

Hit Summary Sheet SW-846

SDG No.: Q1982
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-1								
Q1982-01	TP-1	SOIL	Bis(2-ethylhexyl)phthalate	180.000	J	73	210	ug/Kg
Total Svoc :				180.00				
Q1982-01	TP-1	SOIL	Cycloeicosane	*	190.000	J	0	ug/Kg
Q1982-01	TP-1	SOIL	n-Hexadecanoic acid	*	390.000	J	0	ug/Kg
Q1982-01	TP-1	SOIL	Octadecanoic acid	*	100.000	J	0	ug/Kg
Q1982-01	TP-1	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	280.000	AB	0	ug/Kg
Q1982-01	TP-1	SOIL	Benzophenone	*	330.000	J	0	ug/Kg
Total Tics :				1,290.00				
Total Concentration:				1,470.00				
Client ID : TP-2B								
Q1982-02	TP-2B	SOIL	Bis(2-ethylhexyl)phthalate	180.000	J	69.6	200	ug/Kg
Total Svoc :				180.00				
Q1982-02	TP-2B	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB	0	ug/Kg
Q1982-02	TP-2B	SOIL	Benzophenone	*	290.000	J	0	ug/Kg
Q1982-02	TP-2B	SOIL	n-Hexadecanoic acid	*	230.000	J	0	ug/Kg
Q1982-02	TP-2B	SOIL	Pentadecafluorooctanoic acid, pen	*	150.000	J	0	ug/Kg
Total Tics :				920.00				
Total Concentration:				1,100.00				
Client ID : TP-3								
Q1982-03	TP-3	SOIL	Bis(2-ethylhexyl)phthalate	170.000	J	65.1	190	ug/Kg
Total Svoc :				170.00				
Q1982-03	TP-3	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	290.000	AB	0	ug/Kg
Q1982-03	TP-3	SOIL	Benzophenone	*	250.000	J	0	ug/Kg
Q1982-03	TP-3	SOIL	Cycloeicosane	*	140.000	J	0	ug/Kg
Q1982-03	TP-3	SOIL	n-Hexadecanoic acid	*	370.000	J	0	ug/Kg
Total Tics :				1,050.00				
Total Concentration:				1,220.00				
Client ID : TP-4								
Q1982-04	TP-4	SOIL	Fluorene	100.000	J	28.9	190	ug/Kg
Q1982-04	TP-4	SOIL	Phenanthrene	230.000		23.9	190	ug/Kg
Q1982-04	TP-4	SOIL	Anthracene	92.800	J	38.1	190	ug/Kg
Q1982-04	TP-4	SOIL	Fluoranthene	510.000		34.3	190	ug/Kg
Q1982-04	TP-4	SOIL	Pyrene	450.000		41.2	190	ug/Kg
Q1982-04	TP-4	SOIL	Benzo(a)anthracene	290.000		26.3	190	ug/Kg
Q1982-04	TP-4	SOIL	Chrysene	260.000		22.8	190	ug/Kg
Q1982-04	TP-4	SOIL	Bis(2-ethylhexyl)phthalate	180.000	J	67.7	190	ug/Kg

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Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1982-04	TP-4	SOIL	Benzo(b)fluoranthene	380.000		21.7	190	ug/Kg
Q1982-04	TP-4	SOIL	Benzo(k)fluoranthene	110.000	J	25.6	190	ug/Kg
Q1982-04	TP-4	SOIL	Benzo(a)pyrene	280.000		33.7	190	ug/Kg
Q1982-04	TP-4	SOIL	Indeno(1,2,3-cd)pyrene	110.000	J	33.3	190	ug/Kg
Q1982-04	TP-4	SOIL	Benzo(g,h,i)perylene	140.000	J	29.4	190	ug/Kg
Total Svoc :				3,132.80				
Q1982-04	TP-4	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	260.000	AB	0	0	ug/Kg
Q1982-04	TP-4	SOIL	4H-Cyclopenta[def]phenanthrene *	140.000	J	0	0	ug/Kg
Q1982-04	TP-4	SOIL	n-Hexadecanoic acid *	310.000	J	0	0	ug/Kg
Q1982-04	TP-4	SOIL	Benzophenone *	140.000	J	0	0	ug/Kg
Q1982-04	TP-4	SOIL	Fluoranthene, 2-methyl- *	98.700	J	0	0	ug/Kg
Q1982-04	TP-4	SOIL	Heptafluorobutyric acid, pentadec *	140.000	J	0	0	ug/Kg
Total Tics :				1,088.70				
Total Concentration:				4,221.50				
Client ID : TP-5								
Q1982-05	TP-5	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	240.000	AB	0	0	ug/Kg
Q1982-05	TP-5	SOIL	5-Bromo-4-oxo-4,5,6,7-tetrahydrc *	490.000	J	0	0	ug/Kg
Q1982-05	TP-5	SOIL	Benzophenone *	97.900	J	0	0	ug/Kg
Q1982-05	TP-5	SOIL	n-Hexadecanoic acid *	190.000	J	0	0	ug/Kg
Q1982-05	TP-5	SOIL	Trifluoroacetoxy hexadecane *	120.000	J	0	0	ug/Kg
Total Tics :				1,137.90				
Total Concentration:				1,137.90				
Client ID : TP-6								
Q1982-06	TP-6	SOIL	2,4a,8,8-Tetramethyldecahydrocyc *	180.000	J	0	0	ug/Kg
Q1982-06	TP-6	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	260.000	AB	0	0	ug/Kg
Q1982-06	TP-6	SOIL	Benzophenone *	130.000	J	0	0	ug/Kg
Q1982-06	TP-6	SOIL	Heptafluorobutyric acid, hexadecy *	120.000	J	0	0	ug/Kg
Q1982-06	TP-6	SOIL	n-Hexadecanoic acid *	230.000	J	0	0	ug/Kg
Total Tics :				920.00				
Total Concentration:				920.00				
Client ID : TP-8								
Q1982-07	TP-8	SOIL	Bis(2-ethylhexyl)phthalate	170.000	J	70.5	200	ug/Kg
Total Svoc :				170.00				
Q1982-07	TP-8	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	260.000	AB	0	0	ug/Kg
Q1982-07	TP-8	SOIL	Benzophenone *	130.000	J	0	0	ug/Kg
Q1982-07	TP-8	SOIL	Heptafluorobutyric acid, n-tetradec *	140.000	J	0	0	ug/Kg
Q1982-07	TP-8	SOIL	n-Hexadecanoic acid *	210.000	J	0	0	ug/Kg
Total Tics :				740.00				
Total Concentration:				910.00				

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SDG No.: Q1982
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-9								
Q1982-08	TP-9	SOIL	Fluoranthene	120.000	J	36.8	210	ug/Kg
Q1982-08	TP-9	SOIL	Pyrene	230.000		44.2	210	ug/Kg
Q1982-08	TP-9	SOIL	Chrysene	90.400	J	24.4	210	ug/Kg
Q1982-08	TP-9	SOIL	Benzo(b)fluoranthene	130.000	J	23.3	210	ug/Kg
Q1982-08	TP-9	SOIL	Benzo(a)pyrene	140.000	J	36.2	210	ug/Kg
Q1982-08	TP-9	SOIL	Benzo(g,h,i)perylene	120.000	J	31.5	210	ug/Kg
Total Svoc :				830.40				
Q1982-08	TP-9	SOIL	2(1H)-Phenanthrenone, 3,4,4a,4b, *	120.000	J	0	0	ug/Kg
Q1982-08	TP-9	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	190.000	AB	0	0	ug/Kg
Q1982-08	TP-9	SOIL	Benzophenone *	140.000	J	0	0	ug/Kg
Q1982-08	TP-9	SOIL	Cyclopentadecane *	150.000	J	0	0	ug/Kg
Q1982-08	TP-9	SOIL	D:A-Friedooleanan-3-ol, (3.alpha. *	270.000	J	0	0	ug/Kg
Q1982-08	TP-9	SOIL	n-Hexadecanoic acid *	310.000	J	0	0	ug/Kg
Total Tics :				1,180.00				
Total Concentration:				2,010.40				



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-1	SDG No.:	Q1982
Lab Sample ID:	Q1982-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	80.9
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	GPC Cleanup :	N
		Level :	LOW
		Test:	SVOC-TCL BNA -20
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142364.D	1	05/12/25 09:38	05/14/25 14:23	PB167953

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	30.0	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	58.5	U	58.5	98.7	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	43.7	U	43.7	210	ug/Kg
87-68-3	Hexachlorobutadiene	31.2	U	31.2	210	ug/Kg
105-60-2	Caprolactam	64.3	U	64.3	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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-1	SDG No.:	Q1982
Lab Sample ID:	Q1982-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	80.9
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142364.D	1	05/12/25 09:38	05/14/25 14:23	PB167953

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	UQ	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	UQ	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	63.3	UQ	63.3	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	88.1	U	88.1	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	45.3	U	45.3	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	180	J	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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-1	SDG No.:	Q1982
Lab Sample ID:	Q1982-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	80.9
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142364.D	1	05/12/25 09:38	05/14/25 14:23	PB167953

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	87.9		18 - 112	59%	SPK: 150
13127-88-3	Phenol-d6	88.6		15 - 107	59%	SPK: 150
4165-60-0	Nitrobenzene-d5	59.0		18 - 107	59%	SPK: 100
321-60-8	2-Fluorobiphenyl	53.8		20 - 109	54%	SPK: 100
118-79-6	2,4,6-Tribromophenol	106		10 - 116	70%	SPK: 150
1718-51-0	Terphenyl-d14	45.5		10 - 105	45%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	171000	6.898
1146-65-2	Naphthalene-d8	666000	8.181
15067-26-2	Acenaphthene-d10	370000	9.933
1517-22-2	Phenanthrene-d10	718000	11.422
1719-03-5	Chrysene-d12	612000	14.063
1520-96-3	Perylene-d12	504000	15.551

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	280	AB	5.11	ug/Kg
000119-61-9	Benzophenone	330	J	10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	390	J	12.0	ug/Kg
000057-11-4	Octadecanoic acid	100	J	12.7	ug/Kg
000296-56-0	Cycloeicosane	190	J	13.9	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-1	SDG No.:	Q1982
Lab Sample ID:	Q1982-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	80.9
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142364.D	1	05/12/25 09:38	05/14/25 14:23	PB167953

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-2B	SDG No.:	Q1982
Lab Sample ID:	Q1982-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85
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
BF142378.D	1	05/12/25 09:38	05/14/25 21:06	PB167953

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	26.0	U	26.0	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.6	U	28.6	200	ug/Kg
95-57-8	2-Chlorophenol	28.7	U	28.7	200	ug/Kg
95-48-7	2-Methylphenol	35.1	U	35.1	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	44.1	U	44.1	200	ug/Kg
98-86-2	Acetophenone	34.7	U	34.7	200	ug/Kg
65794-96-9	3+4-Methylphenols	48.3	U	48.3	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.7	U	55.7	94.0	ug/Kg
67-72-1	Hexachloroethane	20.7	U	20.7	200	ug/Kg
98-95-3	Nitrobenzene	21.5	U	21.5	200	ug/Kg
78-59-1	Isophorone	38.5	U	38.5	200	ug/Kg
88-75-5	2-Nitrophenol	68.4	U	68.4	200	ug/Kg
105-67-9	2,4-Dimethylphenol	76.2	U	76.2	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	36.2	U	36.2	200	ug/Kg
120-83-2	2,4-Dichlorophenol	33.3	U	33.3	200	ug/Kg
91-20-3	Naphthalene	26.7	U	26.7	200	ug/Kg
106-47-8	4-Chloroaniline	41.6	U	41.6	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.7	U	29.7	200	ug/Kg
105-60-2	Caprolactam	61.2	U	61.2	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.7	U	33.7	200	ug/Kg
91-57-6	2-Methylnaphthalene	30.1	U	30.1	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.3	U	23.3	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.2	U	34.2	200	ug/Kg
92-52-4	1,1-Biphenyl	25.6	U	25.6	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.4	U	26.4	200	ug/Kg
88-74-4	2-Nitroaniline	56.5	U	56.5	200	ug/Kg
131-11-3	Dimethylphthalate	31.9	U	31.9	200	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-2B	SDG No.:	Q1982
Lab Sample ID:	Q1982-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85
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
BF142378.D	1	05/12/25 09:38	05/14/25 21:06	PB167953

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	34.0	U	34.0	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	39.5	U	39.5	200	ug/Kg
99-09-2	3-Nitroaniline	54.1	U	54.1	200	ug/Kg
83-32-9	Acenaphthene	25.0	U	25.0	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	26.7	U	26.7	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	58.9	UQ	58.9	200	ug/Kg
84-66-2	Diethylphthalate	33.3	U	33.3	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	31.4	U	31.4	200	ug/Kg
86-73-7	Fluorene	29.7	U	29.7	200	ug/Kg
100-01-6	4-Nitroaniline	75.5	UQ	75.5	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.7	U	38.7	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.7	U	32.7	200	ug/Kg
118-74-1	Hexachlorobenzene	29.7	U	29.7	200	ug/Kg
1912-24-9	Atrazine	40.0	U	40.0	200	ug/Kg
87-86-5	Pentachlorophenol	60.3	UQ	60.3	390	ug/Kg
85-01-8	Phenanthrene	24.6	U	24.6	200	ug/Kg
120-12-7	Anthracene	39.1	U	39.1	200	ug/Kg
86-74-8	Carbazole	36.7	U	36.7	200	ug/Kg
84-74-2	Di-n-butylphthalate	56.3	U	56.3	200	ug/Kg
206-44-0	Fluoranthene	35.3	U	35.3	200	ug/Kg
129-00-0	Pyrene	42.3	U	42.3	200	ug/Kg
85-68-7	Butylbenzylphthalate	83.9	U	83.9	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	43.1	U	43.1	390	ug/Kg
56-55-3	Benzo(a)anthracene	27.0	U	27.0	200	ug/Kg
218-01-9	Chrysene	23.4	U	23.4	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	180	J	69.6	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.3	U	22.3	200	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-2B	SDG No.:	Q1982
Lab Sample ID:	Q1982-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	GPC Cleanup :	N
		Level :	LOW
		Test:	SVOC-TCL BNA -20
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142378.D	1	05/12/25 09:38	05/14/25 21:06	PB167953

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.3	U	26.3	200	ug/Kg
50-32-8	Benzo(a)pyrene	34.7	U	34.7	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	34.2	U	34.2	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	32.2	U	32.2	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	30.2	U	30.2	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	30.1	U	30.1	200	ug/Kg
123-91-1	1,4-Dioxane	53.1	U	53.1	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	32.2	U	32.2	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	77.3		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	81.0		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	54.3		18 - 107	54%	SPK: 100
321-60-8	2-Fluorobiphenyl	49.1		20 - 109	49%	SPK: 100
118-79-6	2,4,6-Tribromophenol	94.8		10 - 116	63%	SPK: 150
1718-51-0	Terphenyl-d14	49.7		10 - 105	50%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	214000	6.898			
1146-65-2	Naphthalene-d8	843000	8.181			
15067-26-2	Acenaphthene-d10	499000	9.939			
1517-22-2	Phenanthrene-d10	916000	11.422			
1719-03-5	Chrysene-d12	568000	14.063			
1520-96-3	Perylene-d12	471000	15.551			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB		5.11	ug/Kg
000119-61-9	Benzophenone	290	J		10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	230	J		12.0	ug/Kg
1000406-04-5	Pentadecafluorooctanoic acid, pent	150	J		13.9	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-2B	SDG No.:	Q1982
Lab Sample ID:	Q1982-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	85
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
BF142378.D	1	05/12/25 09:38	05/14/25 21:06	PB167953

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-3	SDG No.:	Q1982
Lab Sample ID:	Q1982-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.7
Sample Wt/Vol:	30.09	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	GPC Cleanup :	N
		Level :	LOW
		Test:	SVOC-TCL BNA -20
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142365.D	1	05/12/25 09:38	05/14/25 14:51	PB167953

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	360	ug/Kg
108-95-2	Phenol	24.3	U	24.3	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	26.7	U	26.7	190	ug/Kg
95-57-8	2-Chlorophenol	26.8	U	26.8	190	ug/Kg
95-48-7	2-Methylphenol	32.9	U	32.9	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	41.2	U	41.2	190	ug/Kg
98-86-2	Acetophenone	32.4	U	32.4	190	ug/Kg
65794-96-9	3+4-Methylphenols	45.2	U	45.2	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	52.1	U	52.1	87.9	ug/Kg
67-72-1	Hexachloroethane	19.3	U	19.3	190	ug/Kg
98-95-3	Nitrobenzene	20.1	U	20.1	190	ug/Kg
78-59-1	Isophorone	36.1	U	36.1	190	ug/Kg
88-75-5	2-Nitrophenol	64.0	U	64.0	190	ug/Kg
105-67-9	2,4-Dimethylphenol	71.2	U	71.2	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	33.9	U	33.9	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.1	U	31.1	190	ug/Kg
91-20-3	Naphthalene	25.0	U	25.0	190	ug/Kg
106-47-8	4-Chloroaniline	38.9	U	38.9	190	ug/Kg
87-68-3	Hexachlorobutadiene	27.8	U	27.8	190	ug/Kg
105-60-2	Caprolactam	57.3	U	57.3	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.5	U	31.5	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.1	U	28.1	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	21.8	U	21.8	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.0	U	32.0	190	ug/Kg
92-52-4	1,1-Biphenyl	24.0	U	24.0	190	ug/Kg
91-58-7	2-Chloronaphthalene	24.7	U	24.7	190	ug/Kg
88-74-4	2-Nitroaniline	52.9	U	52.9	190	ug/Kg
131-11-3	Dimethylphthalate	29.8	U	29.8	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-3	SDG No.:	Q1982
Lab Sample ID:	Q1982-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.7
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142365.D	1	05/12/25 09:38	05/14/25 14:51	PB167953

