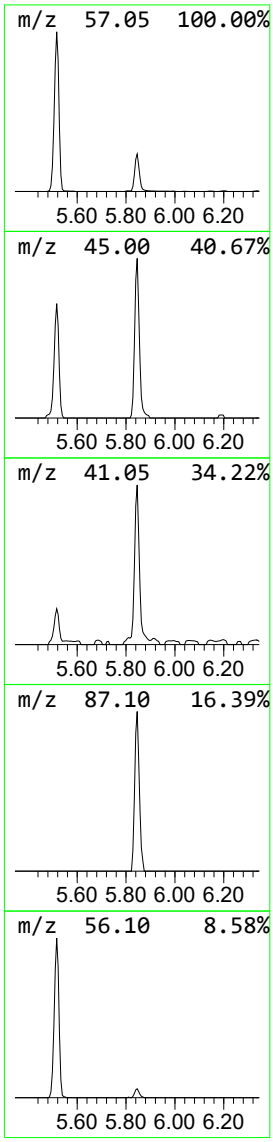
****

Peak Number 2 Ethanol, 2-butoxy- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.845	2.05 ng	77449	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-butoxy-	118	C6H14O2	000111-76-2	74
2	Ethylene glycol monoisobutyl ether	118	C6H14O2	004439-24-1	42
3	Propanoic acid, 2-methylpropyl e...	130	C7H14O2	000540-42-1	17
4	Isobutyl ether	130	C8H18O	000628-55-7	16
5	n-Butyl ether	130	C8H18O	000142-96-1	16





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142585.D
Acq On : 30 May 2025 22:41
Operator : RC/JU
Sample : Q2150-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-52

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

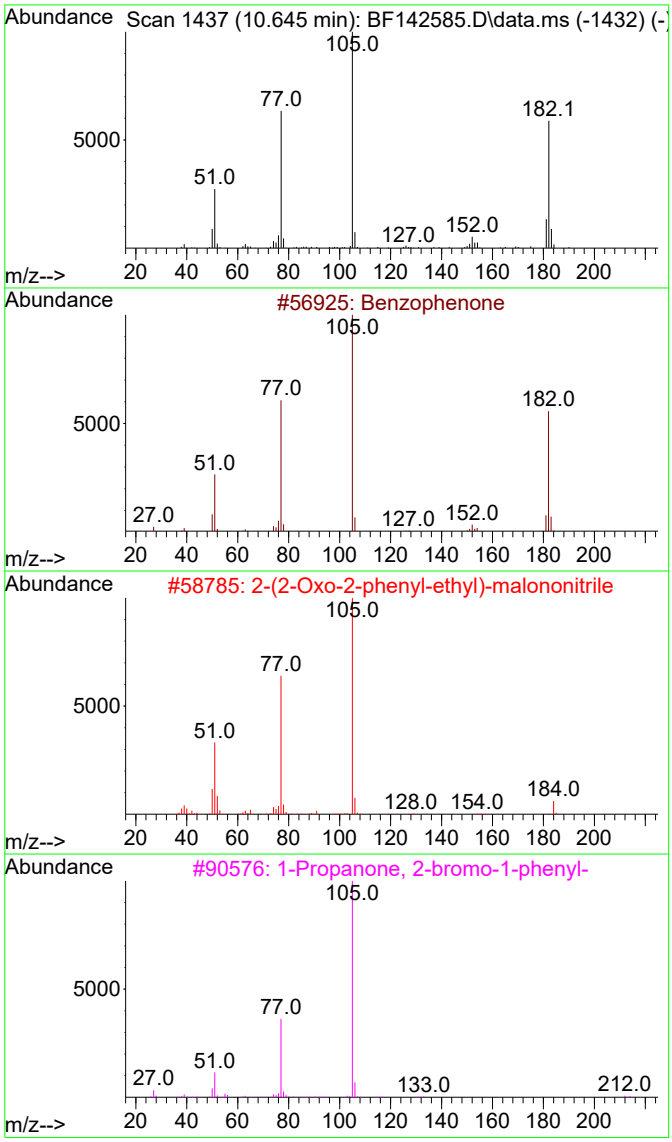
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

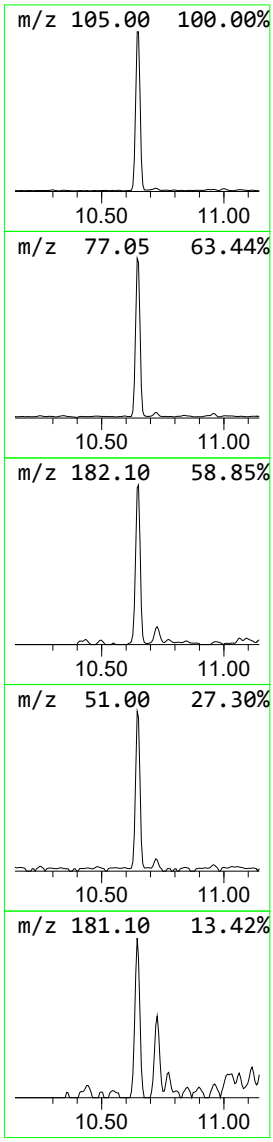
****

Peak Number 3 Benzophenone Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	4.28 ng	190869	Acenaphthene-d10	9.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	2-(2-Oxo-2-phenyl-ethyl)-malonon...	184	C11H8N2O	1000296-76-9	53
3	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47
4	acetic acid, 2-bromo-, 2-oxo-2-p...	256	C10H9BrO3	1000401-50-0	47
5	N-Methylbenzamide, N-chlorodiflu...	247	C10H8ClF2NO2	1000446-98-2	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142585.D
Acq On : 30 May 2025 22:41
Operator : RC/JU
Sample : Q2150-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-52

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

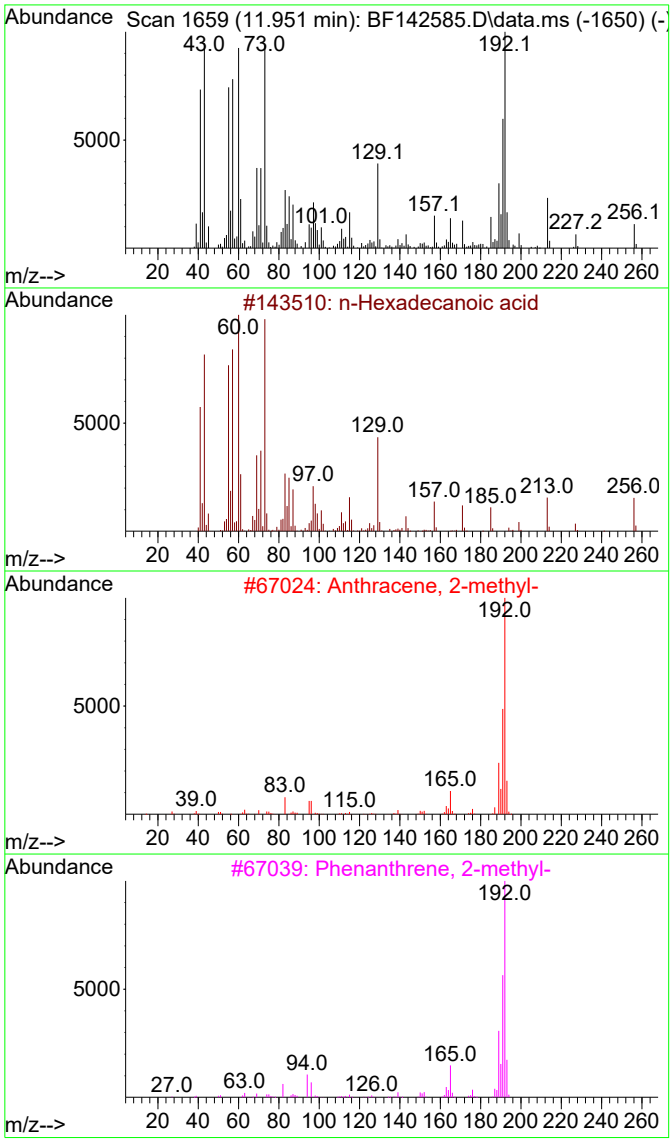
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

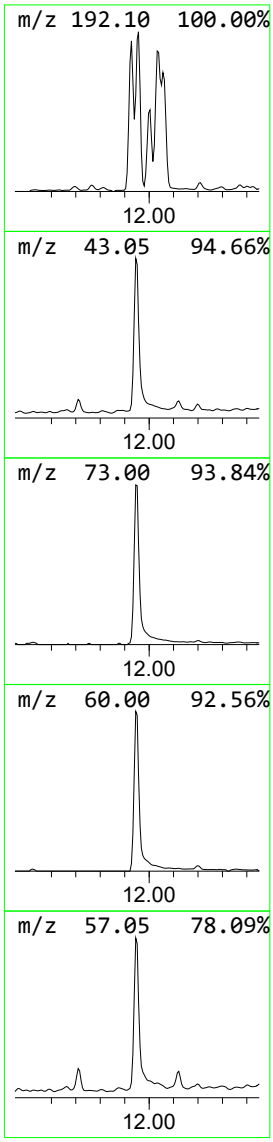
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.951	11.91 ng	597240	Phenanthrene-d10	11.427

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
4	Tridecanoic acid	214	C13H26O2	000638-53-9	87
5	n-Decanoic acid	172	C10H20O2	000334-48-5	83





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142585.D
Acq On : 30 May 2025 22:41
Operator : RC/JU
Sample : Q2150-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-52

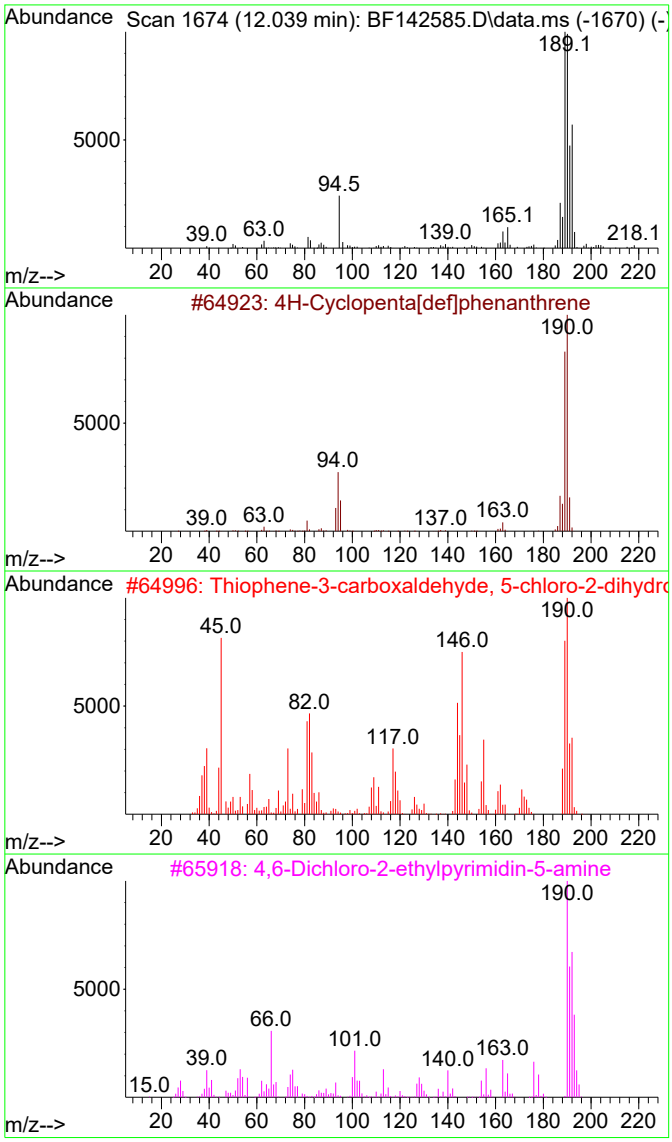
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

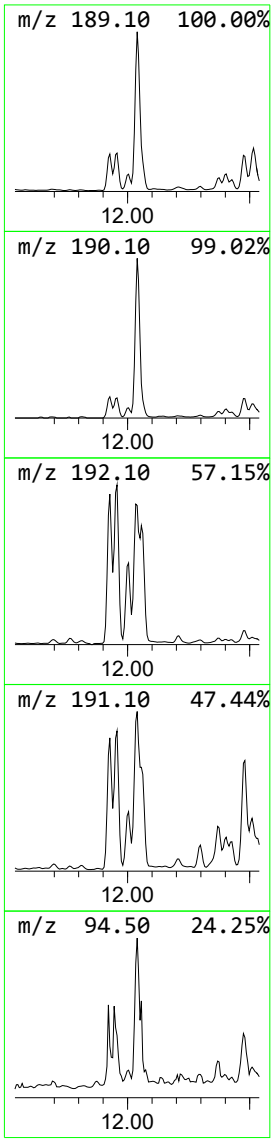
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.039	5.69 ng	285312	Phenanthrene-d10	11.427

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	50
3	4,6-Dichloro-2-ethylpyrimidin-5-...	191	C6H7Cl2N3	006237-96-3	43
4	2-Amino-4,6-dichloropyrimidine-5...	191	C5H3Cl2N3O	005604-46-6	43
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	43





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142585.D
Acq On : 30 May 2025 22:41
Operator : RC/JU
Sample : Q2150-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-52

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

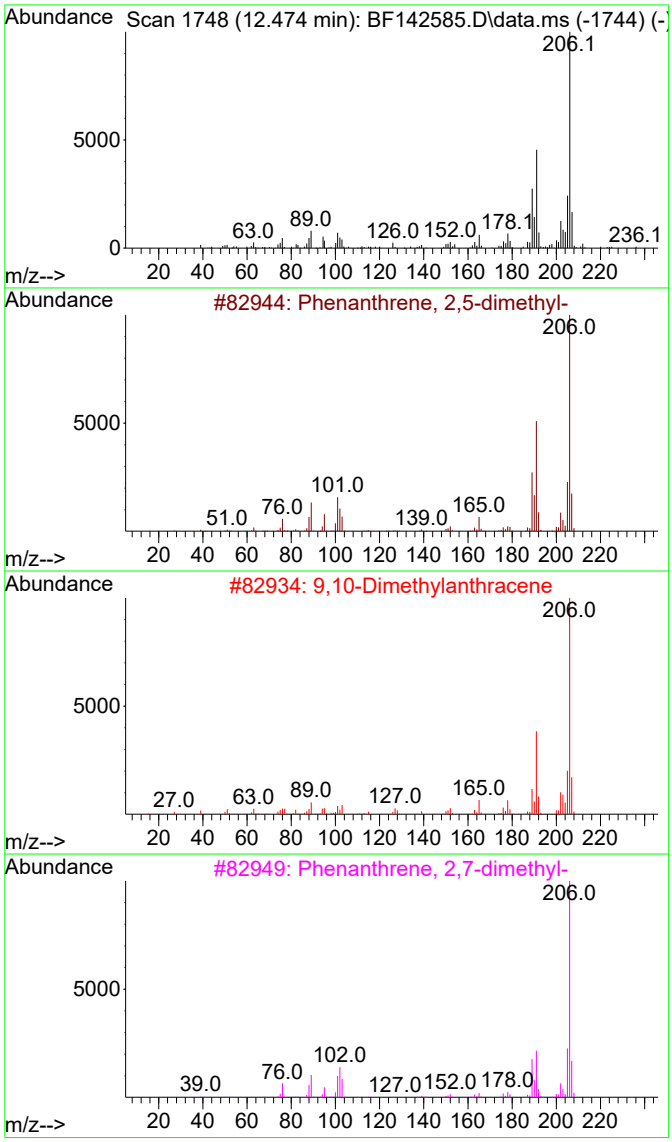
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

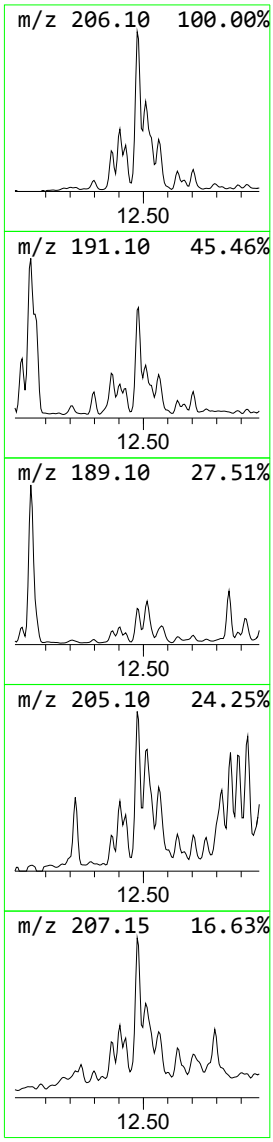
****

Peak Number 6 Phenanthrene, 2,5-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.474	2.67 ng	133878	Phenanthrene-d10	11.427

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	93
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142585.D
Acq On : 30 May 2025 22:41
Operator : RC/JU
Sample : Q2150-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-52

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

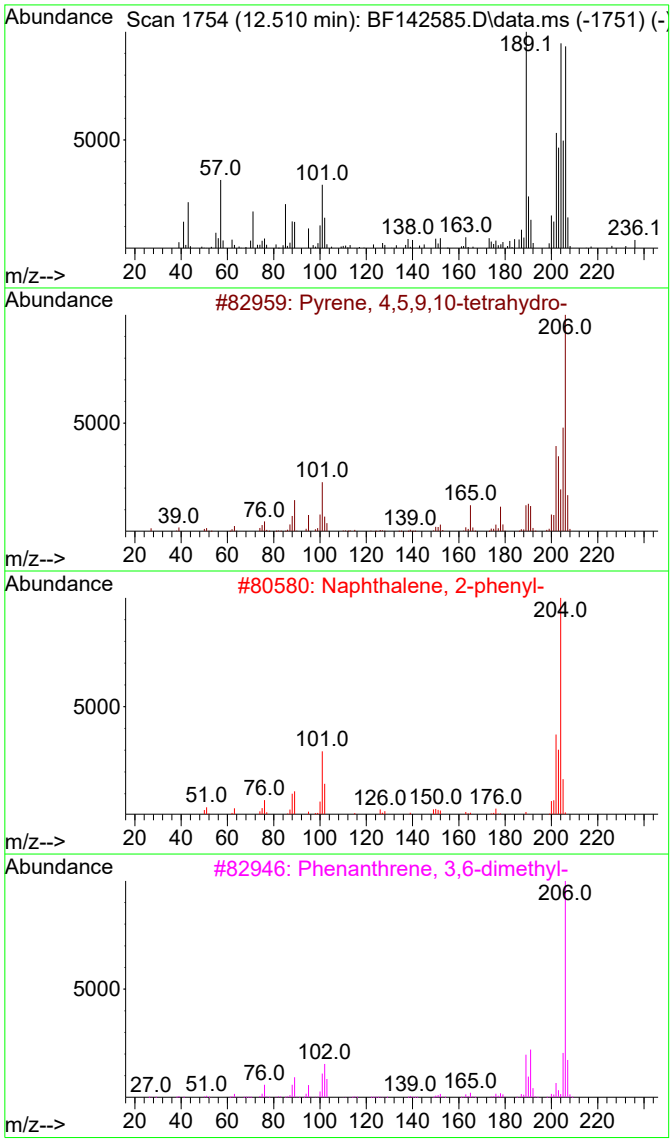
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

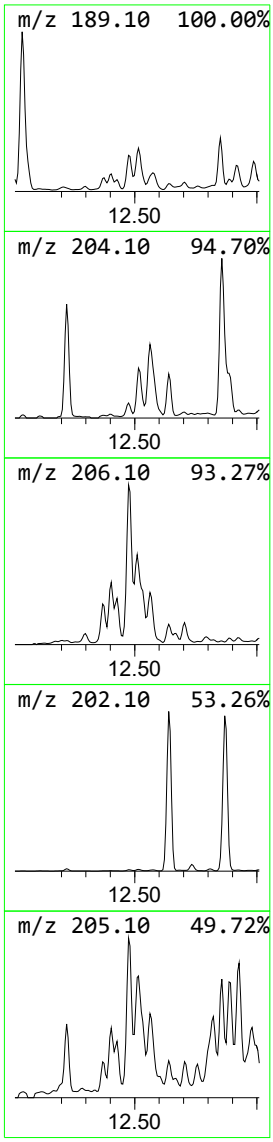
****

Peak Number 7 Pyrene, 4,5,9,10-tetrahydro- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.510	2.14 ng	107570	Phenanthrene-d10	11.427

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	51
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	35
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	27
4	Isoquinoline, 1,2,3,4-tetrahydro...	205	C12H19NSi	069944-96-3	25
5	4-(Trifluoromethoxy)benzoic acid	206	C8H5F3O3	000330-12-1	22





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142585.D
Acq On : 30 May 2025 22:41
Operator : RC/JU
Sample : Q2150-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-52

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

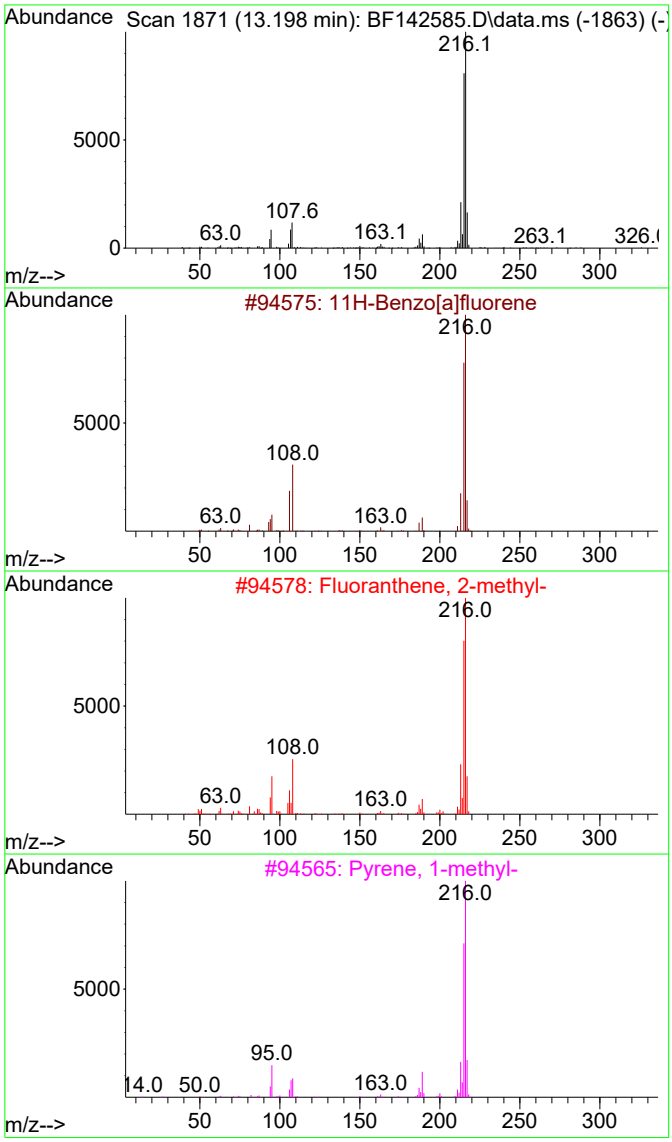
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

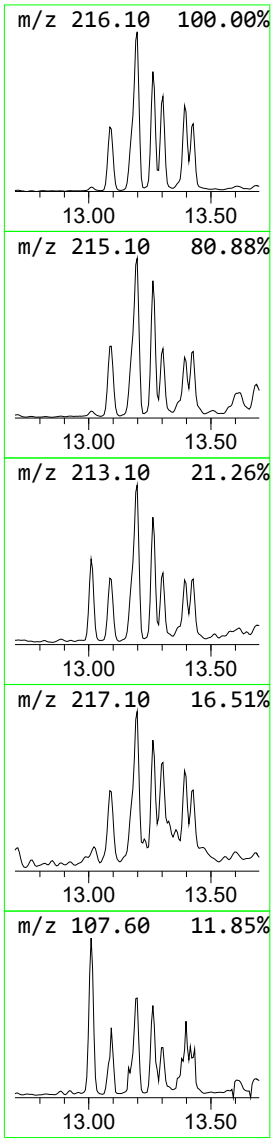
****

Peak Number 8 11H-Benzo[a]fluorene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.198	3.41 ng	317474	Chrysene-d12	14.068

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142585.D
Acq On : 30 May 2025 22:41
Operator : RC/JU
Sample : Q2150-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-52

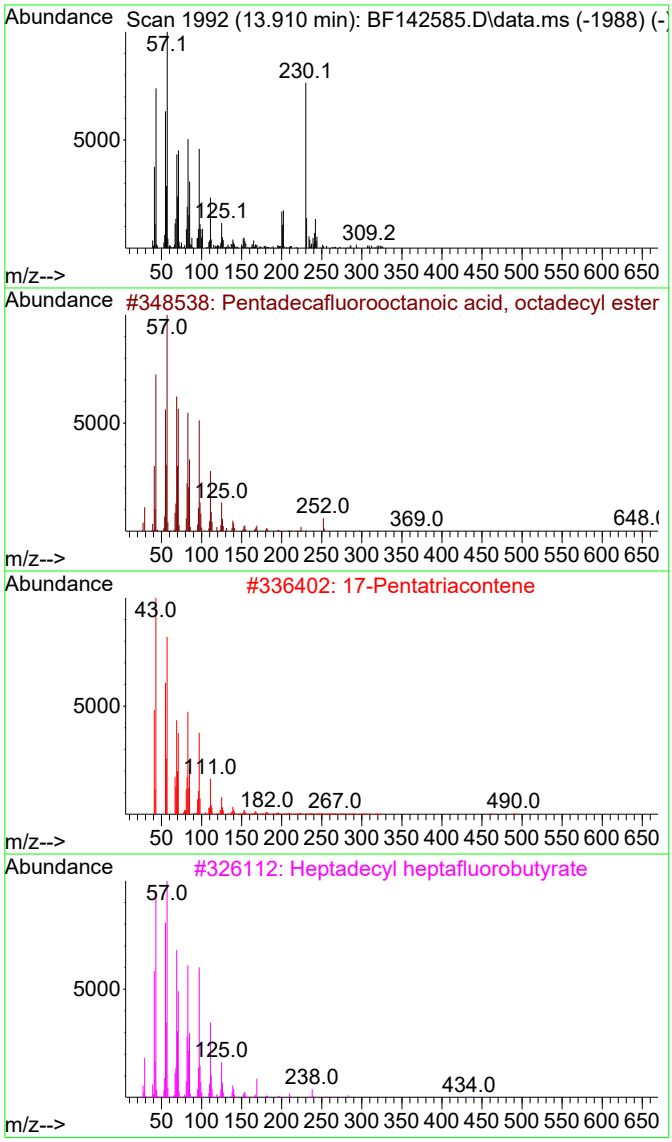
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

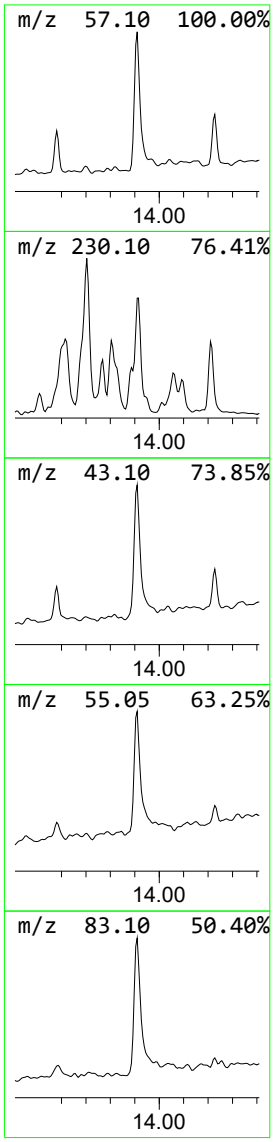
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Pentadecafluorooctanoic aci... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.910	2.43 ng	225973	Chrysene-d12	14.068

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	78
2	17-Pentatriacontene	491	C35H70	006971-40-0	60
3	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	60
4	Tricosyl trifluoroacetate	436	C25H47F3O2	1000351-75-1	60
5	Tetracosyl heptafluorobutyrate	550	C28H49F7O2	1000351-83-7	60





Sample Results: **BF142585.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142585.D
Acq On : 30 May 2025 22:41
Operator : RC/JU
Sample : Q2150-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-52

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

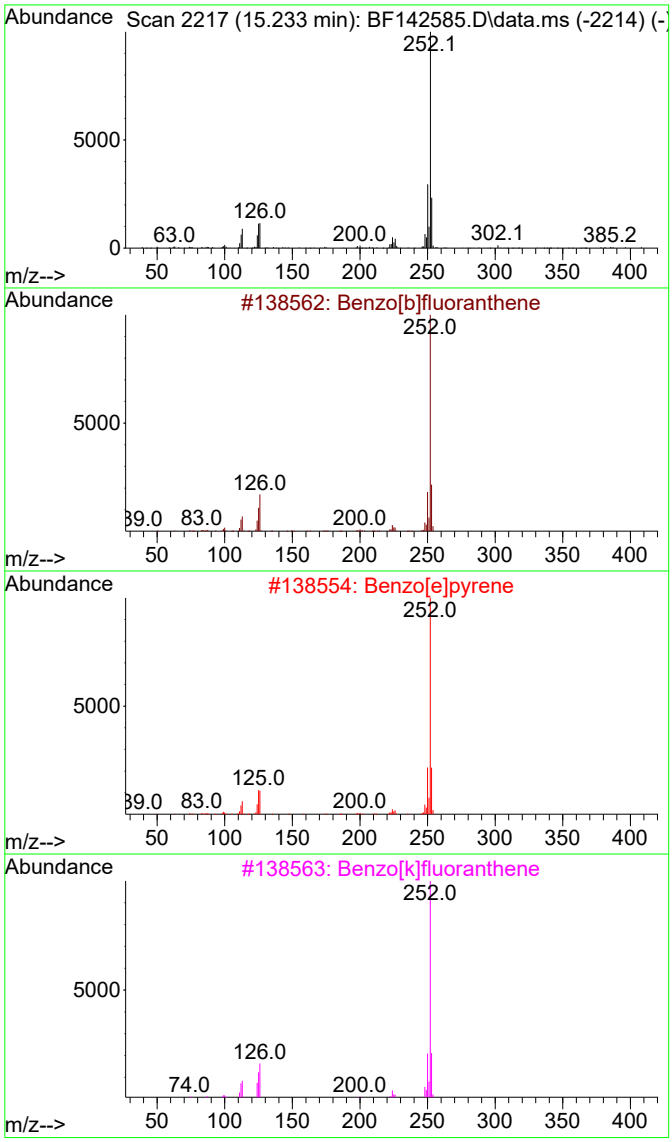
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

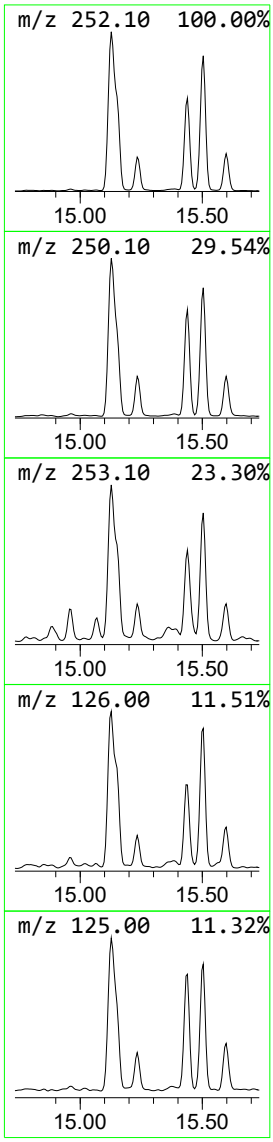
****

Peak Number 10 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.233	4.96 ng	174754	Perylene-d12	15.568

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]fluoranthene	252	C20H12	000205-99-2	93
2	Benzo[e]pyrene	252	C20H12	000192-97-2	93
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	91
5	Perylene	252	C20H12	000198-55-0	81





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142585.D
Acq On : 30 May 2025 22:41
Operator : RC/JU
Sample : Q2150-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-52