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	31.8	U	31.8	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	36.9	U	36.9	190	ug/Kg
99-09-2	3-Nitroaniline	50.6	U	50.6	190	ug/Kg
83-32-9	Acenaphthene	23.4	U	23.4	190	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	360	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	360	ug/Kg
132-64-9	Dibenzofuran	25.0	U	25.0	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	55.1	UQ	55.1	190	ug/Kg
84-66-2	Diethylphthalate	31.1	U	31.1	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.3	U	29.3	190	ug/Kg
86-73-7	Fluorene	27.8	U	27.8	190	ug/Kg
100-01-6	4-Nitroaniline	70.6	UQ	70.6	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.2	U	36.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.6	U	30.6	190	ug/Kg
118-74-1	Hexachlorobenzene	27.8	U	27.8	190	ug/Kg
1912-24-9	Atrazine	37.4	U	37.4	190	ug/Kg
87-86-5	Pentachlorophenol	56.4	UQ	56.4	360	ug/Kg
85-01-8	Phenanthrene	23.0	U	23.0	190	ug/Kg
120-12-7	Anthracene	36.6	U	36.6	190	ug/Kg
86-74-8	Carbazole	34.3	U	34.3	190	ug/Kg
84-74-2	Di-n-butylphthalate	52.7	U	52.7	190	ug/Kg
206-44-0	Fluoranthene	33.0	U	33.0	190	ug/Kg
129-00-0	Pyrene	39.6	U	39.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	78.5	U	78.5	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.3	U	40.3	360	ug/Kg
56-55-3	Benzo(a)anthracene	25.3	U	25.3	190	ug/Kg
218-01-9	Chrysene	21.9	U	21.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	170	J	65.1	190	ug/Kg
117-84-0	Di-n-octyl phthalate	95.4	U	95.4	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	20.9	U	20.9	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-3	SDG No.:	Q1982
Lab Sample ID:	Q1982-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.7
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142365.D	1	05/12/25 09:38	05/14/25 14:51	PB167953

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	24.6	U	24.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	32.4	U	32.4	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.0	U	32.0	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.1	U	30.1	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	28.3	U	28.3	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.1	U	28.1	190	ug/Kg
123-91-1	1,4-Dioxane	49.7	U	49.7	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.1	U	30.1	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	96.2		18 - 112	64%	SPK: 150
13127-88-3	Phenol-d6	97.0		15 - 107	65%	SPK: 150
4165-60-0	Nitrobenzene-d5	65.2		18 - 107	65%	SPK: 100
321-60-8	2-Fluorobiphenyl	58.1		20 - 109	58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	118		10 - 116	79%	SPK: 150
1718-51-0	Terphenyl-d14	51.1		10 - 105	51%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	187000	6.898			
1146-65-2	Naphthalene-d8	720000	8.181			
15067-26-2	Acenaphthene-d10	397000	9.939			
1517-22-2	Phenanthrene-d10	760000	11.422			
1719-03-5	Chrysene-d12	625000	14.063			
1520-96-3	Perylene-d12	500000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	290	AB		5.12	ug/Kg
000119-61-9	Benzophenone	250	J		10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	370	J		12.0	ug/Kg
000296-56-0	Cycloeicosane	140	J		13.9	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-3	SDG No.:	Q1982
Lab Sample ID:	Q1982-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.7
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142365.D	1	05/12/25 09:38	05/14/25 14:51	PB167953

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-4	SDG No.:	Q1982
Lab Sample ID:	Q1982-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	GPC Cleanup :	N
		Level :	LOW
		Test:	SVOC-TCL BNA -20
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142413.D	1	05/12/25 09:38	05/16/25 01:27	PB167953

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	25.3	U	25.3	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.8	U	27.8	190	ug/Kg
95-57-8	2-Chlorophenol	27.9	U	27.9	190	ug/Kg
95-48-7	2-Methylphenol	34.2	U	34.2	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	42.9	U	42.9	190	ug/Kg
98-86-2	Acetophenone	33.7	U	33.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	47.0	U	47.0	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	54.2	U	54.2	91.5	ug/Kg
67-72-1	Hexachloroethane	20.1	U	20.1	190	ug/Kg
98-95-3	Nitrobenzene	20.9	U	20.9	190	ug/Kg
78-59-1	Isophorone	37.5	U	37.5	190	ug/Kg
88-75-5	2-Nitrophenol	66.5	U	66.5	190	ug/Kg
105-67-9	2,4-Dimethylphenol	74.1	U	74.1	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.2	U	35.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	32.4	U	32.4	190	ug/Kg
91-20-3	Naphthalene	26.0	U	26.0	190	ug/Kg
106-47-8	4-Chloroaniline	40.5	U	40.5	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.9	U	28.9	190	ug/Kg
105-60-2	Caprolactam	59.6	U	59.6	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	32.8	U	32.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	29.3	U	29.3	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.6	U	22.6	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.3	U	33.3	190	ug/Kg
92-52-4	1,1-Biphenyl	24.9	U	24.9	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.7	U	25.7	190	ug/Kg
88-74-4	2-Nitroaniline	55.0	U	55.0	190	ug/Kg
131-11-3	Dimethylphthalate	31.0	U	31.0	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-4	SDG No.:	Q1982
Lab Sample ID:	Q1982-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142413.D	1	05/12/25 09:38	05/16/25 01:27	PB167953

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.0	U	33.0	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.4	U	38.4	190	ug/Kg
99-09-2	3-Nitroaniline	52.6	U	52.6	190	ug/Kg
83-32-9	Acenaphthene	24.4	U	24.4	190	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	26.0	U	26.0	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	57.3	UQ	57.3	190	ug/Kg
84-66-2	Diethylphthalate	32.4	U	32.4	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.5	U	30.5	190	ug/Kg
86-73-7	Fluorene	100	J	28.9	190	ug/Kg
100-01-6	4-Nitroaniline	73.4	UQ	73.4	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.6	U	37.6	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	31.8	U	31.8	190	ug/Kg
118-74-1	Hexachlorobenzene	28.9	U	28.9	190	ug/Kg
1912-24-9	Atrazine	38.9	U	38.9	190	ug/Kg
87-86-5	Pentachlorophenol	58.7	UQ	58.7	380	ug/Kg
85-01-8	Phenanthrene	230		23.9	190	ug/Kg
120-12-7	Anthracene	92.8	J	38.1	190	ug/Kg
86-74-8	Carbazole	35.7	U	35.7	190	ug/Kg
84-74-2	Di-n-butylphthalate	54.8	U	54.8	190	ug/Kg
206-44-0	Fluoranthene	510		34.3	190	ug/Kg
129-00-0	Pyrene	450		41.2	190	ug/Kg
85-68-7	Butylbenzylphthalate	81.6	U	81.6	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.0	U	42.0	380	ug/Kg
56-55-3	Benzo(a)anthracene	290		26.3	190	ug/Kg
218-01-9	Chrysene	260		22.8	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	180	J	67.7	190	ug/Kg
117-84-0	Di-n-octyl phthalate	99.2	U	99.2	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	380		21.7	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-4	SDG No.:	Q1982
Lab Sample ID:	Q1982-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142413.D	1	05/12/25 09:38	05/16/25 01:27	PB167953

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	110	J	25.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	280		33.7	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	110	J	33.3	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.3	U	31.3	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	140	J	29.4	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.3	U	29.3	190	ug/Kg
123-91-1	1,4-Dioxane	51.7	U	51.7	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.3	U	31.3	190	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	79.9		18 - 112	53%	SPK: 150
13127-88-3	Phenol-d6	79.6		15 - 107	53%	SPK: 150
4165-60-0	Nitrobenzene-d5	56.8		18 - 107	57%	SPK: 100
321-60-8	2-Fluorobiphenyl	56.2		20 - 109	56%	SPK: 100
118-79-6	2,4,6-Tribromophenol	79.6		10 - 116	53%	SPK: 150
1718-51-0	Terphenyl-d14	50.1		10 - 105	50%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	176000	6.904
1146-65-2	Naphthalene-d8	649000	8.186
15067-26-2	Acenaphthene-d10	309000	9.939
1517-22-2	Phenanthrene-d10	450000	11.427
1719-03-5	Chrysene-d12	299000	14.068
1520-96-3	Perylene-d12	225000	15.557

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	260	AB	5.12	ug/Kg
000119-61-9	Benzophenone	140	J	10.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	310	J	12.0	ug/Kg
000203-64-5	4H-Cyclopenta[def]phenanthrene	140	J	12.0	ug/Kg
033543-31-6	Fluoranthene, 2-methyl-	98.7	J	13.2	ug/Kg
959261-23-5	Heptafluorobutyric acid, pentadecy	140	J	13.9	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-4	SDG No.:	Q1982
Lab Sample ID:	Q1982-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	87.4
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	SVOC-TCL BNA -20
	Decanted :	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
BF142413.D	1	05/12/25 09:38	05/16/25 01:27	PB167953

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-5	SDG No.:	Q1982
Lab Sample ID:	Q1982-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.9
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
BF142408.D	1	05/12/25 09:38	05/15/25 23:01	PB167953

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	170	U	170	370	ug/Kg
108-95-2	Phenol	24.6	U	24.6	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.0	U	27.0	190	ug/Kg
95-57-8	2-Chlorophenol	27.1	U	27.1	190	ug/Kg
95-48-7	2-Methylphenol	33.2	U	33.2	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	41.7	U	41.7	190	ug/Kg
98-86-2	Acetophenone	32.8	U	32.8	190	ug/Kg
65794-96-9	3+4-Methylphenols	45.7	U	45.7	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	52.7	U	52.7	89.0	ug/Kg
67-72-1	Hexachloroethane	19.6	U	19.6	190	ug/Kg
98-95-3	Nitrobenzene	20.3	U	20.3	190	ug/Kg
78-59-1	Isophorone	36.5	U	36.5	190	ug/Kg
88-75-5	2-Nitrophenol	64.7	U	64.7	190	ug/Kg
105-67-9	2,4-Dimethylphenol	72.1	U	72.1	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	34.2	U	34.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	31.5	U	31.5	190	ug/Kg
91-20-3	Naphthalene	25.2	U	25.2	190	ug/Kg
106-47-8	4-Chloroaniline	39.4	U	39.4	190	ug/Kg
87-68-3	Hexachlorobutadiene	28.1	U	28.1	190	ug/Kg
105-60-2	Caprolactam	57.9	U	57.9	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	31.9	U	31.9	190	ug/Kg
91-57-6	2-Methylnaphthalene	28.5	U	28.5	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.0	U	22.0	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	32.4	U	32.4	190	ug/Kg
92-52-4	1,1-Biphenyl	24.2	U	24.2	190	ug/Kg
91-58-7	2-Chloronaphthalene	25.0	U	25.0	190	ug/Kg
88-74-4	2-Nitroaniline	53.5	U	53.5	190	ug/Kg
131-11-3	Dimethylphthalate	30.1	U	30.1	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-5	SDG No.:	Q1982
Lab Sample ID:	Q1982-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.9
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
BF142408.D	1	05/12/25 09:38	05/15/25 23:01	PB167953

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	32.1	U	32.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	37.4	U	37.4	190	ug/Kg
99-09-2	3-Nitroaniline	51.2	U	51.2	190	ug/Kg
83-32-9	Acenaphthene	23.7	U	23.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	370	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	370	ug/Kg
132-64-9	Dibenzofuran	25.2	U	25.2	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	55.7	UQ	55.7	190	ug/Kg
84-66-2	Diethylphthalate	31.5	U	31.5	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	29.7	U	29.7	190	ug/Kg
86-73-7	Fluorene	28.1	U	28.1	190	ug/Kg
100-01-6	4-Nitroaniline	71.4	UQ	71.4	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	110	U	110	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	36.6	U	36.6	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	30.9	U	30.9	190	ug/Kg
118-74-1	Hexachlorobenzene	28.1	U	28.1	190	ug/Kg
1912-24-9	Atrazine	37.8	U	37.8	190	ug/Kg
87-86-5	Pentachlorophenol	57.0	UQ	57.0	370	ug/Kg
85-01-8	Phenanthrene	23.2	U	23.2	190	ug/Kg
120-12-7	Anthracene	37.0	U	37.0	190	ug/Kg
86-74-8	Carbazole	34.7	U	34.7	190	ug/Kg
84-74-2	Di-n-butylphthalate	53.3	U	53.3	190	ug/Kg
206-44-0	Fluoranthene	33.4	U	33.4	190	ug/Kg
129-00-0	Pyrene	40.0	U	40.0	190	ug/Kg
85-68-7	Butylbenzylphthalate	79.4	U	79.4	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	40.8	U	40.8	370	ug/Kg
56-55-3	Benzo(a)anthracene	25.6	U	25.6	190	ug/Kg
218-01-9	Chrysene	22.1	U	22.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	65.8	U	65.8	190	ug/Kg
117-84-0	Di-n-octyl phthalate	96.5	U	96.5	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.1	U	21.1	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-5	SDG No.:	Q1982
Lab Sample ID:	Q1982-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.9
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
BF142408.D	1	05/12/25 09:38	05/15/25 23:01	PB167953

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	24.9	U	24.9	190	ug/Kg
50-32-8	Benzo(a)pyrene	32.8	U	32.8	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	32.4	U	32.4	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	30.5	U	30.5	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	28.6	U	28.6	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	28.5	U	28.5	190	ug/Kg
123-91-1	1,4-Dioxane	50.3	U	50.3	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	30.5	U	30.5	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	79.9		18 - 112	53%	SPK: 150
13127-88-3	Phenol-d6	80.6		15 - 107	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	54.7		18 - 107	55%	SPK: 100
321-60-8	2-Fluorobiphenyl	51.1		20 - 109	51%	SPK: 100
118-79-6	2,4,6-Tribromophenol	81.5		10 - 116	54%	SPK: 150
1718-51-0	Terphenyl-d14	39.2		10 - 105	39%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	157000	6.898			
1146-65-2	Naphthalene-d8	595000	8.181			
15067-26-2	Acenaphthene-d10	309000	9.939			
1517-22-2	Phenanthrene-d10	472000	11.422			
1719-03-5	Chrysene-d12	353000	14.063			
1520-96-3	Perylene-d12	255000	15.551			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	240	AB		5.12	ug/Kg
000119-61-9	Benzophenone	97.9	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	190	J		11.9	ug/Kg
300574-36-1	5-Bromo-4-oxo-4,5,6,7-tetrahydrobe	490	J		13.8	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	120	J		13.9	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-5	SDG No.:	Q1982
Lab Sample ID:	Q1982-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	89.9
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
BF142408.D	1	05/12/25 09:38	05/15/25 23:01	PB167953

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-6	SDG No.:	Q1982
Lab Sample ID:	Q1982-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.2
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	GPC Cleanup :	N
		Level :	LOW
		Test:	SVOC-TCL BNA -20
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142399.D	1	05/12/25 09:38	05/15/25 18:40	PB167953

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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-6	SDG No.:	Q1982
Lab Sample ID:	Q1982-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.2
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Level :	LOW
		GPC Cleanup :	N
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142399.D	1	05/12/25 09:38	05/15/25 18:40	PB167953

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	UQ	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	UQ	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	UQ	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	34.7	U	34.7	200	ug/Kg
129-00-0	Pyrene	41.7	U	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	22.0	U	22.0	200	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-6	SDG No.:	Q1982
Lab Sample ID:	Q1982-06	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
BF142399.D	1	05/12/25 09:38	05/15/25 18:40	PB167953

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	84.8		18 - 112	57%	SPK: 150
13127-88-3	Phenol-d6	84.2		15 - 107	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	58.5		18 - 107	59%	SPK: 100
321-60-8	2-Fluorobiphenyl	51.8		20 - 109	52%	SPK: 100
118-79-6	2,4,6-Tribromophenol	94.6		10 - 116	63%	SPK: 150
1718-51-0	Terphenyl-d14	49.5		10 - 105	49%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	163000	6.898	
1146-65-2	Naphthalene-d8	622000	8.181	
15067-26-2	Acenaphthene-d10	335000	9.934	
1517-22-2	Phenanthrene-d10	592000	11.422	
1719-03-5	Chrysene-d12	358000	14.063	
1520-96-3	Perylene-d12	362000	15.551	

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	260	AB	5.12	ug/Kg
000119-61-9	Benzophenone	130	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	230	J	11.9	ug/Kg
074022-04-1	2,4a,8,8-Tetramethyldecahydrocyclo	180	J	13.8	ug/Kg
006385-15-5	Heptafluorobutyric acid, hexadecyl	120	J	13.9	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-6	SDG No.:	Q1982
Lab Sample ID:	Q1982-06	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
BF142399.D	1	05/12/25 09:38	05/15/25 18:40	PB167953

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-8	SDG No.:	Q1982
Lab Sample ID:	Q1982-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
Sample Wt/Vol:	30.09	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	GPC Cleanup :	N
		Level :	LOW
		Test:	SVOC-TCL BNA -20
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142406.D	1	05/12/25 09:38	05/15/25 22:04	PB167953