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

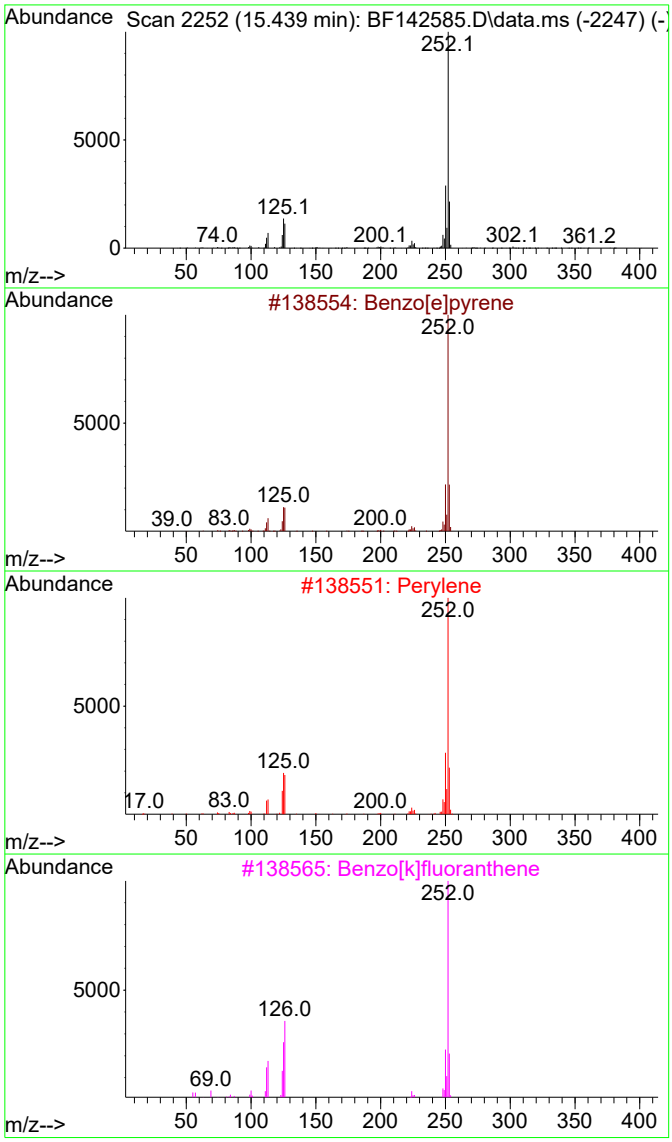
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

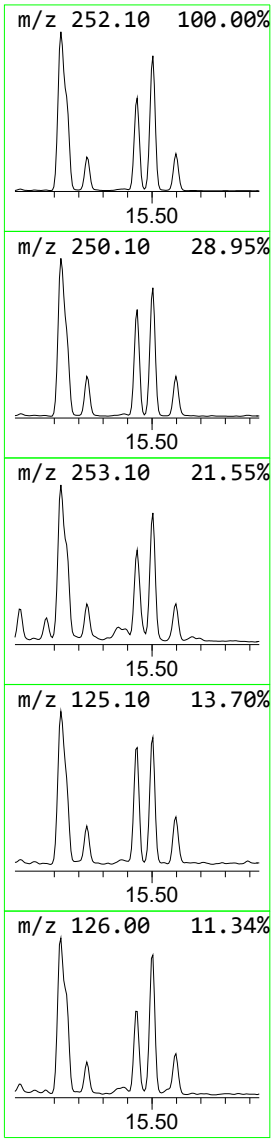
****

Peak Number 11 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.439	16.35 ng	576011	Perylene-d12	15.568

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Perylene	252	C20H12	000198-55-0	97
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	96
4	Benzo[b]fluoranthene	252	C20H12	000205-99-2	94
5	Benzo[a]pyrene	252	C20H12	000050-32-8	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142585.D
Acq On : 30 May 2025 22:41
Operator : RC/JU
Sample : Q2150-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-52

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.116	7.6	ng	286965	1	6.898	756248	20.0
Ethanol, 2-butoxy-	5.845	2.0	ng	77449	1	6.898	756248	20.0
Benzophenone	10.645	4.3	ng	190869	3	9.939	892695	20.0
n-Hexadecanoic ...	11.951	11.9	ng	597240	4	11.427	1003040	20.0
4H-Cyclopenta[d...	12.039	5.7	ng	285312	4	11.427	1003040	20.0
Phenanthrene, 2...	12.474	2.7	ng	133878	4	11.427	1003040	20.0
Pyrene, 4,5,9,1...	12.510	2.1	ng	107570	4	11.427	1003040	20.0
11H-Benzo[a]flu...	13.198	3.4	ng	317474	5	14.068	1860540	20.0
Pentadecafluoro...	13.910	2.4	ng	225973	5	14.068	1860540	20.0
Benzo[e]pyrene	15.233	5.0	ng	174754	6	15.568	704576	20.0
Perylene	15.439	16.4	ng	576011	6	15.568	704576	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142570.D
Acq On : 30 May 2025 15:21
Operator : RC/JU
Sample : Q2150-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-54

Quant Time: May 30 15:43:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

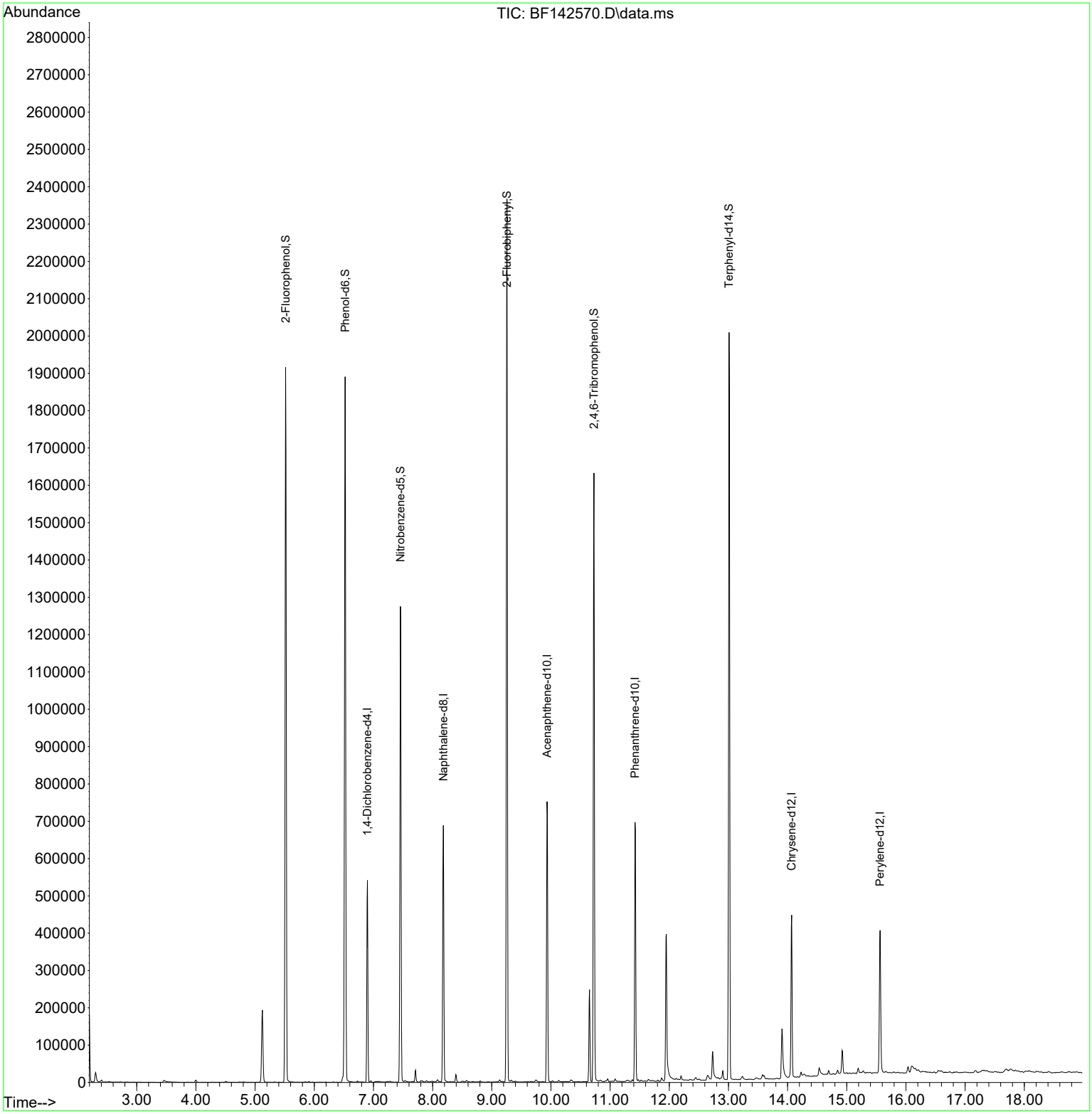
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	118247	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	441924	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	231484	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	379392	20.000	ng	-0.01
76) Chrysene-d12	14.068	240	216438	20.000	ng	0.00
86) Perylene-d12	15.562	264	226398	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	756406	107.771	ng	0.00
7) Phenol-d6	6.522	99	949761	112.414	ng	-0.01
23) Nitrobenzene-d5	7.457	82	557041	68.733	ng	-0.02
42) 2,4,6-Tribromophenol	10.727	330	303025	117.946	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	1081028	62.665	ng	-0.01
79) Terphenyl-d14	13.010	244	985998	62.254	ng	0.00
Target Compounds						Qvalue

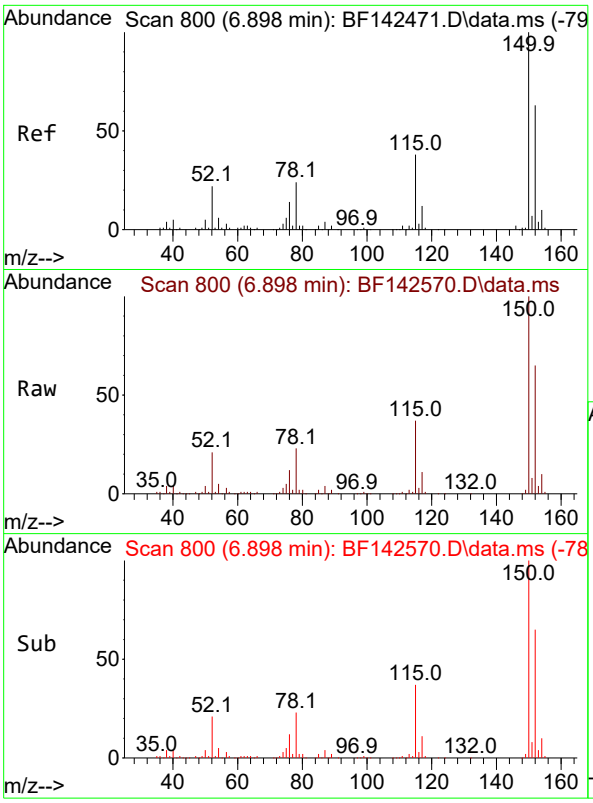
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142570.D
Acq On : 30 May 2025 15:21
Operator : RC/JU
Sample : Q2150-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-54

Quant Time: May 30 15:43:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



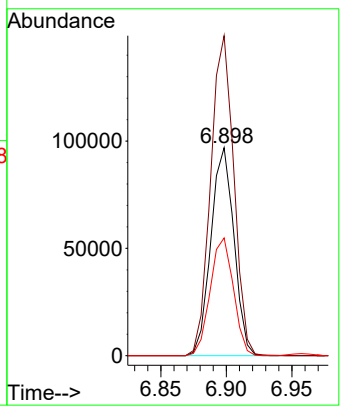


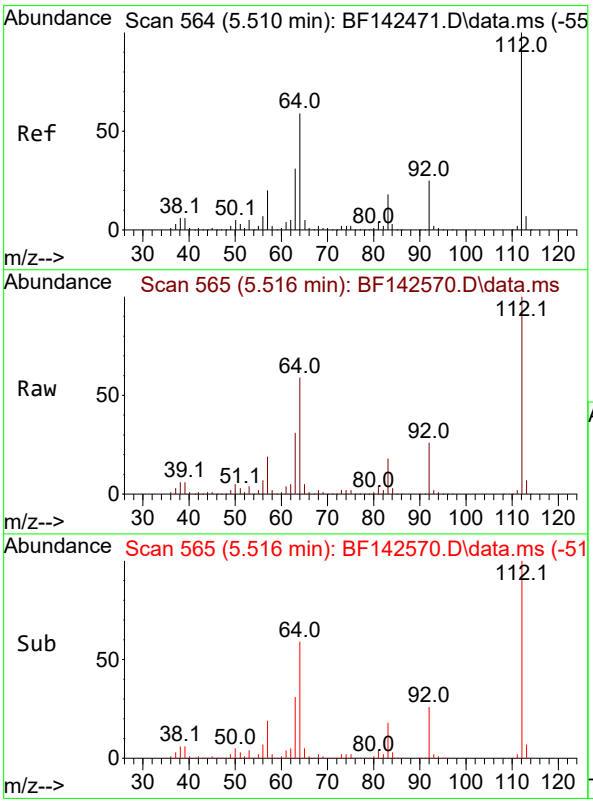
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142570.D
Acq: 30 May 2025 15:21

Instrument :
BNA_F
ClientSampleId :
TP-54

Tgt Ion:152 Resp: 118247

Ion	Ratio	Lower	Upper
152	100		
150	153.9	128.2	192.4
115	56.6	48.3	72.5

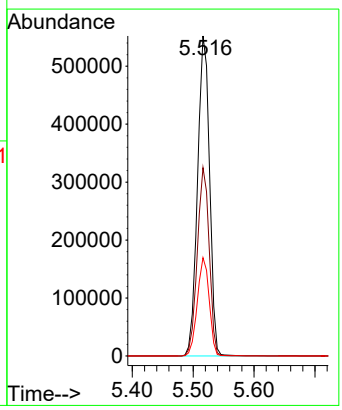


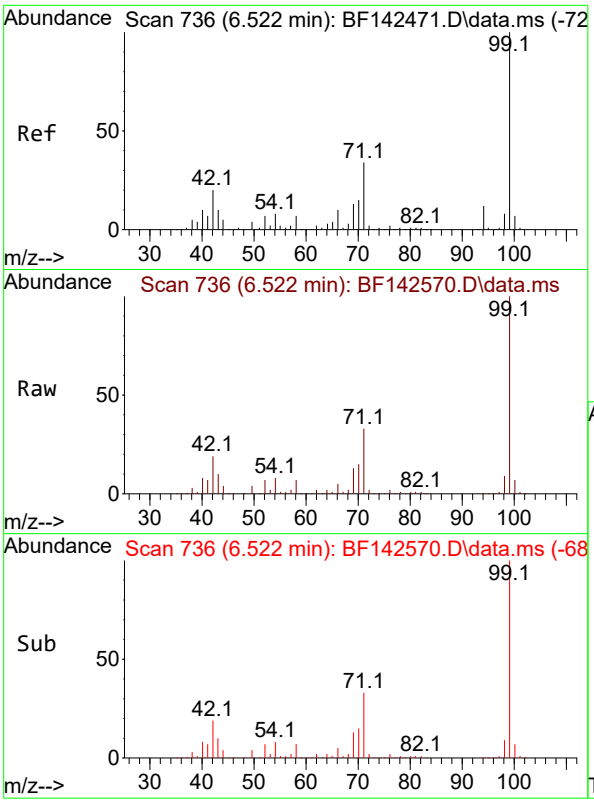


#5
2-Fluorophenol
Concen: 107.771 ng
RT: 5.516 min Scan# 565
Delta R.T. 0.000 min
Lab File: BF142570.D
Acq: 30 May 2025 15:21

Tgt Ion:112 Resp: 756406

Ion	Ratio	Lower	Upper
112	100		
64	58.8	47.5	71.3
63	30.7	24.9	37.3



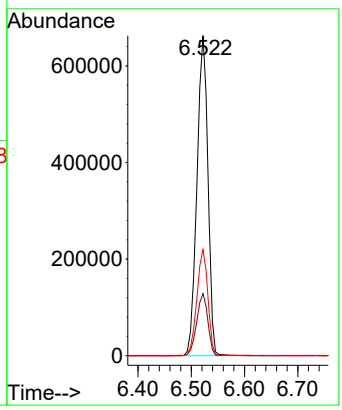


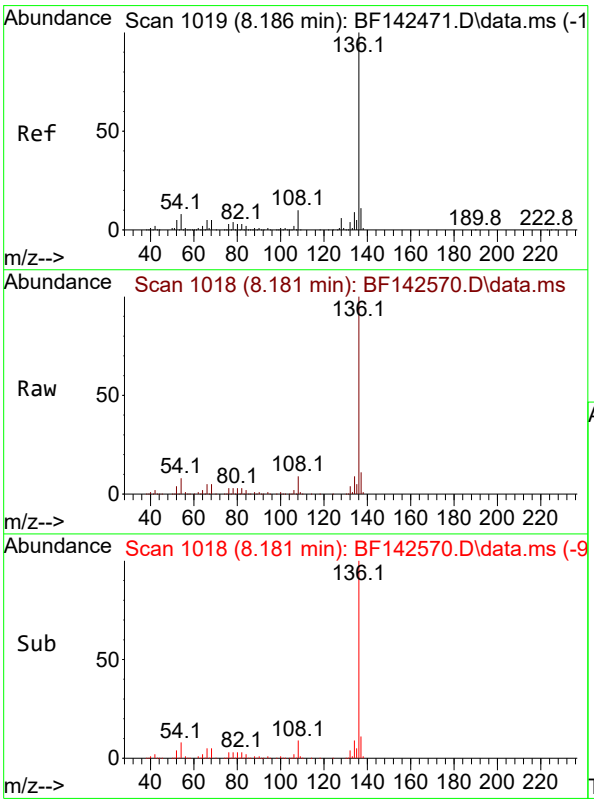
#7
Phenol-d6
Concen: 112.414 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142570.D
Acq: 30 May 2025 15:21

Instrument :
BNA_F
ClientSampleId :
TP-54

Tgt Ion: 99 Resp: 949761

Ion	Ratio	Lower	Upper
99	100		
42	19.4	16.2	24.2
71	33.1	27.3	40.9

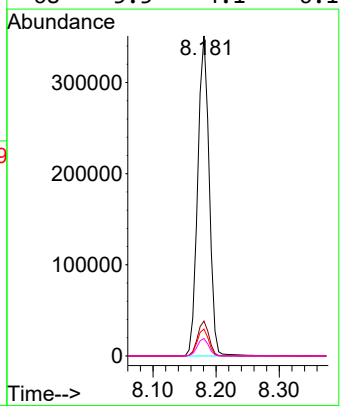


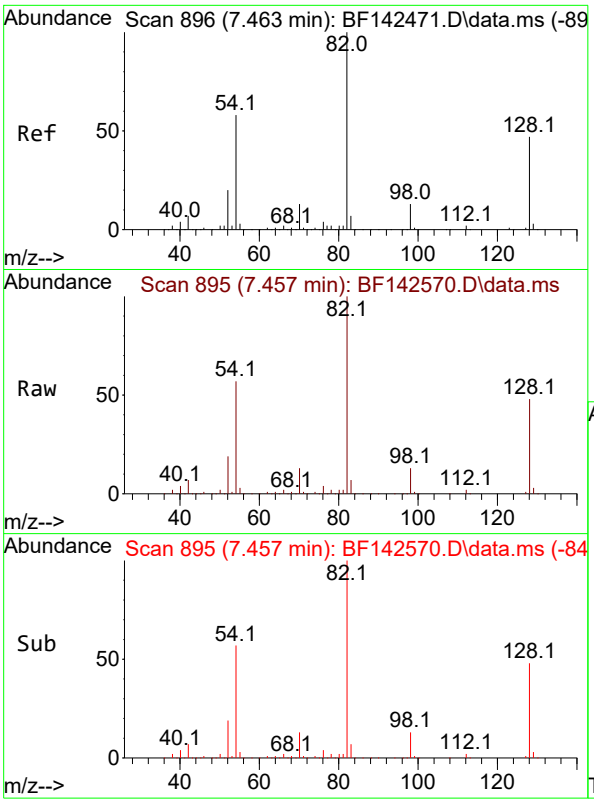


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142570.D
Acq: 30 May 2025 15:21

Tgt Ion:136 Resp: 441924

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.4	6.6	10.0
68	5.5	4.1	6.1



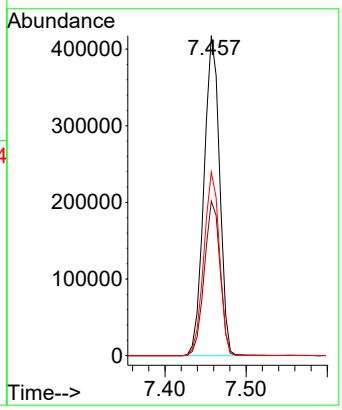


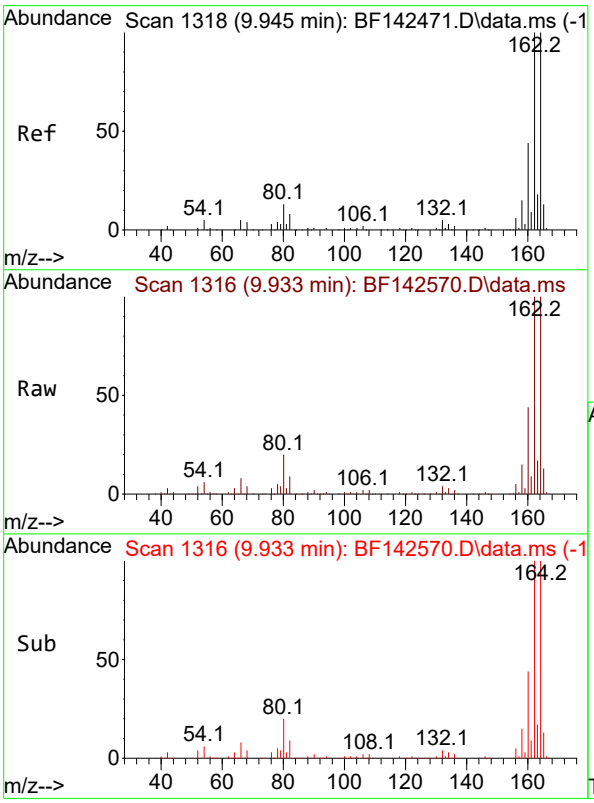
#23
Nitrobenzene-d5
Concen: 68.733 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142570.D
Acq: 30 May 2025 15:21

Instrument :
BNA_F
ClientSampleId :
TP-54

Tgt Ion: 82 Resp: 557041

Ion	Ratio	Lower	Upper
82	100		
128	48.3	37.4	56.2
54	57.4	46.6	70.0

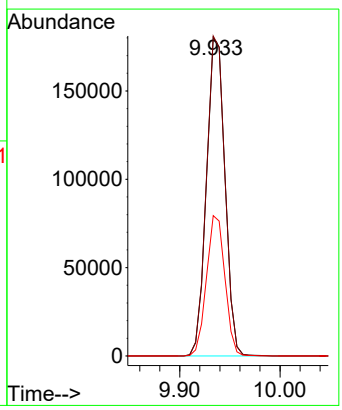




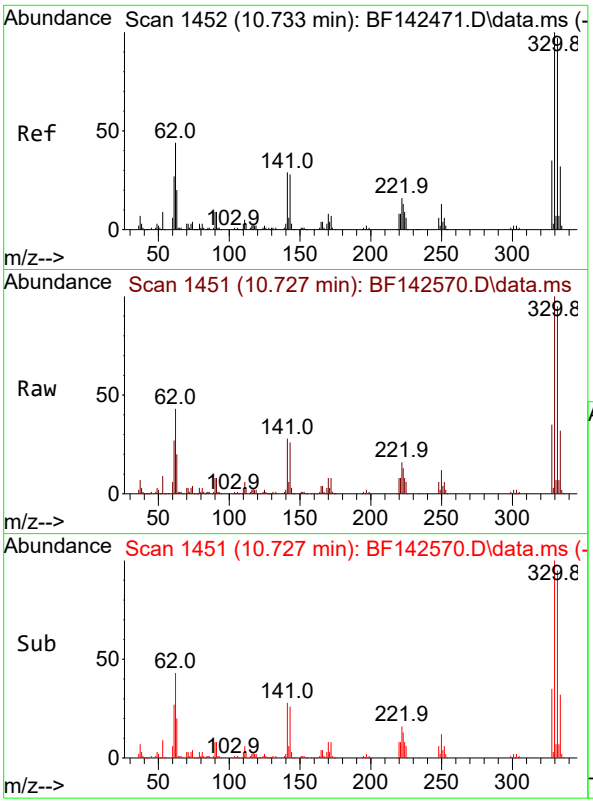
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142570.D
Acq: 30 May 2025 15:21

Tgt Ion:164 Resp: 231484

Ion	Ratio	Lower	Upper
164	100		
162	100.4	80.2	120.4
160	44.1	35.6	53.4



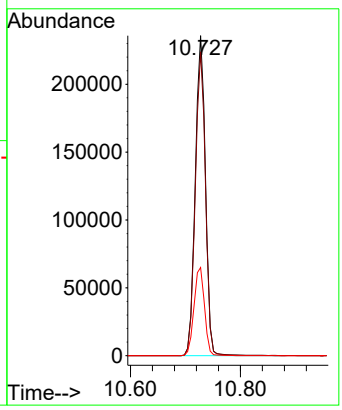
Instrument :
BNA_F
ClientSampleId :
TP-54

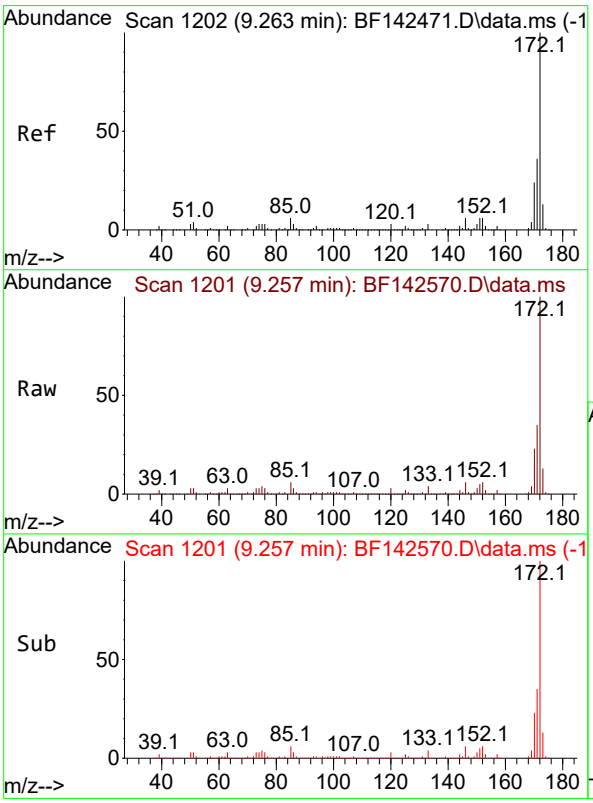


#42
2,4,6-Tribromophenol
Concen: 117.946 ng
RT: 10.727 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142570.D
Acq: 30 May 2025 15:21

Tgt Ion:330 Resp: 303025

Ion	Ratio	Lower	Upper
330	100		
332	94.8	77.6	116.4
141	28.5	24.6	36.8

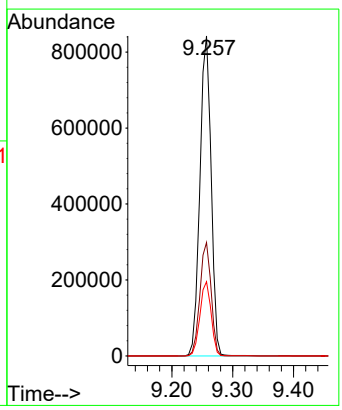


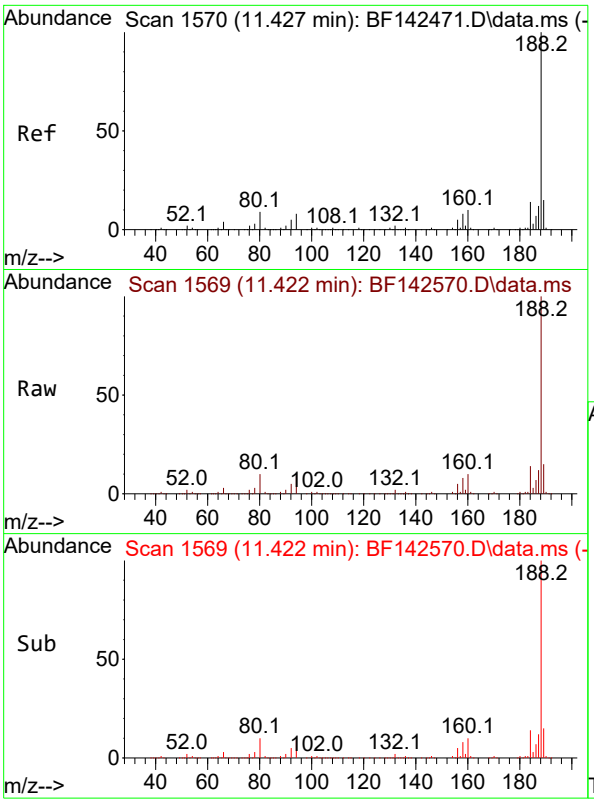


#45
2-Fluorobiphenyl
Concen: 62.665 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142570.D
Acq: 30 May 2025 15:21

Tgt Ion:172 Resp: 1081028

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	42.8
170	23.2	18.9	28.3



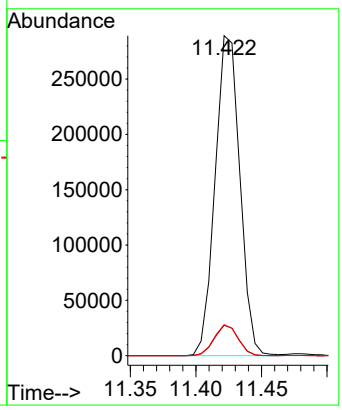


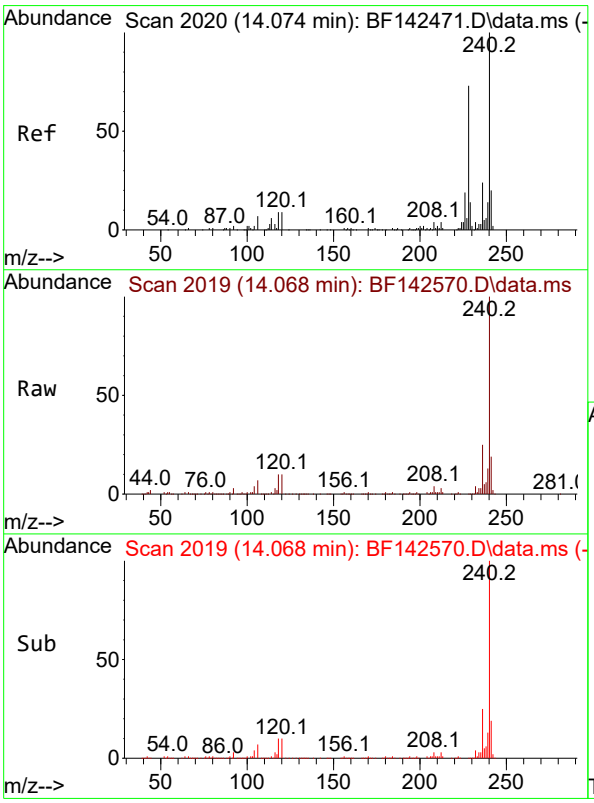
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142570.D
Acq: 30 May 2025 15:21