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	28.9	U	28.9	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	35.1	U	35.1	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

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-8	SDG No.:	Q1982
Lab Sample ID:	Q1982-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142406.D	1	05/12/25 09:38	05/15/25 22:04	PB167953

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	UQ	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	UQ	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	UQ	61.1	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	57.1	U	57.1	200	ug/Kg
206-44-0	Fluoranthene	35.7	U	35.7	200	ug/Kg
129-00-0	Pyrene	42.9	U	42.9	200	ug/Kg
85-68-7	Butylbenzylphthalate	85.0	U	85.0	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	170	J	70.5	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.6	U	22.6	200	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-8	SDG No.:	Q1982
Lab Sample ID:	Q1982-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
Sample Wt/Vol:	30.09	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	GPC Cleanup :	N
		Level :	LOW
		Test:	SVOC-TCL BNA -20
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142406.D	1	05/12/25 09:38	05/15/25 22:04	PB167953

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	35.1	U	35.1	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	53.8	U	53.8	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	83.4		18 - 112	56%	SPK: 150
13127-88-3	Phenol-d6	82.3		15 - 107	55%	SPK: 150
4165-60-0	Nitrobenzene-d5	56.9		18 - 107	57%	SPK: 100
321-60-8	2-Fluorobiphenyl	54.8		20 - 109	55%	SPK: 100
118-79-6	2,4,6-Tribromophenol	91.7		10 - 116	61%	SPK: 150
1718-51-0	Terphenyl-d14	44.8		10 - 105	45%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	160000	6.898			
1146-65-2	Naphthalene-d8	605000	8.181			
15067-26-2	Acenaphthene-d10	321000	9.939			
1517-22-2	Phenanthrene-d10	518000	11.422			
1719-03-5	Chrysene-d12	356000	14.063			
1520-96-3	Perylene-d12	279000	15.551			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	260	AB		5.12	ug/Kg
000119-61-9	Benzophenone	130	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	210	J		11.9	ug/Kg
007365-36-8	Heptafluorobutyric acid, n-tetradecanoic	140	J		13.9	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-8	SDG No.:	Q1982
Lab Sample ID:	Q1982-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	83.7
Sample Wt/Vol:	30.09	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	SVOC-TCL BNA -20
	Decanted :	Level :	LOW
Injection Volume :		GPC Factor :	1.0
		GPC Cleanup :	N
Prep Method :	SW3541	PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142406.D	1	05/12/25 09:38	05/15/25 22:04	PB167953

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-9	SDG No.:	Q1982
Lab Sample ID:	Q1982-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81.3
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Final Vol:	1000 uL
		Test:	SVOC-TCL BNA -20
		Level :	LOW
		GPC Cleanup :	N
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024647.D	1	05/13/25 09:05	05/15/25 21:25	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	400	ug/Kg
108-95-2	Phenol	27.1	U	27.1	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.8	U	29.8	210	ug/Kg
95-57-8	2-Chlorophenol	29.9	U	29.9	210	ug/Kg
95-48-7	2-Methylphenol	36.7	U	36.7	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	46.0	U	46.0	210	ug/Kg
98-86-2	Acetophenone	36.2	U	36.2	210	ug/Kg
65794-96-9	3+4-Methylphenols	50.4	U	50.4	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	58.2	U	58.2	98.2	ug/Kg
67-72-1	Hexachloroethane	21.6	U	21.6	210	ug/Kg
98-95-3	Nitrobenzene	22.5	U	22.5	210	ug/Kg
78-59-1	Isophorone	40.3	U	40.3	210	ug/Kg
88-75-5	2-Nitrophenol	71.4	U	71.4	210	ug/Kg
105-67-9	2,4-Dimethylphenol	79.5	U	79.5	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	37.8	U	37.8	210	ug/Kg
120-83-2	2,4-Dichlorophenol	34.7	U	34.7	210	ug/Kg
91-20-3	Naphthalene	27.9	U	27.9	210	ug/Kg
106-47-8	4-Chloroaniline	43.4	U	43.4	210	ug/Kg
87-68-3	Hexachlorobutadiene	31.0	U	31.0	210	ug/Kg
105-60-2	Caprolactam	63.9	U	63.9	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	35.2	U	35.2	210	ug/Kg
91-57-6	2-Methylnaphthalene	31.4	U	31.4	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	24.3	U	24.3	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	35.7	U	35.7	210	ug/Kg
92-52-4	1,1-Biphenyl	26.8	U	26.8	210	ug/Kg
91-58-7	2-Chloronaphthalene	27.6	U	27.6	210	ug/Kg
88-74-4	2-Nitroaniline	59.0	U	59.0	210	ug/Kg
131-11-3	Dimethylphthalate	33.3	U	33.3	210	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-9	SDG No.:	Q1982
Lab Sample ID:	Q1982-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024647.D	1	05/13/25 09:05	05/15/25 21:25	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	35.5	U	35.5	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	41.2	U	41.2	210	ug/Kg
99-09-2	3-Nitroaniline	56.4	U	56.4	210	ug/Kg
83-32-9	Acenaphthene	26.1	U	26.1	210	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	400	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	400	ug/Kg
132-64-9	Dibenzofuran	27.9	U	27.9	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	61.5	U	61.5	210	ug/Kg
84-66-2	Diethylphthalate	34.7	U	34.7	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	32.8	U	32.8	210	ug/Kg
86-73-7	Fluorene	31.0	U	31.0	210	ug/Kg
100-01-6	4-Nitroaniline	78.8	U	78.8	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	40.4	U	40.4	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	34.1	U	34.1	210	ug/Kg
118-74-1	Hexachlorobenzene	31.0	U	31.0	210	ug/Kg
1912-24-9	Atrazine	41.7	U	41.7	210	ug/Kg
87-86-5	Pentachlorophenol	63.0	UQ	63.0	400	ug/Kg
85-01-8	Phenanthrene	25.6	U	25.6	210	ug/Kg
120-12-7	Anthracene	40.9	U	40.9	210	ug/Kg
86-74-8	Carbazole	38.3	U	38.3	210	ug/Kg
84-74-2	Di-n-butylphthalate	58.8	U	58.8	210	ug/Kg
206-44-0	Fluoranthene	120	J	36.8	210	ug/Kg
129-00-0	Pyrene	230		44.2	210	ug/Kg
85-68-7	Butylbenzylphthalate	87.6	U	87.6	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	45.0	U	45.0	400	ug/Kg
56-55-3	Benzo(a)anthracene	28.2	U	28.2	210	ug/Kg
218-01-9	Chrysene	90.4	J	24.4	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	72.6	U	72.6	210	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	130	J	23.3	210	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-9	SDG No.:	Q1982
Lab Sample ID:	Q1982-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024647.D	1	05/13/25 09:05	05/15/25 21:25	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	27.5	U	27.5	210	ug/Kg
50-32-8	Benzo(a)pyrene	140	J	36.2	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	35.7	U	35.7	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	33.6	U	33.6	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	120	J	31.5	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	31.4	U	31.4	210	ug/Kg
123-91-1	1,4-Dioxane	55.5	U	55.5	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	33.6	U	33.6	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	80.9		18 - 112	54%	SPK: 150
13127-88-3	Phenol-d6	79.9		15 - 107	53%	SPK: 150
4165-60-0	Nitrobenzene-d5	44.5		18 - 107	45%	SPK: 100
321-60-8	2-Fluorobiphenyl	44.5		20 - 109	45%	SPK: 100
118-79-6	2,4,6-Tribromophenol	77.1		10 - 116	51%	SPK: 150
1718-51-0	Terphenyl-d14	42.0		10 - 105	42%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	166000		7.663		
1146-65-2	Naphthalene-d8	644000		10.428		
15067-26-2	Acenaphthene-d10	391000		14.292		
1517-22-2	Phenanthrene-d10	756000		17.092		
1719-03-5	Chrysene-d12	888000		21.516		
1520-96-3	Perylene-d12	1080000		24.804		
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	190	AB		4.83	ug/Kg
000119-61-9	Benzophenone	140	J		15.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	310	J		18.0	ug/Kg
007715-44-8	2(1H)-Phenanthrenone, 3,4,4a,4b,5,	120	J		20.3	ug/Kg
000295-48-7	Cyclopentadecane	150	J		21.2	ug/Kg
005085-72-3	D:A-Friedooleanan-3-ol, (3.alpha.)	270	J		21.7	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/07/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-9	SDG No.:	Q1982
Lab Sample ID:	Q1982-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	81.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024647.D	1	05/13/25 09:05	05/15/25 21:25	PB167973

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

Surrogate Summary

SW-846

SDG No.: Q1982

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB167953BL	PB167953BL	2-Fluorophenol	150	121	81		18	112
		Phenol-d6	150	118	79		15	107
		Nitrobenzene-d5	100	82.6	83		18	107
		2-Fluorobiphenyl	100	75.0	75		20	109
		2,4,6-Tribromophenol	150	132	88		10	116
		Terphenyl-d14	100	75.6	76		10	105
PB167953BS	PB167953BS	2-Fluorophenol	150	121	81		18	112
		Phenol-d6	150	120	80		15	107
		Nitrobenzene-d5	100	83.1	83		18	107
		2-Fluorobiphenyl	100	73.4	73		20	109
		2,4,6-Tribromophenol	150	141	94		10	116
		Terphenyl-d14	100	77.8	78		10	105
Q1982-01	TP-1	2-Fluorophenol	150	87.9	59		18	112
		Phenol-d6	150	88.6	59		15	107
		Nitrobenzene-d5	100	59.0	59		18	107
		2-Fluorobiphenyl	100	53.8	54		20	109
		2,4,6-Tribromophenol	150	106	70		10	116
		Terphenyl-d14	100	45.5	45		10	105
Q1982-02	TP-2B	2-Fluorophenol	150	77.3	52		18	112
		Phenol-d6	150	81.0	54		15	107
		Nitrobenzene-d5	100	54.3	54		18	107
		2-Fluorobiphenyl	100	49.1	49		20	109
		2,4,6-Tribromophenol	150	94.8	63		10	116
		Terphenyl-d14	100	49.7	50		10	105
Q1982-03	TP-3	2-Fluorophenol	150	96.2	64		18	112
		Phenol-d6	150	97.0	65		15	107
		Nitrobenzene-d5	100	65.2	65		18	107
		2-Fluorobiphenyl	100	58.1	58		20	109
		2,4,6-Tribromophenol	150	118	79		10	116
		Terphenyl-d14	100	51.1	51		10	105
Q1982-03MS	TP-3MS	2-Fluorophenol	150	76.3	51		18	112
		Phenol-d6	150	79.0	53		15	107
		Nitrobenzene-d5	100	50.2	50		18	107
		2-Fluorobiphenyl	100	45.9	46		20	109
		2,4,6-Tribromophenol	150	92.6	62		10	116
		Terphenyl-d14	100	44.4	44		10	105
Q1982-03MSD	TP-3MSD	2-Fluorophenol	150	76.0	51		18	112
		Phenol-d6	150	77.9	52		15	107
		Nitrobenzene-d5	100	50.0	50		18	107
		2-Fluorobiphenyl	100	45.5	45		20	109
		2,4,6-Tribromophenol	150	89.1	59		10	116
		Terphenyl-d14	100	44.1	44		10	105
Q1982-04	TP-4	2-Fluorophenol	150	79.9	53		18	112
		Phenol-d6	150	79.6	53		15	107
		Nitrobenzene-d5	100	56.8	57		18	107
		2-Fluorobiphenyl	100	56.2	56		20	109
		2,4,6-Tribromophenol	150	79.6	53		10	116
		Terphenyl-d14	100	50.1	50		10	105
Q1982-05	TP-5	2-Fluorophenol	150	79.9	53		18	112
		Phenol-d6	150	80.6	54		15	107
		Nitrobenzene-d5	100	54.7	55		18	107

Surrogate Summary

SW-846

SDG No.: Q1982

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q1982-05	TP-5	2-Fluorobiphenyl	100	51.1	51		20	109
		2,4,6-Tribromophenol	150	81.5	54		10	116
		Terphenyl-d14	100	39.2	39		10	105
Q1982-06	TP-6	2-Fluorophenol	150	84.8	57		18	112
		Phenol-d6	150	84.2	56		15	107
		Nitrobenzene-d5	100	58.5	59		18	107
Q1982-07	TP-8	2-Fluorobiphenyl	100	51.8	52		20	109
		2,4,6-Tribromophenol	150	94.6	63		10	116
		Terphenyl-d14	100	49.5	49		10	105
		2-Fluorophenol	150	83.4	56		18	112
		Phenol-d6	150	82.3	55		15	107
		Nitrobenzene-d5	100	56.9	57		18	107
		2-Fluorobiphenyl	100	54.8	55		20	109
		2,4,6-Tribromophenol	150	91.7	61		10	116
		Terphenyl-d14	100	44.8	45		10	105

Surrogate Summary

SW-846

SDG No.: Q1982

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB167973BL	PB167973BL	2-Fluorophenol	150	144	96		18	112
		Phenol-d6	150	137	92		15	107
		Nitrobenzene-d5	100	82.1	82		18	107
		2-Fluorobiphenyl	100	78.7	79		20	109
		2,4,6-Tribromophenol	150	144	96		10	116
		Terphenyl-d14	100	84.5	85		10	105
PB167973BS	PB167973BS	2-Fluorophenol	150	134	89		18	112
		Phenol-d6	150	133	89		15	107
		Nitrobenzene-d5	100	75.8	76		18	107
		2-Fluorobiphenyl	100	74.5	74		20	109
		2,4,6-Tribromophenol	150	134	89		10	116
		Terphenyl-d14	100	76.0	76		10	105
Q1982-08	TP-9	2-Fluorophenol	150	80.9	54		18	112
		Phenol-d6	150	79.9	53		15	107
		Nitrobenzene-d5	100	44.5	45		18	107
		2-Fluorobiphenyl	100	44.5	45		20	109
		2,4,6-Tribromophenol	150	77.1	51		10	116
		Terphenyl-d14	100	42.0	42		10	105
Q2010-02MS	TP-13MS	2-Fluorophenol	150	88.5	59		18	112
		Phenol-d6	150	85.6	57		15	107
		Nitrobenzene-d5	100	50.9	51		18	107
		2-Fluorobiphenyl	100	50.9	51		20	109
		2,4,6-Tribromophenol	150	87.7	58		10	116
		Terphenyl-d14	100	48.7	49		10	105
Q2010-02MSD	TP-13MSD	2-Fluorophenol	150	90.4	60		18	112
		Phenol-d6	150	88.1	59		15	107
		Nitrobenzene-d5	100	52.4	52		18	107
		2-Fluorobiphenyl	100	50.9	51		20	109
		2,4,6-Tribromophenol	150	86.5	58		10	116
		Terphenyl-d14	100	49.8	50		10	105

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1982

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q1982-03MS	Client Sample ID:	TP-3MS					DataFile:	BF142366.D		
Benzaldehyde	1800	0	1500	ug/Kg	83				10	86	
Phenol	1800	0	1800	ug/Kg	100				67	126	
bis(2-Chloroethyl)ether	1800	0	1300	ug/Kg	72				54	125	
2-Chlorophenol	1800	0	1700	ug/Kg	94				79	107	
2-Methylphenol	1800	0	1600	ug/Kg	89				66	122	
2,2-oxybis(1-Chloropropane)	1800	0	1500	ug/Kg	83				65	110	
Acetophenone	1800	0	1500	ug/Kg	83				75	111	
3+4-Methylphenols	1800	0	1700	ug/Kg	94				66	104	
N-Nitroso-di-n-propylamine	1800	0	1600	ug/Kg	89				59	119	
Hexachloroethane	1800	0	1600	ug/Kg	89				65	117	
Nitrobenzene	1800	0	1700	ug/Kg	94				70	119	
Isophorone	1800	0	1600	ug/Kg	89				76	122	
2-Nitrophenol	1800	0	1800	ug/Kg	100				54	145	
2,4-Dimethylphenol	1800	0	1600	ug/Kg	89				44	135	
bis(2-Chloroethoxy)methane	1800	0	1500	ug/Kg	83				68	112	
2,4-Dichlorophenol	1800	0	1700	ug/Kg	94				72	118	
Naphthalene	1800	0	1500	ug/Kg	83				72	110	
4-Chloroaniline	1800	0	640	ug/Kg	36				10	91	
Hexachlorobutadiene	1800	0	1500	ug/Kg	83				66	114	
Caprolactam	1800	0	2100	ug/Kg	117				51	134	
4-Chloro-3-methylphenol	1800	0	1800	ug/Kg	100				57	132	
2-Methylnaphthalene	1800	0	1600	ug/Kg	89				59	123	
Hexachlorocyclopentadiene	3700	0	3100	ug/Kg	84				10	175	
2,4,6-Trichlorophenol	1800	0	1700	ug/Kg	94				72	117	
2,4,5-Trichlorophenol	1800	0	1700	ug/Kg	94				72	117	
1,1-Biphenyl	1800	0	1500	ug/Kg	83				75	113	
2-Chloronaphthalene	1800	0	1500	ug/Kg	83				67	118	
2-Nitroaniline	1800	0	1900	ug/Kg	106				69	127	
Dimethylphthalate	1800	0	1700	ug/Kg	94				70	113	
Acenaphthylene	1800	0	1600	ug/Kg	89				79	118	
2,6-Dinitrotoluene	1800	0	1900	ug/Kg	106				70	125	
3-Nitroaniline	1800	0	1400	ug/Kg	78				30	99	
Acenaphthene	1800	0	1700	ug/Kg	94				70	121	
2,4-Dinitrophenol	3700	0	4400	ug/Kg	119				10	155	
4-Nitrophenol	3700	0	4400	ug/Kg	119				45	133	
Dibenzofuran	1800	0	1600	ug/Kg	89				72	110	
2,4-Dinitrotoluene	1800	0	2200	ug/Kg	122				55	128	
Diethylphthalate	1800	0	1700	ug/Kg	94				70	112	
4-Chlorophenyl-phenylether	1800	0	1600	ug/Kg	89				71	108	
Fluorene	1800	0	1600	ug/Kg	89				68	116	
4-Nitroaniline	1800	0	2400	ug/Kg	133	*			55	120	
4,6-Dinitro-2-methylphenol	1800	0	2000	ug/Kg	111				10	160	
N-Nitrosodiphenylamine	1800	0	1500	ug/Kg	83				73	118	
4-Bromophenyl-phenylether	1800	0	1500	ug/Kg	83				65	121	
Hexachlorobenzene	1800	0	1600	ug/Kg	89				67	118	
Atrazine	1800	0	1900	ug/Kg	106				79	127	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1982

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	3700	0	3800	ug/Kg	103				47	128	
Phenanthrene	1800	0	1500	ug/Kg	83				52	128	
Anthracene	1800	0	1500	ug/Kg	83				62	124	
Carbazole	1800	0	1600	ug/Kg	89				59	119	
Di-n-butylphthalate	1800	0	1900	ug/Kg	106				69	118	
Fluoranthene	1800	0	1700	ug/Kg	94				44	125	
Pyrene	1800	0	1400	ug/Kg	78				26	142	
Butylbenzylphthalate	1800	0	2000	ug/Kg	111				64	126	
3,3-Dichlorobenzidine	1800	0	1400	ug/Kg	78				33	116	
Benzo(a)anthracene	1800	0	1600	ug/Kg	89				71	114	
Chrysene	1800	0	1500	ug/Kg	83				57	121	
bis(2-Ethylhexyl)phthalate	1800	170	2100	ug/Kg	107				42	169	
Di-n-octyl phthalate	1800	0	1900	ug/Kg	106				23	175	
Benzo(b)fluoranthene	1800	0	1800	ug/Kg	100				67	121	
Benzo(k)fluoranthene	1800	0	1500	ug/Kg	83				57	134	
Benzo(a)pyrene	1800	0	1700	ug/Kg	94				70	142	
Indeno(1,2,3-cd)pyrene	1800	0	1300	ug/Kg	72				40	129	
Dibenz(a,h)anthracene	1800	0	1300	ug/Kg	72				43	123	
Benzo(g,h,i)perylene	1800	0	1200	ug/Kg	67				24	125	
1,2,4,5-Tetrachlorobenzene	1800	0	1400	ug/Kg	78				69	124	
1,4-Dioxane	1800	0	1300	ug/Kg	72				46	112	
2,3,4,6-Tetrachlorophenol	1800	0	1900	ug/Kg	106				69	112	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1982

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q1982-03MSD	Client Sample ID:	TP-3MSD					DataFile:	BF142367.D		
Benzaldehyde	1800	0	1500	ug/Kg	83	0			10	86	20
Phenol	1800	0	1700	ug/Kg	94	6			67	126	20
bis(2-Chloroethyl)ether	1800	0	1300	ug/Kg	72	0			54	125	20
2-Chlorophenol	1800	0	1700	ug/Kg	94	0			79	107	20
2-Methylphenol	1800	0	1600	ug/Kg	89	0			66	122	20
2,2-oxybis(1-Chloropropane)	1800	0	1500	ug/Kg	83	0			65	110	20
Acetophenone	1800	0	1500	ug/Kg	83	0			75	111	20
3+4-Methylphenols	1800	0	1600	ug/Kg	89	5			66	104	20
N-Nitroso-di-n-propylamine	1800	0	1600	ug/Kg	89	0			59	119	20
Hexachloroethane	1800	0	1600	ug/Kg	89	0			65	117	20
Nitrobenzene	1800	0	1600	ug/Kg	89	5			70	119	20
Isophorone	1800	0	1600	ug/Kg	89	0			76	122	20
2-Nitrophenol	1800	0	1800	ug/Kg	100	0			54	145	20
2,4-Dimethylphenol	1800	0	1600	ug/Kg	89	0			44	135	20
bis(2-Chloroethoxy)methane	1800	0	1500	ug/Kg	83	0			68	112	20
2,4-Dichlorophenol	1800	0	1700	ug/Kg	94	0			72	118	20
Naphthalene	1800	0	1500	ug/Kg	83	0			72	110	20
4-Chloroaniline	1800	0	710	ug/Kg	39	8			10	91	20
Hexachlorobutadiene	1800	0	1500	ug/Kg	83	0			66	114	20
Caprolactam	1800	0	2000	ug/Kg	111	5			51	134	20
4-Chloro-3-methylphenol	1800	0	1700	ug/Kg	94	6			57	132	20
2-Methylnaphthalene	1800	0	1600	ug/Kg	89	0			59	123	20
Hexachlorocyclopentadiene	3700	0	3200	ug/Kg	86	2			10	175	20
2,4,6-Trichlorophenol	1800	0	1700	ug/Kg	94	0			72	117	20
2,4,5-Trichlorophenol	1800	0	1700	ug/Kg	94	0			72	117	20
1,1-Biphenyl	1800	0	1500	ug/Kg	83	0			75	113	20
2-Chloronaphthalene	1800	0	1500	ug/Kg	83	0			67	118	20
2-Nitroaniline	1800	0	1800	ug/Kg	100	6			69	127	20
Dimethylphthalate	1800	0	1600	ug/Kg	89	5			70	113	20
Acenaphthylene	1800	0	1500	ug/Kg	83	7			79	118	20
2,6-Dinitrotoluene	1800	0	1900	ug/Kg	106	0			70	125	20
3-Nitroaniline	1800	0	1300	ug/Kg	72	8			30	99	20
Acenaphthene	1800	0	1700	ug/Kg	94	0			70	121	20
2,4-Dinitrophenol	3700	0	4200	ug/Kg	114	4			10	155	20
4-Nitrophenol	3700	0	4100	ug/Kg	111	7			45	133	20
Dibenzofuran	1800	0	1500	ug/Kg	83	7			72	110	20
2,4-Dinitrotoluene	1800	0	2100	ug/Kg	117	4			55	128	20
Diethylphthalate	1800	0	1600	ug/Kg	89	5			70	112	20
4-Chlorophenyl-phenylether	1800	0	1600	ug/Kg	89	0			71	108	20
Fluorene	1800	0	1500	ug/Kg	83	7			68	116	20
4-Nitroaniline	1800	0	2300	ug/Kg	128	*	4		55	120	20
4,6-Dinitro-2-methylphenol	1800	0	2000	ug/Kg	111	0			10	160	20
N-Nitrosodiphenylamine	1800	0	1500	ug/Kg	83	0			73	118	20
4-Bromophenyl-phenylether	1800	0	1500	ug/Kg	83	0			65	121	20
Hexachlorobenzene	1800	0	1500	ug/Kg	83	7			67	118	20
Atrazine	1800	0	1900	ug/Kg	106	0			79	127	20

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1982

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	3700	0	3700	ug/Kg	100		3		47	128	20
Phenanthrene	1800	0	1500	ug/Kg	83		0		52	128	20
Anthracene	1800	0	1500	ug/Kg	83		0		62	124	20
Carbazole	1800	0	1600	ug/Kg	89		0		59	119	20
Di-n-butylphthalate	1800	0	1900	ug/Kg	106		0		69	118	20
Fluoranthene	1800	0	1700	ug/Kg	94		0		44	125	20
Pyrene	1800	0	1400	ug/Kg	78		0		26	142	20
Butylbenzylphthalate	1800	0	2000	ug/Kg	111		0		64	126	20
3,3-Dichlorobenzidine	1800	0	1400	ug/Kg	78		0		33	116	20
Benzo(a)anthracene	1800	0	1500	ug/Kg	83		7		71	114	20
Chrysene	1800	0	1600	ug/Kg	89		7		57	121	20
bis(2-Ethylhexyl)phthalate	1800	170	2100	ug/Kg	107		0		42	169	20
Di-n-octyl phthalate	1800	0	1800	ug/Kg	100		6		23	175	20
Benzo(b)fluoranthene	1800	0	1600	ug/Kg	89		12		67	121	20
Benzo(k)fluoranthene	1800	0	1700	ug/Kg	94		12		57	134	20
Benzo(a)pyrene	1800	0	1600	ug/Kg	89		5		70	142	20
Indeno(1,2,3-cd)pyrene	1800	0	1400	ug/Kg	78		8		40	129	20
Dibenz(a,h)anthracene	1800	0	1400	ug/Kg	78		8		43	123	20
Benzo(g,h,i)perylene	1800	0	1300	ug/Kg	72		7		24	125	20
1,2,4,5-Tetrachlorobenzene	1800	0	1400	ug/Kg	78		0		69	124	20
1,4-Dioxane	1800	0	1300	ug/Kg	72		0		46	112	20
2,3,4,6-Tetrachlorophenol	1800	0	1800	ug/Kg	100		6		69	112	20

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1982

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q2010-02MS	Client Sample ID:	TP-13MS					DataFile:	BP024638.D		
Benzaldehyde	2000	0	1600	ug/Kg	80				10	86	
Phenol	2000	0	1800	ug/Kg	90				67	126	
bis(2-Chloroethyl)ether	2000	0	1600	ug/Kg	80				54	125	
2-Chlorophenol	2000	0	1800	ug/Kg	90				79	107	
2-Methylphenol	2000	0	1700	ug/Kg	85				66	122	
2,2-oxybis(1-Chloropropane)	2000	0	1600	ug/Kg	80				65	110	
Acetophenone	2000	0	1600	ug/Kg	80				75	111	
3+4-Methylphenols	2000	0	1600	ug/Kg	80				66	104	
N-Nitroso-di-n-propylamine	2000	0	1400	ug/Kg	70				59	119	
Hexachloroethane	2000	0	1600	ug/Kg	80				65	117	
Nitrobenzene	2000	0	1800	ug/Kg	90				70	119	
Isophorone	2000	0	1700	ug/Kg	85				76	122	
2-Nitrophenol	2000	0	2000	ug/Kg	100				54	145	
2,4-Dimethylphenol	2000	0	1900	ug/Kg	95				44	135	
bis(2-Chloroethoxy)methane	2000	0	1700	ug/Kg	85				68	112	
2,4-Dichlorophenol	2000	0	1900	ug/Kg	95				72	118	
Naphthalene	2000	0	1800	ug/Kg	90				72	110	
4-Chloroaniline	2000	0	1100	ug/Kg	55				10	91	
Hexachlorobutadiene	2000	0	1800	ug/Kg	90				66	114	
Caprolactam	2000	0	1900	ug/Kg	95				51	134	
4-Chloro-3-methylphenol	2000	0	1800	ug/Kg	90				57	132	
2-Methylnaphthalene	2000	0	1700	ug/Kg	85				59	123	
Hexachlorocyclopentadiene	3900	0	4500	ug/Kg	115				10	175	
2,4,6-Trichlorophenol	2000	0	2000	ug/Kg	100				72	117	
2,4,5-Trichlorophenol	2000	0	2000	ug/Kg	100				72	117	
1,1-Biphenyl	2000	0	1800	ug/Kg	90				75	113	
2-Chloronaphthalene	2000	0	1800	ug/Kg	90				67	118	
2-Nitroaniline	2000	0	1900	ug/Kg	95				69	127	
Dimethylphthalate	2000	0	1800	ug/Kg	90				70	113	
Acenaphthylene	2000	0	1800	ug/Kg	90				79	118	
2,6-Dinitrotoluene	2000	0	1800	ug/Kg	90				70	125	
3-Nitroaniline	2000	0	1300	ug/Kg	65				30	99	
Acenaphthene	2000	0	1800	ug/Kg	90				70	121	
2,4-Dinitrophenol	3900	0	3800	ug/Kg	97				10	155	
4-Nitrophenol	3900	0	3800	ug/Kg	97				45	133	
Dibenzofuran	2000	0	1800	ug/Kg	90				72	110	
2,4-Dinitrotoluene	2000	0	1900	ug/Kg	95				55	128	
Diethylphthalate	2000	0	1800	ug/Kg	90				70	112	
4-Chlorophenyl-phenylether	2000	0	1800	ug/Kg	90				71	108	
Fluorene	2000	0	1800	ug/Kg	90				68	116	
4-Nitroaniline	2000	0	2000	ug/Kg	100				55	120	
4,6-Dinitro-2-methylphenol	2000	0	2000	ug/Kg	100				10	160	
N-Nitrosodiphenylamine	2000	0	1800	ug/Kg	90				73	118	
4-Bromophenyl-phenylether	2000	0	1800	ug/Kg	90				65	121	
Hexachlorobenzene	2000	0	1800	ug/Kg	90				67	118	
Atrazine	2000	0	1900	ug/Kg	95				79	127	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1982

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	3900	0	4300	ug/Kg	110				47	128	
Phenanthrene	2000	0	1800	ug/Kg	90				52	128	
Anthracene	2000	0	1800	ug/Kg	90				62	124	
Carbazole	2000	0	1900	ug/Kg	95				59	119	
Di-n-butylphthalate	2000	0	1900	ug/Kg	95				69	118	
Fluoranthene	2000	0	1800	ug/Kg	90				44	125	
Pyrene	2000	0	1900	ug/Kg	95				26	142	
Butylbenzylphthalate	2000	0	2000	ug/Kg	100				64	126	
3,3-Dichlorobenzidine	2000	0	1300	ug/Kg	65				33	116	
Benzo(a)anthracene	2000	0	1800	ug/Kg	90				71	114	
Chrysene	2000	0	1800	ug/Kg	90				57	121	
bis(2-Ethylhexyl)phthalate	2000	0	2000	ug/Kg	100				42	169	
Di-n-octyl phthalate	2000	0	2100	ug/Kg	105				23	175	
Benzo(b)fluoranthene	2000	0	1900	ug/Kg	95				67	121	
Benzo(k)fluoranthene	2000	0	1800	ug/Kg	90				57	134	
Benzo(a)pyrene	2000	0	1900	ug/Kg	95				70	142	
Indeno(1,2,3-cd)pyrene	2000	0	1900	ug/Kg	95				40	129	
Dibenz(a,h)anthracene	2000	0	1900	ug/Kg	95				43	123	
Benzo(g,h,i)perylene	2000	0	1900	ug/Kg	95				24	125	
1,2,4,5-Tetrachlorobenzene	2000	0	1900	ug/Kg	95				69	124	
1,4-Dioxane	2000	0	1500	ug/Kg	75				46	112	
2,3,4,6-Tetrachlorophenol	2000	0	1900	ug/Kg	95				69	112	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1982

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q2010-02MSD	Client Sample ID:	TP-13MSD					DataFile:	BP024639.D		
Benzaldehyde	2000	0	1600	ug/Kg	80		0		10	86	20
Phenol	2000	0	1900	ug/Kg	95		5		67	126	20
bis(2-Chloroethyl)ether	2000	0	1700	ug/Kg	85		6		54	125	20
2-Chlorophenol	2000	0	1900	ug/Kg	95		5		79	107	20
2-Methylphenol	2000	0	1800	ug/Kg	90		6		66	122	20
2,2-oxybis(1-Chloropropane)	2000	0	1700	ug/Kg	85		6		65	110	20
Acetophenone	2000	0	1800	ug/Kg	90		12		75	111	20
3+4-Methylphenols	2000	0	1800	ug/Kg	90		12		66	104	20
N-Nitroso-di-n-propylamine	2000	0	1600	ug/Kg	80		13		59	119	20
Hexachloroethane	2000	0	1700	ug/Kg	85		6		65	117	20
Nitrobenzene	2000	0	1800	ug/Kg	90		0		70	119	20
Isophorone	2000	0	1700	ug/Kg	85		0		76	122	20
2-Nitrophenol	2000	0	2000	ug/Kg	100		0		54	145	20
2,4-Dimethylphenol	2000	0	1900	ug/Kg	95		0		44	135	20
bis(2-Chloroethoxy)methane	2000	0	1800	ug/Kg	90		6		68	112	20
2,4-Dichlorophenol	2000	0	1900	ug/Kg	95		0		72	118	20
Naphthalene	2000	0	1800	ug/Kg	90		0		72	110	20
4-Chloroaniline	2000	0	1100	ug/Kg	55		0		10	91	20
Hexachlorobutadiene	2000	0	1800	ug/Kg	90		0		66	114	20
Caprolactam	2000	0	1800	ug/Kg	90		5		51	134	20
4-Chloro-3-methylphenol	2000	0	1800	ug/Kg	90		0		57	132	20
2-Methylnaphthalene	2000	0	1800	ug/Kg	90		6		59	123	20
Hexachlorocyclopentadiene	3900	0	4500	ug/Kg	115		0		10	175	20
2,4,6-Trichlorophenol	2000	0	2000	ug/Kg	100		0		72	117	20
2,4,5-Trichlorophenol	2000	0	2000	ug/Kg	100		0		72	117	20
1,1-Biphenyl	2000	0	1900	ug/Kg	95		5		75	113	20
2-Chloronaphthalene	2000	0	1900	ug/Kg	95		5		67	118	20
2-Nitroaniline	2000	0	2000	ug/Kg	100		5		69	127	20
Dimethylphthalate	2000	0	1800	ug/Kg	90		0		70	113	20
Acenaphthylene	2000	0	1800	ug/Kg	90		0		79	118	20
2,6-Dinitrotoluene	2000	0	1800	ug/Kg	90		0		70	125	20
3-Nitroaniline	2000	0	1300	ug/Kg	65		0		30	99	20
Acenaphthene	2000	0	1800	ug/Kg	90		0		70	121	20
2,4-Dinitrophenol	3900	0	3800	ug/Kg	97		0		10	155	20
4-Nitrophenol	3900	0	3800	ug/Kg	97		0		45	133	20
Dibenzofuran	2000	0	1800	ug/Kg	90		0		72	110	20
2,4-Dinitrotoluene	2000	0	1900	ug/Kg	95		0		55	128	20
Diethylphthalate	2000	0	1800	ug/Kg	90		0		70	112	20
4-Chlorophenyl-phenylether	2000	0	1800	ug/Kg	90		0		71	108	20
Fluorene	2000	0	1800	ug/Kg	90		0		68	116	20
4-Nitroaniline	2000	0	1900	ug/Kg	95		5		55	120	20
4,6-Dinitro-2-methylphenol	2000	0	2000	ug/Kg	100		0		10	160	20
N-Nitrosodiphenylamine	2000	0	1900	ug/Kg	95		5		73	118	20
4-Bromophenyl-phenylether	2000	0	1900	ug/Kg	95		5		65	121	20
Hexachlorobenzene	2000	0	1800	ug/Kg	90		0		67	118	20
Atrazine	2000	0	1900	ug/Kg	95		0		79	127	20