Instrument :
BNA_F
ClientSampleId :
TP-54

Tgt Ion:188 Resp: 379392

Ion	Ratio	Lower	Upper
188	100		
94	9.5	6.6	10.0
80	9.7	7.4	11.0

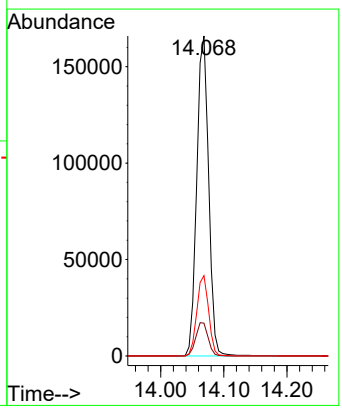


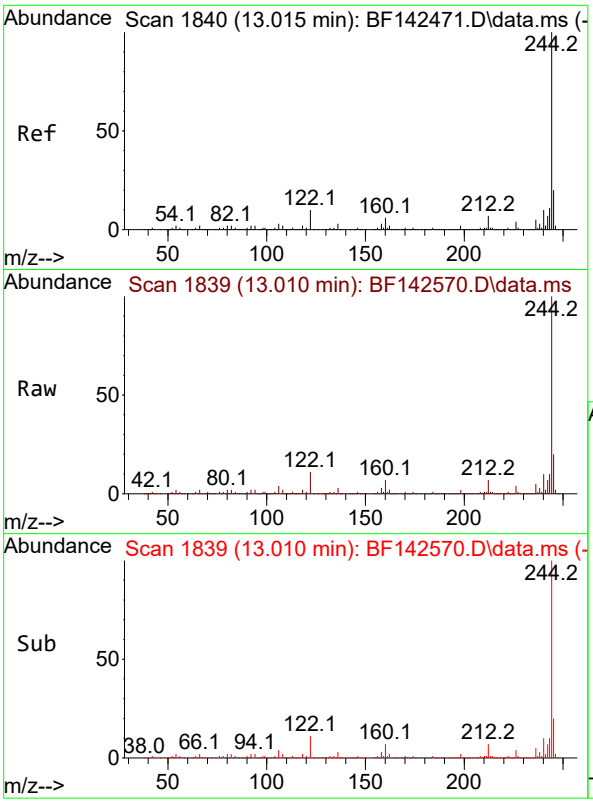


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142570.D
Acq: 30 May 2025 15:21

Tgt Ion:240 Resp: 216438

Ion	Ratio	Lower	Upper
240	100		
120	10.3	7.5	11.3
236	25.1	19.6	29.4



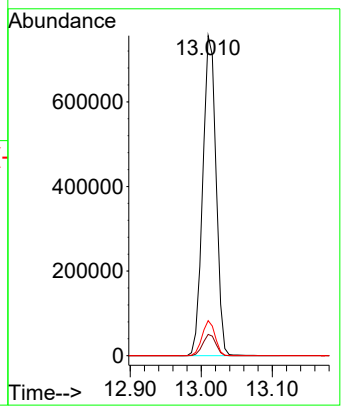


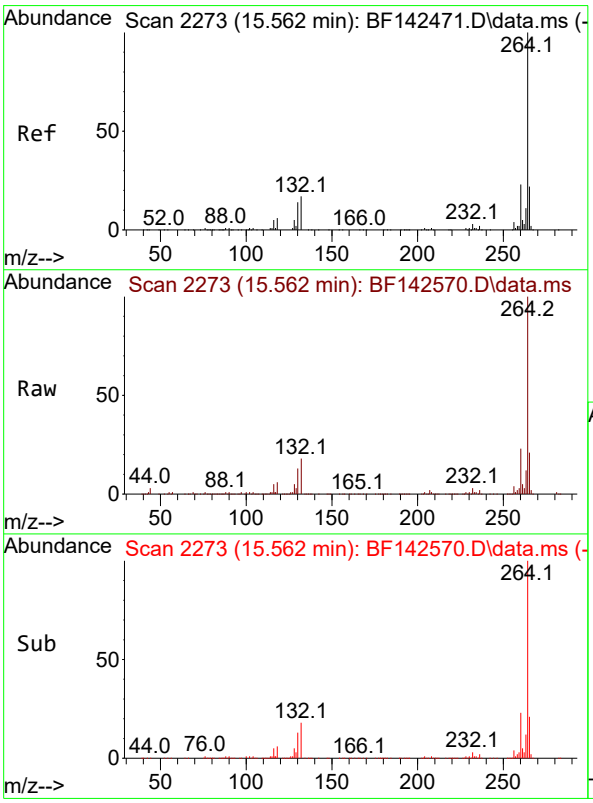
#79
Terphenyl-d14
Concen: 62.254 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142570.D
Acq: 30 May 2025 15:21

Instrument :
BNA_F
ClientSampleId :
TP-54

Tgt Ion:244 Resp: 985998

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.3	7.9
122	11.0	8.2	12.2

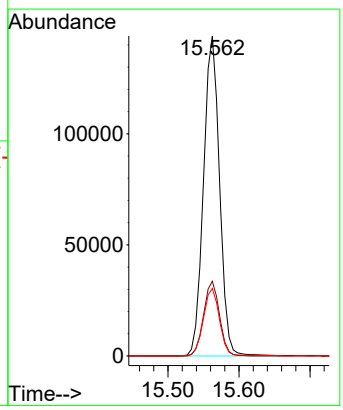




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142570.D
Acq: 30 May 2025 15:21

Tgt Ion:264 Resp: 226398

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.6	28.0
265	21.1	17.7	26.5



Sample Results: **BF142570.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142570.D
Acq On : 30 May 2025 15:21
Operator : RC/JU
Sample : Q2150-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-54

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142570.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.304	13	19	31	rBV2	25126	45043	1.48%	0.212%
2	5.122	489	498	506	rBV	192771	301649	9.94%	1.421%
3	5.516	559	565	570	rBV	1915484	2596113	85.53%	12.233%
4	6.522	729	736	741	rVB	1881074	2685951	88.49%	12.656%
5	6.898	795	800	805	rBV	540480	664947	21.91%	3.133%
6	7.457	889	895	900	rBV	1274566	1700937	56.04%	8.015%
7	7.710	934	938	947	rVB	31521	41540	1.37%	0.196%
8	8.181	1012	1018	1023	rBV	686761	858279	28.28%	4.044%
9	9.257	1195	1201	1206	rBV	2365398	3035149	100.00%	14.301%
10	9.933	1311	1316	1326	rBV	750939	958238	31.57%	4.515%
11	10.651	1433	1438	1445	rBV	246638	303148	9.99%	1.428%
12	10.727	1445	1451	1456	rBV	1630652	2127815	70.11%	10.026%
13	11.422	1564	1569	1575	rBV	693882	905627	29.84%	4.267%
14	11.951	1653	1659	1679	rBV	391813	626761	20.65%	2.953%
15	12.651	1772	1778	1786	rBV6	12813	34081	1.12%	0.161%
16	12.733	1787	1792	1805	rVV	73858	127848	4.21%	0.602%
17	13.010	1834	1839	1844	rBV	2001553	2583432	85.12%	12.173%
18	13.904	1986	1991	2007	rBV	133859	260305	8.58%	1.227%
19	14.068	2011	2019	2028	rVV	434334	580839	19.14%	2.737%
20	14.533	2094	2098	2111	rBV3	20345	48772	1.61%	0.230%
21	14.921	2160	2164	2170	rVB	60418	83775	2.76%	0.395%
22	15.562	2267	2273	2282	rBV	380488	601105	19.80%	2.832%
23	16.098	2359	2364	2372	rBV5	15604	51647	1.70%	0.243%

Sum of corrected areas: 21223001

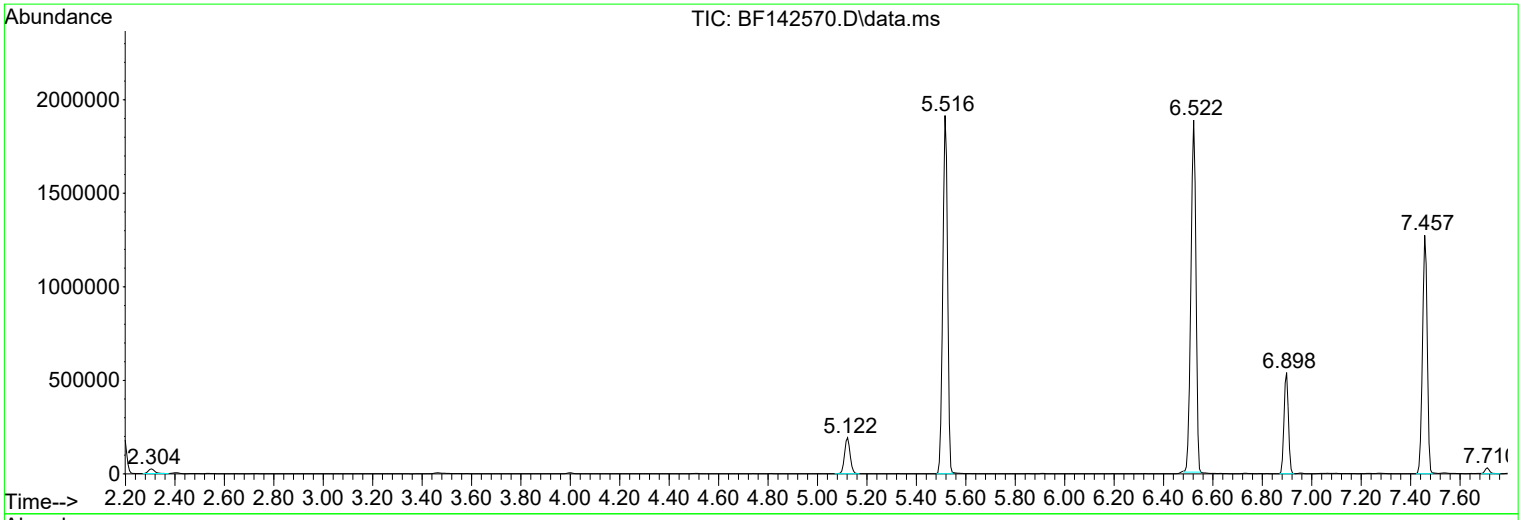
Sample Results: **BF142570.D**

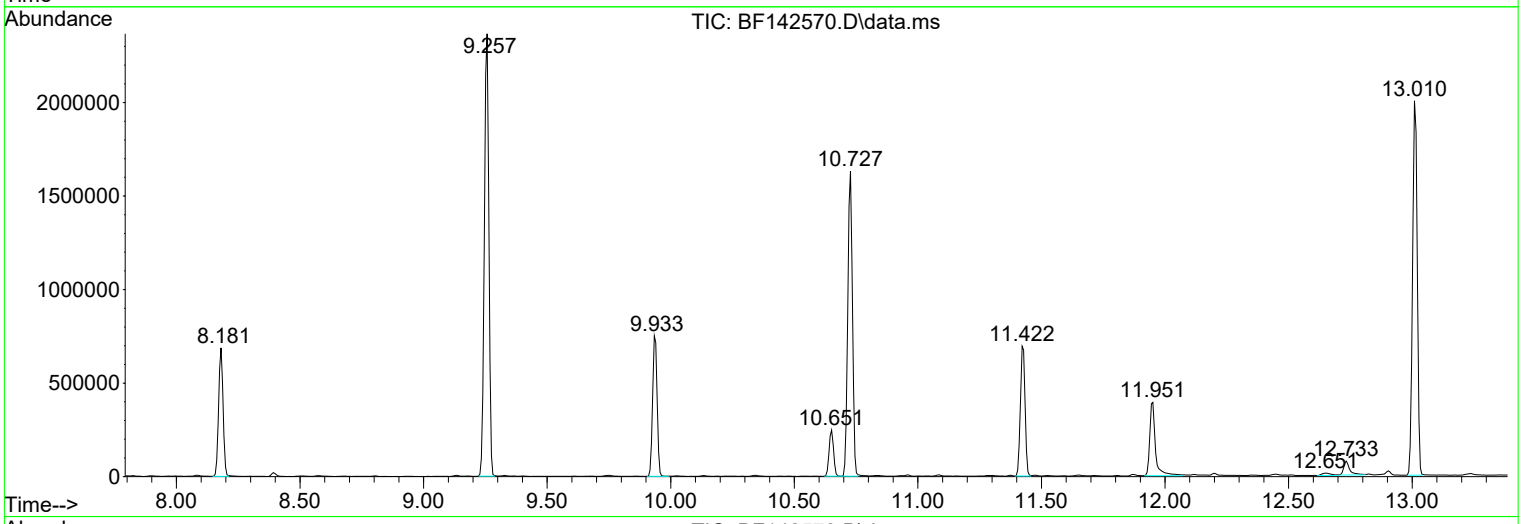
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142570.D
Acq On : 30 May 2025 15:21
Operator : RC/JU
Sample : Q2150-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

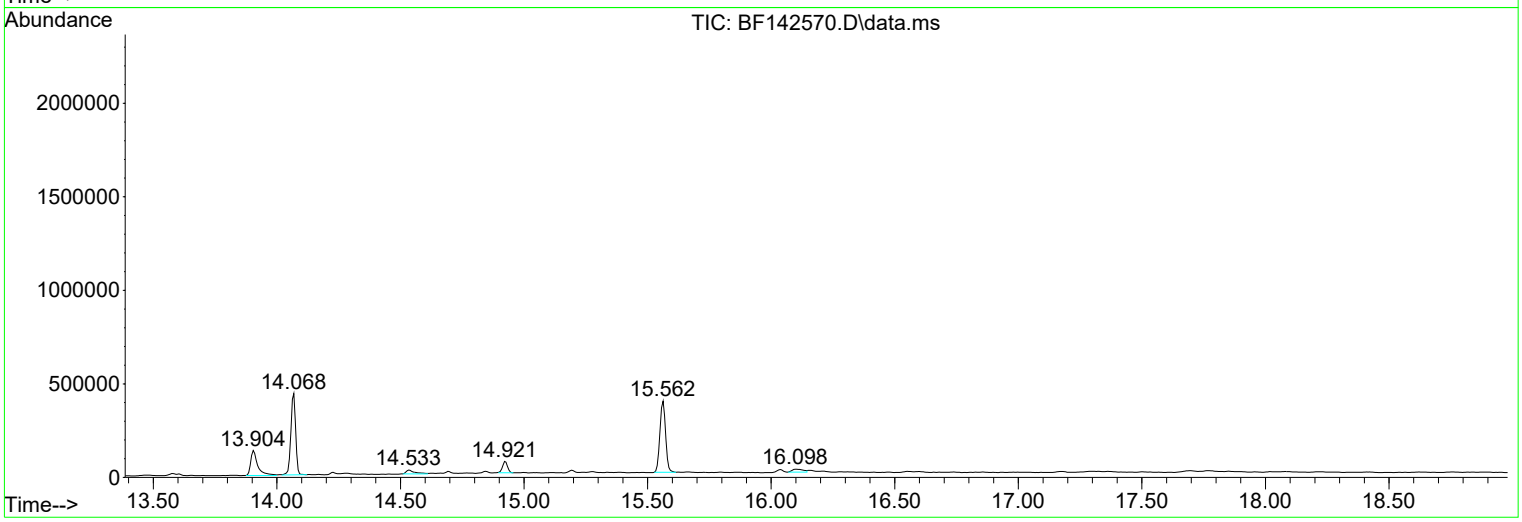
Instrument :
BNA_F
ClientSampleId :
TP-54

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.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\BF053025\
Data File : BF142570.D
Acq On : 30 May 2025 15:21
Operator : RC/JU
Sample : Q2150-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-54

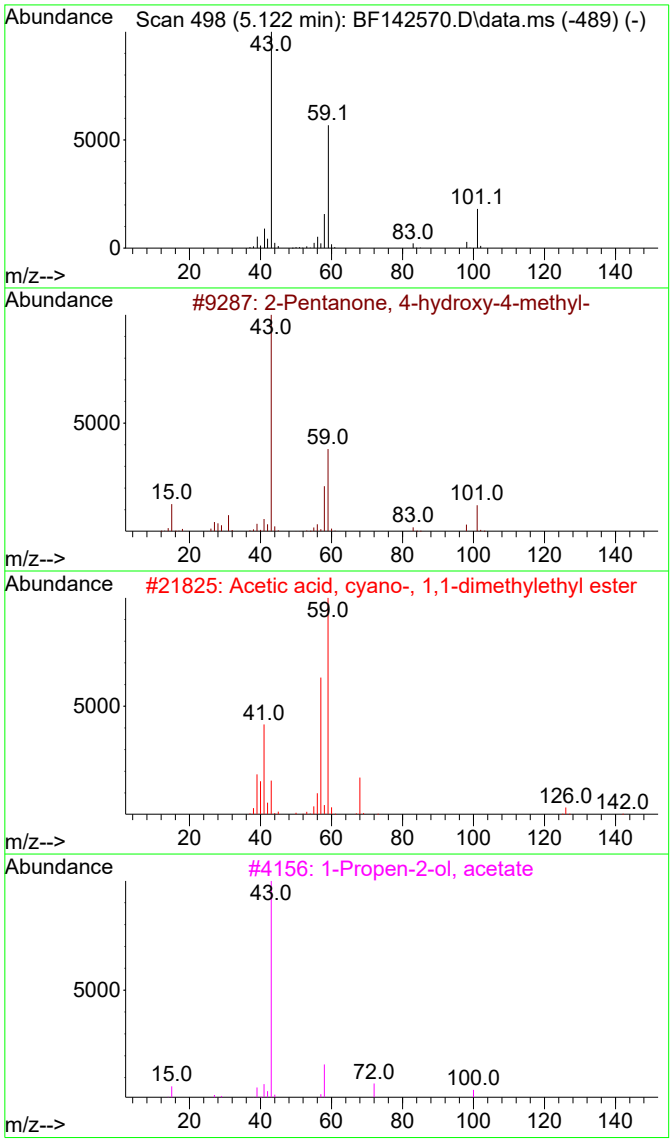
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

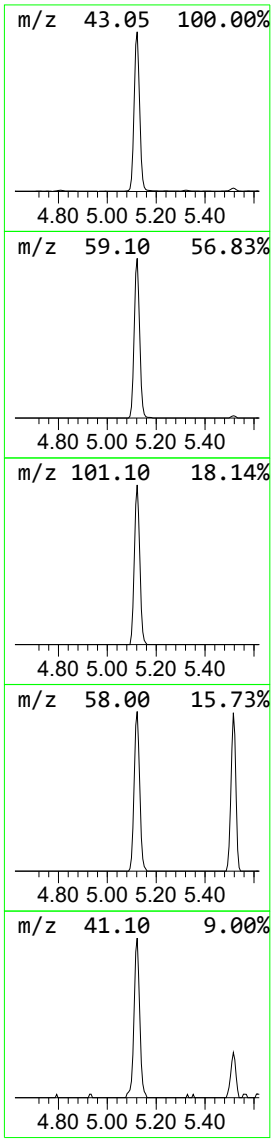
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.122	9.07 ng	301649	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Sample Results: **BF142570.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142570.D
Acq On : 30 May 2025 15:21
Operator : RC/JU
Sample : Q2150-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-54

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

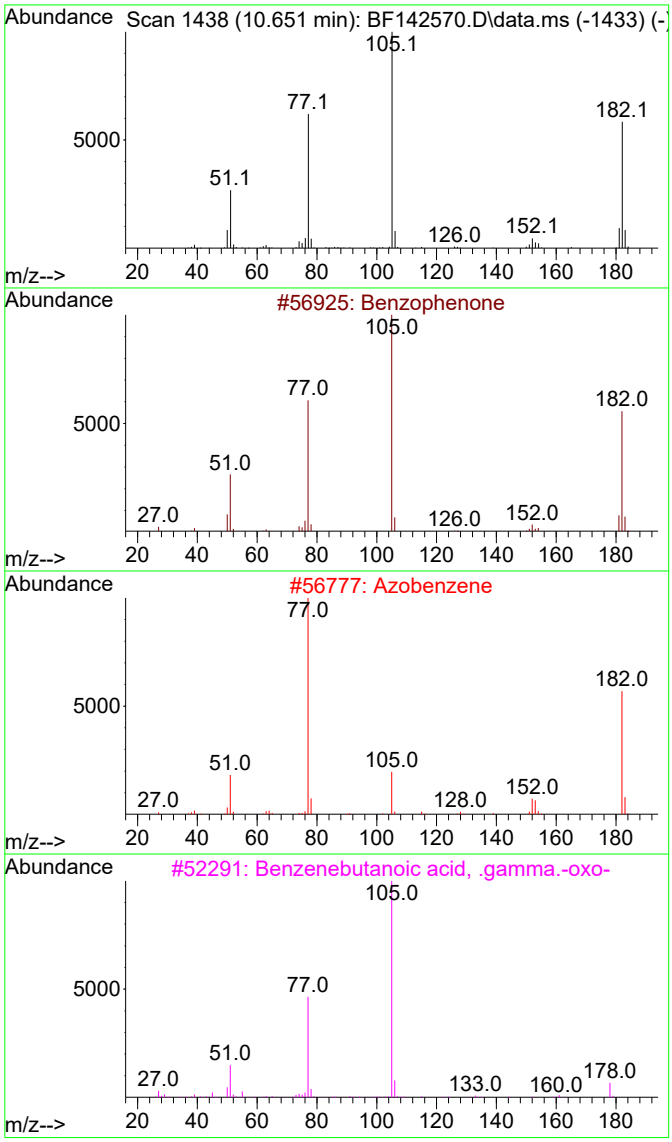
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

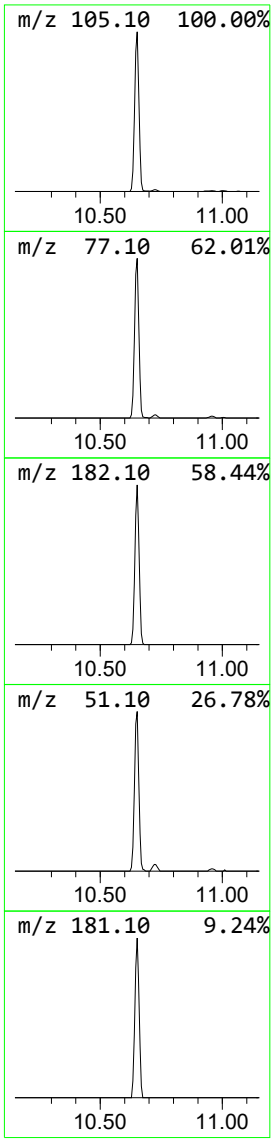
****

Peak Number 2 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	6.33 ng	303148	Acenaphthene-d10	9.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Azobenzene	182	C12H10N2	000103-33-3	64
3	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47
4	Vinyl benzoate	148	C9H8O2	000769-78-8	47
5	1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142570.D
Acq On : 30 May 2025 15:21
Operator : RC/JU
Sample : Q2150-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-54

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

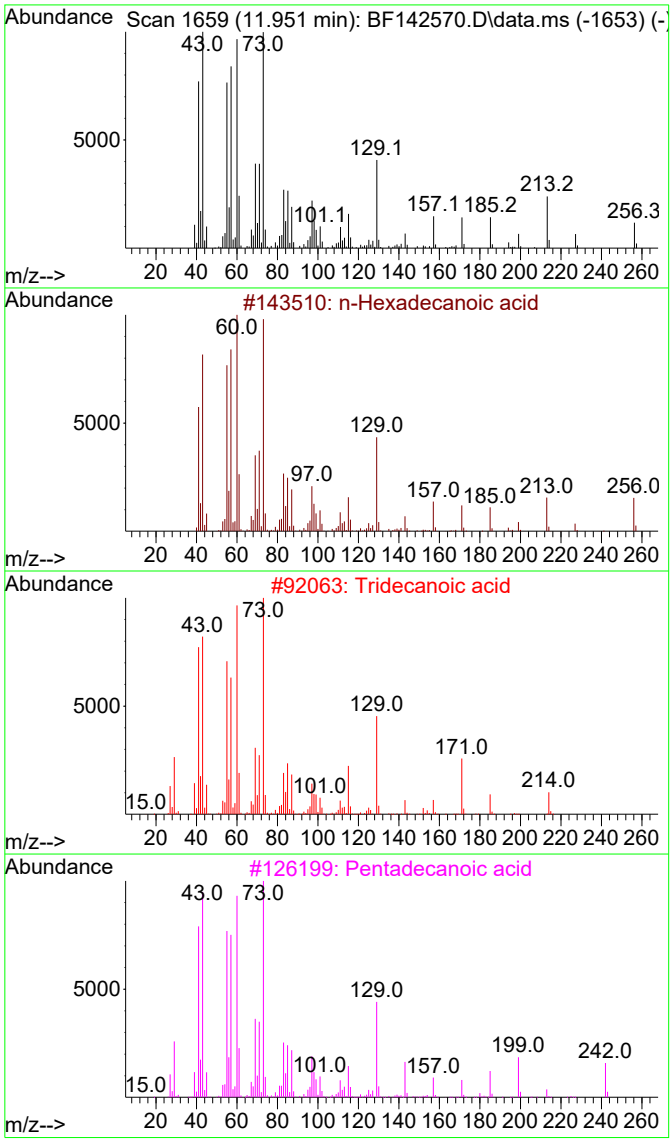
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

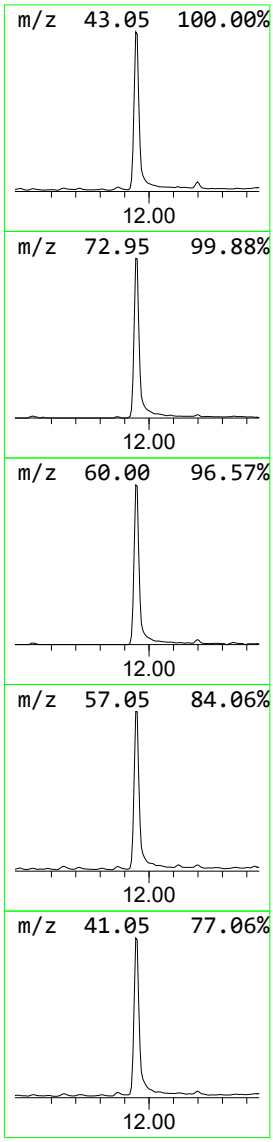
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.951	13.84 ng	626761	Phenanthrene-d10	11.422

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	93
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	87
5	n-Decanoic acid	172	C10H20O2	000334-48-5	76





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142570.D
Acq On : 30 May 2025 15:21
Operator : RC/JU
Sample : Q2150-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-54

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

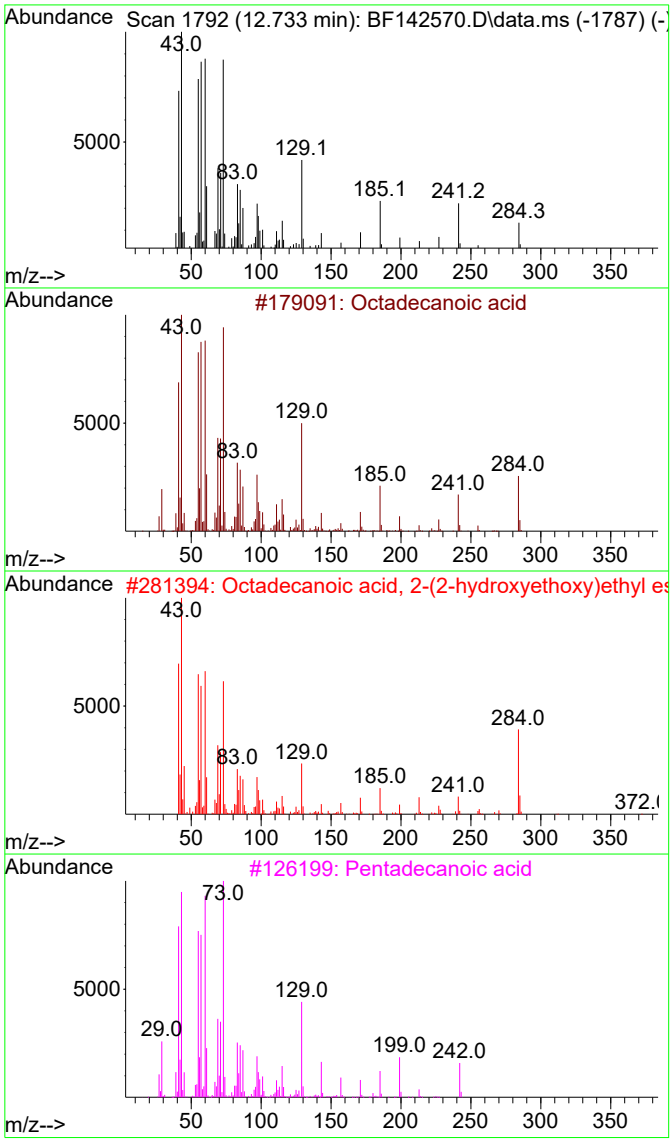
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

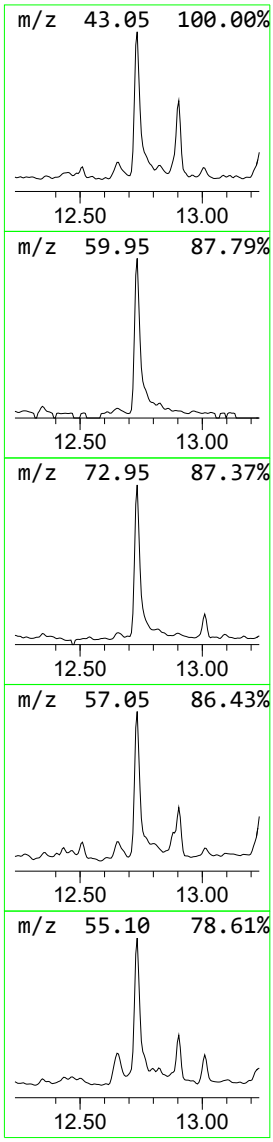
****

Peak Number 4 Octadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.733	2.82 ng	127848	Phenanthrene-d10	11.422

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	87
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	83
4	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	74
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	74





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142570.D
Acq On : 30 May 2025 15:21
Operator : RC/JU
Sample : Q2150-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-54

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

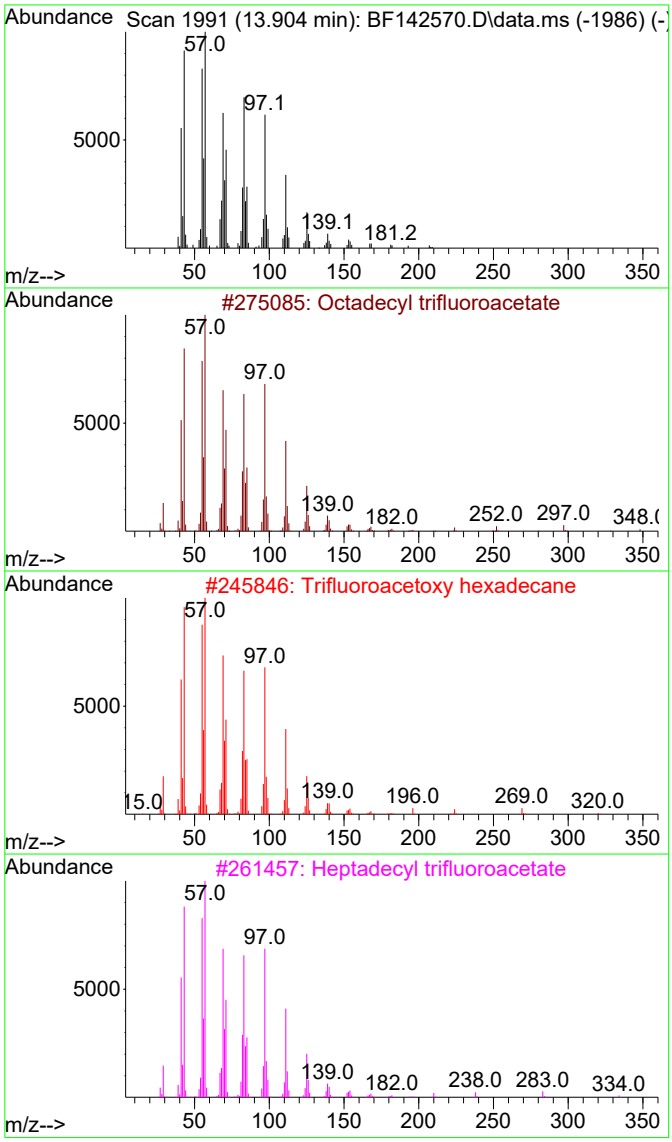
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