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1982

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	3900	0	4300	ug/Kg	110		0		47	128	20
Phenanthrene	2000	0	1800	ug/Kg	90		0		52	128	20
Anthracene	2000	0	1800	ug/Kg	90		0		62	124	20
Carbazole	2000	0	1900	ug/Kg	95		0		59	119	20
Di-n-butylphthalate	2000	0	1900	ug/Kg	95		0		69	118	20
Fluoranthene	2000	0	1800	ug/Kg	90		0		44	125	20
Pyrene	2000	0	1900	ug/Kg	95		0		26	142	20
Butylbenzylphthalate	2000	0	2000	ug/Kg	100		0		64	126	20
3,3-Dichlorobenzidine	2000	0	1300	ug/Kg	65		0		33	116	20
Benzo(a)anthracene	2000	0	1900	ug/Kg	95		5		71	114	20
Chrysene	2000	0	1800	ug/Kg	90		0		57	121	20
bis(2-Ethylhexyl)phthalate	2000	0	1900	ug/Kg	95		5		42	169	20
Di-n-octyl phthalate	2000	0	2000	ug/Kg	100		5		23	175	20
Benzo(b)fluoranthene	2000	0	1900	ug/Kg	95		0		67	121	20
Benzo(k)fluoranthene	2000	0	1800	ug/Kg	90		0		57	134	20
Benzo(a)pyrene	2000	0	1900	ug/Kg	95		0		70	142	20
Indeno(1,2,3-cd)pyrene	2000	0	1900	ug/Kg	95		0		40	129	20
Dibenz(a,h)anthracene	2000	0	1900	ug/Kg	95		0		43	123	20
Benzo(g,h,i)perylene	2000	0	1900	ug/Kg	95		0		24	125	20
1,2,4,5-Tetrachlorobenzene	2000	0	1900	ug/Kg	95		0		69	124	20
1,4-Dioxane	2000	0	1500	ug/Kg	75		0		46	112	20
2,3,4,6-Tetrachlorophenol	2000	0	1900	ug/Kg	95		0		69	112	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1982

Client: CDM Smith

Analytical Method: 8270E

DataFile: BF142419.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB167953BS	Benzaldehyde	1700	1400	ug/Kg	82				10	133	
	Phenol	1700	1500	ug/Kg	88				62	112	
	bis(2-Chloroethyl)ether	1700	1200	ug/Kg	71				60	101	
	2-Chlorophenol	1700	1500	ug/Kg	88				65	112	
	2-Methylphenol	1700	1500	ug/Kg	88				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	1400	ug/Kg	82				63	95	
	Hexachloroethane	1700	1500	ug/Kg	88				72	108	
	Nitrobenzene	1700	1500	ug/Kg	88				57	101	
	Isophorone	1700	1400	ug/Kg	82				59	99	
	2-Nitrophenol	1700	1800	ug/Kg	106				61	111	
	2,4-Dimethylphenol	1700	1500	ug/Kg	88				46	141	
	bis(2-Chloroethoxy)methane	1700	1400	ug/Kg	82				66	97	
	2,4-Dichlorophenol	1700	1600	ug/Kg	94				62	107	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	270	ug/Kg	16				16	100	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				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	3200	ug/Kg	97				45	165	
	2,4,6-Trichlorophenol	1700	1600	ug/Kg	94				59	102	
	2,4,5-Trichlorophenol	1700	1600	ug/Kg	94				61	98	
	1,1-Biphenyl	1700	1400	ug/Kg	82				57	103	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				58	99	
	2-Nitroaniline	1700	1700	ug/Kg	100				66	101	
	Dimethylphthalate	1700	1500	ug/Kg	88				61	99	
	Acenaphthylene	1700	1400	ug/Kg	82				63	101	
	2,6-Dinitrotoluene	1700	1700	ug/Kg	100				61	104	
	3-Nitroaniline	1700	840	ug/Kg	49				28	100	
	Acenaphthene	1700	1600	ug/Kg	94				57	104	
	2,4-Dinitrophenol	3300	4000	ug/Kg	121				37	128	
	4-Nitrophenol	3300	3500	ug/Kg	106				48	119	
	Dibenzofuran	1700	1400	ug/Kg	82				63	99	
	2,4-Dinitrotoluene	1700	1900	ug/Kg	112		*		60	106	
	Diethylphthalate	1700	1400	ug/Kg	82				60	101	
	4-Chlorophenyl-phenylether	1700	1400	ug/Kg	82				58	98	
	Fluorene	1700	1400	ug/Kg	82				61	101	
	4-Nitroaniline	1700	1900	ug/Kg	112		*		64	103	
	4,6-Dinitro-2-methylphenol	1700	1900	ug/Kg	112				76	113	
	N-Nitrosodiphenylamine	1700	1400	ug/Kg	82				71	99	
	4-Bromophenyl-phenylether	1700	1500	ug/Kg	88				66	102	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1982

Client: CDM Smith

Analytical Method: 8270E

DataFile: BF142419.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB167953BS	Hexachlorobenzene	1700	1500	ug/Kg	88				64	98	
	Atrazine	1700	1700	ug/Kg	100				47	152	
	Pentachlorophenol	3300	3500	ug/Kg	106		*		67	105	
	Phenanthrene	1700	1400	ug/Kg	82				59	103	
	Anthracene	1700	1400	ug/Kg	82				61	105	
	Carbazole	1700	1400	ug/Kg	82				61	99	
	Di-n-butylphthalate	1700	1500	ug/Kg	88				58	104	
	Fluoranthene	1700	1400	ug/Kg	82				57	107	
	Pyrene	1700	1500	ug/Kg	88				59	103	
	Butylbenzylphthalate	1700	1600	ug/Kg	94				55	103	
	3,3-Dichlorobenzidine	1700	1200	ug/Kg	71				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	1600	ug/Kg	94				54	135	
	Di-n-octyl phthalate	1700	1600	ug/Kg	94				52	137	
	Benzo(b)fluoranthene	1700	1600	ug/Kg	94				62	109	
	Benzo(k)fluoranthene	1700	1400	ug/Kg	82				62	109	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1500	ug/Kg	88				63	101	
	Dibenz(a,h)anthracene	1700	1500	ug/Kg	88				61	112	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1400	ug/Kg	82				53	101	
	1,4-Dioxane	1700	1100	ug/Kg	65				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1600	ug/Kg	94				59	108	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1982

Client: CDM Smith

Analytical Method: 8270E

DataFile: BP024636.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB167973BS	Benzaldehyde	1700	1200	ug/Kg	71				10	133	
	Phenol	1700	1500	ug/Kg	88				62	112	
	bis(2-Chloroethyl)ether	1700	1300	ug/Kg	76				60	101	
	2-Chlorophenol	1700	1500	ug/Kg	88				65	112	
	2-Methylphenol	1700	1500	ug/Kg	88				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	1500	ug/Kg	88				58	111	
	N-Nitroso-di-n-propylamine	1700	1300	ug/Kg	76				63	95	
	Hexachloroethane	1700	1400	ug/Kg	82				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	1600	ug/Kg	94				46	141	
	bis(2-Chloroethoxy)methane	1700	1400	ug/Kg	82				66	97	
	2,4-Dichlorophenol	1700	1600	ug/Kg	94				62	107	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	640	ug/Kg	38				16	100	
	Hexachlorobutadiene	1700	1400	ug/Kg	82				53	98	
	Caprolactam	1700	1500	ug/Kg	88				67	110	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				58	112	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				60	104	
	Hexachlorocyclopentadiene	3300	3400	ug/Kg	103				45	165	
	2,4,6-Trichlorophenol	1700	1600	ug/Kg	94				59	102	
	2,4,5-Trichlorophenol	1700	1600	ug/Kg	94				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	1400	ug/Kg	82				61	99	
	Acenaphthylene	1700	1400	ug/Kg	82				63	101	
	2,6-Dinitrotoluene	1700	1500	ug/Kg	88				61	104	
	3-Nitroaniline	1700	1000	ug/Kg	59				28	100	
	Acenaphthene	1700	1400	ug/Kg	82				57	104	
	2,4-Dinitrophenol	3300	3100	ug/Kg	94				37	128	
	4-Nitrophenol	3300	3000	ug/Kg	91				48	119	
	Dibenzofuran	1700	1500	ug/Kg	88				63	99	
	2,4-Dinitrotoluene	1700	1500	ug/Kg	88				60	106	
	Diethylphthalate	1700	1500	ug/Kg	88				60	101	
	4-Chlorophenyl-phenylether	1700	1500	ug/Kg	88				58	98	
	Fluorene	1700	1500	ug/Kg	88				61	101	
	4-Nitroaniline	1700	1600	ug/Kg	94				64	103	
	4,6-Dinitro-2-methylphenol	1700	1600	ug/Kg	94				76	113	
	N-Nitrosodiphenylamine	1700	1500	ug/Kg	88				71	99	
	4-Bromophenyl-phenylether	1700	1500	ug/Kg	88				66	102	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1982

Client: CDM Smith

Analytical Method: 8270E

DataFile: BP024636.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB167973BS	Hexachlorobenzene	1700	1400	ug/Kg	82				64	98	
	Atrazine	1700	1500	ug/Kg	88				47	152	
	Pentachlorophenol	3300	3500	ug/Kg	106		*		67	105	
	Phenanthrene	1700	1500	ug/Kg	88				59	103	
	Anthracene	1700	1500	ug/Kg	88				61	105	
	Carbazole	1700	1500	ug/Kg	88				61	99	
	Di-n-butylphthalate	1700	1500	ug/Kg	88				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Pyrene	1700	1500	ug/Kg	88				59	103	
	Butylbenzylphthalate	1700	1600	ug/Kg	94				55	103	
	3,3-Dichlorobenzidine	1700	1000	ug/Kg	59				42	91	
	Benzo(a)anthracene	1700	1500	ug/Kg	88				60	102	
	Chrysene	1700	1500	ug/Kg	88				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1600	ug/Kg	94				54	135	
	Di-n-octyl phthalate	1700	1600	ug/Kg	94				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	1600	ug/Kg	94				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1500	ug/Kg	88				63	101	
	Dibenz(a,h)anthracene	1700	1600	ug/Kg	94				61	112	
	Benzo(g,h,i)perylene	1700	1600	ug/Kg	94				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1500	ug/Kg	88				53	101	
	1,4-Dioxane	1700	1100	ug/Kg	65				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1600	ug/Kg	94				59	108	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167953BL

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM Case No.: Q1982

SAS No.: Q1982 SDG NO.: Q1982

Lab File ID: BF142394.D

Lab Sample ID: PB167953BL

Instrument ID: BNA_F

Date Extracted: 05/12/2025

Matrix: (soil/water) SOIL

Date Analyzed: 05/15/2025

Level: (low/med) LOW

Time Analyzed: 16:10

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
TP-6	Q1982-06	BF142399.D	05/15/2025
TP-8	Q1982-07	BF142406.D	05/15/2025
TP-5	Q1982-05	BF142408.D	05/15/2025
TP-4	Q1982-04	BF142413.D	05/16/2025
PB167953BS	PB167953BS	BF142419.D	05/16/2025
TP-1	Q1982-01	BF142364.D	05/14/2025
TP-2B	Q1982-02	BF142378.D	05/14/2025
TP-3	Q1982-03	BF142365.D	05/14/2025
TP-3MS	Q1982-03MS	BF142366.D	05/14/2025
TP-3MSD	Q1982-03MSD	BF142367.D	05/14/2025

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167973BL

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM Case No.: Q1982

SAS No.: Q1982 SDG NO.: Q1982

Lab File ID: BP024635.D

Lab Sample ID: PB167973BL

Instrument ID: BNA_P

Date Extracted: 05/13/2025

Matrix: (soil/water) SOIL

Date Analyzed: 05/15/2025

Level: (low/med) LOW

Time Analyzed: 13:05

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167973BS	PB167973BS	BP024636.D	05/15/2025
TP-9	Q1982-08	BP024647.D	05/15/2025
TP-13MS	Q2010-02MS	BP024638.D	05/15/2025
TP-13MSD	Q2010-02MSD	BP024639.D	05/15/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM

SAS No.: Q1982 SDG NO.: Q1982

Lab File ID: BF142294.D

DFTPP Injection Date: 05/05/2025

Instrument ID: BNA_F

DFTPP Injection Time: 13:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.3
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	33.3
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	45.1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	29.4
365	Greater than 1% of mass 198	3.9
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	19.6 (19.6) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF142295.D	05/05/2025	13:54
SSTDICC005	SSTDICC005	BF142296.D	05/05/2025	14:23
SSTDICC010	SSTDICC010	BF142297.D	05/05/2025	14:52
SSTDICC020	SSTDICC020	BF142298.D	05/05/2025	15:21
SSTDICCC040	SSTDICCC040	BF142299.D	05/05/2025	15:50
SSTDICC050	SSTDICC050	BF142300.D	05/05/2025	16:18
SSTDICC060	SSTDICC060	BF142301.D	05/05/2025	16:47
SSTDICC080	SSTDICC080	BF142302.D	05/05/2025	17:15

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM

SAS No.: Q1982 SDG NO.: Q1982

Lab File ID: BF142359.D

DFTPP Injection Date: 05/14/2025

Instrument ID: BNA_F

DFTPP Injection Time: 11:22

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.4
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	34.6
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	45.5
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	28.7
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	19.0
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.6 (19.6) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142360.D	05/14/2025	12:19
TP-1	Q1982-01	BF142364.D	05/14/2025	14:23
TP-3	Q1982-03	BF142365.D	05/14/2025	14:51
TP-3MS	Q1982-03MS	BF142366.D	05/14/2025	15:20
TP-3MSD	Q1982-03MSD	BF142367.D	05/14/2025	15:48
TP-2B	Q1982-02	BF142378.D	05/14/2025	21:06

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM

SAS No.: Q1982 SDG NO.: Q1982

Lab File ID: BF142392.D

DFTPP Injection Date: 05/15/2025

Instrument ID: BNA_F

DFTPP Injection Time: 14:27

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.8
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	34.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	46.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 60.0% of mass 198	28.1
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	16.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.1 (19.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142393.D	05/15/2025	15:41
PB167953BL	PB167953BL	BF142394.D	05/15/2025	16:10
TP-6	Q1982-06	BF142399.D	05/15/2025	18:40
TP-8	Q1982-07	BF142406.D	05/15/2025	22:04
TP-5	Q1982-05	BF142408.D	05/15/2025	23:01
TP-4	Q1982-04	BF142413.D	05/16/2025	01:27

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM

SAS No.: Q1982 SDG NO.: Q1982

Lab File ID: BF142415.D

DFTPP Injection Date: 05/16/2025

Instrument ID: BNA_F

DFTPP Injection Time: 09:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.3
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	33.6
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	45.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	29.2
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	19.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.9 (18.9) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF142416.D	05/16/2025	09:45
PB167953BS	PB167953BS	BF142419.D	05/16/2025	11:13

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM

SAS No.: Q1982 SDG NO.: Q1982

Lab File ID: BP024613.D

DFTPP Injection Date: 05/13/2025

Instrument ID: BNA_P

DFTPP Injection Time: 10:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.5
68	Less than 2.0% of mass 69	0.2 (0.6) 1
69	Mass 69 relative abundance	36.2
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	49.3
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	33.1
365	Greater than 1% of mass 198	5.4
441	Present, but less than mass 443	19.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.4 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BP024614.D	05/13/2025	10:41
SSTDICC005	SSTDICC005	BP024615.D	05/13/2025	11:22
SSTDICC010	SSTDICC010	BP024616.D	05/13/2025	12:03
SSTDICC020	SSTDICC020	BP024617.D	05/13/2025	12:43
SSTDICCC040	SSTDICCC040	BP024618.D	05/13/2025	13:24
SSTDICC050	SSTDICC050	BP024619.D	05/13/2025	14:05
SSTDICC060	SSTDICC060	BP024620.D	05/13/2025	14:45
SSTDICC080	SSTDICC080	BP024621.D	05/13/2025	15:26