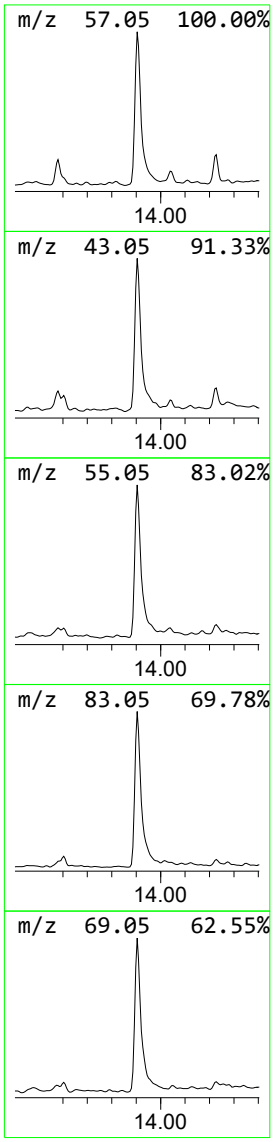
****

Peak Number 5 Octadecyl trifluoroacetate Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	8.96 ng	260305	Chrysene-d12	14.068

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	94
2	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	94
3	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	93
4	1-Heneicosanol	312	C21H44O	015594-90-8	93
5	n-Tetracosanol-1	354	C24H50O	000506-51-4	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142570.D
Acq On : 30 May 2025 15:21
Operator : RC/JU
Sample : Q2150-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-54

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

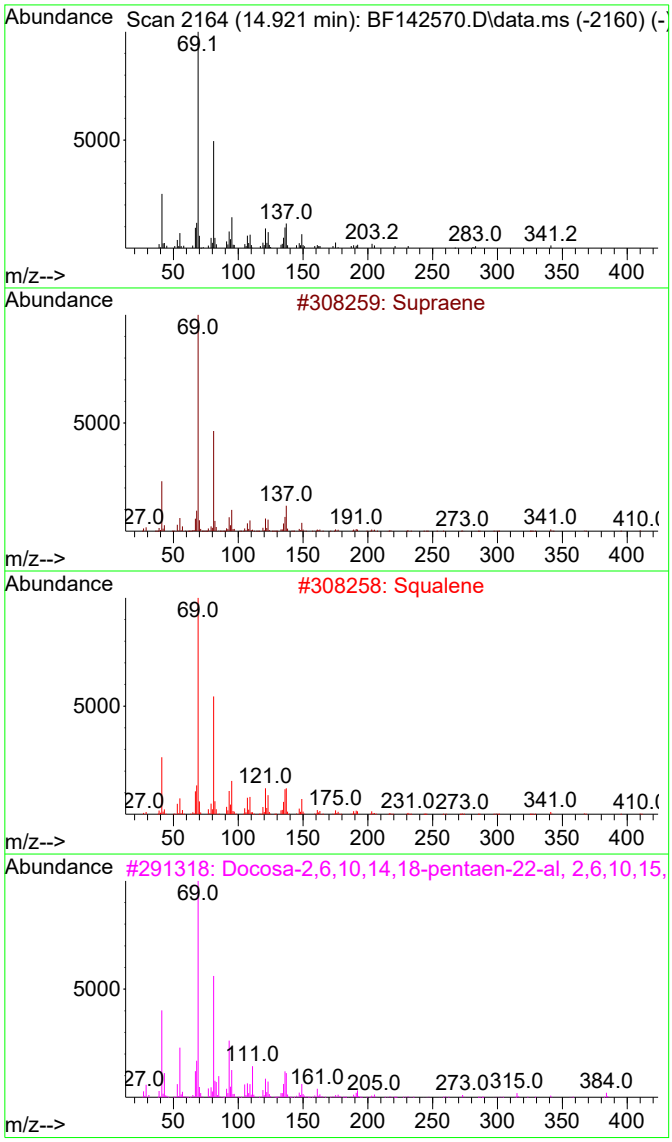
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

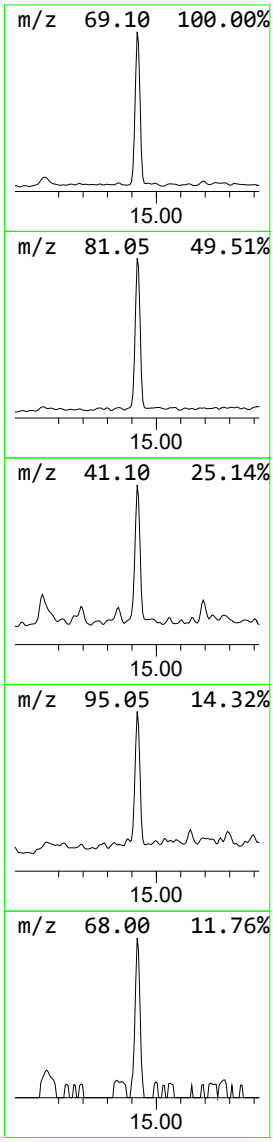
****

Peak Number 6 Supraene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.921	2.79 ng	83775	Perylene-d12	15.563

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	Docosa-2,6,10,14,18-pentaen-22-a...	384	C27H44O	1000163-04-7	90
4	1,5,9-Undecatriene, 2,6,10-trime...	192	C14H24	062951-96-6	87
5	4,9,13,17-Tetramethyl-4,8,12,16-...	316	C22H36O	056882-09-8	83





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142570.D
Acq On : 30 May 2025 15:21
Operator : RC/JU
Sample : Q2150-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-54

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.122	9.1	ng	301649	1	6.898	664947	20.0
Benzophenone	10.651	6.3	ng	303148	3	9.933	958238	20.0
n-Hexadecanoic ...	11.951	13.8	ng	626761	4	11.422	905627	20.0
Octadecanoic acid	12.733	2.8	ng	127848	4	11.422	905627	20.0
Octadecyl trifl...	13.904	9.0	ng	260305	5	14.068	580839	20.0
Supraene	14.921	2.8	ng	83775	6	15.563	601105	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142582.D
Acq On : 30 May 2025 21:13
Operator : RC/JU
Sample : Q2150-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-53

Quant Time: May 30 22:29:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

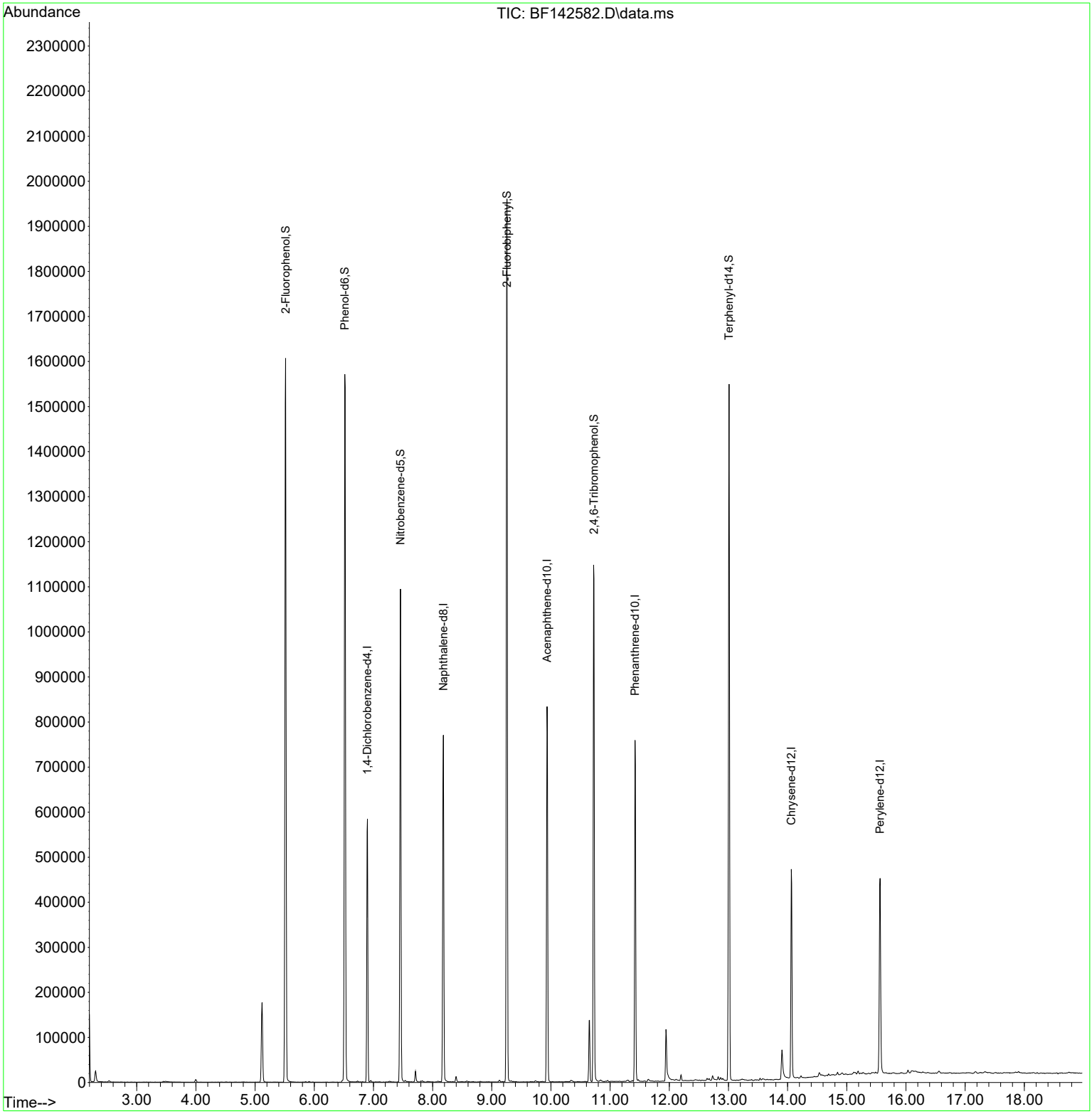
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	130201	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	494621	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	254536	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	398630	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	231944	20.000	ng	#-0.01
86) Perylene-d12	15.562	264	262922	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	638105	82.569	ng	0.00
7) Phenol-d6	6.516	99	781521	84.008	ng	-0.02
23) Nitrobenzene-d5	7.457	82	467367	51.524	ng	-0.02
42) 2,4,6-Tribromophenol	10.727	330	206735	73.180	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	902888	47.598	ng	-0.01
79) Terphenyl-d14	13.010	244	744692	43.875	ng	0.00
Target Compounds						Qvalue

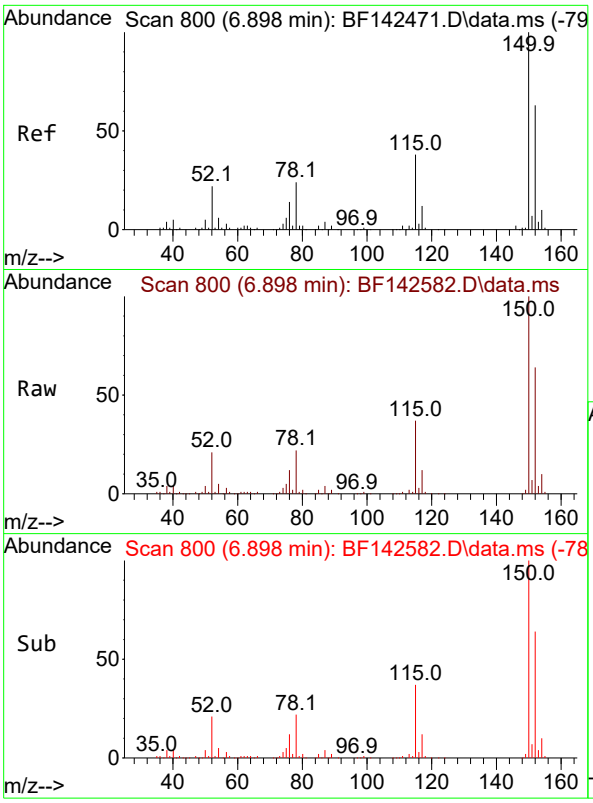
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142582.D
Acq On : 30 May 2025 21:13
Operator : RC/JU
Sample : Q2150-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-53

Quant Time: May 30 22:29:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



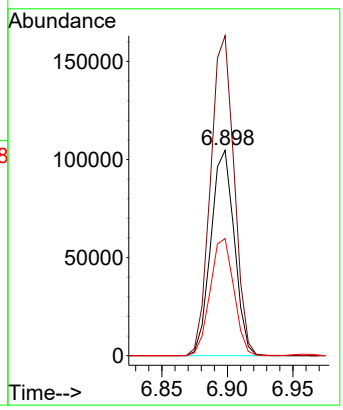


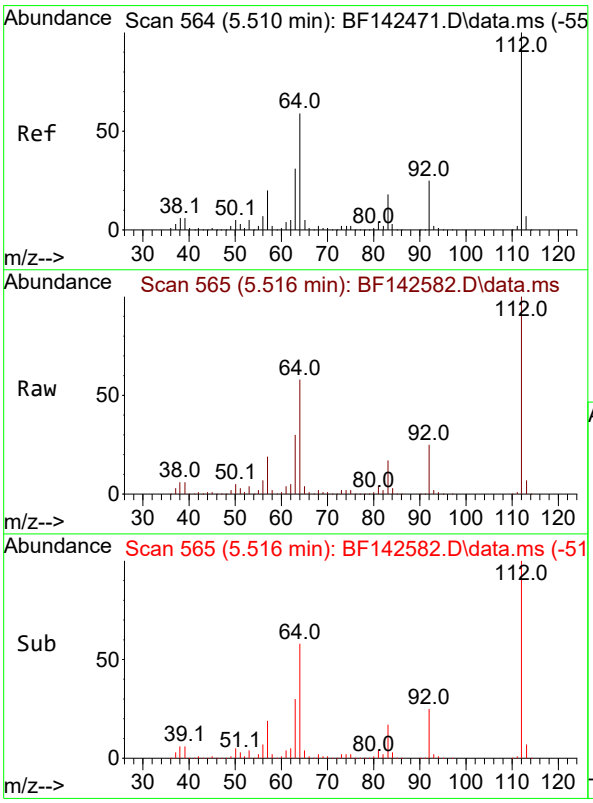
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142582.D
Acq: 30 May 2025 21:13

Instrument :
BNA_F
ClientSampleId :
TP-53

Tgt Ion:152 Resp: 130201

Ion	Ratio	Lower	Upper
152	100		
150	155.7	128.2	192.4
115	57.0	48.3	72.5

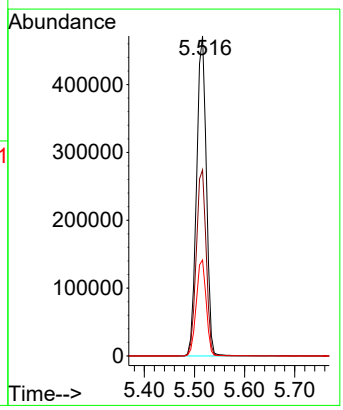


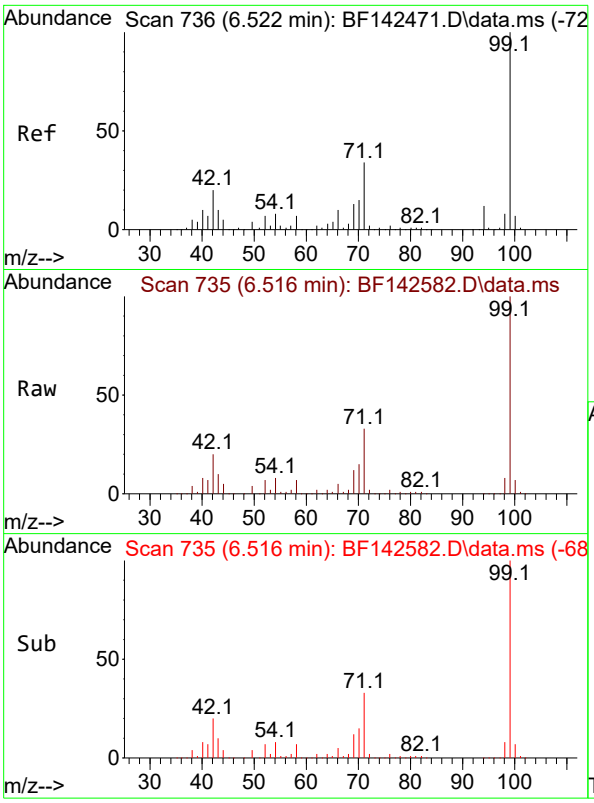


#5
2-Fluorophenol
Concen: 82.569 ng
RT: 5.516 min Scan# 565
Delta R.T. 0.000 min
Lab File: BF142582.D
Acq: 30 May 2025 21:13

Tgt Ion:112 Resp: 638105

Ion	Ratio	Lower	Upper
112	100		
64	58.1	47.5	71.3
63	30.0	24.9	37.3



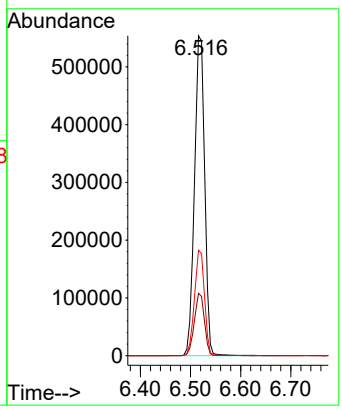


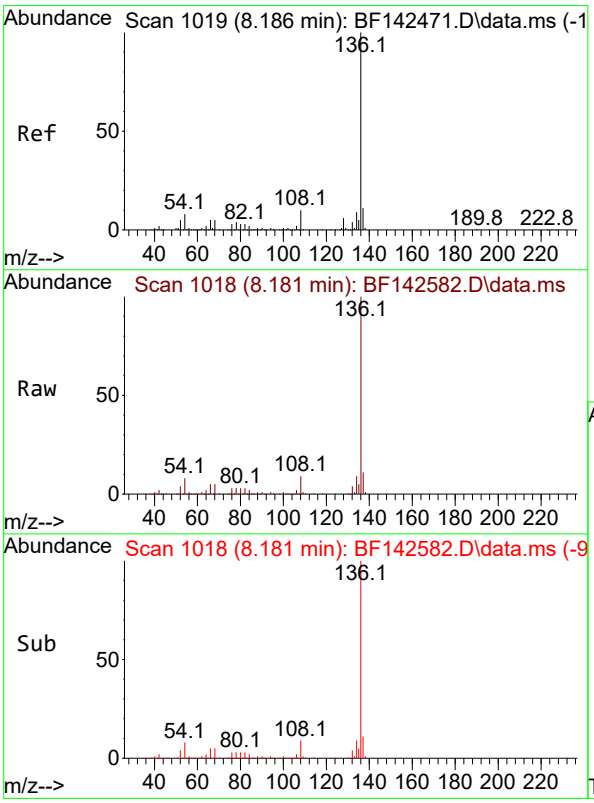
#7
Phenol-d6
Concen: 84.008 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF142582.D
Acq: 30 May 2025 21:13

Instrument :
BNA_F
ClientSampleId :
TP-53

Tgt Ion: 99 Resp: 781521

Ion	Ratio	Lower	Upper
99	100		
42	19.5	16.2	24.2
71	33.0	27.3	40.9

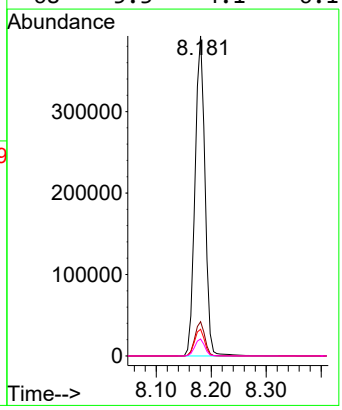


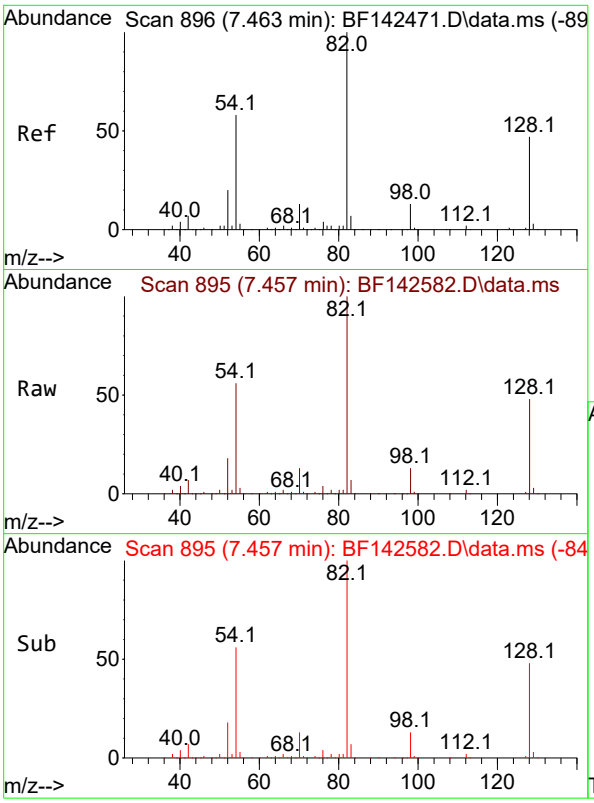


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142582.D
Acq: 30 May 2025 21:13

Tgt Ion:136 Resp: 494621

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	8.4	6.6	10.0
68	5.3	4.1	6.1



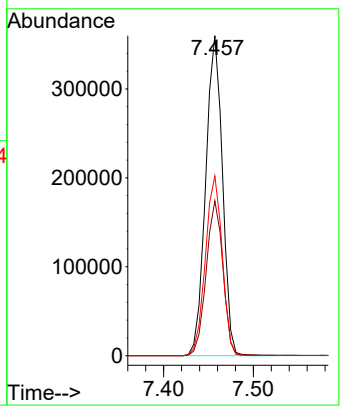


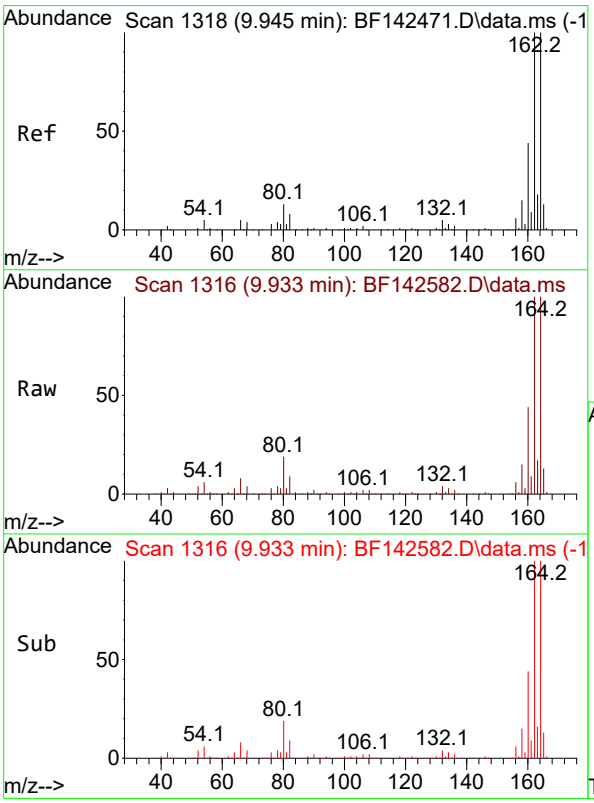
#23
Nitrobenzene-d5
Concen: 51.524 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF142582.D
Acq: 30 May 2025 21:13

Instrument :
BNA_F
ClientSampleId :
TP-53

Tgt Ion: 82 Resp: 467367

Ion	Ratio	Lower	Upper
82	100		
128	48.4	37.4	56.2
54	56.2	46.6	70.0

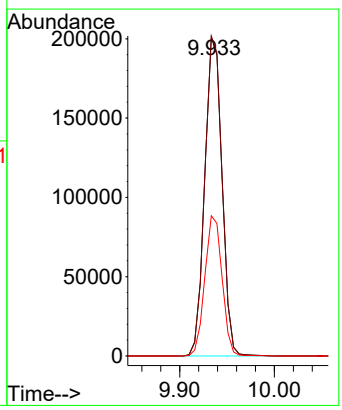


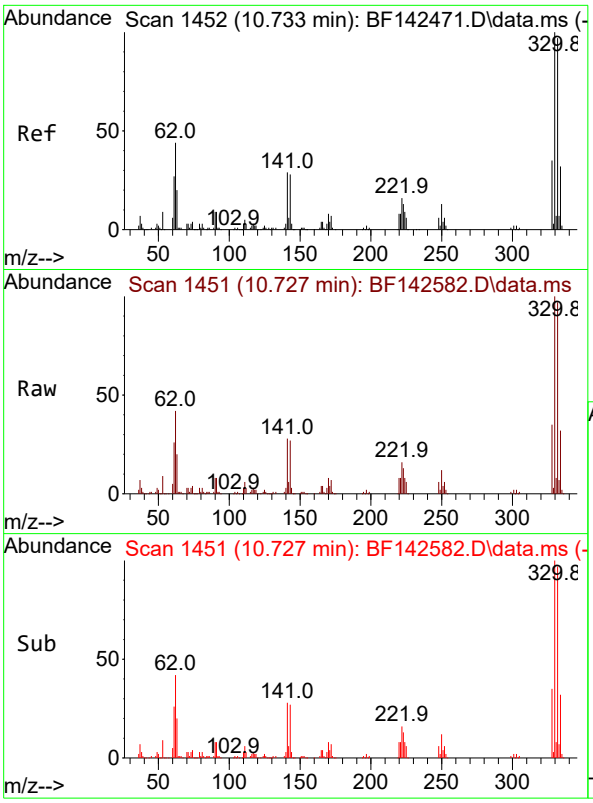


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142582.D
Acq: 30 May 2025 21:13

Tgt Ion:164 Resp: 254536

Ion	Ratio	Lower	Upper
164	100		
162	100.4	80.2	120.4
160	44.0	35.6	53.4



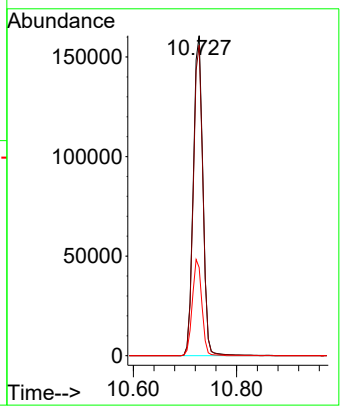


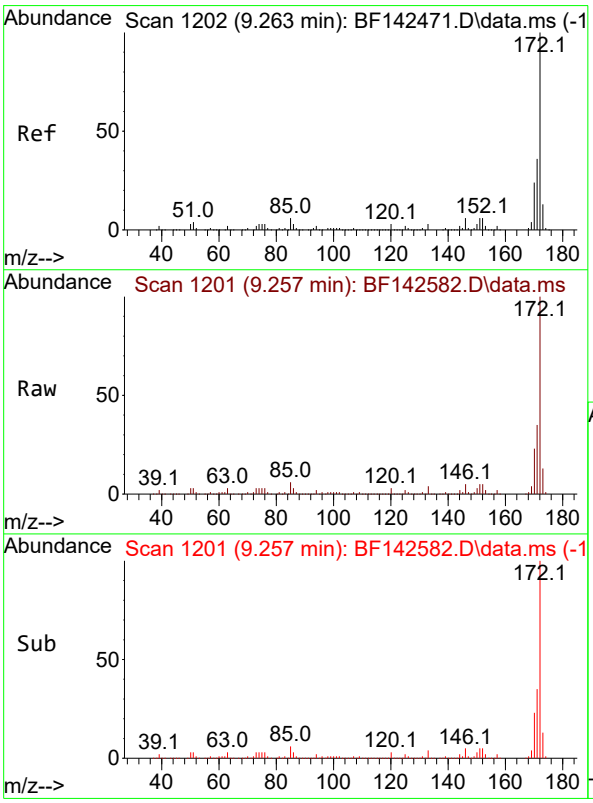
#42
2,4,6-Tribromophenol
Concen: 73.180 ng
RT: 10.727 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF142582.D
Acq: 30 May 2025 21:13

Instrument :
BNA_F
ClientSampleId :
TP-53

Tgt Ion:330 Resp: 206735

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.6	116.4
141	29.9	24.6	36.8

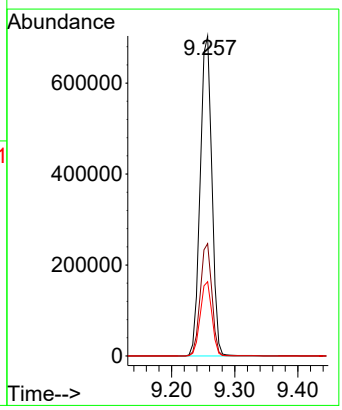


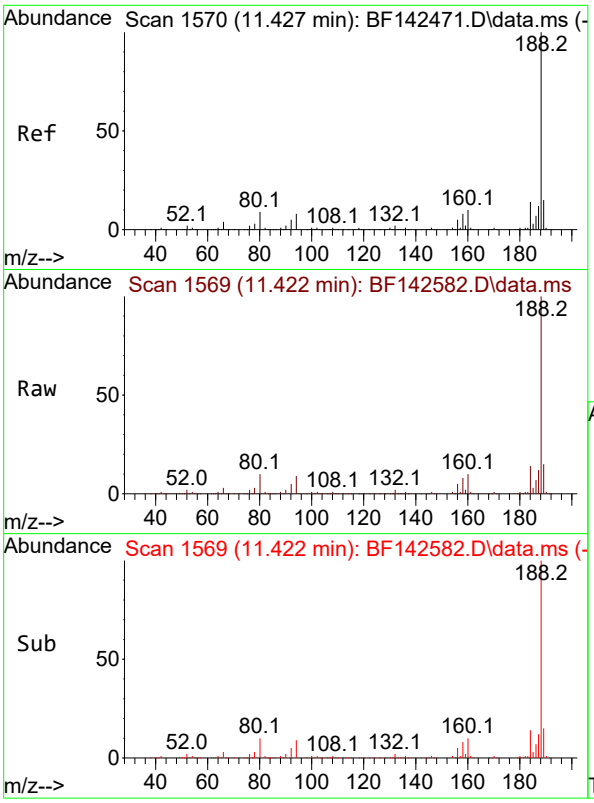


#45
2-Fluorobiphenyl
Concen: 47.598 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142582.D
Acq: 30 May 2025 21:13

Tgt Ion:172 Resp: 902888

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.6	42.8
170	23.2	18.9	28.3



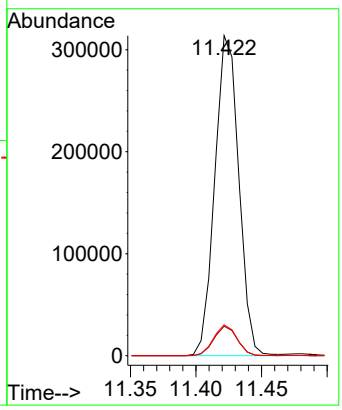


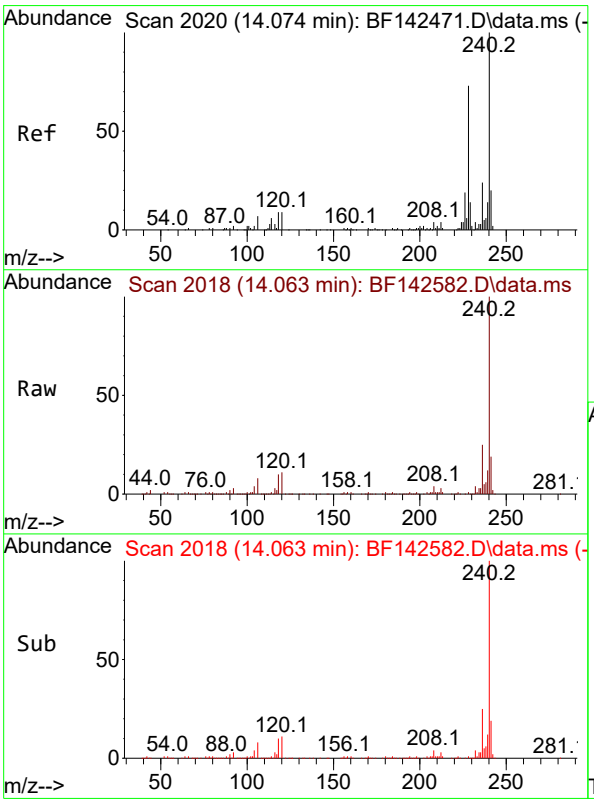
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF142582.D
Acq: 30 May 2025 21:13

Instrument :
BNA_F
ClientSampleId :
TP-53

Tgt Ion:188 Resp: 398630

Ion	Ratio	Lower	Upper
188	100		
94	9.2	6.6	10.0
80	9.6	7.4	11.0

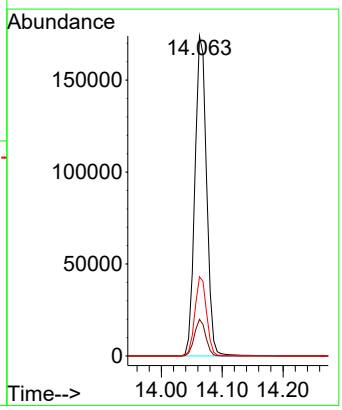


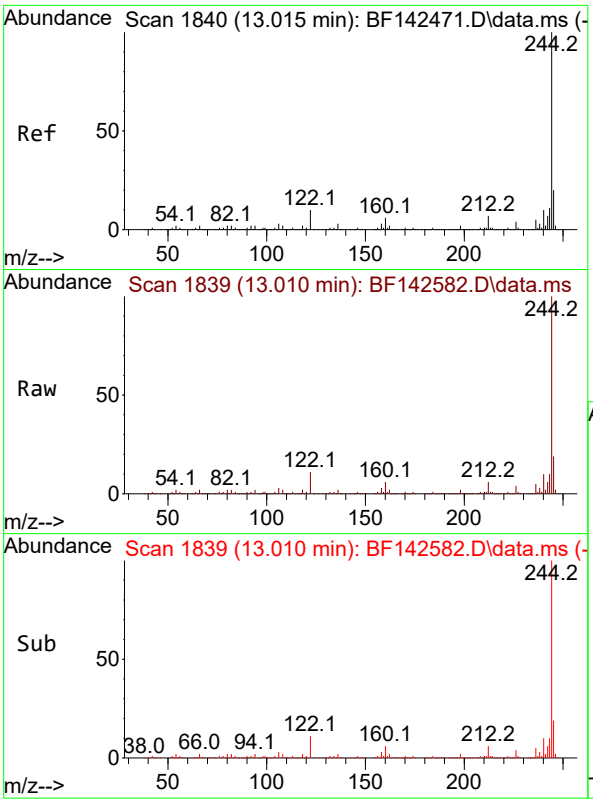


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142582.D
Acq: 30 May 2025 21:13

Tgt Ion:240 Resp: 231944

Ion	Ratio	Lower	Upper
240	100		
120	11.4	7.5	11.3#
236	24.8	19.6	29.4



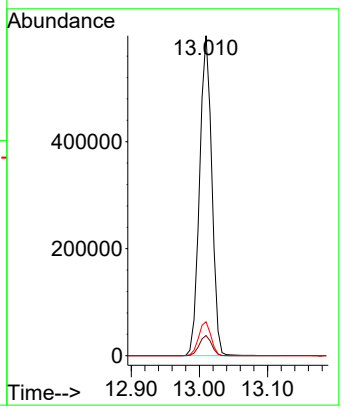


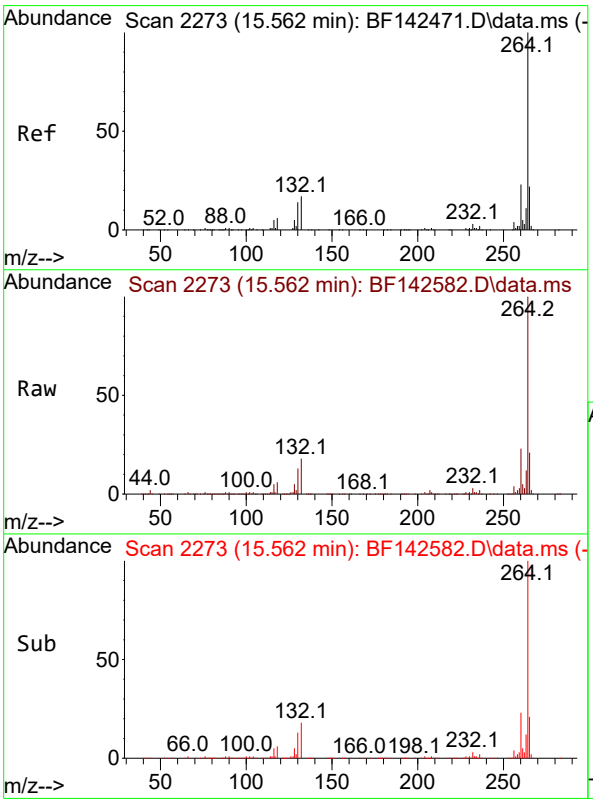
#79
Terphenyl-d14
Concen: 43.875 ng
RT: 13.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142582.D
Acq: 30 May 2025 21:13

Instrument :
BNA_F
ClientSampleId :
TP-53

Tgt Ion:244 Resp: 744692

Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.3	7.9
122	10.6	8.2	12.2

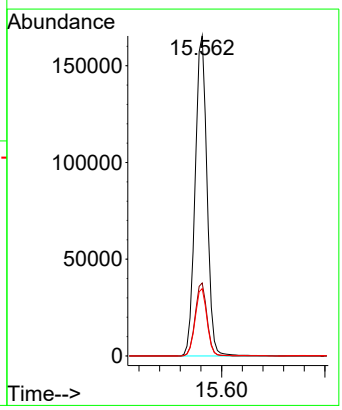




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2273
Delta R.T. -0.006 min
Lab File: BF142582.D
Acq: 30 May 2025 21:13

Tgt Ion:264 Resp: 262922

Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.6	28.0
265	21.1	17.7	26.5



Sample Results: **BF142582.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142582.D
Acq On : 30 May 2025 21:13
Operator : RC/JU
Sample : Q2150-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-53

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142582.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.304	13	19	32	rVB2	23795	41387	1.64%	0.235%
2	5.116	490	497	509	rBV	176576	256339	10.17%	1.454%
3	5.516	558	565	570	rBV	1606462	2180198	86.47%	12.369%
4	6.516	729	735	754	rVB	1570508	2226301	88.30%	12.631%
5	6.898	794	800	805	rBV	583375	734666	29.14%	4.168%
6	7.457	889	895	900	rBV	1094436	1417903	56.24%	8.044%
7	7.710	930	938	950	rBV	23993	34102	1.35%	0.193%
8	8.181	1012	1018	1031	rBV	769427	965546	38.30%	5.478%
9	9.257	1195	1201	1206	rBV	1959377	2521311	100.00%	14.304%
10	9.933	1311	1316	1327	rVB	833050	1051238	41.69%	5.964%
11	10.651	1432	1438	1445	rBV	136361	179070	7.10%	1.016%
12	10.722	1445	1450	1464	rBV	1146853	1509951	59.89%	8.566%
13	11.422	1564	1569	1576	rBV	757058	959464	38.05%	5.443%
14	11.945	1653	1658	1674	rBV2	114711	187369	7.43%	1.063%
15	13.010	1833	1839	1844	rBV	1545181	1926148	76.39%	10.928%
16	13.904	1986	1991	2004	rBV	65597	128012	5.08%	0.726%
17	14.063	2013	2018	2027	rVB	462499	613506	24.33%	3.481%
18	15.562	2266	2273	2284	rBV	432508	693756	27.52%	3.936%

Sum of corrected areas: 17626267

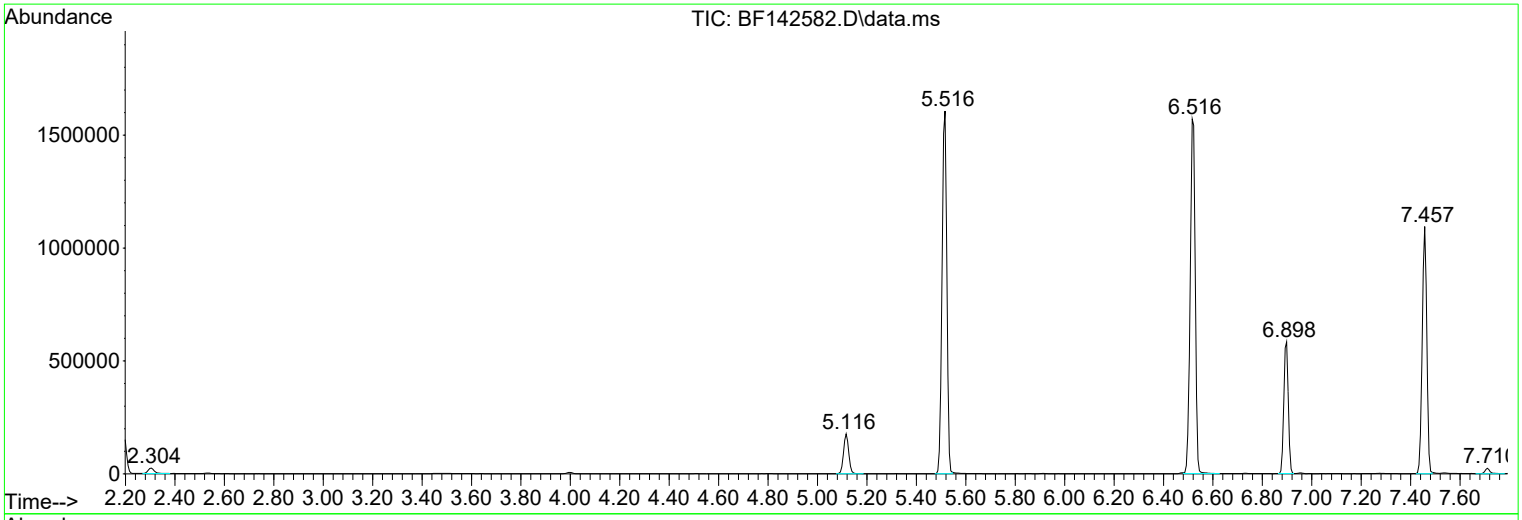
Sample Results: **BF142582.D**

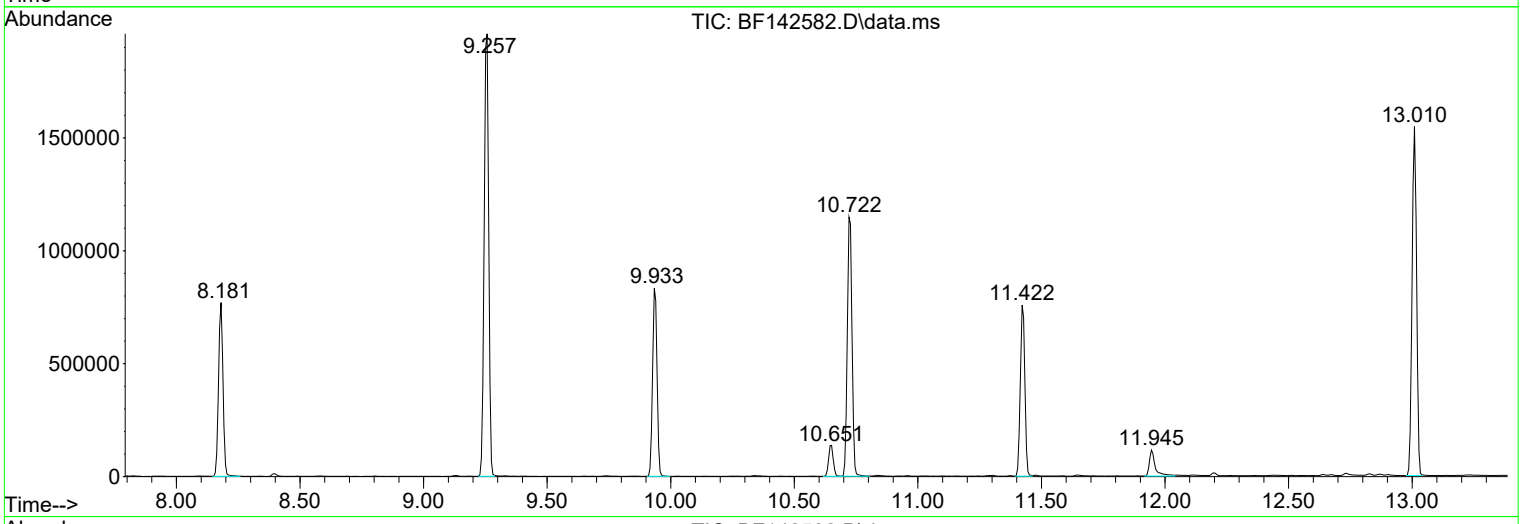
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142582.D
Acq On : 30 May 2025 21:13
Operator : RC/JU
Sample : Q2150-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

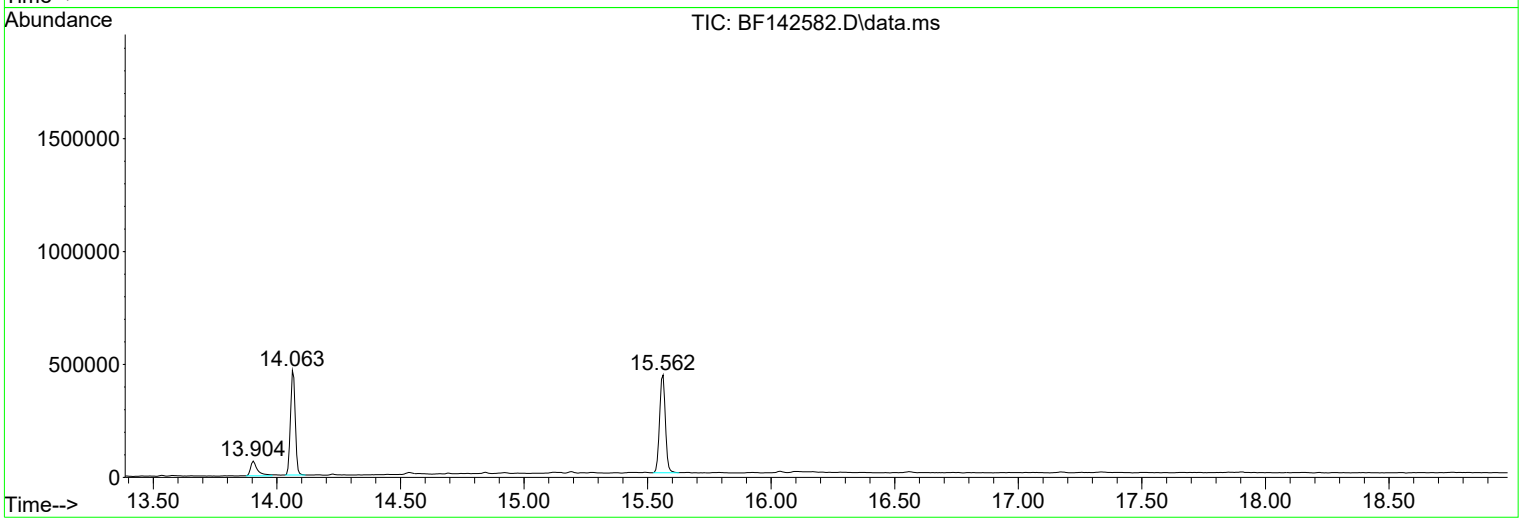
Instrument :
BNA_F
ClientSampleId :
TP-53

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.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\BF053025\
Data File : BF142582.D
Acq On : 30 May 2025 21:13
Operator : RC/JU
Sample : Q2150-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-53

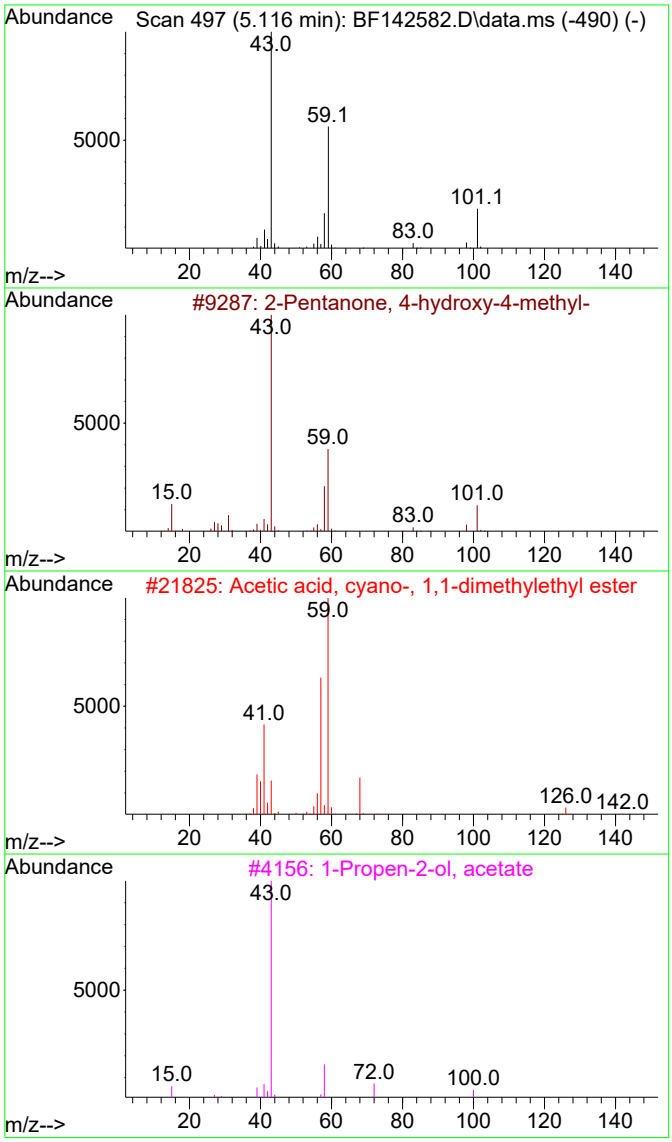
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

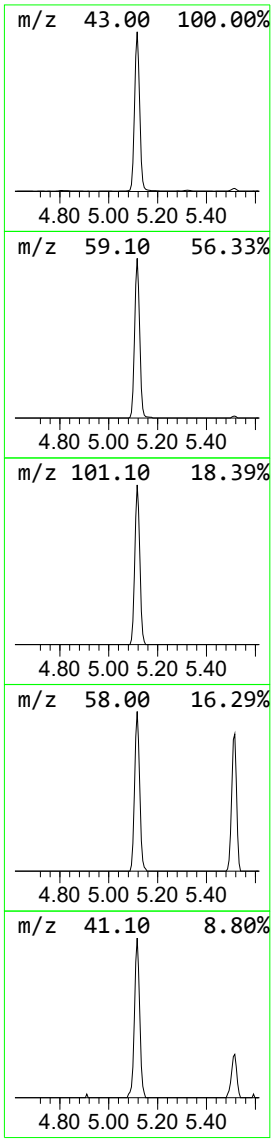
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	6.98 ng	256339	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142582.D
Acq On : 30 May 2025 21:13
Operator : RC/JU
Sample : Q2150-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-53

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

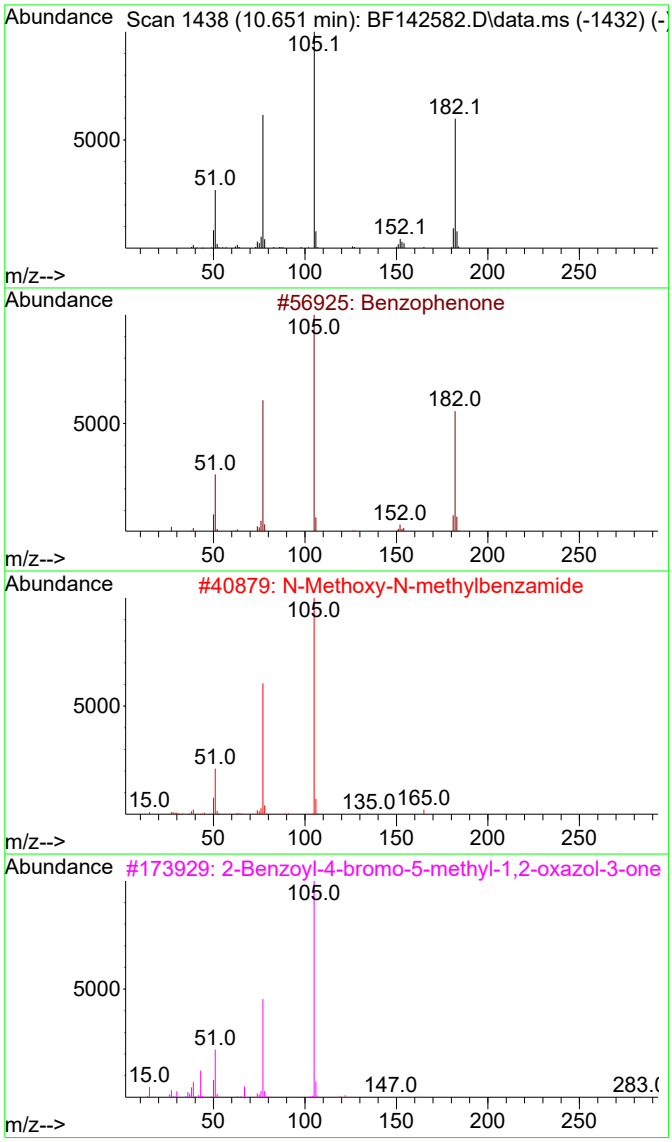
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

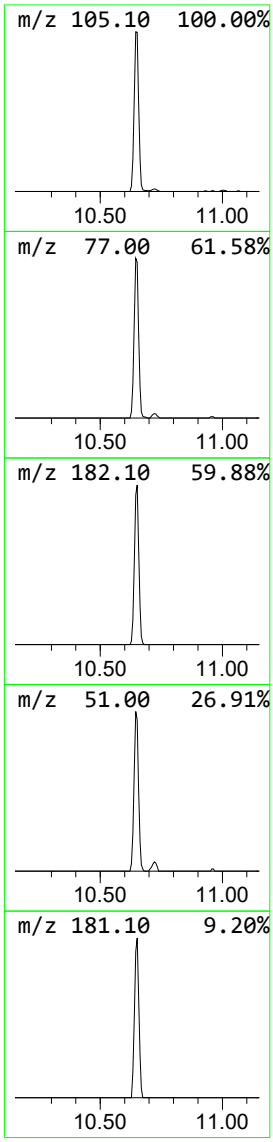
****

Peak Number 2 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	3.41 ng	179070	Acenaphthene-d10	9.933

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47
3	2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	47
4	Benzoyl bromide	184	C7H5BrO	000618-32-6	47
5	1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142582.D
Acq On : 30 May 2025 21:13
Operator : RC/JU
Sample : Q2150-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-53

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

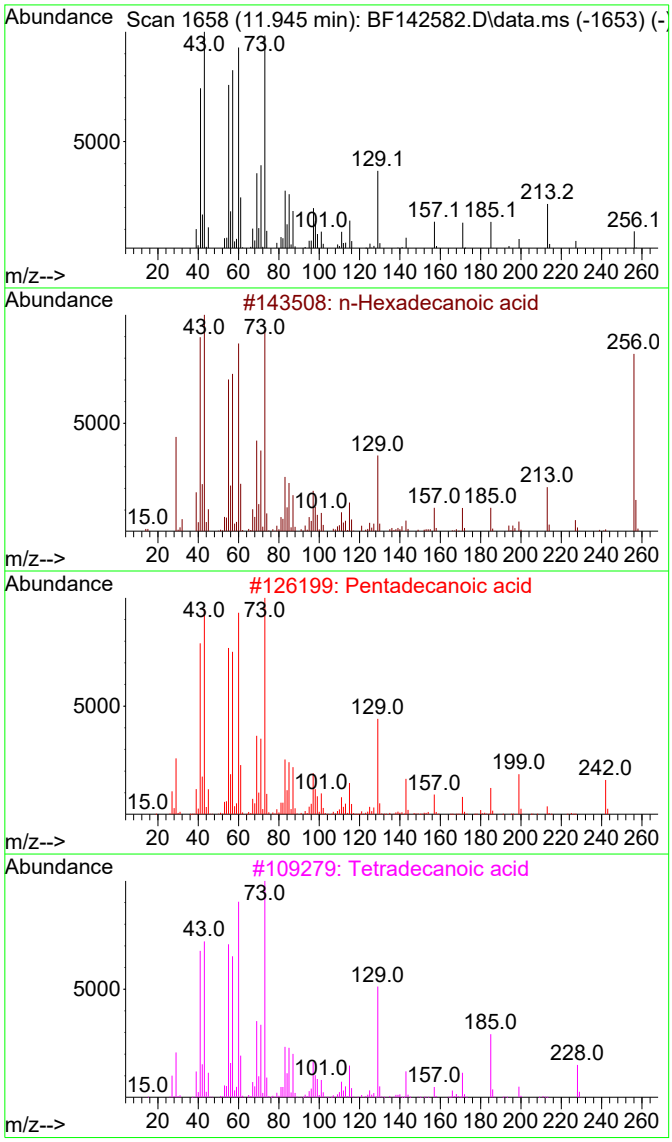
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

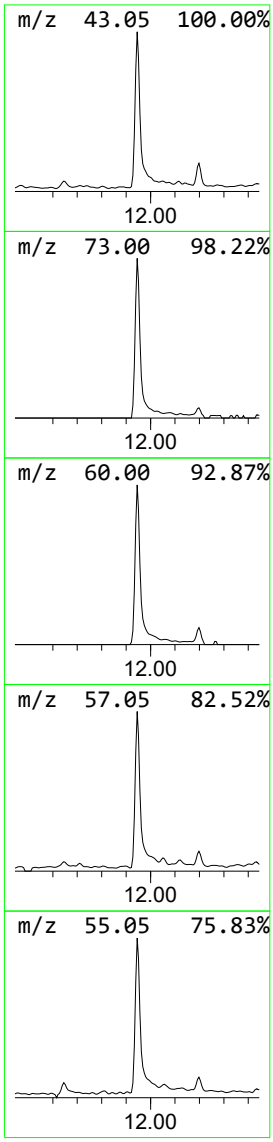
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	3.91 ng	187369	Phenanthrene-d10	11.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
4	8-Methylnonanoic acid	172	C10H20O2	005963-14-4	78
5	Tridecanoic acid	214	C13H26O2	000638-53-9	76





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142582.D
Acq On : 30 May 2025 21:13
Operator : RC/JU
Sample : Q2150-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-53

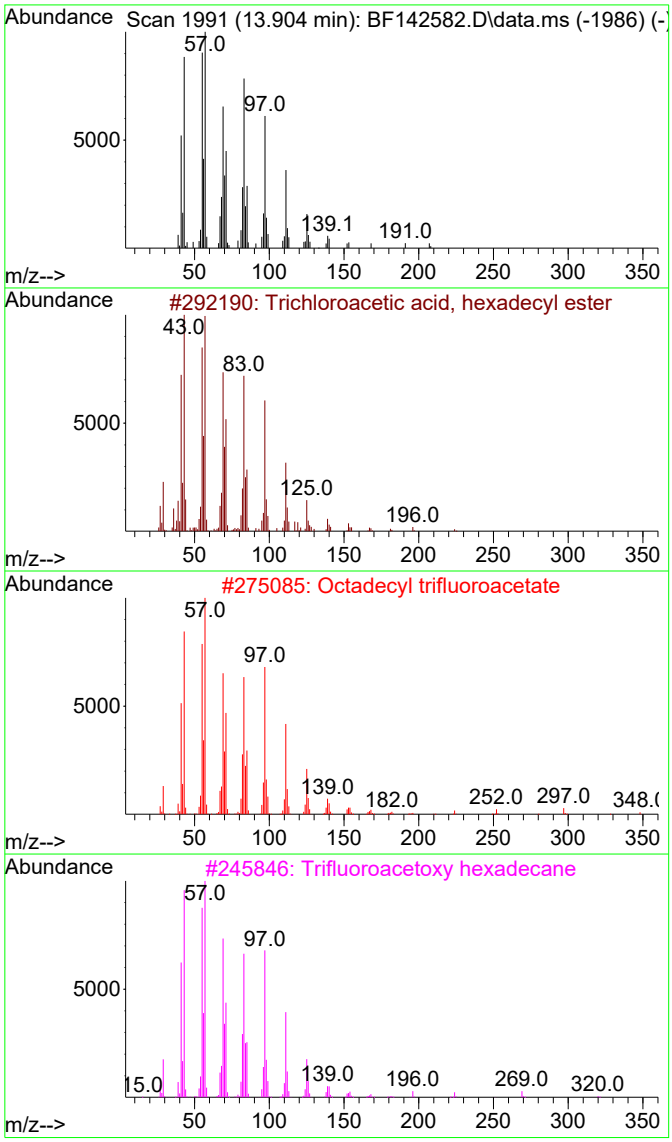
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

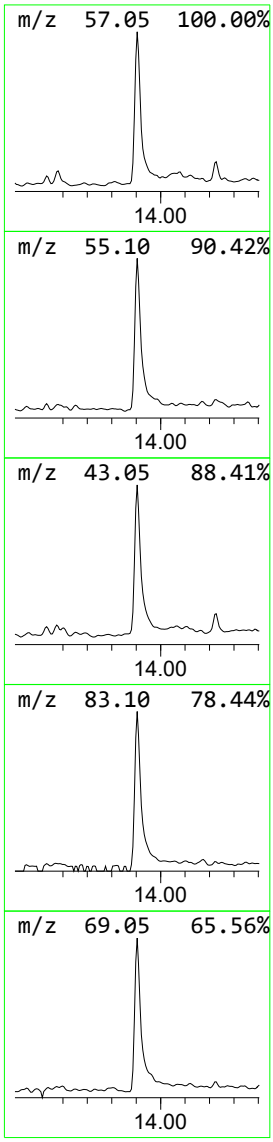
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Trichloroacetic acid, hexad... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	4.17 ng	128012	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	95
2	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	94
3	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	93
4	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	93
5	1-Heneicosanol	312	C21H44O	015594-90-8	93





Sample Results: **BF142582.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142582.D
Acq On : 30 May 2025 21:13
Operator : RC/JU
Sample : Q2150-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-53

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.116	7.0	ng	256339	1	6.898	734666	20.0
Benzophenone	10.651	3.4	ng	179070	3	9.933	1051240	20.0
n-Hexadecanoic ...	11.945	3.9	ng	187369	4	11.422	959464	20.0
Trichloroacetic...	13.904	4.2	ng	128012	5	14.063	613506	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142567.D
Acq On : 30 May 2025 13:49
Operator : RC/JU
Sample : PB168211BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168211BL