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM

SAS No.: Q1982 SDG NO.: Q1982

Lab File ID: BP024633.D

DFTPP Injection Date: 05/15/2025

Instrument ID: BNA_P

DFTPP Injection Time: 11:44

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.0
68	Less than 2.0% of mass 69	0.5 (1.9) 1
69	Mass 69 relative abundance	34.7
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	47.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	33.3
365	Greater than 1% of mass 198	5.6
441	Present, but less than mass 443	20.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.1 (19.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP024634.D	05/15/2025	12:25
PB167973BL	PB167973BL	BP024635.D	05/15/2025	13:05
PB167973BS	PB167973BS	BP024636.D	05/15/2025	13:53
TP-13MS	Q2010-02MS	BP024638.D	05/15/2025	15:18
TP-13MSD	Q2010-02MSD	BP024639.D	05/15/2025	15:59
TP-9	Q1982-08	BP024647.D	05/15/2025	21:25

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG NO.: Q1982

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/14/2025

Lab File ID: BF142360.D Time Analyzed: 12:19

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	186058	6.904	714913	8.19	377100	9.94
UPPER LIMIT	372116	7.404	1429830	8.687	754200	10.439
LOWER LIMIT	93029	6.404	357457	7.687	188550	9.439
EPA SAMPLE NO.						
01 TP-2B	213754	6.90	843294	8.18	499403	9.94
02 TP-1	171428	6.90	665674	8.18	370105	9.93
03 TP-3	187393	6.90	720141	8.18	397265	9.94
04 TP-3MS	155049	6.90	631761	8.19	370580	9.94
05 TP-3MSD	163411	6.90	663275	8.19	383694	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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG NO.: Q1982

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/14/2025

Lab File ID: BF142360.D Time Analyzed: 12:19

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	635630	11.428	329863	14.069	363476	15.557
UPPER LIMIT	1271260	11.928	659726	14.569	726952	16.057
LOWER LIMIT	317815	10.928	164932	13.569	181738	15.057
EPA SAMPLE NO.						
01 TP-2B	915623	11.42	567502	14.06	470991	15.55
02 TP-1	718007	11.42	611693	14.06	503779	15.55
03 TP-3	760301	11.42	624905	14.06	499846	15.56
04 TP-3MS	711855	11.43	525246	14.07	490879	15.56
05 TP-3MSD	695642	11.43	504507	14.07	463876	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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG NO.: Q1982

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/15/2025

Lab File ID: BF142393.D Time Analyzed: 15:41

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	168883	6.904	623039	8.19	317544	9.94
UPPER LIMIT	337766	7.404	1246080	8.687	635088	10.439
LOWER LIMIT	84441.5	6.404	311520	7.687	158772	9.439
EPA SAMPLE NO.						
01 PB167953BL	167151	6.90	651521	8.18	343903	9.93
02 TP-6	163201	6.90	621833	8.18	334642	9.93
03 TP-8	160071	6.90	605054	8.18	320606	9.94
04 TP-4	176019	6.90	648776	8.19	308965	9.94
05 TP-5	156800	6.90	595096	8.18	309030	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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG NO.: Q1982

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/15/2025

Lab File ID: BF142393.D Time Analyzed: 15:41

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	516450	11.427	271993	14.063	340967	15.551
UPPER LIMIT	1032900	11.927	543986	14.563	681934	16.051
LOWER LIMIT	258225	10.927	135997	13.563	170484	15.051
EPA SAMPLE NO.						
01 PB167953BL	581369	11.42	340684	14.06	283265	15.55
02 TP-6	592254	11.42	358051	14.06	361581	15.55
03 TP-8	518248	11.42	355689	14.06	278675	15.55
04 TP-4	449574	11.43	299172	14.07	224973	15.56
05 TP-5	471561	11.42	353038	14.06	254978	15.55

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG NO.: Q1982

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/16/2025

Lab File ID: BF142416.D Time Analyzed: 09:45

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	162723	6.904	631476	8.19	337294	9.95
UPPER LIMIT	325446	7.404	1262950	8.686	674588	10.445
LOWER LIMIT	81361.5	6.404	315738	7.686	168647	9.445
EPA SAMPLE NO.						
01 PB167953BS	173630	6.90	675385	8.19	366566	9.95

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG NO.: Q1982

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/16/2025

Lab File ID: BF142416.D Time Analyzed: 09:45

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	570778	11.427	303020	14.068	328347	15.562
UPPER LIMIT	1141560	11.927	606040	14.568	656694	16.062
LOWER LIMIT	285389	10.927	151510	13.568	164174	15.062
EPA SAMPLE NO.						
01 PB167953BS	630880	11.43	344356	14.07	359523	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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG NO.: Q1982

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/15/2025

Lab File ID: BP024634.D Time Analyzed: 12:25

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	130531	7.658	590490	10.43	383835	14.30
UPPER LIMIT	261062	8.158	1180980	10.928	767670	14.804
LOWER LIMIT	65265.5	7.158	295245	9.928	191918	13.804
EPA SAMPLE NO.						
01 PB167973BL	146276	7.66	564318	10.43	357828	14.29
02 PB167973BS	131081	7.65	537517	10.42	347277	14.30
03 TP-9	165553	7.66	643582	10.43	391444	14.29
04 TP-13MS	165529	7.66	634360	10.43	378565	14.30
05 TP-13MSD	159501	7.66	628820	10.43	375530	14.30

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG NO.: Q1982

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/15/2025

Lab File ID: BP024634.D Time Analyzed: 12:25

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	784999	17.092	868702	21.527	1013040	24.81
UPPER LIMIT	1570000	17.592	1737400	22.027	2026080	25.31
LOWER LIMIT	392500	16.592	434351	21.027	506520	24.31
EPA SAMPLE NO.						
01 PB167973BL	764705	17.09	884123	21.52	966019	24.80
02 PB167973BS	706031	17.10	796554	21.53	897451	24.83
03 TP-9	756008	17.09	888340	21.52	1083560	24.80
04 TP-13MS	753325	17.10	842505	21.53	953147	24.80
05 TP-13MSD	726778	17.10	785534	21.53	909133	24.80

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



QC SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB167953BL	SDG No.:	Q1982
Lab Sample ID:	PB167953BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142394.D	1	05/12/25 09:38	05/15/25 16:10	PB167953

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	58.1	U	58.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	64.7	U	64.7	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	52.0	U	52.0	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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB167953BL	SDG No.:	Q1982
Lab Sample ID:	PB167953BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142394.D	1	05/12/25 09:38	05/15/25 16:10	PB167953

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	50.0	U	50.0	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	64.1	U	64.1	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	51.2	U	51.2	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	71.3	U	71.3	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	59.1	U	59.1	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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB167953BL	SDG No.:	Q1982
Lab Sample ID:	PB167953BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142394.D	1	05/12/25 09:38	05/15/25 16:10	PB167953

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	121		18 - 112	81%	SPK: 150
13127-88-3	Phenol-d6	118		15 - 107	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.6		18 - 107	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.0		20 - 109	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	132		10 - 116	88%	SPK: 150
1718-51-0	Terphenyl-d14	75.6		10 - 105	76%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	167000	6.898			
1146-65-2	Naphthalene-d8	652000	8.181			
15067-26-2	Acenaphthene-d10	344000	9.933			
1517-22-2	Phenanthrene-d10	581000	11.422			
1719-03-5	Chrysene-d12	341000	14.063			
1520-96-3	Perylene-d12	283000	15.551			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	310	A		5.14	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB167953BL	SDG No.:	Q1982
Lab Sample ID:	PB167953BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142394.D	1	05/12/25 09:38	05/15/25 16:10	PB167953

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB167973BL	SDG No.:	Q1982
Lab Sample ID:	PB167973BL	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
BP024635.D	1	05/13/25 09:05	05/15/25 13:05	PB167973

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB167973BL	SDG No.:	Q1982
Lab Sample ID:	PB167973BL	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
BP024635.D	1	05/13/25 09:05	05/15/25 13:05	PB167973

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB167973BL	SDG No.:	Q1982
Lab Sample ID:	PB167973BL	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
BP024635.D	1	05/13/25 09:05	05/15/25 13:05	PB167973

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	144		18 - 112	96%	SPK: 150
13127-88-3	Phenol-d6	137		15 - 107	92%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.1		18 - 107	82%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.7		20 - 109	79%	SPK: 100
118-79-6	2,4,6-Tribromophenol	144		10 - 116	96%	SPK: 150
1718-51-0	Terphenyl-d14	84.5		10 - 105	85%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	146000		7.658		
1146-65-2	Naphthalene-d8	564000		10.434		
15067-26-2	Acenaphthene-d10	358000		14.293		
1517-22-2	Phenanthrene-d10	765000		17.087		
1719-03-5	Chrysene-d12	884000		21.516		
1520-96-3	Perylene-d12	966000		24.804		
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	A		4.82	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB167973BL	SDG No.:	Q1982
Lab Sample ID:	PB167973BL	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
BP024635.D	1	05/13/25 09:05	05/15/25 13:05	PB167973

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB167953BS	SDG No.:	Q1982
Lab Sample ID:	PB167953BS	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
BF142419.D	1	05/12/25 09:38	05/16/25 11:13	PB167953

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1400		160	330	ug/Kg
108-95-2	Phenol	1500		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1200		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1500		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1500		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	1400		47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	1500		17.6	170	ug/Kg
98-95-3	Nitrobenzene	1500		18.3	170	ug/Kg
78-59-1	Isophorone	1400		32.8	170	ug/Kg
88-75-5	2-Nitrophenol	1800		58.2	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1500		64.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1400		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		28.3	170	ug/Kg
91-20-3	Naphthalene	1400		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	270		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		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	3200	E	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	1400		21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		22.5	170	ug/Kg
88-74-4	2-Nitroaniline	1700		48.1	170	ug/Kg
131-11-3	Dimethylphthalate	1500		27.1	170	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB167953BS	SDG No.:	Q1982
Lab Sample ID:	PB167953BS	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
BF142419.D	1	05/12/25 09:38	05/16/25 11:13	PB167953

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	1700		33.6	170	ug/Kg
99-09-2	3-Nitroaniline	840		46.0	170	ug/Kg
83-32-9	Acenaphthene	1600		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	4000	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	3500	E	110	330	ug/Kg
132-64-9	Dibenzofuran	1400		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		50.1	170	ug/Kg
84-66-2	Diethylphthalate	1400		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	1900		64.2	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1900		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1400		32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1500		27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1500		25.3	170	ug/Kg
1912-24-9	Atrazine	1700		34.0	170	ug/Kg
87-86-5	Pentachlorophenol	3500	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	1400		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1500		47.9	170	ug/Kg
206-44-0	Fluoranthene	1400		30.0	170	ug/Kg
129-00-0	Pyrene	1500		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1600		71.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1200		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	1600		59.2	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1600		86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		19.0	170	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB167953BS	SDG No.:	Q1982
Lab Sample ID:	PB167953BS	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
BF142419.D	1	05/12/25 09:38	05/16/25 11:13	PB167953

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1400		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	1500		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1500		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1400		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1100		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1600		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	121		18 - 112	81%	SPK: 150
13127-88-3	Phenol-d6	120		15 - 107	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	83.1		18 - 107	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.4		20 - 109	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	141		10 - 116	94%	SPK: 150
1718-51-0	Terphenyl-d14	77.8		10 - 105	78%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	174000	6.904			
1146-65-2	Naphthalene-d8	675000	8.186			
15067-26-2	Acenaphthene-d10	367000	9.945			
1517-22-2	Phenanthrene-d10	631000	11.427			
1719-03-5	Chrysene-d12	344000	14.068			
1520-96-3	Perylene-d12	360000	15.556			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB167973BS	SDG No.:	Q1982
Lab Sample ID:	PB167973BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024636.D	1	05/13/25 09:05	05/15/25 13:53	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1200		160	330	ug/Kg
108-95-2	Phenol	1500		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1300		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1500		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1500		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	1500		41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1300		47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	1400		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		58.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1600		64.7	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1400		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		28.3	170	ug/Kg
91-20-3	Naphthalene	1400		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	640		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1400		25.3	170	ug/Kg
105-60-2	Caprolactam	1500		52.0	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	3400	E	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	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	1400		27.1	170	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB167973BS	SDG No.:	Q1982
Lab Sample ID:	PB167973BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024636.D	1	05/13/25 09:05	05/15/25 13:53	PB167973

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	1000		46.0	170	ug/Kg
83-32-9	Acenaphthene	1400		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3100	E	230	330	ug/Kg
100-02-7	4-Nitrophenol	3000	E	110	330	ug/Kg
132-64-9	Dibenzofuran	1500		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1500		50.0	170	ug/Kg
84-66-2	Diethylphthalate	1500		28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		26.7	170	ug/Kg
86-73-7	Fluorene	1500		25.3	170	ug/Kg
100-01-6	4-Nitroaniline	1600		64.1	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1600		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1500		27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1400		25.3	170	ug/Kg
1912-24-9	Atrazine	1500		34.0	170	ug/Kg
87-86-5	Pentachlorophenol	3500	E	51.2	330	ug/Kg
85-01-8	Phenanthrene	1500		20.9	170	ug/Kg
120-12-7	Anthracene	1500		33.3	170	ug/Kg
86-74-8	Carbazole	1500		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1500		47.9	170	ug/Kg
206-44-0	Fluoranthene	1500		30.0	170	ug/Kg
129-00-0	Pyrene	1500		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1600		71.3	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1000		36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	1500		23.0	170	ug/Kg
218-01-9	Chrysene	1500		19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1600		59.1	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1600		86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		19.0	170	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB167973BS	SDG No.:	Q1982
Lab Sample ID:	PB167973BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024636.D	1	05/13/25 09:05	05/15/25 13:53	PB167973

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	1600		29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1100		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1600		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	134		18 - 112	89%	SPK: 150
13127-88-3	Phenol-d6	133		15 - 107	89%	SPK: 150
4165-60-0	Nitrobenzene-d5	75.8		18 - 107	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.5		20 - 109	74%	SPK: 100
118-79-6	2,4,6-Tribromophenol	134		10 - 116	89%	SPK: 150
1718-51-0	Terphenyl-d14	76.0		10 - 105	76%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	131000		7.646		
1146-65-2	Naphthalene-d8	538000		10.422		
15067-26-2	Acenaphthene-d10	347000		14.298		
1517-22-2	Phenanthrene-d10	706000		17.098		
1719-03-5	Chrysene-d12	797000		21.533		
1520-96-3	Perylene-d12	897000		24.827		

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-3MS	SDG No.:	Q1982
Lab Sample ID:	Q1982-03MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.7
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	GPC Cleanup :	N
		Level :	LOW
		Test:	SVOC-TCL BNA -20
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142366.D	1	05/12/25 09:38	05/14/25 15:20	PB167953

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1500		170	360	ug/Kg
108-95-2	Phenol	1800		24.3	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1300		26.7	190	ug/Kg
95-57-8	2-Chlorophenol	1700		26.9	190	ug/Kg
95-48-7	2-Methylphenol	1600		32.9	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		41.3	190	ug/Kg
98-86-2	Acetophenone	1500		32.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	1700		45.2	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1600		52.2	88.1	ug/Kg
67-72-1	Hexachloroethane	1600		19.4	190	ug/Kg
98-95-3	Nitrobenzene	1700		20.1	190	ug/Kg
78-59-1	Isophorone	1600		36.1	190	ug/Kg
88-75-5	2-Nitrophenol	1800		64.1	190	ug/Kg
105-67-9	2,4-Dimethylphenol	1600		71.3	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		33.9	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		31.1	190	ug/Kg
91-20-3	Naphthalene	1500		25.0	190	ug/Kg
106-47-8	4-Chloroaniline	640		39.0	190	ug/Kg
87-68-3	Hexachlorobutadiene	1500		27.8	190	ug/Kg
105-60-2	Caprolactam	2100		57.3	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1800		31.6	190	ug/Kg
91-57-6	2-Methylnaphthalene	1600		28.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3100	E	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		21.8	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1700		32.0	190	ug/Kg
92-52-4	1,1-Biphenyl	1500		24.0	190	ug/Kg
91-58-7	2-Chloronaphthalene	1500		24.8	190	ug/Kg
88-74-4	2-Nitroaniline	1900		52.9	190	ug/Kg
131-11-3	Dimethylphthalate	1700		29.8	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-3MS	SDG No.:	Q1982
Lab Sample ID:	Q1982-03MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.7
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
BF142366.D	1	05/12/25 09:38	05/14/25 15:20	PB167953

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		31.8	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		37.0	190	ug/Kg
99-09-2	3-Nitroaniline	1400		50.6	190	ug/Kg
83-32-9	Acenaphthene	1700		23.4	190	ug/Kg
51-28-5	2,4-Dinitrophenol	4400	E	250	360	ug/Kg
100-02-7	4-Nitrophenol	4400	E	120	360	ug/Kg
132-64-9	Dibenzofuran	1600		25.0	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2200		55.1	190	ug/Kg
84-66-2	Diethylphthalate	1700		31.1	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		29.4	190	ug/Kg
86-73-7	Fluorene	1600		27.8	190	ug/Kg
100-01-6	4-Nitroaniline	2400		70.7	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2000		110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		36.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1500		30.6	190	ug/Kg
118-74-1	Hexachlorobenzene	1600		27.8	190	ug/Kg
1912-24-9	Atrazine	1900		37.4	190	ug/Kg
87-86-5	Pentachlorophenol	3800	E	56.5	360	ug/Kg
85-01-8	Phenanthrene	1500		23.0	190	ug/Kg
120-12-7	Anthracene	1500		36.7	190	ug/Kg
86-74-8	Carbazole	1600		34.3	190	ug/Kg
84-74-2	Di-n-butylphthalate	1900		52.7	190	ug/Kg
206-44-0	Fluoranthene	1700		33.0	190	ug/Kg
129-00-0	Pyrene	1400		39.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	2000		78.6	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1400		40.4	360	ug/Kg
56-55-3	Benzo(a)anthracene	1600		25.3	190	ug/Kg
218-01-9	Chrysene	1500		21.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2100		65.2	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1900		95.5	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		20.9	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-3MS	SDG No.:	Q1982
Lab Sample ID:	Q1982-03MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.7
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
BF142366.D	1	05/12/25 09:38	05/14/25 15:20	PB167953

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1500		24.7	190	ug/Kg
50-32-8	Benzo(a)pyrene	1700		32.5	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1300		32.0	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1300		30.2	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1200		28.3	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1400		28.2	190	ug/Kg
123-91-1	1,4-Dioxane	1300		49.8	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1900		30.2	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	76.3		18 - 112	51%	SPK: 150
13127-88-3	Phenol-d6	79.0		15 - 107	53%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.2		18 - 107	50%	SPK: 100
321-60-8	2-Fluorobiphenyl	45.9		20 - 109	46%	SPK: 100
118-79-6	2,4,6-Tribromophenol	92.6		10 - 116	62%	SPK: 150
1718-51-0	Terphenyl-d14	44.4		10 - 105	44%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	155000	6.898			
1146-65-2	Naphthalene-d8	632000	8.186			
15067-26-2	Acenaphthene-d10	371000	9.939			
1517-22-2	Phenanthrene-d10	712000	11.427			
1719-03-5	Chrysene-d12	525000	14.068			
1520-96-3	Perylene-d12	491000	15.557			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	CDM Smith	Date Collected:	05/08/25
Project:	South River WM Replacement	Date Received:	05/09/25
Client Sample ID:	TP-13MS	SDG No.:	Q1982
Lab Sample ID:	Q2010-02MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.4
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Level :	LOW
		GPC Cleanup :	N
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024638.D	1	05/13/25 09:05	05/15/25 15:18	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1600		180	390	ug/Kg
108-95-2	Phenol	1800		26.1	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		28.7	200	ug/Kg
95-57-8	2-Chlorophenol	1800		28.9	200	ug/Kg
95-48-7	2-Methylphenol	1700		35.4	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1600		44.4	200	ug/Kg
98-86-2	Acetophenone	1600		34.9	200	ug/Kg
65794-96-9	3+4-Methylphenols	1600		48.6	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		56.1	94.6	ug/Kg
67-72-1	Hexachloroethane	1600		20.8	200	ug/Kg
98-95-3	Nitrobenzene	1800		21.6	200	ug/Kg
78-59-1	Isophorone	1700		38.8	200	ug/Kg
88-75-5	2-Nitrophenol	2000		68.8	200	ug/Kg
105-67-9	2,4-Dimethylphenol	1900		76.6	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1700		36.4	200	ug/Kg
120-83-2	2,4-Dichlorophenol	1900		33.5	200	ug/Kg
91-20-3	Naphthalene	1800		26.9	200	ug/Kg
106-47-8	4-Chloroaniline	1100		41.9	200	ug/Kg
87-68-3	Hexachlorobutadiene	1800		29.9	200	ug/Kg
105-60-2	Caprolactam	1900		61.6	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1800		33.9	200	ug/Kg
91-57-6	2-Methylnaphthalene	1700		30.3	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4500	E	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2000		23.4	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2000		34.4	200	ug/Kg
92-52-4	1,1-Biphenyl	1800		25.8	200	ug/Kg
91-58-7	2-Chloronaphthalene	1800		26.6	200	ug/Kg
88-74-4	2-Nitroaniline	1900		56.9	200	ug/Kg
131-11-3	Dimethylphthalate	1800		32.1	200	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/08/25
Project:	South River WM Replacement	Date Received:	05/09/25
Client Sample ID:	TP-13MS	SDG No.:	Q1982
Lab Sample ID:	Q2010-02MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.4
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
BP024638.D	1	05/13/25 09:05	05/15/25 15:18	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		34.2	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	1800		39.7	200	ug/Kg
99-09-2	3-Nitroaniline	1300		54.4	200	ug/Kg
83-32-9	Acenaphthene	1800		25.2	200	ug/Kg
51-28-5	2,4-Dinitrophenol	3800	E	270	390	ug/Kg
100-02-7	4-Nitrophenol	3800	E	130	390	ug/Kg
132-64-9	Dibenzofuran	1800		26.9	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		59.3	200	ug/Kg
84-66-2	Diethylphthalate	1800		33.5	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1800		31.6	200	ug/Kg
86-73-7	Fluorene	1800		29.9	200	ug/Kg
100-01-6	4-Nitroaniline	2000		75.9	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2000		120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		38.9	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1800		32.9	200	ug/Kg
118-74-1	Hexachlorobenzene	1800		29.9	200	ug/Kg
1912-24-9	Atrazine	1900		40.2	200	ug/Kg
87-86-5	Pentachlorophenol	4300	E	60.7	390	ug/Kg
85-01-8	Phenanthrene	1800		24.7	200	ug/Kg
120-12-7	Anthracene	1800		39.4	200	ug/Kg
86-74-8	Carbazole	1900		36.9	200	ug/Kg
84-74-2	Di-n-butylphthalate	1900		56.7	200	ug/Kg
206-44-0	Fluoranthene	1800		35.5	200	ug/Kg
129-00-0	Pyrene	1900		42.6	200	ug/Kg
85-68-7	Butylbenzylphthalate	2000		84.5	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1300		43.4	390	ug/Kg
56-55-3	Benzo(a)anthracene	1800		27.2	200	ug/Kg
218-01-9	Chrysene	1800		23.5	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2000		70.0	200	ug/Kg
117-84-0	Di-n-octyl phthalate	2100		100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		22.5	200	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/08/25
Project:	South River WM Replacement	Date Received:	05/09/25
Client Sample ID:	TP-13MS	SDG No.:	Q1982
Lab Sample ID:	Q2010-02MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.4
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
BP024638.D	1	05/13/25 09:05	05/15/25 15:18	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1800		26.5	200	ug/Kg
50-32-8	Benzo(a)pyrene	1900		34.9	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1900		34.4	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1900		32.4	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1900		30.4	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1900		30.3	200	ug/Kg
123-91-1	1,4-Dioxane	1500		53.5	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1900		32.4	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	88.5		18 - 112	59%	SPK: 150
13127-88-3	Phenol-d6	85.6		15 - 107	57%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.9		18 - 107	51%	SPK: 100
321-60-8	2-Fluorobiphenyl	50.9		20 - 109	51%	SPK: 100
118-79-6	2,4,6-Tribromophenol	87.7		10 - 116	58%	SPK: 150
1718-51-0	Terphenyl-d14	48.7		10 - 105	49%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	166000		7.658		
1146-65-2	Naphthalene-d8	634000		10.428		
15067-26-2	Acenaphthene-d10	379000		14.298		
1517-22-2	Phenanthrene-d10	753000		17.098		
1719-03-5	Chrysene-d12	843000		21.527		
1520-96-3	Perylene-d12	953000		24.798		

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-3MSD	SDG No.:	Q1982
Lab Sample ID:	Q1982-03MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.7
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
BF142367.D	1	05/12/25 09:38	05/14/25 15:48	PB167953

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1500		170	360	ug/Kg
108-95-2	Phenol	1700		24.3	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1300		26.8	190	ug/Kg
95-57-8	2-Chlorophenol	1700		26.9	190	ug/Kg
95-48-7	2-Methylphenol	1600		32.9	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		41.3	190	ug/Kg
98-86-2	Acetophenone	1500		32.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	1600		45.3	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1600		52.2	88.1	ug/Kg
67-72-1	Hexachloroethane	1600		19.4	190	ug/Kg
98-95-3	Nitrobenzene	1600		20.2	190	ug/Kg
78-59-1	Isophorone	1600		36.1	190	ug/Kg
88-75-5	2-Nitrophenol	1800		64.1	190	ug/Kg
105-67-9	2,4-Dimethylphenol	1600		71.4	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		33.9	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		31.2	190	ug/Kg
91-20-3	Naphthalene	1500		25.0	190	ug/Kg
106-47-8	4-Chloroaniline	710		39.0	190	ug/Kg
87-68-3	Hexachlorobutadiene	1500		27.9	190	ug/Kg
105-60-2	Caprolactam	2000		57.4	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1700		31.6	190	ug/Kg
91-57-6	2-Methylnaphthalene	1600		28.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3200	E	130	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		21.8	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1700		32.1	190	ug/Kg
92-52-4	1,1-Biphenyl	1500		24.0	190	ug/Kg
91-58-7	2-Chloronaphthalene	1500		24.8	190	ug/Kg
88-74-4	2-Nitroaniline	1800		53.0	190	ug/Kg
131-11-3	Dimethylphthalate	1600		29.8	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-3MSD	SDG No.:	Q1982
Lab Sample ID:	Q1982-03MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.7
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
BF142367.D	1	05/12/25 09:38	05/14/25 15:48	PB167953

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1500		31.8	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		37.0	190	ug/Kg
99-09-2	3-Nitroaniline	1300		50.7	190	ug/Kg
83-32-9	Acenaphthene	1700		23.5	190	ug/Kg
51-28-5	2,4-Dinitrophenol	4200	E	250	360	ug/Kg
100-02-7	4-Nitrophenol	4100	E	120	360	ug/Kg
132-64-9	Dibenzofuran	1500		25.0	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		55.2	190	ug/Kg
84-66-2	Diethylphthalate	1600		31.2	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		29.4	190	ug/Kg
86-73-7	Fluorene	1500		27.9	190	ug/Kg
100-01-6	4-Nitroaniline	2300		70.7	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2000		110	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		36.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1500		30.6	190	ug/Kg
118-74-1	Hexachlorobenzene	1500		27.9	190	ug/Kg
1912-24-9	Atrazine	1900		37.4	190	ug/Kg
87-86-5	Pentachlorophenol	3700	E	56.5	360	ug/Kg
85-01-8	Phenanthrene	1500		23.0	190	ug/Kg
120-12-7	Anthracene	1500		36.7	190	ug/Kg
86-74-8	Carbazole	1600		34.4	190	ug/Kg
84-74-2	Di-n-butylphthalate	1900		52.8	190	ug/Kg
206-44-0	Fluoranthene	1700		33.0	190	ug/Kg
129-00-0	Pyrene	1400		39.7	190	ug/Kg
85-68-7	Butylbenzylphthalate	2000		78.6	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1400		40.4	360	ug/Kg
56-55-3	Benzo(a)anthracene	1500		25.3	190	ug/Kg
218-01-9	Chrysene	1600		21.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2100		65.2	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1800		95.6	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		20.9	190	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/06/25
Project:	South River WM Replacement	Date Received:	05/07/25
Client Sample ID:	TP-3MSD	SDG No.:	Q1982
Lab Sample ID:	Q1982-03MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	90.7
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
BF142367.D	1	05/12/25 09:38	05/14/25 15:48	PB167953

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		24.7	190	ug/Kg
50-32-8	Benzo(a)pyrene	1600		32.5	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1400		32.1	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1400		30.2	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300		28.3	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1400		28.2	190	ug/Kg
123-91-1	1,4-Dioxane	1300		49.8	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		30.2	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	76.0		18 - 112	51%	SPK: 150
13127-88-3	Phenol-d6	77.9		15 - 107	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.0		18 - 107	50%	SPK: 100
321-60-8	2-Fluorobiphenyl	45.5		20 - 109	45%	SPK: 100
118-79-6	2,4,6-Tribromophenol	89.1		10 - 116	59%	SPK: 150
1718-51-0	Terphenyl-d14	44.1		10 - 105	44%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	163000	6.898			
1146-65-2	Naphthalene-d8	663000	8.186			
15067-26-2	Acenaphthene-d10	384000	9.939			
1517-22-2	Phenanthrene-d10	696000	11.427			
1719-03-5	Chrysene-d12	505000	14.068			
1520-96-3	Perylene-d12	464000	15.557			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	CDM Smith	Date Collected:	05/08/25
Project:	South River WM Replacement	Date Received:	05/09/25
Client Sample ID:	TP-13MSD	SDG No.:	Q1982
Lab Sample ID:	Q2010-02MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.4
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	GPC Cleanup :	N
		Level :	LOW
		Test:	SVOC-TCL BNA -20
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024639.D	1	05/13/25 09:05	05/15/25 15:59	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1600		180	390	ug/Kg
108-95-2	Phenol	1900		26.2	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		28.8	200	ug/Kg
95-57-8	2-Chlorophenol	1900		28.9	200	ug/Kg
95-48-7	2-Methylphenol	1800		35.4	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1700		44.4	200	ug/Kg
98-86-2	Acetophenone	1800		34.9	200	ug/Kg
65794-96-9	3+4-Methylphenols	1800		48.7	390	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1600		56.1	94.8	ug/Kg
67-72-1	Hexachloroethane	1700		20.8	200	ug/Kg
98-95-3	Nitrobenzene	1800		21.7	200	ug/Kg
78-59-1	Isophorone	1700		38.8	200	ug/Kg
88-75-5	2-Nitrophenol	2000		68.9	200	ug/Kg
105-67-9	2,4-Dimethylphenol	1900		76.8	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1800		36.5	200	ug/Kg
120-83-2	2,4-Dichlorophenol	1900		33.5	200	ug/Kg
91-20-3	Naphthalene	1800		26.9	200	ug/Kg
106-47-8	4-Chloroaniline	1100		41.9	200	ug/Kg
87-68-3	Hexachlorobutadiene	1800		30.0	200	ug/Kg
105-60-2	Caprolactam	1800		61.7	390	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1800		34.0	200	ug/Kg
91-57-6	2-Methylnaphthalene	1800		30.3	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4500	E	140	390	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2000		23.5	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2000		34.5	200	ug/Kg
92-52-4	1,1-Biphenyl	1900		25.8	200	ug/Kg
91-58-7	2-Chloronaphthalene	1900		26.6	200	ug/Kg
88-74-4	2-Nitroaniline	2000		57.0	200	ug/Kg
131-11-3	Dimethylphthalate	1800		32.1	200	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/08/25
Project:	South River WM Replacement	Date Received:	05/09/25
Client Sample ID:	TP-13MSD	SDG No.:	Q1982
Lab Sample ID:	Q2010-02MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.4
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
BP024639.D	1	05/13/25 09:05	05/15/25 15:59	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		34.2	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	1800		39.8	200	ug/Kg
99-09-2	3-Nitroaniline	1300		54.5	200	ug/Kg
83-32-9	Acenaphthene	1800		25.2	200	ug/Kg
51-28-5	2,4-Dinitrophenol	3800	E	270	390	ug/Kg
100-02-7	4-Nitrophenol	3800	E	130	390	ug/Kg
132-64-9	Dibenzofuran	1800		26.9	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		59.3	200	ug/Kg
84-66-2	Diethylphthalate	1800		33.5	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1800		31.6	200	ug/Kg
86-73-7	Fluorene	1800		30.0	200	ug/Kg
100-01-6	4-Nitroaniline	1900		76.0	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2000		120	390	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1900		39.0	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1900		32.9	200	ug/Kg
118-74-1	Hexachlorobenzene	1800		30.0	200	ug/Kg
1912-24-9	Atrazine	1900		40.3	200	ug/Kg
87-86-5	Pentachlorophenol	4300	E	60.8	390	ug/Kg
85-01-8	Phenanthrene	1800		24.8	200	ug/Kg
120-12-7	Anthracene	1800		39.4	200	ug/Kg
86-74-8	Carbazole	1900		37.0	200	ug/Kg
84-74-2	Di-n-butylphthalate	1900		56.7	200	ug/Kg
206-44-0	Fluoranthene	1800		35.5	200	ug/Kg
129-00-0	Pyrene	1900		42.6	200	ug/Kg
85-68-7	Butylbenzylphthalate	2000		84.6	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1300		43.5	390	ug/Kg
56-55-3	Benzo(a)anthracene	1900		27.2	200	ug/Kg
218-01-9	Chrysene	1800		23.6	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1900		70.1	200	ug/Kg
117-84-0	Di-n-octyl phthalate	2000		100	390	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		22.5	200	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/08/25
Project:	South River WM Replacement	Date Received:	05/09/25
Client Sample ID:	TP-13MSD	SDG No.:	Q1982
Lab Sample ID:	Q2010-02MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.4
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
BP024639.D	1	05/13/25 09:05	05/15/25 15:59	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1800		26.5	200	ug/Kg
50-32-8	Benzo(a)pyrene	1900		34.9	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1900		34.5	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1900		32.5	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1900		30.4	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1900		30.3	200	ug/Kg
123-91-1	1,4-Dioxane	1500		53.5	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1900		32.5	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	90.4		18 - 112	60%	SPK: 150
13127-88-3	Phenol-d6	88.1		15 - 107	59%	SPK: 150
4165-60-0	Nitrobenzene-d5	52.4		18 - 107	52%	SPK: 100
321-60-8	2-Fluorobiphenyl	50.9		20 - 109	51%	SPK: 100
118-79-6	2,4,6-Tribromophenol	86.5		10 - 116	58%	SPK: 150
1718-51-0	Terphenyl-d14	49.8		10 - 105	50%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	160000	7.657			
1146-65-2	Naphthalene-d8	629000	10.428			
15067-26-2	Acenaphthene-d10	376000	14.298			
1517-22-2	Phenanthrene-d10	727000	17.104			
1719-03-5	Chrysene-d12	786000	21.527			
1520-96-3	Perylene-d12	909000	24.798			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