Quant Time: May 30 14:21:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

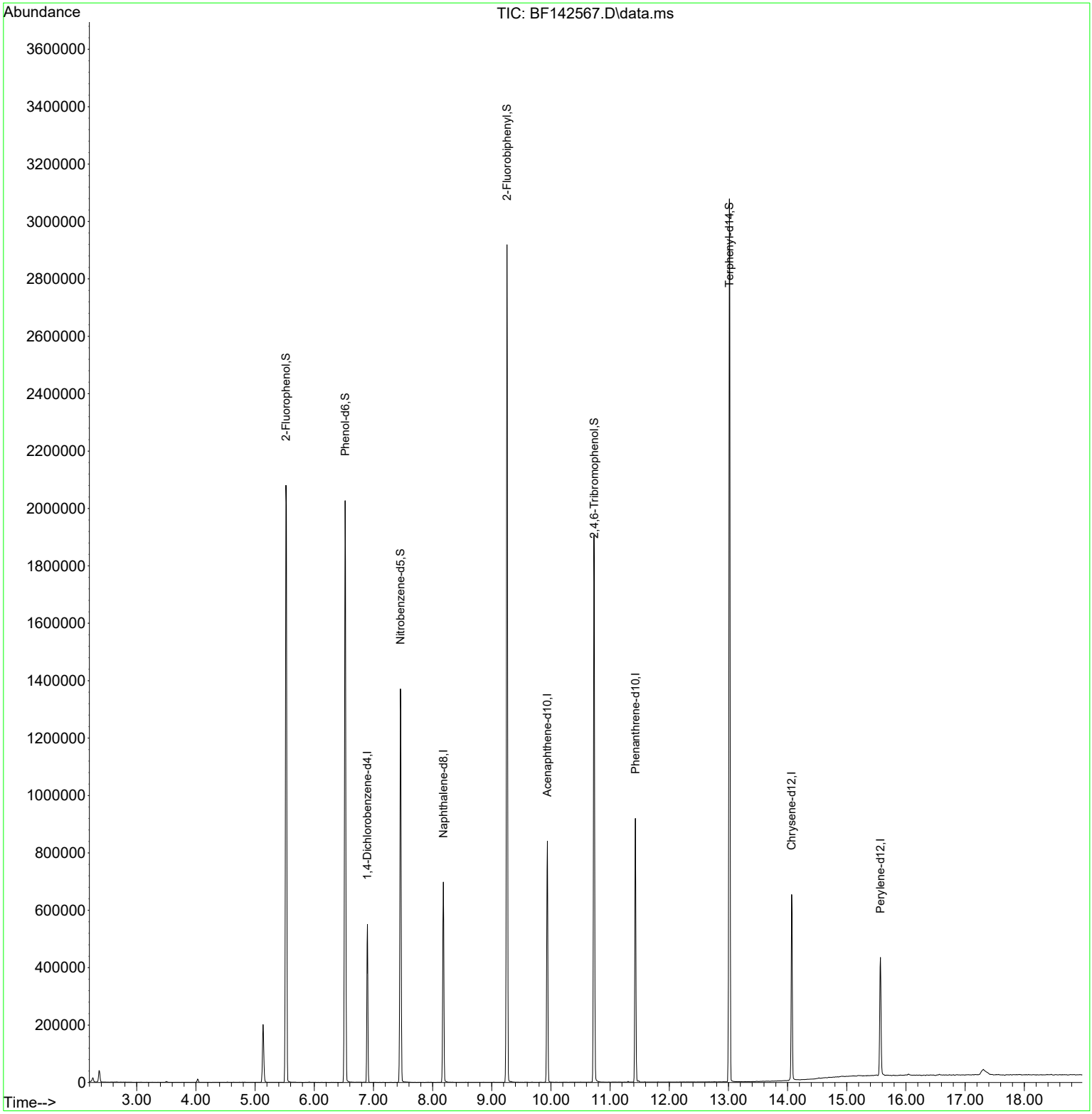
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	120363	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	465933	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	259895	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	480220	20.000	ng	0.00
76) Chrysene-d12	14.069	240	319274	20.000	ng	# 0.00
86) Perylene-d12	15.568	264	249124	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	858655	120.188	ng	0.00
7) Phenol-d6	6.522	99	1042703	121.245	ng	-0.01
23) Nitrobenzene-d5	7.457	82	634450	74.251	ng	-0.02
42) 2,4,6-Tribromophenol	10.733	330	359050	124.475	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	1376467	71.068	ng	-0.01
79) Terphenyl-d14	13.016	244	1598136	68.403	ng	0.00
Target Compounds						Qvalue

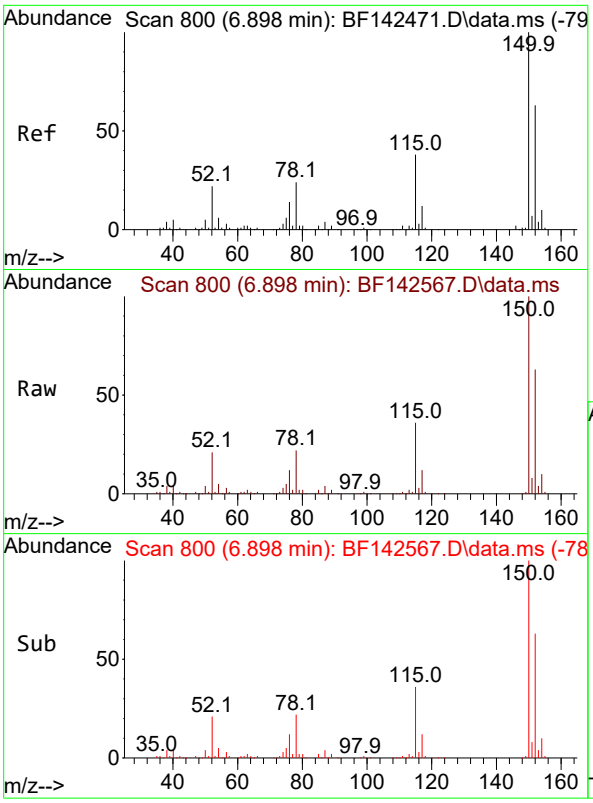
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142567.D
Acq On : 30 May 2025 13:49
Operator : RC/JU
Sample : PB168211BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168211BL

Quant Time: May 30 14:21:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



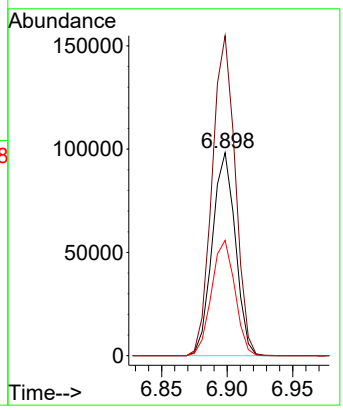


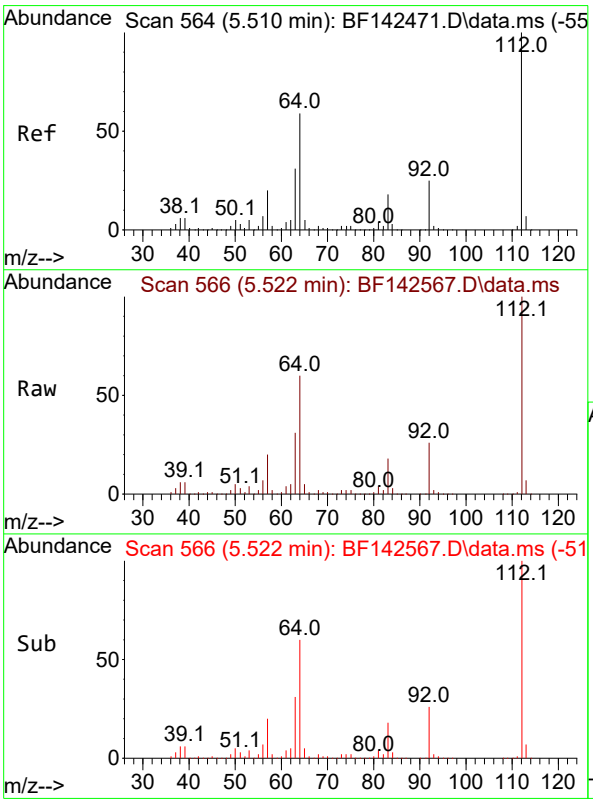
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF142567.D
Acq: 30 May 2025 13:49

Instrument :
BNA_F
ClientSampleId :
PB168211BL

Tgt Ion:152 Resp: 120363

Ion	Ratio	Lower	Upper
152	100		
150	157.6	128.2	192.4
115	56.8	48.3	72.5

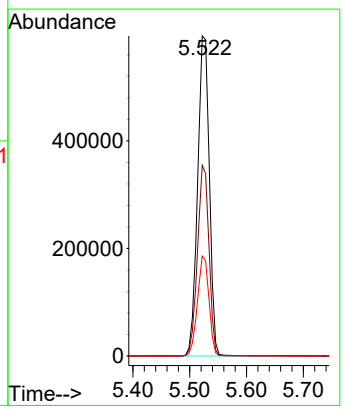


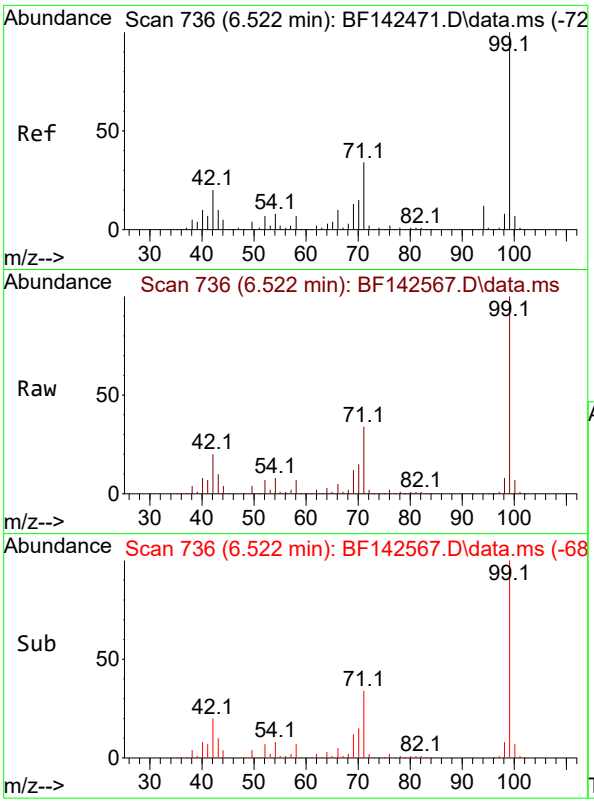


#5
2-Fluorophenol
Concen: 120.188 ng
RT: 5.522 min Scan# 566
Delta R.T. 0.006 min
Lab File: BF142567.D
Acq: 30 May 2025 13:49

Tgt Ion:112 Resp: 858655

Ion	Ratio	Lower	Upper
112	100		
64	59.6	47.5	71.3
63	31.2	24.9	37.3



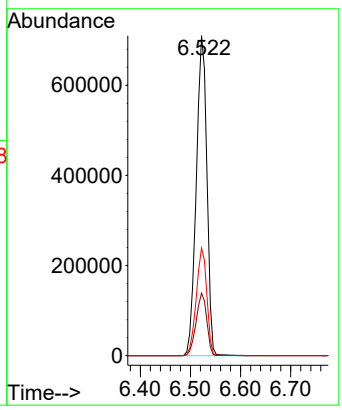


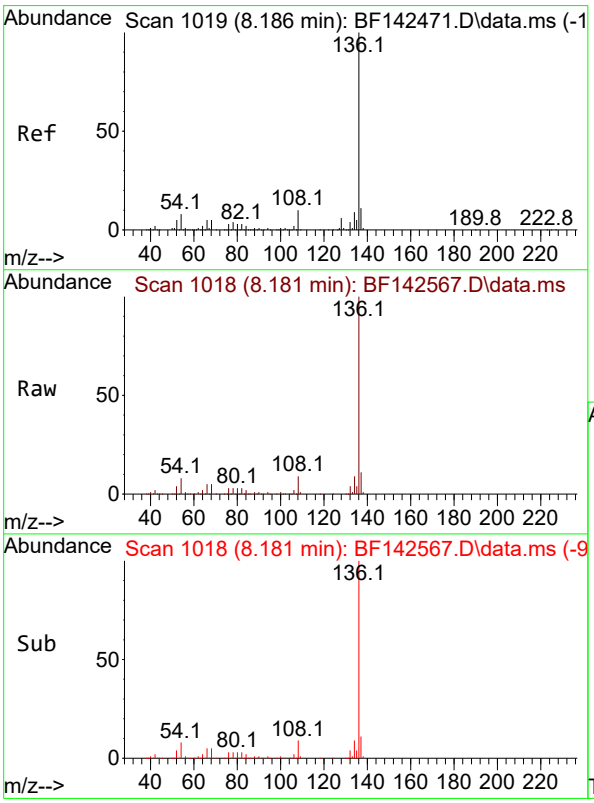
#7
Phenol-d6
Concen: 121.245 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF142567.D
Acq: 30 May 2025 13:49

Instrument :
BNA_F
ClientSampleId :
PB168211BL

Tgt Ion: 99 Resp: 1042703

Ion	Ratio	Lower	Upper
99	100		
42	19.5	16.2	24.2
71	33.7	27.3	40.9

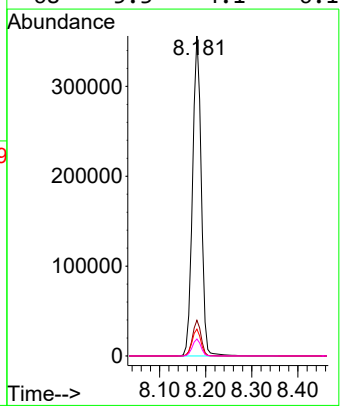


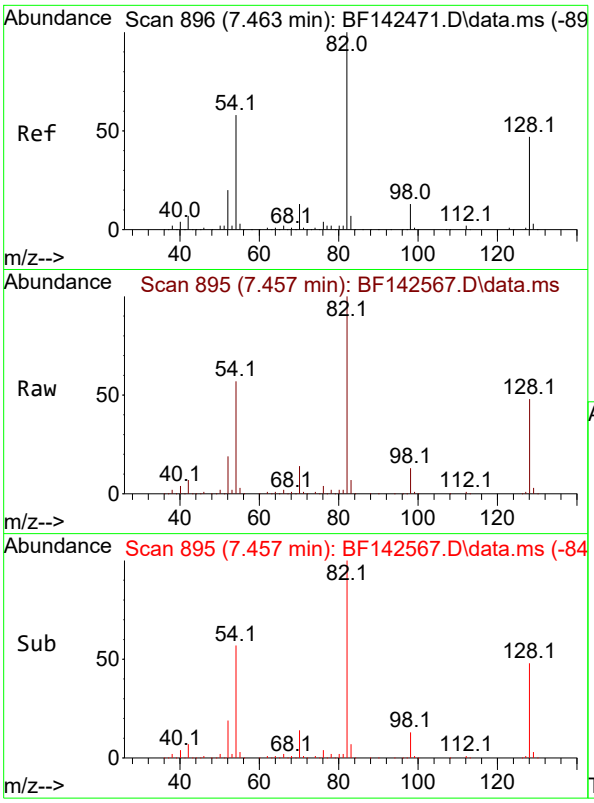


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142567.D
Acq: 30 May 2025 13:49

Tgt Ion:136 Resp: 465933

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	8.4	6.6	10.0
68	5.3	4.1	6.1



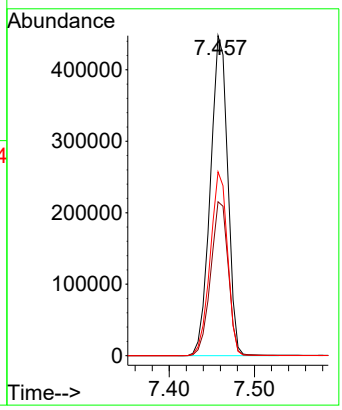


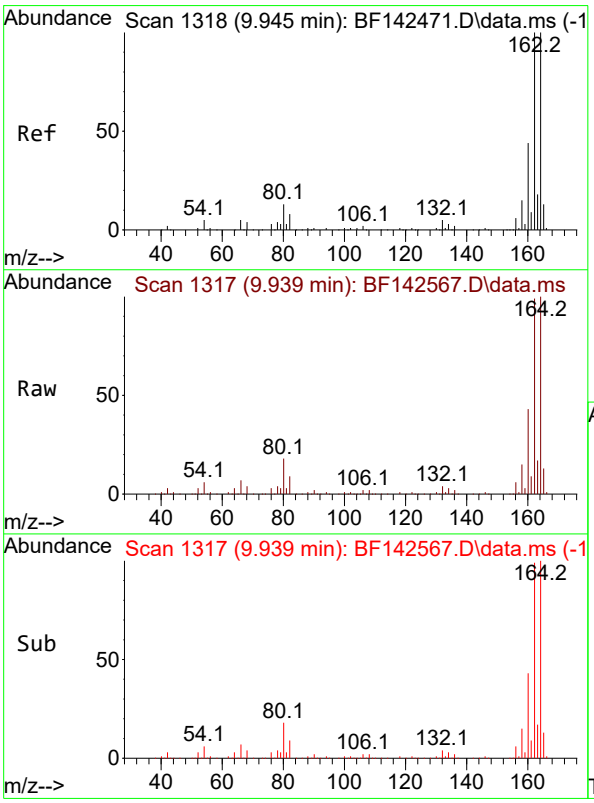
#23
Nitrobenzene-d5
Concen: 74.251 ng
RT: 7.457 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF142567.D
Acq: 30 May 2025 13:49

Instrument :
BNA_F
ClientSampleId :
PB168211BL

Tgt Ion: 82 Resp: 634450

Ion	Ratio	Lower	Upper
82	100		
128	48.1	37.4	56.2
54	57.4	46.6	70.0

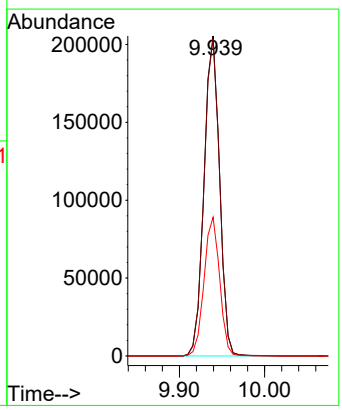


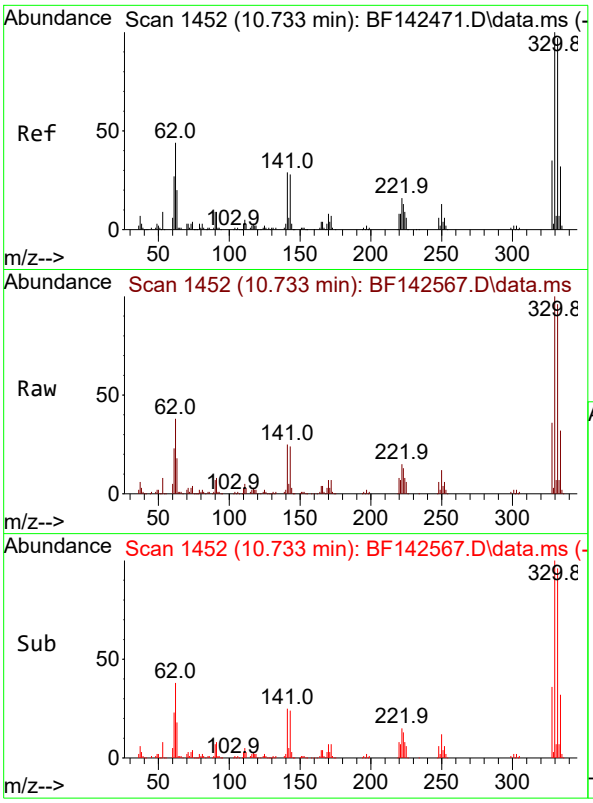


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BF142567.D
Acq: 30 May 2025 13:49

Tgt Ion:164 Resp: 259895

Ion	Ratio	Lower	Upper
164	100		
162	99.2	80.2	120.4
160	43.4	35.6	53.4



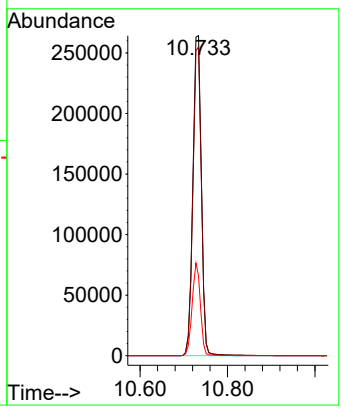


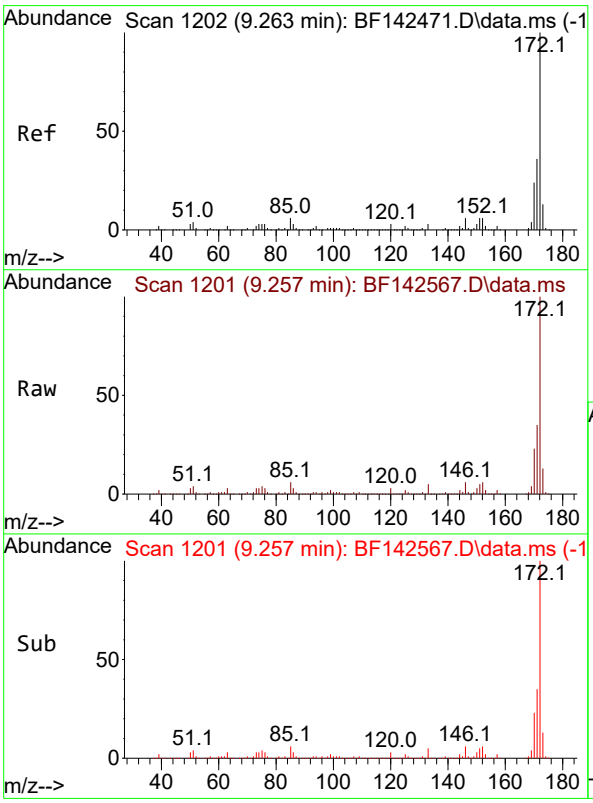
#42
2,4,6-Tribromophenol
Concen: 124.475 ng
RT: 10.733 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF142567.D
Acq: 30 May 2025 13:49

Instrument :
BNA_F
ClientSampleId :
PB168211BL

Tgt Ion:330 Resp: 359050

Ion	Ratio	Lower	Upper
330	100		
332	95.8	77.6	116.4
141	27.9	24.6	36.8

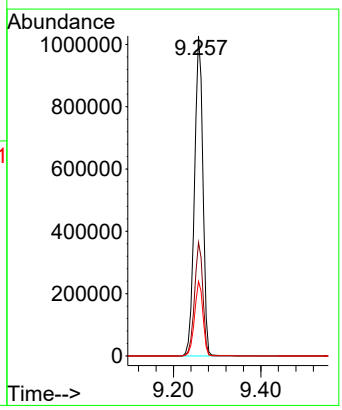


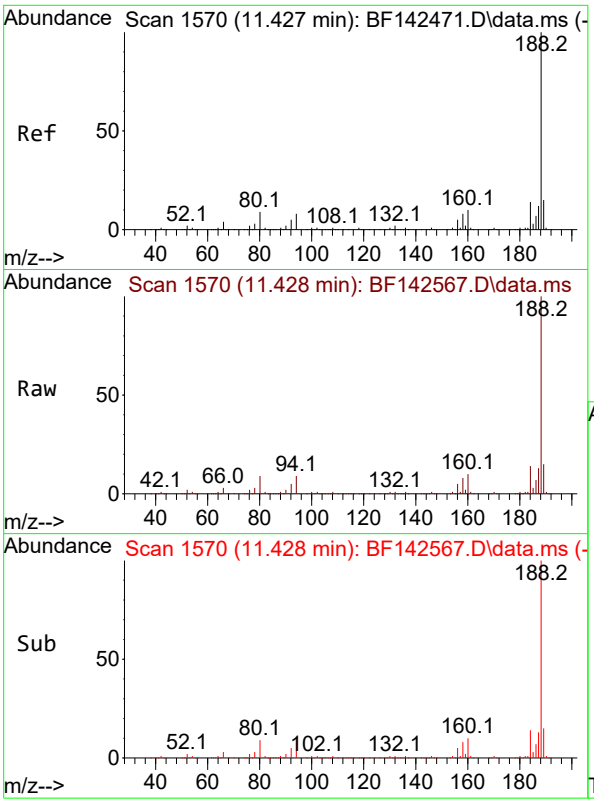


#45
2-Fluorobiphenyl
Concen: 71.068 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.012 min
Lab File: BF142567.D
Acq: 30 May 2025 13:49

Tgt Ion:172 Resp: 1376467

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	42.8
170	23.3	18.9	28.3



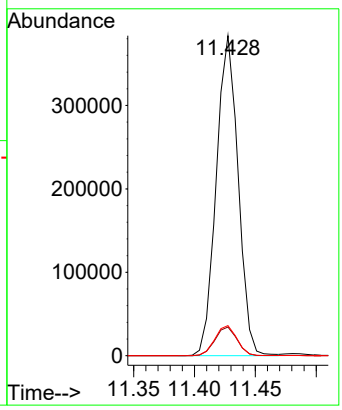


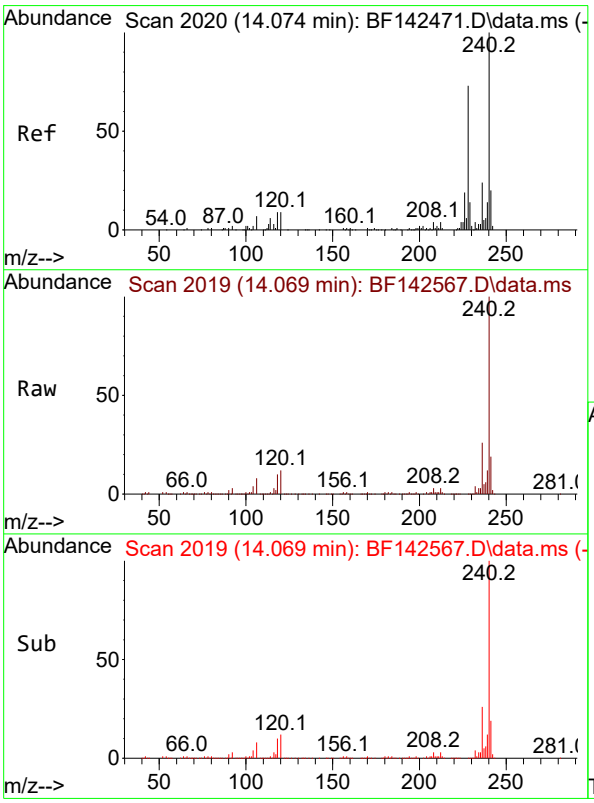
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142567.D
Acq: 30 May 2025 13:49

Instrument :
BNA_F
ClientSampleId :
PB168211BL

Tgt Ion:188 Resp: 480220

Ion	Ratio	Lower	Upper
188	100		
94	9.0	6.6	10.0
80	9.4	7.4	11.0

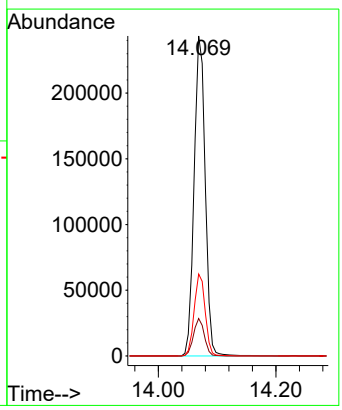


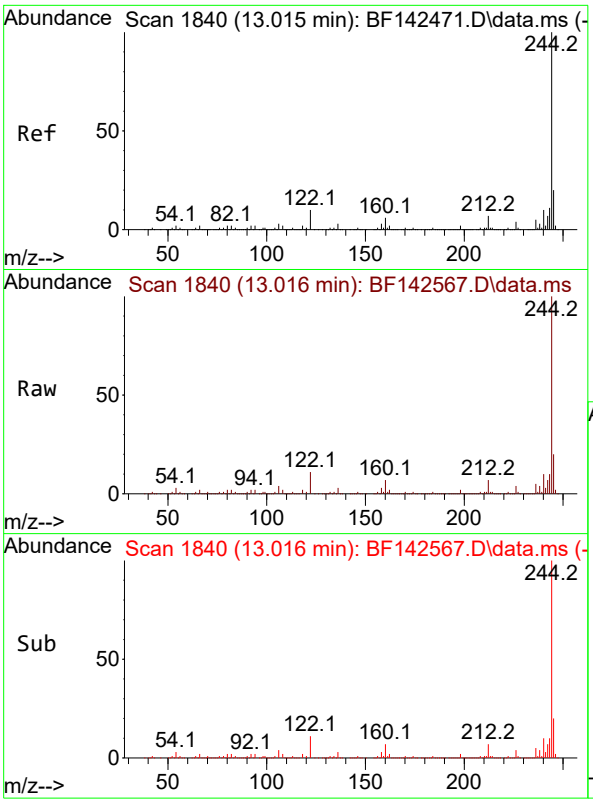


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF142567.D
Acq: 30 May 2025 13:49

Tgt Ion:240 Resp: 319274

Ion	Ratio	Lower	Upper
240	100		
120	11.7	7.5	11.3#
236	25.6	19.6	29.4



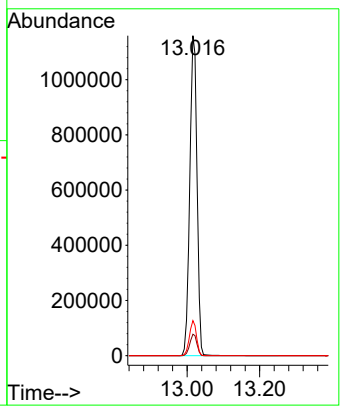


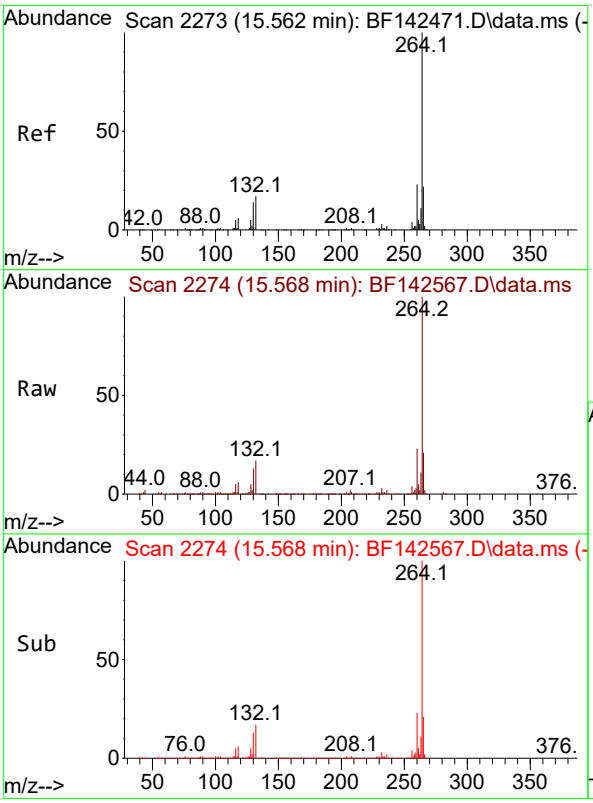
#79
Terphenyl-d14
Concen: 68.403 ng
RT: 13.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF142567.D
Acq: 30 May 2025 13:49

Instrument :
BNA_F
ClientSampleId :
PB168211BL

Tgt Ion:244 Resp: 1598136

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.3	7.9
122	10.9	8.2	12.2

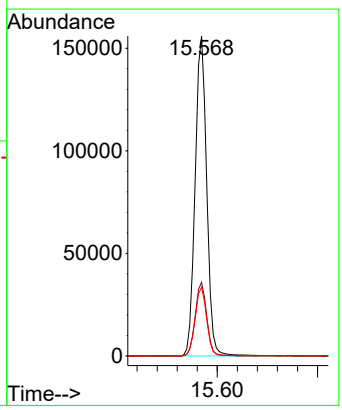




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.568 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BF142567.D
Acq: 30 May 2025 13:49

Tgt Ion:264 Resp: 249124

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.6	28.0
265	21.5	17.7	26.5



Sample Results: **BF142567.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142567.D
Acq On : 30 May 2025 13:49
Operator : RC/JU
Sample : PB168211BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168211BL

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-BF052025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142567.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.363	20	29	39	rVB	39739	67676	1.62%	0.280%
2	5.134	494	500	517	rBV	201442	323138	7.72%	1.338%
3	5.522	560	566	572	rBV	2080786	2950934	70.48%	12.220%
4	6.522	729	736	742	rBV	2027286	2972206	70.99%	12.308%
5	6.898	795	800	805	rBV	551358	678646	16.21%	2.810%
6	7.457	888	895	901	rBV	1371044	1941005	46.36%	8.038%
7	8.181	1012	1018	1032	rBV	698181	904610	21.61%	3.746%
8	9.257	1194	1201	1206	rBV	2918803	3862734	92.26%	15.996%
9	9.939	1311	1317	1322	rBV	840683	1064988	25.44%	4.410%
10	10.728	1445	1451	1467	rBV	1905522	2525588	60.32%	10.458%
11	11.428	1564	1570	1575	rBV	919013	1145953	27.37%	4.745%
12	13.016	1834	1840	1846	rBV	3076276	4186924	100.00%	17.338%
13	14.069	2010	2019	2032	rBV	648148	864665	20.65%	3.581%
14	15.568	2267	2274	2287	rBV	411807	659691	15.76%	2.732%

Sum of corrected areas: 24148758

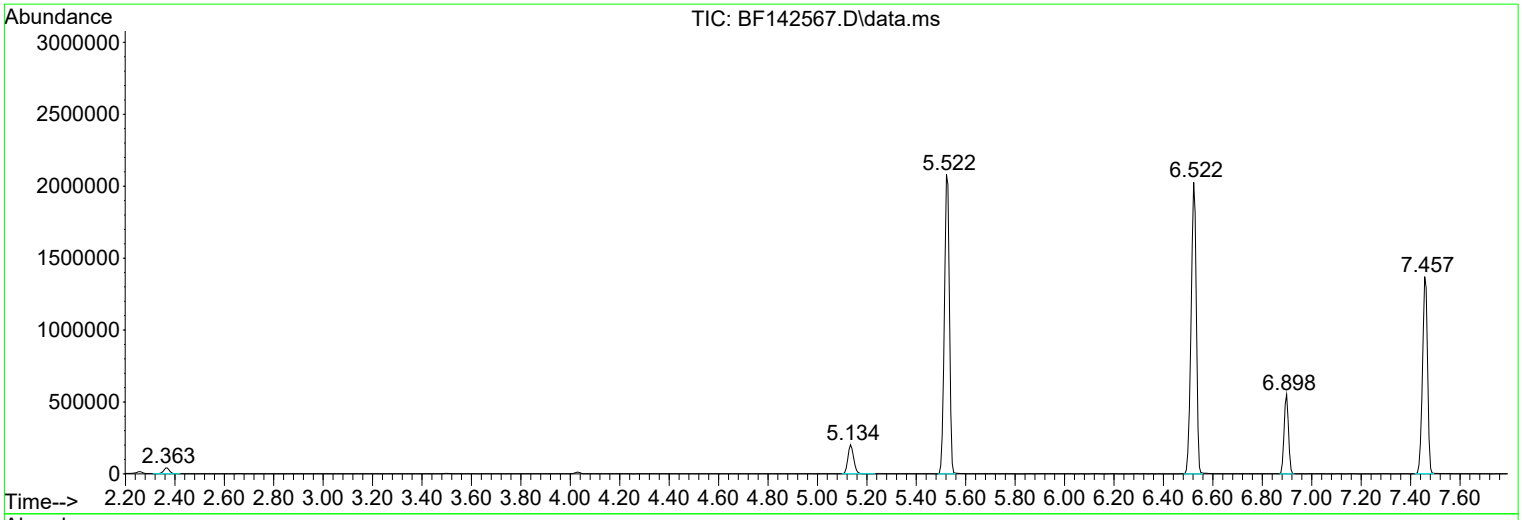
Sample Results: **BF142567.D**

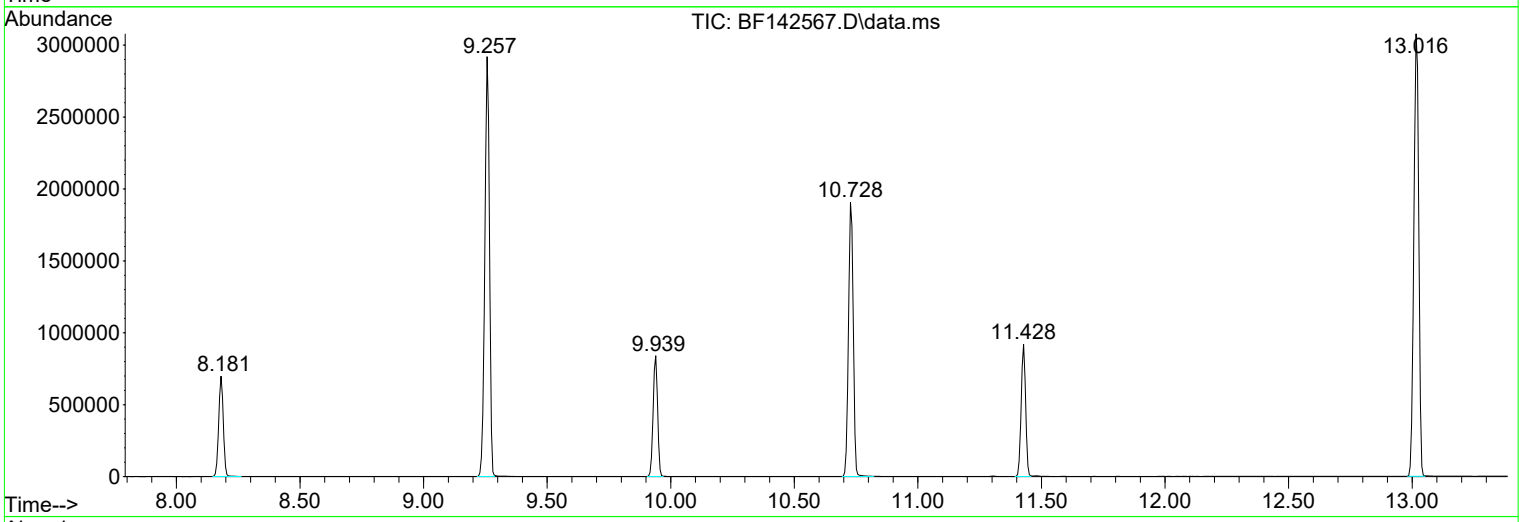
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142567.D
Acq On : 30 May 2025 13:49
Operator : RC/JU
Sample : PB168211BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

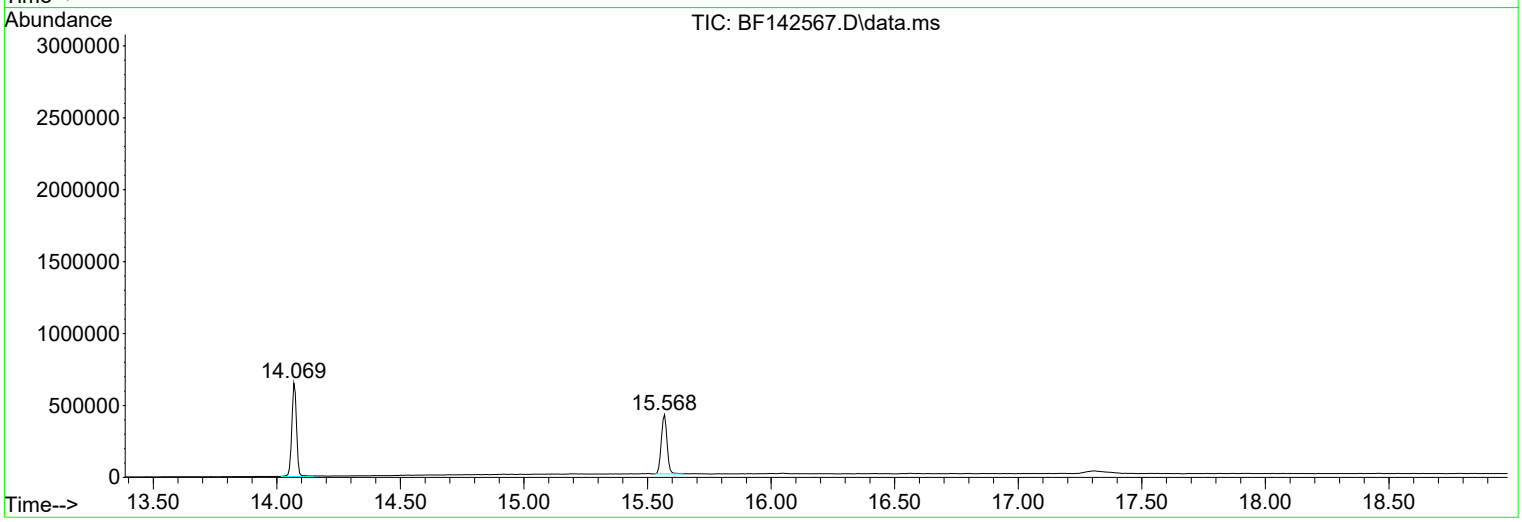
Instrument :
BNA_F
ClientSampleId :
PB168211BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.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\BF053025\
Data File : BF142567.D
Acq On : 30 May 2025 13:49
Operator : RC/JU
Sample : PB168211BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168211BL

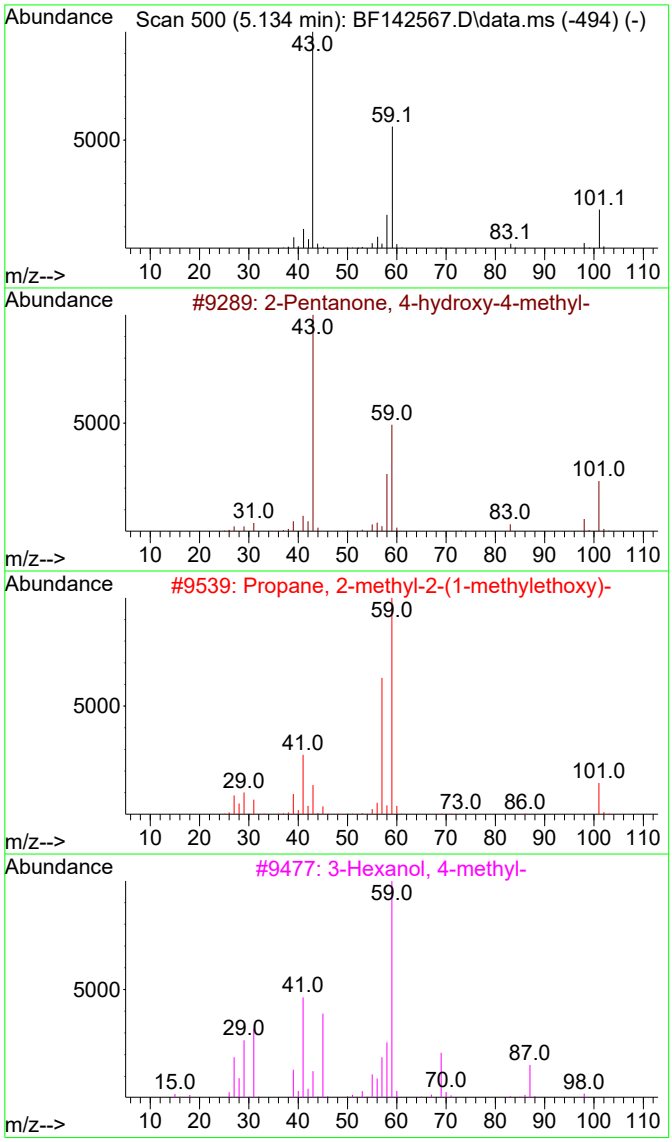
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

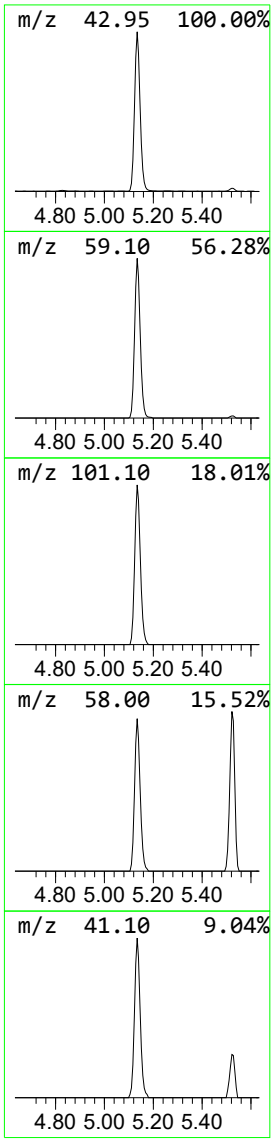
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.134	9.52 ng	323138	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	33
3	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142567.D
Acq On : 30 May 2025 13:49
Operator : RC/JU
Sample : PB168211BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168211BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.134	9.5	ng	323138	1	6.898	678646	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142568.D
Acq On : 30 May 2025 14:18
Operator : RC/JU
Sample : PB168211BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168211BS

Quant Time: May 30 17:24:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	122043	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	476655	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	264068	20.000	ng	0.00
64) Phenanthrene-d10	11.433	188	470473	20.000	ng	0.00
76) Chrysene-d12	14.074	240	271265	20.000	ng	0.00
86) Perylene-d12	15.568	264	242037	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.528	112	852680	117.709	ng	0.01
7) Phenol-d6	6.528	99	1047774	120.158	ng	0.00
23) Nitrobenzene-d5	7.463	82	640818	73.309	ng	-0.01
42) 2,4,6-Tribromophenol	10.733	330	372617	127.137	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	1387067	70.484	ng	0.00
79) Terphenyl-d14	13.015	244	1462423	73.672	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.769	88	103387	35.666	ng	99
3) Pyridine	3.528	79	287654	38.968	ng	98
4) n-Nitrosodimethylamine	3.481	42	153912	40.157	ng	93
6) Aniline	6.563	93	386546	32.968	ng	100
8) 2-Chlorophenol	6.681	128	334430	42.385	ng	98
9) Benzaldehyde	6.451	77	176933	33.735	ng	99
10) Phenol	6.545	94	407345	41.516	ng	94
11) bis(2-Chloroethyl)ether	6.634	93	294278	41.665	ng	99
12) 1,3-Dichlorobenzene	6.839	146	348789	39.616	ng	99
13) 1,4-Dichlorobenzene	6.916	146	351735	39.660	ng	98
14) 1,2-Dichlorobenzene	7.069	146	345320	40.692	ng	99
15) Benzyl Alcohol	7.039	79	276133	42.851	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.175	45	478931	40.378	ng	99
17) 2-Methylphenol	7.151	107	265099	43.034	ng	99
18) Hexachloroethane	7.410	117	124413	40.175	ng	97
19) n-Nitroso-di-n-propyla...	7.310	70	216777	40.112	ng	99
20) 3+4-Methylphenols	7.304	107	331352	42.003	ng	98
22) Acetophenone	7.310	105	431045	40.851	ng	99
24) Nitrobenzene	7.481	77	327349	41.521	ng	98
25) Isophorone	7.722	82	603262	41.277	ng	98
26) 2-Nitrophenol	7.798	139	184515	43.800	ng	96
27) 2,4-Dimethylphenol	7.833	122	319426	42.997	ng	100
28) bis(2-Chloroethoxy)met...	7.928	93	377464	41.345	ng	99
29) 2,4-Dichlorophenol	8.039	162	294165	43.541	ng	99
30) 1,2,4-Trichlorobenzene	8.122	180	297631	40.592	ng	98
31) Naphthalene	8.204	128	964027	41.074	ng	100
32) Benzoic acid	7.957	122	216728	47.925	ng	95
33) 4-Chloroaniline	8.251	127	199850	21.014	ng	98
34) Hexachlorobutadiene	8.322	225	179561	39.221	ng	99
35) Caprolactam	8.622	113	95942m	50.562	ng	
36) 4-Chloro-3-methylphenol	8.733	107	307511	44.413	ng	99
37) 2-Methylnaphthalene	8.898	142	603358	40.862	ng	100
38) 1-Methylnaphthalene	8.998	142	628687	41.163	ng	100
40) 1,2,4,5-Tetrachloroben...	9.063	216	306920	40.489	ng	99
41) Hexachlorocyclopentadiene	9.051	237	409386	80.059	ng	99
43) 2,4,6-Trichlorophenol	9.175	196	218158	42.680	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142568.D
Acq On : 30 May 2025 14:18
Operator : RC/JU
Sample : PB168211BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168211BS

Quant Time: May 30 17:24:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

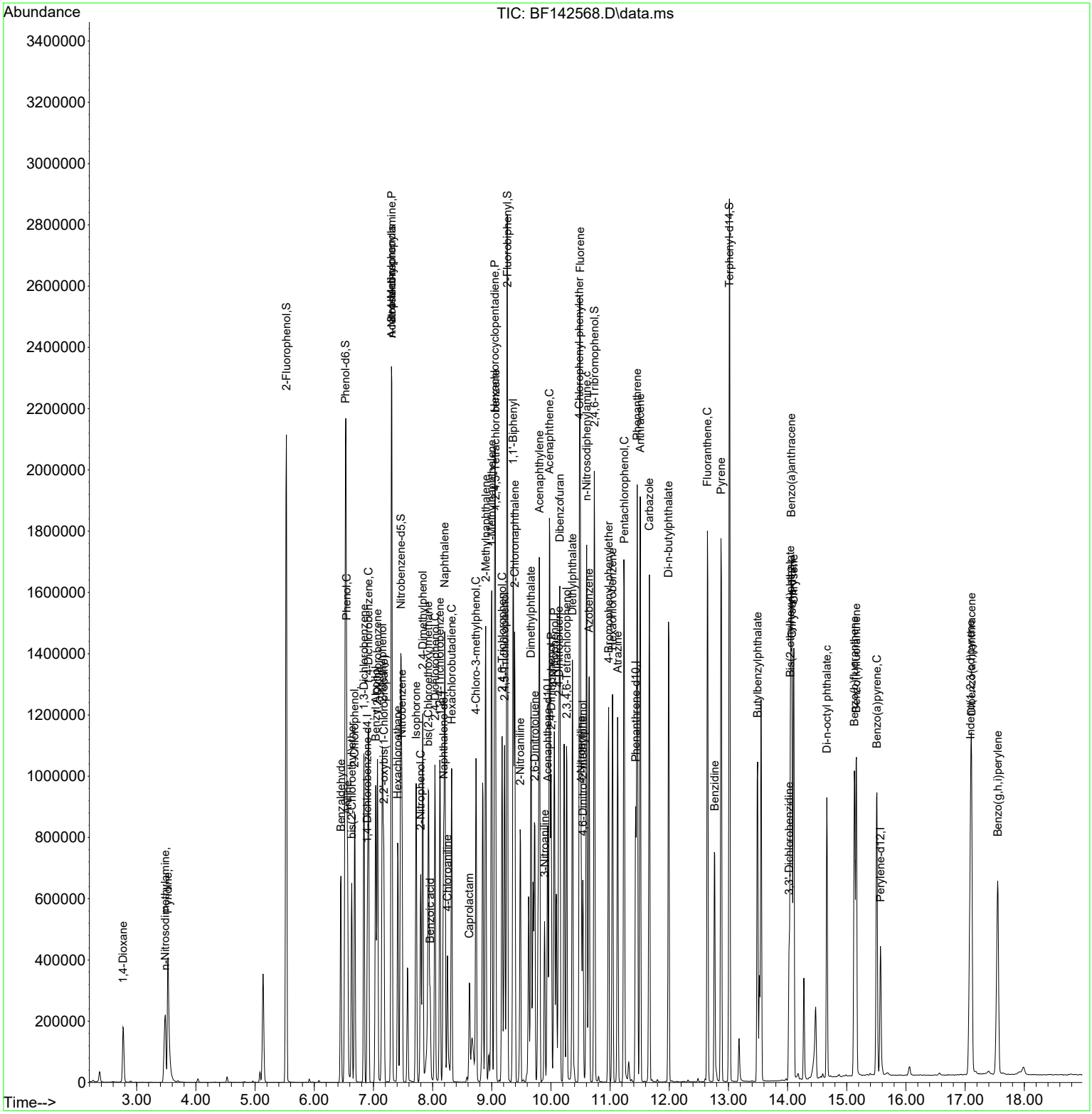
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.216	196	237861	44.123	ng	98
46) 1,1'-Biphenyl	9.363	154	838760	40.941	ng	99
47) 2-Chloronaphthalene	9.386	162	621764	41.077	ng	99
48) 2-Nitroaniline	9.480	65	194996	44.570	ng	99
49) Acenaphthylene	9.804	152	1077928	42.174	ng	100
50) Dimethylphthalate	9.663	163	767183	44.030	ng	100
51) 2,6-Dinitrotoluene	9.727	165	170243	45.269	ng	96
52) Acenaphthene	9.974	154	726019	46.519	ng	99
53) 3-Nitroaniline	9.892	138	122177	29.745	ng	99
54) 2,4-Dinitrophenol	10.004	184	208199	107.159	ng	92
55) Dibenzofuran	10.151	168	943056	41.990	ng	99
56) 4-Nitrophenol	10.057	139	297298	98.094	ng	99
57) 2,4-Dinitrotoluene	10.133	165	232579	47.356	ng	98
58) Fluorene	10.492	166	737241	42.491	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.269	232	200089	44.461	ng	99
60) Diethylphthalate	10.363	149	750725	44.116	ng	100
61) 4-Chlorophenyl-phenyle...	10.480	204	360489	42.294	ng	98
62) 4-Nitroaniline	10.510	138	183943	49.377	ng	97
63) Azobenzene	10.645	77	661165	43.257	ng	99
65) 4,6-Dinitro-2-methylph...	10.539	198	131023	49.902	ng	100
66) n-Nitrosodiphenylamine	10.604	169	657232	40.832	ng	100
67) 4-Bromophenyl-phenylether	10.974	248	229459	41.247	ng	98
68) Hexachlorobenzene	11.039	284	253935	41.271	ng	99
69) Atrazine	11.127	200	207887	48.633	ng	99
70) Pentachlorophenol	11.239	266	304411	87.631	ng	99
71) Phenanthrene	11.457	178	1049379	41.736	ng	99
72) Anthracene	11.510	178	1083954	42.242	ng	99
73) Carbazole	11.663	167	987084	44.996	ng	100
74) Di-n-butylphthalate	11.986	149	1125656	46.879	ng	99
75) Fluoranthene	12.645	202	1074252	45.725	ng	98
77) Benzidine	12.768	184	437383	43.328	ng	99
78) Pyrene	12.874	202	1070790	42.315	ng	99
80) Butylbenzylphthalate	13.492	149	358852	51.321	ng	97
81) Benzo(a)anthracene	14.062	228	811376	44.793	ng	99
82) 3,3'-Dichlorobenzidine	14.027	252	131683	23.968	ng	99
83) Chrysene	14.104	228	682489	41.931	ng	100
84) Bis(2-ethylhexyl)phtha...	14.045	149	409441	45.742	ng	99
85) Di-n-octyl phthalate	14.662	149	624867	35.702	ng	100
87) Indeno(1,2,3-cd)pyrene	17.092	276	748803	41.209	ng	99
88) Benzo(b)fluoranthene	15.127	252	663382	46.310	ng	98
89) Benzo(k)fluoranthene	15.162	252	589241	43.918	ng	99
90) Benzo(a)pyrene	15.509	252	605231	44.823	ng	99
91) Dibenzo(a,h)anthracene	17.109	278	612544	41.564	ng	100
92) Benzo(g,h,i)perylene	17.550	276	603462	40.939	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142568.D
Acq On : 30 May 2025 14:18
Operator : RC/JU
Sample : PB168211BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168211BS

Quant Time: May 30 17:24:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142571.D
Acq On : 30 May 2025 15:50
Operator : RC/JU
Sample : Q2150-09MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-54MS

Quant Time: May 30 17:24:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	123670	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	460723	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	236866	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	378954	20.000	ng	0.00
76) Chrysene-d12	14.074	240	208599	20.000	ng	0.00
86) Perylene-d12	15.568	264	243037	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	637889	86.900	ng	0.00
7) Phenol-d6	6.528	99	794110	89.870	ng	0.00
23) Nitrobenzene-d5	7.463	82	467633	55.347	ng	-0.01
42) 2,4,6-Tribromophenol	10.733	330	242888	92.391	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	929576	52.661	ng	-0.01
79) Terphenyl-d14	13.010	244	783393	51.321	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.746	88	109776	37.372	ng	99
3) Pyridine	3.505	79	302573	40.450	ng	98
4) n-Nitrosodimethylamine	3.463	42	160959	41.443	ng	92
6) Aniline	6.563	93	316940	26.676	ng	99
8) 2-Chlorophenol	6.681	128	338147	42.293	ng	98
9) Benzaldehyde	6.445	77	193731	36.452	ng	97
10) Phenol	6.540	94	406216	40.856	ng	100
11) bis(2-Chloroethyl)ether	6.634	93	301601	42.140	ng	99
12) 1,3-Dichlorobenzene	6.840	146	367071	41.143	ng	98
13) 1,4-Dichlorobenzene	6.916	146	369977	41.168	ng	99
14) 1,2-Dichlorobenzene	7.069	146	353989	41.165	ng	98
15) Benzyl Alcohol	7.040	79	268961	41.189	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.169	45	496978	41.349	ng	97
17) 2-Methylphenol	7.151	107	258669	41.437	ng	99
18) Hexachloroethane	7.410	117	128740	41.025	ng	98
19) n-Nitroso-di-n-propyla...	7.310	70	218260	39.855	ng	99
20) 3+4-Methylphenols	7.304	107	322695	40.368	ng	96
22) Acetophenone	7.310	105	427657	41.931	ng	99
24) Nitrobenzene	7.481	77	329801	43.279	ng	99
25) Isophorone	7.722	82	584319	41.364	ng	98
26) 2-Nitrophenol	7.798	139	182519	44.825	ng	97
27) 2,4-Dimethylphenol	7.834	122	308400	42.948	ng	99
28) bis(2-Chloroethoxy)met...	7.928	93	371689	42.120	ng	100
29) 2,4-Dichlorophenol	8.040	162	279177	42.751	ng	100
30) 1,2,4-Trichlorobenzene	8.122	180	306167	43.200	ng	98
31) Naphthalene	8.204	128	949468	41.853	ng	100
32) Benzoic acid	7.951	122	196256	44.899	ng	98
33) 4-Chloroaniline	8.251	127	83788	9.115	ng	97
34) Hexachlorobutadiene	8.322	225	184383	41.667	ng	99
35) Caprolactam	8.622	113	83353m	45.447	ng	
36) 4-Chloro-3-methylphenol	8.734	107	276787	41.358	ng	97
37) 2-Methylnaphthalene	8.898	142	586972	41.127	ng	100
38) 1-Methylnaphthalene	8.998	142	601058	40.715	ng	100
40) 1,2,4,5-Tetrachloroben...	9.063	216	300567	44.205	ng	99
41) Hexachlorocyclopentadiene	9.051	237	370150	80.699	ng	99
43) 2,4,6-Trichlorophenol	9.175	196	199554	43.524	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142571.D
Acq On : 30 May 2025 15:50
Operator : RC/JU
Sample : Q2150-09MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-54MS

Quant Time: May 30 17:24:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

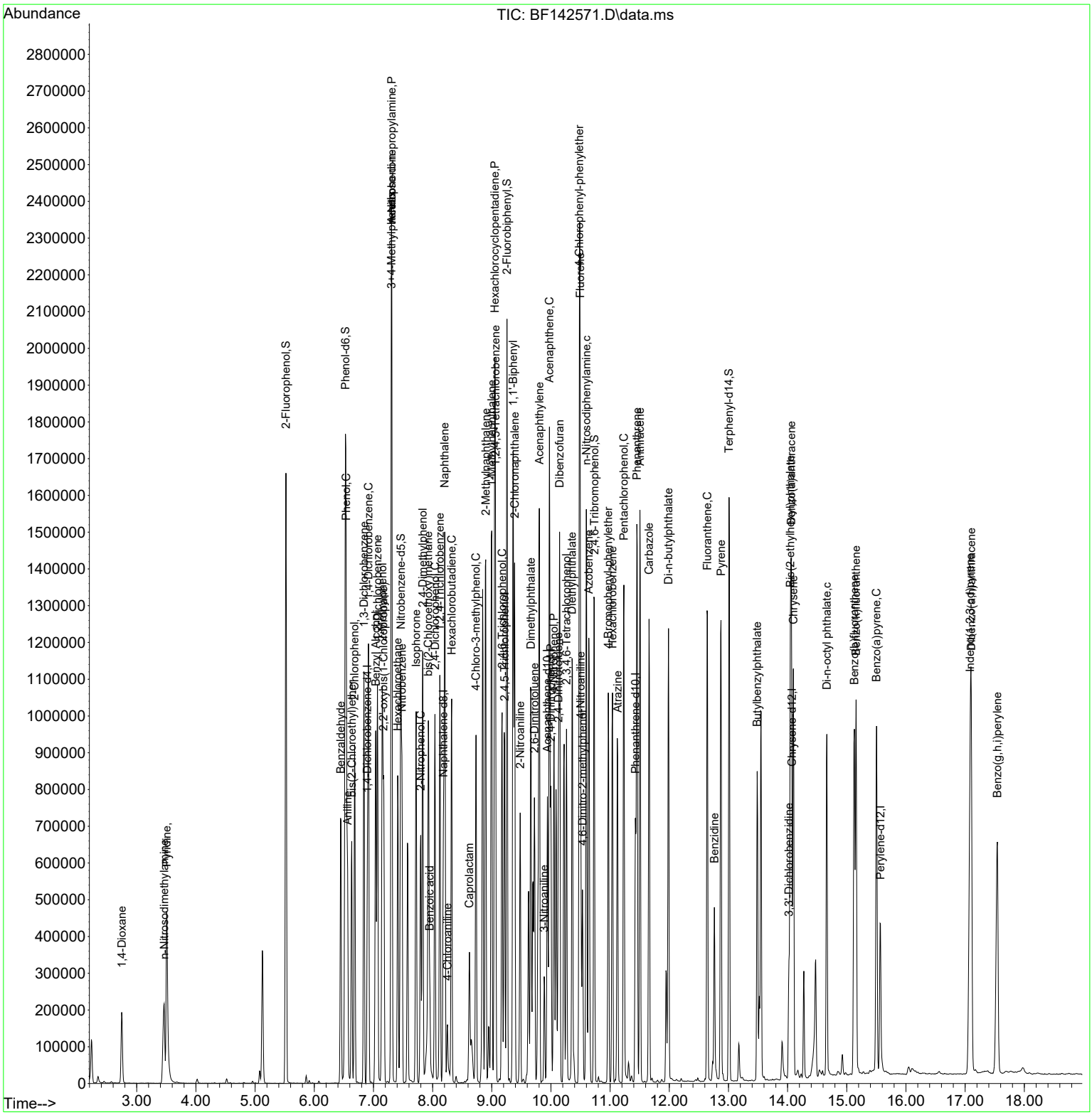
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.216	196	209342	43.293	ng	97
46) 1,1'-Biphenyl	9.363	154	792558	43.129	ng	100
47) 2-Chloronaphthalene	9.386	162	588404	43.338	ng	99
48) 2-Nitroaniline	9.481	65	166305	42.377	ng	97
49) Acenaphthylene	9.804	152	978892	42.698	ng	100
50) Dimethylphthalate	9.663	163	676381	43.277	ng	99
51) 2,6-Dinitrotoluene	9.722	165	148602	44.053	ng	97
52) Acenaphthene	9.975	154	643854	45.992	ng	100
53) 3-Nitroaniline	9.886	138	67401	18.294	ng	99
54) 2,4-Dinitrophenol	9.998	184	161261	92.532	ng	92
55) Dibenzofuran	10.145	168	849661	42.177	ng	99
56) 4-Nitrophenol	10.051	139	237434	87.339	ng	97
57) 2,4-Dinitrotoluene	10.128	165	197146	44.751	ng	99
58) Fluorene	10.492	166	644831	41.433	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.263	232	171201	42.410	ng	100
60) Diethylphthalate	10.357	149	637907	41.791	ng	100
61) 4-Chlorophenyl-phenyle...	10.481	204	318453	41.653	ng	97
62) 4-Nitroaniline	10.504	138	141774	42.427	ng	98
63) Azobenzene	10.639	77	611242	44.583	ng	98
65) 4,6-Dinitro-2-methylph...	10.533	198	103049	48.726	ng	98
66) n-Nitrosodiphenylamine	10.598	169	566216	43.673	ng	100
67) 4-Bromophenyl-phenylether	10.969	248	192434	42.946	ng	99
68) Hexachlorobenzene	11.039	284	213538	43.087	ng	98
69) Atrazine	11.128	200	164223	47.696	ng	99
70) Pentachlorophenol	11.233	266	235596	84.200	ng	99
71) Phenanthrene	11.451	178	847323	41.839	ng	100
72) Anthracene	11.504	178	875823	42.374	ng	100
73) Carbazole	11.657	167	742117	42.000	ng	99
74) Di-n-butylphthalate	11.986	149	879121	45.454	ng	100
75) Fluoranthene	12.645	202	773487	40.874	ng	99
77) Benzidine	12.763	184	265343	34.182	ng	99
78) Pyrene	12.874	202	751841	38.637	ng	100
80) Butylbenzylphthalate	13.486	149	280690	52.203	ng	99
81) Benzo(a)anthracene	14.063	228	612892	44.000	ng	99
82) 3,3'-Dichlorobenzidine	14.021	252	92517	21.898	ng	99
83) Chrysene	14.098	228	536134	42.835	ng	99
84) Bis(2-ethylhexyl)phtha...	14.045	149	383177	55.668	ng	99
85) Di-n-octyl phthalate	14.663	149	659017	48.965	ng	99
87) Indeno(1,2,3-cd)pyrene	17.086	276	773974	42.419	ng	99
88) Benzo(b)fluoranthene	15.127	252	610821	42.465	ng	99
89) Benzo(k)fluoranthene	15.157	252	581284	43.147	ng	98
90) Benzo(a)pyrene	15.504	252	600806	44.312	ng	99
91) Dibenzo(a,h)anthracene	17.104	278	634178	42.855	ng	100
92) Benzo(g,h,i)perylene	17.545	276	619254	41.838	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142571.D
Acq On : 30 May 2025 15:50
Operator : RC/JU
Sample : Q2150-09MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-54MS

Quant Time: May 30 17:24:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142572.D
Acq On : 30 May 2025 16:19
Operator : RC/JU
Sample : Q2150-09MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-54MSD

Quant Time: May 30 17:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	119675	20.000	ng	0.00
21) Naphthalene-d8	8.187	136	451884	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	233525	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	376587	20.000	ng	0.00
76) Chrysene-d12	14.074	240	204232	20.000	ng	0.00
86) Perylene-d12	15.568	264	234981	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	626206	88.156	ng	0.00
7) Phenol-d6	6.528	99	774467	90.572	ng	0.00
23) Nitrobenzene-d5	7.463	82	460687	55.591	ng	-0.01
42) 2,4,6-Tribromophenol	10.733	330	245306	94.646	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	923939	53.091	ng	-0.01
79) Terphenyl-d14	13.010	244	787087	52.665	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.746	88	107868	37.948	ng	99
3) Pyridine	3.504	79	294169	40.639	ng	99
4) n-Nitrosodimethylamine	3.457	42	158199	42.092	ng	94
6) Aniline	6.563	93	315467	27.438	ng	100
8) 2-Chlorophenol	6.681	128	330816	42.757	ng	98
9) Benzaldehyde	6.451	77	188917	36.733	ng	99
10) Phenol	6.540	94	399774	41.550	ng	99
11) bis(2-Chloroethyl)ether	6.634	93	297241	42.917	ng	99
12) 1,3-Dichlorobenzene	6.840	146	361346	41.854	ng	99
13) 1,4-Dichlorobenzene	6.916	146	360999	41.510	ng	99
14) 1,2-Dichlorobenzene	7.069	146	352553	42.366	ng	99
15) Benzyl Alcohol	7.040	79	264525	41.862	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.169	45	487250	41.893	ng	97
17) 2-Methylphenol	7.151	107	254267	42.092	ng	100
18) Hexachloroethane	7.410	117	126375	41.616	ng	98
19) n-Nitroso-di-n-propyla...	7.310	70	213930	40.369	ng	99
20) 3+4-Methylphenols	7.304	107	316160	40.870	ng	96
22) Acetophenone	7.310	105	422319	42.218	ng	99
24) Nitrobenzene	7.481	77	322834	43.193	ng	100
25) Isophorone	7.722	82	577626	41.690	ng	98
26) 2-Nitrophenol	7.798	139	179840	45.031	ng	96
27) 2,4-Dimethylphenol	7.834	122	305712	43.407	ng	98
28) bis(2-Chloroethoxy)met...	7.928	93	370438	42.800	ng	99
29) 2,4-Dichlorophenol	8.039	162	272520	42.548	ng	99
30) 1,2,4-Trichlorobenzene	8.122	180	297632	42.817	ng	98
31) Naphthalene	8.204	128	949483	42.672	ng	100
32) Benzoic acid	7.951	122	192119	44.812	ng	95
33) 4-Chloroaniline	8.251	127	90517	10.040	ng	98
34) Hexachlorobutadiene	8.322	225	182076	41.950	ng	99
35) Caprolactam	8.622	113	85172m	47.347	ng	
36) 4-Chloro-3-methylphenol	8.734	107	272050	41.445	ng	97
37) 2-Methylnaphthalene	8.898	142	572580	40.904	ng	99
38) 1-Methylnaphthalene	8.998	142	592334	40.908	ng	100
40) 1,2,4,5-Tetrachloroben...	9.063	216	295710	44.113	ng	99
41) Hexachlorocyclopentadiene	9.051	237	367045	81.167	ng	99
43) 2,4,6-Trichlorophenol	9.175	196	199370	44.106	ng	97

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142572.D
Acq On : 30 May 2025 16:19
Operator : RC/JU
Sample : Q2150-09MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-54MSD

Quant Time: May 30 17:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration

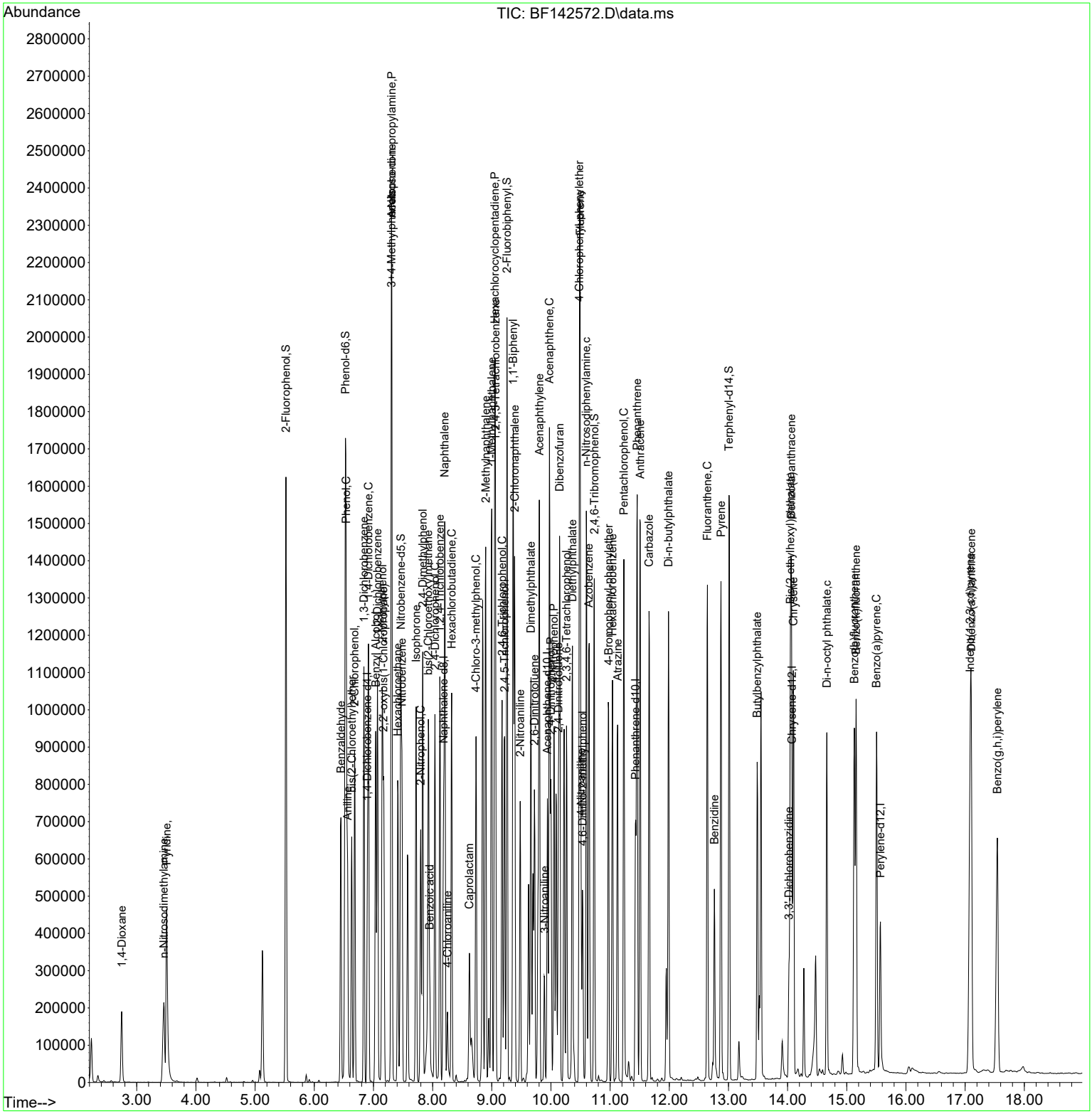
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.216	196	206416	43.298	ng		97
46) 1,1'-Biphenyl	9.363	154	782223	43.175	ng		100
47) 2-Chloronaphthalene	9.386	162	580508	43.368	ng		98
48) 2-Nitroaniline	9.481	65	169375	43.777	ng		98
49) Acenaphthylene	9.804	152	966376	42.755	ng		100
50) Dimethylphthalate	9.663	163	663411	43.054	ng		100
51) 2,6-Dinitrotoluene	9.722	165	146601	44.081	ng		99
52) Acenaphthene	9.975	154	647101	46.885	ng		98
53) 3-Nitroaniline	9.892	138	68290	18.800	ng		96
54) 2,4-Dinitrophenol	9.998	184	162358	94.494	ng		93
55) Dibenzofuran	10.145	168	835708	42.078	ng		99
56) 4-Nitrophenol	10.051	139	232388	86.705	ng		98
57) 2,4-Dinitrotoluene	10.128	165	196609	45.268	ng		100
58) Fluorene	10.492	166	644728	42.019	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.263	232	166679	41.881	ng		98
60) Diethylphthalate	10.363	149	645000	42.860	ng		99
61) 4-Chlorophenyl-phenyle...	10.480	204	314568	41.734	ng		98
62) 4-Nitroaniline	10.510	138	141101	42.830	ng		96
63) Azobenzene	10.639	77	613439	45.384	ng		99
65) 4,6-Dinitro-2-methylph...	10.533	198	102404	48.726	ng		99
66) n-Nitrosodiphenylamine	10.598	169	558179	43.324	ng		99
67) 4-Bromophenyl-phenylether	10.975	248	192522	43.235	ng		98
68) Hexachlorobenzene	11.039	284	212135	43.073	ng		99
69) Atrazine	11.128	200	166454	48.648	ng		100
70) Pentachlorophenol	11.233	266	236131	84.922	ng		100
71) Phenanthrene	11.457	178	866540	43.057	ng		100
72) Anthracene	11.510	178	876073	42.653	ng		100
73) Carbazole	11.657	167	760532	43.312	ng		100
74) Di-n-butylphthalate	11.986	149	894989	46.565	ng		100
75) Fluoranthene	12.645	202	782953	41.635	ng		99
77) Benzidine	12.763	184	279867	36.824	ng		99
78) Pyrene	12.874	202	777772	40.824	ng		100
80) Butylbenzylphthalate	13.486	149	285871	54.303	ng		100
81) Benzo(a)anthracene	14.063	228	596751	43.758	ng		99
82) 3,3'-Dichlorobenzidine	14.021	252	88980	21.511	ng		98
83) Chrysene	14.098	228	538958	43.981	ng		99
84) Bis(2-ethylhexyl)phtha...	14.045	149	378894	56.222	ng		99
85) Di-n-octyl phthalate	14.663	149	640360	48.596	ng	#	100
87) Indeno(1,2,3-cd)pyrene	17.086	276	753995	42.741	ng		99
88) Benzo(b)fluoranthene	15.127	252	582813	41.907	ng		99
89) Benzo(k)fluoranthene	15.157	252	593433	45.559	ng		99
90) Benzo(a)pyrene	15.504	252	584344	44.576	ng		99
91) Dibenzo(a,h)anthracene	17.104	278	611507	42.740	ng		99
92) Benzo(g,h,i)perylene	17.545	276	599741	41.909	ng		98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF053025\
Data File : BF142572.D
Acq On : 30 May 2025 16:19
Operator : RC/JU
Sample : Q2150-09MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-54MSD

Quant Time: May 30 17:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 20 16:26:47 2025
Response via : Initial Calibration



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

Manual Integration Report

Sequence:	bf052025	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BF142469.D	Benzoic acid	Rahul	5/21/2025 2:07:30 PM	Jagrut	5/21/2025 4:43:55 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bf053025	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB168211BS	BF142568.D	Caprolactam	Rahul	6/2/2025 9:37:32 AM	Jagrut	6/2/2025 11:12:45 AM	Peak Integrated by Software
Q2150-09MS	BF142571.D	Caprolactam	Rahul	6/2/2025 9:37:36 AM	Jagrut	6/2/2025 11:12:47 AM	Peak Integrated by Software
Q2150-09MSD	BF142572.D	Caprolactam	Rahul	6/2/2025 9:37:39 AM	Jagrut	6/2/2025 11:12:50 AM	Peak Integrated by Software
Q2150-03	BF142580.D	Benzo(b)fluoranthene	Rahul	6/2/2025 9:37:55 AM	Jagrut	6/2/2025 11:13:22 AM	Peak Integrated by Software
Q2150-02	BF142583.D	Benzo(b)fluoranthene	Rahul	6/2/2025 9:37:58 AM	Jagrut	6/2/2025 11:13:24 AM	Peak Integrated by Software
Q2150-06	BF142584.D	Benzo(b)fluoranthene	Rahul	6/2/2025 9:38:01 AM	Jagrut	6/2/2025 11:13:26 AM	Peak Integrated by Software
Q2150-06	BF142584.D	Benzo(k)fluoranthene	Rahul	6/2/2025 9:38:01 AM	Jagrut	6/2/2025 11:13:26 AM	Peak Integrated by Software
Q2150-08	BF142585.D	Benzo(b)fluoranthene	Rahul	6/2/2025 9:38:05 AM	Jagrut	6/2/2025 11:13:28 AM	Peak Integrated by Software
Q2150-08	BF142585.D	Benzo(k)fluoranthene	Rahul	6/2/2025 9:38:05 AM	Jagrut	6/2/2025 11:13:28 AM	Peak Integrated by Software
Q2150-01	BF142586.D	Benzo(b)fluoranthene	Rahul	6/2/2025 9:38:08 AM	Jagrut	6/2/2025 11:13:31 AM	Peak Integrated by Software
Q2150-01	BF142586.D	Benzo(k)fluoranthene	Rahul	6/2/2025 9:38:08 AM	Jagrut	6/2/2025 11:13:31 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF060225	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2150-01DL	BF142598.D	Benzo(b)fluoranthene	Rahul	6/3/2025 1:29:44 PM	Jagrut	6/3/2025 5:25:08 PM	Peak Integrated by Software
Q2150-01DL	BF142598.D	Benzo(k)fluoranthene	Rahul	6/3/2025 1:29:44 PM	Jagrut	6/3/2025 5:25:08 PM	Peak Integrated by Software

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052025

Review By	Rahul	Review On	5/21/2025 2:52:20 PM				
Supervise By	Jagrut	Supervise On	5/21/2025 4:44:06 PM				
SubDirectory	BF052025	HP Acquire Method	BNA_F		HP Processing Method	bf052025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12665,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142465.D	20 May 2025 11:13	RC/JU	Ok
2	SSTDCCC040	BF142466.D	20 May 2025 11:41	RC/JU	Not Ok
3	SSTDICC2.5	BF142467.D	20 May 2025 12:10	RC/JU	Ok
4	SSTDICC005	BF142468.D	20 May 2025 12:38	RC/JU	Ok
5	SSTDICC010	BF142469.D	20 May 2025 13:07	RC/JU	Ok,M
6	SSTDICC020	BF142470.D	20 May 2025 13:36	RC/JU	Ok
7	SSTDICCC040	BF142471.D	20 May 2025 14:05	RC/JU	Ok
8	SSTDICC050	BF142472.D	20 May 2025 14:34	RC/JU	Ok
9	SSTDICC060	BF142473.D	20 May 2025 15:03	RC/JU	Ok
10	SSTDICC080	BF142474.D	20 May 2025 15:31	RC/JU	Ok
11	SSTDICV040	BF142475.D	20 May 2025 16:31	RC/JU	Ok
12	PB168067TB	BF142476.D	20 May 2025 17:29	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF053025

Review By	Rahul	Review On	6/2/2025 9:40:01 AM				
Supervise By	Jagrut	Supervise On	6/2/2025 11:13:47 AM				
SubDirectory	BF053025	HP Acquire Method	BNA_F		HP Processing Method	bf052025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142565.D	30 May 2025 12:23	RC/JU	Ok
2	SSTDCCC040	BF142566.D	30 May 2025 13:20	RC/JU	Ok
3	PB168211BL	BF142567.D	30 May 2025 13:49	RC/JU	Ok
4	PB168211BS	BF142568.D	30 May 2025 14:18	RC/JU	Ok,M
5	Q2150-05	BF142569.D	30 May 2025 14:52	RC/JU	Ok
6	Q2150-09	BF142570.D	30 May 2025 15:21	RC/JU	Ok
7	Q2150-09MS	BF142571.D	30 May 2025 15:50	RC/JU	Ok,M
8	Q2150-09MSD	BF142572.D	30 May 2025 16:19	RC/JU	Ok,M
9	Q2151-01	BF142573.D	30 May 2025 16:49	RC/JU	Ok
10	Q2136-05	BF142574.D	30 May 2025 17:18	RC/JU	Ok
11	Q2136-05MS	BF142575.D	30 May 2025 17:47	RC/JU	Ok,M
12	Q2136-05MSD	BF142576.D	30 May 2025 18:16	RC/JU	Ok,M
13	Q2146-04	BF142577.D	30 May 2025 18:46	RC/JU	Ok
14	Q2151-04	BF142578.D	30 May 2025 19:15	RC/JU	Ok,M
15	Q2150-07	BF142579.D	30 May 2025 19:45	RC/JU	Ok
16	Q2150-03	BF142580.D	30 May 2025 20:14	RC/JU	Ok,M
17	Q2150-04	BF142581.D	30 May 2025 20:43	RC/JU	Ok
18	Q2150-10	BF142582.D	30 May 2025 21:13	RC/JU	Ok
19	Q2150-02	BF142583.D	30 May 2025 21:42	RC/JU	Ok,M
20	Q2150-06	BF142584.D	30 May 2025 22:11	RC/JU	Ok,M
21	Q2150-08	BF142585.D	30 May 2025 22:41	RC/JU	Ok,M

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF053025

Review By	Rahul	Review On	6/2/2025 9:40:01 AM		
Supervise By	Jagrut	Supervise On	6/2/2025 11:13:47 AM		
SubDirectory	BF053025	HP Acquire Method	BNA_F	HP Processing Method	bf052025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2150-01	BF142586.D	30 May 2025 23:10	RC/JU	Dilution
23	Q2153-01	BF142587.D	30 May 2025 23:41	RC/JU	Ok,M
24	Q2152-01	BF142588.D	31 May 2025 00:10	RC/JU	Ok,M

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF060225

Review By	Rahul	Review On	6/3/2025 1:30:43 PM				
Supervise By	Jagrut	Supervise On	6/3/2025 5:25:27 PM				
SubDirectory	BF060225	HP Acquire Method	BNA_F		HP Processing Method	bf052025	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142589.D	02 Jun 2025 11:01	RC/JU	Ok
2	SSTDCCC040	BF142590.D	02 Jun 2025 11:30	RC/JU	Ok
3	PB168219BL	BF142591.D	02 Jun 2025 11:59	RC/JU	Ok
4	PB168219BS	BF142592.D	02 Jun 2025 12:28	RC/JU	Ok,M
5	PB168190TB	BF142593.D	02 Jun 2025 12:57	RC/JU	Ok
6	PB168235BL	BF142594.D	02 Jun 2025 13:26	RC/JU	Ok
7	PB168235BS	BF142595.D	02 Jun 2025 13:54	RC/JU	Ok,M
8	PB168235BSD	BF142596.D	02 Jun 2025 14:23	RC/JU	Ok,M
9	Q2134-01	BF142597.D	02 Jun 2025 15:05	RC/JU	Ok
10	Q2150-01DL	BF142598.D	02 Jun 2025 15:34	RC/JU	Ok,M
11	Q2149-01	BF142599.D	02 Jun 2025 16:03	RC/JU	Dilution
12	Q2149-01DL	BF142600.D	02 Jun 2025 17:11	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF052025

Review By	Rahul	Review On	5/21/2025 2:52:20 PM		
Supervise By	Jagrut	Supervise On	5/21/2025 4:44:06 PM		
SubDirectory	BF052025	HP Acquire Method	BNA_F	HP Processing Method	bf052025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12665,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142465.D	20 May 2025 11:13		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142466.D	20 May 2025 11:41	Fresh Calibration Required	RC/JU	Not Ok
3	SSTDICC2.5	SSTDICC2.5	BF142467.D	20 May 2025 12:10		RC/JU	Ok
4	SSTDICC005	SSTDICC005	BF142468.D	20 May 2025 12:38	Compound #32,54,85 removed from 5ppm	RC/JU	Ok
5	SSTDICC010	SSTDICC010	BF142469.D	20 May 2025 13:07		RC/JU	Ok,M
6	SSTDICC020	SSTDICC020	BF142470.D	20 May 2025 13:36		RC/JU	Ok
7	SSTDICCC040	SSTDICCC040	BF142471.D	20 May 2025 14:05	This calibration is good for both the methods, 8270E DOD and 625.1.	RC/JU	Ok
8	SSTDICC050	SSTDICC050	BF142472.D	20 May 2025 14:34		RC/JU	Ok
9	SSTDICC060	SSTDICC060	BF142473.D	20 May 2025 15:03		RC/JU	Ok
10	SSTDICC080	SSTDICC080	BF142474.D	20 May 2025 15:31		RC/JU	Ok
11	SSTDICV040	ICVBF052025	BF142475.D	20 May 2025 16:31		RC/JU	Ok
12	PB168067TB	PB168067TB	BF142476.D	20 May 2025 17:29		RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF053025

Review By	Rahul	Review On	6/2/2025 9:40:01 AM		
Supervise By	Jagrut	Supervise On	6/2/2025 11:13:47 AM		
SubDirectory	BF053025	HP Acquire Method	BNA_F	HP Processing Method	bf052025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142565.D	30 May 2025 12:23		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142566.D	30 May 2025 13:20		RC/JU	Ok
3	PB168211BL	PB168211BL	BF142567.D	30 May 2025 13:49		RC/JU	Ok
4	PB168211BS	PB168211BS	BF142568.D	30 May 2025 14:18		RC/JU	Ok,M
5	Q2150-05	TP-47	BF142569.D	30 May 2025 14:52		RC/JU	Ok
6	Q2150-09	TP-54	BF142570.D	30 May 2025 15:21		RC/JU	Ok
7	Q2150-09MS	TP-54MS	BF142571.D	30 May 2025 15:50		RC/JU	Ok,M
8	Q2150-09MSD	TP-54MSD	BF142572.D	30 May 2025 16:19		RC/JU	Ok,M
9	Q2151-01	WC-1	BF142573.D	30 May 2025 16:49		RC/JU	Ok
10	Q2136-05	OR-646-COMP-52	BF142574.D	30 May 2025 17:18		RC/JU	Ok
11	Q2136-05MS	OR-646-COMP-52MS	BF142575.D	30 May 2025 17:47		RC/JU	Ok,M
12	Q2136-05MSD	OR-646-COMP-52MSD	BF142576.D	30 May 2025 18:16		RC/JU	Ok,M
13	Q2146-04	TP04-MHN-WC	BF142577.D	30 May 2025 18:46		RC/JU	Ok
14	Q2151-04	WC-1	BF142578.D	30 May 2025 19:15		RC/JU	Ok,M
15	Q2150-07	TP-51	BF142579.D	30 May 2025 19:45		RC/JU	Ok
16	Q2150-03	TP-39	BF142580.D	30 May 2025 20:14		RC/JU	Ok,M
17	Q2150-04	TP-48	BF142581.D	30 May 2025 20:43		RC/JU	Ok
18	Q2150-10	TP-53	BF142582.D	30 May 2025 21:13		RC/JU	Ok

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF053025

Review By	Rahul	Review On	6/2/2025 9:40:01 AM		
Supervise By	Jagrut	Supervise On	6/2/2025 11:13:47 AM		
SubDirectory	BF053025	HP Acquire Method	BNA_F	HP Processing Method	bf052025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2150-02	TP-42	BF142583.D	30 May 2025 21:42		RC/JU	Ok,M
20	Q2150-06	TP-50	BF142584.D	30 May 2025 22:11		RC/JU	Ok,M
21	Q2150-08	TP-52	BF142585.D	30 May 2025 22:41		RC/JU	Ok,M
22	Q2150-01	TP-44	BF142586.D	30 May 2025 23:10	Need 5X Dilution	RC/JU	Dilution
23	Q2153-01	TR-04-0592025	BF142587.D	30 May 2025 23:41		RC/JU	Ok,M
24	Q2152-01	OK-02-05292025	BF142588.D	31 May 2025 00:10		RC/JU	Ok,M

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF060225

Review By	Rahul	Review On	6/3/2025 1:30:43 PM		
Supervise By	Jagrut	Supervise On	6/3/2025 5:25:27 PM		
SubDirectory	BF060225	HP Acquire Method	BNA_F	HP Processing Method	bf052025

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142589.D	02 Jun 2025 11:01		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142590.D	02 Jun 2025 11:30		RC/JU	Ok
3	PB168219BL	PB168219BL	BF142591.D	02 Jun 2025 11:59		RC/JU	Ok
4	PB168219BS	PB168219BS	BF142592.D	02 Jun 2025 12:28		RC/JU	Ok,M
5	PB168190TB	PB168190TB	BF142593.D	02 Jun 2025 12:57		RC/JU	Ok
6	PB168235BL	PB168235BL	BF142594.D	02 Jun 2025 13:26		RC/JU	Ok
7	PB168235BS	PB168235BS	BF142595.D	02 Jun 2025 13:54		RC/JU	Ok,M
8	PB168235BSD	PB168235BSD	BF142596.D	02 Jun 2025 14:23		RC/JU	Ok,M
9	Q2134-01	MW10	BF142597.D	02 Jun 2025 15:05		RC/JU	Ok
10	Q2150-01DL	TP-44DL	BF142598.D	02 Jun 2025 15:34		RC/JU	Ok,M
11	Q2149-01	FILTER-CAKE	BF142599.D	02 Jun 2025 16:03	Need 5X Dilution	RC/JU	Dilution
12	Q2149-01DL	FILTER-CAKEDL	BF142600.D	02 Jun 2025 17:11		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168211

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	05/30/2025
Matrix :	Solid			**Extraction Start Time :**	09:50
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	05/30/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	12:50
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	RUPESH

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

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6782
Surrogate	1.0ML	100/150 PPM	SP6754
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2612
Baked Na2SO4	N/A	EP2614
Sand	N/A	EP2865
Methylene Chloride	N/A	E3939
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210443.

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

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/30/25	RS (Ext Lab)	RC/svor
12:55	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168211

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 05/30/2025

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168211BL	SBLK211	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1			U3-1
PB168211BS	SLCS211	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			2
Q2150-01	TP-44	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		3
Q2150-02	TP-42	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		4
Q2150-03	TP-39	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	E		5
Q2150-04	TP-48	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		6
Q2150-05	TP-47	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	E		U6-1
Q2150-06	TP-50	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		2
Q2150-07	TP-51	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		3
Q2150-08	TP-52	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		4
Q2150-09	TP-54	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1	E		5
Q2150-09MS	TP-54MS	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		6
Q2150-09MSD	TP-54MSD	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	E		U2-1
Q2150-10	TP-53	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		2
Q2151-01	WC-1	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	E		3
Q2152-01	OK-02-05292025	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	E		4
Q2153-01	TR-04-0592025	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E		5

RS
5/30

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

16821
9:50

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2152 **WorkList ID :** 189839 **Department :** Extraction **Date :** 05-30-2025 08:43:26

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2150-01	TP-44	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/27/2025	8270E
Q2150-02	TP-42	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/27/2025	8270E
Q2150-03	TP-39	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/27/2025	8270E
Q2150-04	TP-48	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/27/2025	8270E
Q2150-05	TP-47	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/27/2025	8270E
Q2150-06	TP-50	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/27/2025	8270E
Q2150-07	TP-51	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/27/2025	8270E
Q2150-08	TP-52	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/28/2025	8270E
Q2150-09	TP-54	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/28/2025	8270E
Q2150-10	TP-53	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/28/2025	8270E
Q2151-01	WC-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/29/2025	8270E
Q2152-01	OK-02-05292025	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	L21	05/29/2025	8270E
Q2153-01	TR-04-0592025	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	L31	05/29/2025	8270E

Date/Time 05/30/25 9:45
Raw Sample Received by: RJ (FEDEX-Carb)
Raw Sample Relinquished by: SM

Date/Time 05/30/25 10:05
Raw Sample Received by: SM
Raw Sample Relinquished by: RJ (FEDEX-Carb)

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

LAB CHRONICLE

OrderID:	Q2150	**OrderDate:**	5/28/2025 3:53:00 PM
Client:	CDM Smith	**Project:**	South River WM Replacement
Contact:	Marcie Ann Encinas	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2150-01	**TP-44**	**SOIL**			**05/27/25**			**05/28/25**
			SVOC-TCL BNA -20	8270E		05/30/25	05/30/25	
Q2150-01DL	**TP-44DL**	**SOIL**			**05/27/25**			**05/28/25**
			SVOC-TCL BNA -20	8270E		05/30/25	06/02/25	
Q2150-02	**TP-42**	**SOIL**			**05/27/25**			**05/28/25**
			SVOC-TCL BNA -20	8270E		05/30/25	05/30/25	
Q2150-03	**TP-39**	**SOIL**			**05/27/25**			**05/28/25**
			SVOC-TCL BNA -20	8270E		05/30/25	05/30/25	
Q2150-04	**TP-48**	**SOIL**			**05/27/25**			**05/28/25**
			SVOC-TCL BNA -20	8270E		05/30/25	05/30/25	
Q2150-05	**TP-47**	**SOIL**			**05/27/25**			**05/28/25**
			SVOC-TCL BNA -20	8270E		05/30/25	05/30/25	
Q2150-06	**TP-50**	**SOIL**			**05/27/25**			**05/28/25**
			SVOC-TCL BNA -20	8270E		05/30/25	05/30/25	
Q2150-07	**TP-51**	**SOIL**			**05/27/25**			**05/28/25**
			SVOC-TCL BNA -20	8270E		05/30/25	05/30/25	
Q2150-08	**TP-52**	**SOIL**			**05/28/25**			**05/28/25**
			SVOC-TCL BNA -20	8270E		05/30/25	05/30/25	
Q2150-09	**TP-54**	**SOIL**			**05/28/25**			**05/28/25**
			SVOC-TCL BNA -20	8270E		05/30/25	05/30/25	
Q2150-10	**TP-53**	**SOIL**			**05/28/25**			**05/28/25**
			SVOC-TCL BNA -20	8270E		05/30/25	05/30/25	