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E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF050525.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Mon May 05 18:41:44 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BF142295.D 5 =BF142296.D 10 =BF142297.D 20 =BF142298.D 40 =BF142299.D 50 =BF142300.D 60 =BF142301.D 80 =BF142302.D

Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD

1) I 1,4-Dichlorobenzen...	-----ISTD-----									
2) 1,4-Dioxane	0.553	0.527	0.535	0.503	0.543	0.521	0.511	0.528		3.36
3) Pyridine	1.159	1.233	1.210	1.176	1.311	1.312	1.270	1.239		4.99
4) n-Nitrosodimet...	0.718	0.707	0.729	0.696	0.759	0.726	0.705	0.720		2.88
5) S 2-Fluorophenol	1.212	1.177	1.211	1.126	1.224	1.165	1.086	1.172		4.35
6) Aniline	0.955	1.370	1.568	1.467	1.543	1.519	1.472	1.413		15.03
7) S Phenol-d6	1.510	1.458	1.489	1.375	1.500	1.419	1.336	1.441		4.64
8) 2-Chlorophenol	1.202	1.223	1.263	1.221	1.346	1.283	1.225	1.252		4.00
9) Benzaldehyde	1.049	0.959	0.903	0.734	0.752	0.663		0.843		17.74
10) C Phenol	1.599	1.528	1.584	1.472	1.580	1.524	1.405	1.527		4.55
11) bis(2-Chloroet...	1.789	1.543	1.510	1.353	1.516	1.441	1.392	1.506		9.49
12) 1,3-Dichlorobe...	1.555	1.505	1.466	1.347	1.477	1.379	1.298	1.432		6.48
13) C 1,4-Dichlorobe...	1.562	1.499	1.486	1.364	1.476	1.386	1.294	1.438		6.46
14) 1,2-Dichlorobe...	1.480	1.432	1.415	1.317	1.424	1.340	1.254	1.380		5.71
15) Benzyl Alcohol	0.816	0.843	0.933	0.928	1.030	1.008	0.972	0.933		8.56
16) 2,2'-oxybis(1-...	2.379	2.310	2.325	2.135	2.341	2.211	2.044	2.249		5.48
17) 2-Methylphenol	1.033	1.008	1.022	0.972	1.070	1.013	0.978	1.014		3.30
18) Hexachloroethane	0.473	0.464	0.488	0.463	0.511	0.487	0.463	0.478		3.78
19) P n-Nitroso-di-n...	0.840	0.943	0.915	0.918	0.860	0.933	0.885	0.837	0.891	4.69
20) 3+4-Methylphenols	1.354	1.281	1.322	1.218	1.333	1.226	1.121	1.265		6.48
21) I Naphthalene-d8	-----ISTD-----									
22) Acetophenone	0.505	0.474	0.464	0.416	0.446	0.419	0.389	0.445		8.95
23) S Nitrobenzene-d5	0.289	0.304	0.336	0.327	0.360	0.348	0.332	0.328		7.48
24) Nitrobenzene	0.281	0.293	0.316	0.306	0.337	0.325	0.305	0.309		6.05
25) Isophorone	0.639	0.623	0.630	0.586	0.648	0.622	0.598	0.621		3.53
26) C 2-Nitrophenol	0.089	0.097	0.121	0.132	0.154	0.155	0.155	0.129		21.55
27) 2,4-Dimethylph...	0.311	0.314	0.321	0.298	0.329	0.314	0.299	0.312		3.55
28) bis(2-Chloroet...	0.430	0.414	0.418	0.374	0.408	0.386	0.366	0.399		6.09
29) C 2,4-Dichloroph...	0.245	0.251	0.278	0.263	0.288	0.274	0.260	0.265		5.71
30) 1,2,4-Trichlor...	0.329	0.309	0.309	0.281	0.304	0.289	0.271	0.299		6.60
31) Naphthalene	1.102	1.031	1.028	0.906	0.978	0.906	0.835	0.969		9.52
32) Benzoic acid		0.084	0.117	0.140	0.178	0.186	0.194	0.150		29.22
33) 4-Chloroaniline	0.373	0.373	0.398	0.383	0.435	0.415	0.392	0.396		5.80
34) C Hexachlorobuta...	0.188	0.182	0.181	0.168	0.185	0.173	0.162	0.177		5.32
35) Caprolactam	0.063	0.068	0.078	0.079	0.088	0.083	0.082	0.077		11.39
36) C 4-Chloro-3-met...	0.281	0.270	0.283	0.265	0.290	0.279	0.262	0.276		3.68
37) 2-Methylnaphth...	0.672	0.636	0.635	0.569	0.615	0.568	0.521	0.602		8.60
38) 1-Methylnaphth...	0.710	0.675	0.665	0.594	0.630	0.587	0.535	0.628		9.59

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF050525.M

39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.600	0.586	0.586	0.515	0.574	0.538	0.512	0.559	6.51	
41) P	Hexachlorocycl...	0.286	0.303	0.349	0.343	0.388	0.379	0.369	0.345	11.16	
42) S	2,4,6-Tribromo...	0.161	0.176	0.198	0.191	0.218	0.210	0.197	0.193	10.16	
43) C	2,4,6-Trichlor...	0.306	0.320	0.360	0.351	0.393	0.371	0.365	0.352	8.53	
44)	2,4,5-Trichlor...	0.339	0.353	0.390	0.363	0.413	0.397	0.369	0.375	7.00	
45) S	2-Fluorobiphenyl	1.737	1.605	1.532	1.272	1.337	1.246	1.090	1.403	16.29	
46)	1,1'-Biphenyl	1.727	1.641	1.637	1.411	1.567	1.442	1.310	1.533	9.75	
47)	2-Chloronaphth...	1.256	1.198	1.193	1.058	1.155	1.106	1.018	1.140	7.40	
48)	2-Nitroaniline	0.205	0.240	0.292	0.298	0.344	0.337	0.330	0.292	17.90	
49)	Acenaphthylene	2.083	2.025	2.009	1.783	1.958	1.830	1.665	1.908	7.94	
50)	Dimethylphthalate	1.338	1.295	1.344	1.210	1.342	1.275	1.186	1.284	5.04	
51)	2,6-Dinitrotol...	0.172	0.206	0.242	0.245	0.280	0.273	0.263	0.240	16.19	
52) C	Acenaphthene	1.260	1.191	1.200	1.066	1.180	1.111	1.021	1.147	7.32	
53)	3-Nitroaniline	0.206	0.238	0.288	0.286	0.329	0.319	0.307	0.282	15.80	
54) P	2,4-Dinitrophenol		0.062	0.083	0.097	0.120	0.124	0.127	0.102	25.44	
55)	Dibenzofuran	1.932	1.790	1.801	1.555	1.711	1.609	1.453	1.693	9.72	
56) P	4-Nitrophenol	0.159	0.178	0.210	0.214	0.253	0.240	0.231	0.212	15.82	
57)	2,4-Dinitrotol...	0.222	0.250	0.303	0.318	0.368	0.355	0.341	0.308	17.63	
58)	Fluorene	1.521	1.407	1.374	1.195	1.283	1.183	1.080	1.292	11.77	
59)	2,3,4,6-Tetrac...	0.266	0.288	0.320	0.305	0.344	0.329	0.314	0.309	8.38	
60)	Diethylphthalate	1.344	1.325	1.355	1.207	1.344	1.252	1.151	1.283	6.27	
61)	4-Chlorophenyl...	0.699	0.666	0.658	0.577	0.638	0.590	0.535	0.623	9.26	
62)	4-Nitroaniline	0.207	0.230	0.248	0.225	0.240	0.219	0.195	0.223	8.23	
63)	Azobenzene	1.338	1.271	1.285	1.132	1.270	1.185	1.098	1.226	7.23	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.052	0.068	0.081	0.094	0.098	0.101	0.082	23.49	
66) c	n-Nitrosodiphe...	0.704	0.683	0.693	0.629	0.686	0.654	0.610	0.666	5.28	
67)	4-Bromophenyl-...	0.230	0.227	0.232	0.216	0.238	0.227	0.217	0.227	3.44	
68)	Hexachlorobenzene	0.264	0.246	0.253	0.237	0.258	0.248	0.240	0.249	3.84	
69)	Atrazine	0.157	0.165	0.176	0.174	0.196	0.185	0.175	0.175	7.17	
70) C	Pentachlorophenol	0.094	0.109	0.130	0.139	0.153	0.150	0.144	0.131	16.65	
71)	Phenanthrene	1.193	1.102	1.105	0.988	1.058	0.987	0.906	1.048	9.14	
72)	Anthracene	1.210	1.136	1.134	1.018	1.093	1.023	0.927	1.077	8.77	
73)	Carbazole	1.065	1.016	1.024	0.926	0.986	0.911	0.837	0.966	8.17	
74)	Di-n-butylphth...	0.957	1.022	1.082	1.013	1.093	1.019	0.928	1.016	5.91	
75) C	Fluoranthene	1.198	1.154	1.128	0.985	1.051	0.956	0.863	1.048	11.46	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine		0.272	0.384	0.358	0.426	0.403	0.337	0.363	15.09	
78)	Pyrene	1.822	1.748	1.902	1.705	1.912	1.817	1.555	1.780	6.99	
79) S	Terphenyl-d14	1.493	1.424	1.460	1.255	1.390	1.314	1.123	1.351	9.61	
80)	Butylbenzylpht...	0.282	0.330	0.439	0.469	0.545	0.549	0.527	0.449	23.70	
81)	Benzo(a)anthra...	1.370	1.299	1.317	1.238	1.354	1.296	1.192	1.295	4.84	
82)	3,3'-Dichlorob...	0.250	0.279	0.316	0.296	0.327	0.323	0.317	0.301	9.40	
83)	Chrysene	1.294	1.227	1.247	1.104	1.238	1.203	1.128	1.206	5.59	
84)	Bis(2-ethylhex...	0.328	0.417	0.557	0.601	0.699	0.716	0.697	0.573	26.35	
85) c	Di-n-octyl pht...		0.586	0.856	1.029	1.242	1.315	1.317	1.057	27.77	

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF050525.M

86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.152	1.281	1.421	1.384	1.596	1.504	1.402	1.391	10.38
88)	Benzo(b)fluora...	1.312	1.216	1.227	1.163	1.263	1.142	1.156	1.211	5.14
89)	Benzo(k)fluora...	1.158	1.142	1.164	1.040	1.172	1.114	0.969	1.109	6.88
90) C	Benzo(a)pyrene	1.034	1.042	1.102	1.066	1.183	1.119	1.054	1.085	4.88
91)	Dibenzo(a,h)an...	0.987	1.066	1.194	1.137	1.308	1.224	1.129	1.149	9.17
92)	Benzo(g,h,i)pe...	0.971	1.056	1.175	1.120	1.295	1.225	1.143	1.141	9.37

(#) = Out of Range

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
 Method File : 8270E-BP051325.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue May 13 16:21:39 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BP024614.D 5 =BP024615.D 10 =BP024616.D 20 =BP024617.D 40 =BP024618.D 50 =BP024619.D 60 =BP024620.D 80 =BP024621.D

Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD

1) I 1,4-Dichlorobenzen...	-----ISTD-----									
2) 1,4-Dioxane		0.641	0.557	0.535	0.505	0.562	0.530	0.513	0.549	8.31
3) Pyridine		1.054	1.135	1.202	1.198	1.363	1.307	1.263	1.218	8.57
4) n-Nitrosodimet...		0.536	0.507	0.527	0.517	0.580	0.557	0.537	0.538	4.61
5) S 2-Fluorophenol		1.134	1.096	1.162	1.105	1.272	1.223	1.193	1.169	5.50
6) Aniline		1.717	1.703	1.932	1.917	2.130	2.091	1.999	1.927	8.67
7) S Phenol-d6		1.301	1.344	1.486	1.472	1.671	1.620	1.552	1.492	9.09
8) 2-Chlorophenol		1.200	1.204	1.311	1.303	1.465	1.433	1.376	1.327	7.83
9) Benzaldehyde		0.991	1.008	1.046	0.955	1.043	0.954	0.766	0.966	9.91
10) C Phenol		1.373	1.401	1.526	1.509	1.707	1.670	1.597	1.540	8.24
11) bis(2-Chloroet...		1.317	1.170	1.257	1.213	1.357	1.299	1.247	1.266	5.04
12) 1,3-Dichlorobe...		1.596	1.487	1.520	1.440	1.622	1.546	1.480	1.527	4.29
13) C 1,4-Dichlorobe...		1.558	1.505	1.525	1.470	1.637	1.567	1.491	1.536	3.67
14) 1,2-Dichlorobe...		1.530	1.467	1.498	1.426	1.579	1.529	1.449	1.497	3.56
15) Benzyl Alcohol		0.883	0.950	1.128	1.149	1.306	1.288	1.236	1.134	14.43
16) 2,2'-oxybis(1-...		1.543	1.445	1.520	1.467	1.617	1.564	1.454	1.516	4.22
17) 2-Methylphenol		0.966	0.949	1.105	1.099	1.246	1.213	1.154	1.105	10.30
18) Hexachloroethane		0.606	0.591	0.582	0.551	0.623	0.597	0.570	0.589	4.04
19) P n-Nitroso-di-n...	0.880	0.977	0.967	1.086	1.048	1.142	1.132	1.026	1.032	8.63
20) 3+4-Methylphenols		1.221	1.302	1.503	1.515	1.702	1.692	1.584	1.503	12.21
21) I Naphthalene-d8	-----ISTD-----									
22) Acetophenone		0.486	0.481	0.511	0.483	0.534	0.512	0.491	0.500	3.97
23) S Nitrobenzene-d5		0.381	0.376	0.401	0.382	0.429	0.408	0.394	0.396	4.67
24) Nitrobenzene		0.333	0.340	0.355	0.337	0.373	0.356	0.344	0.348	4.03
25) Isophorone		0.644	0.640	0.695	0.673	0.753	0.721	0.682	0.687	5.91
26) C 2-Nitrophenol		0.135	0.143	0.168	0.172	0.196	0.192	0.189	0.171	14.05
27) 2,4-Dimethylph...		0.273	0.279	0.300	0.298	0.329	0.318	0.309	0.301	6.60
28) bis(2-Chloroet...		0.403	0.391	0.411	0.399	0.443	0.419	0.405	0.410	4.15
29) C 2,4-Dichloroph...		0.250	0.258	0.290	0.291	0.327	0.316	0.309	0.292	9.96
30) 1,2,4-Trichlor...		0.346	0.322	0.327	0.306	0.347	0.329	0.323	0.329	4.33
31) Naphthalene		1.064	1.026	1.049	0.980	1.091	1.037	1.007	1.036	3.54
32) Benzoic acid			0.089	0.146	0.191	0.215	0.220	0.225	0.181	29.55
33) 4-Chloroaniline		0.348	0.371	0.420	0.418	0.465	0.462	0.442	0.418	10.62
34) C Hexachlorobuta...		0.231	0.214	0.211	0.198	0.222	0.209	0.206	0.213	5.08
35) Caprolactam		0.082	0.092	0.104	0.109	0.121	0.121	0.110	0.106	13.80
36) C 4-Chloro-3-met...		0.316	0.325	0.358	0.356	0.391	0.384	0.359	0.356	7.78
37) 2-Methylnaphth...		0.673	0.654	0.670	0.640	0.713	0.693	0.654	0.671	3.73
38) 1-Methylnaphth...		0.741	0.700	0.720	0.690	0.751	0.733	0.690	0.718	3.47

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
 Method File : 8270E-BP051325.M

39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.593	0.558	0.574	0.549	0.625	0.580	0.586	0.581	4.26	
41) P	Hexachlorocycl...	0.250	0.276	0.350	0.356	0.420	0.391	0.421	0.352	19.02	
42) S	2,4,6-Tribromo...	0.324	0.321	0.335	0.323	0.369	0.357	0.346	0.339	5.49	
43) C	2,4,6-Trichlor...	0.305	0.341	0.375	0.371	0.428	0.410	0.402	0.376	11.29	
44)	2,4,5-Trichlor...	0.376	0.375	0.418	0.404	0.471	0.447	0.440	0.419	8.68	
45) S	2-Fluorobiphenyl	1.601	1.498	1.553	1.432	1.602	1.515	1.485	1.527	4.10	
46)	1,1'-Biphenyl	1.524	1.434	1.492	1.383	1.586	1.473	1.456	1.478	4.40	
47)	2-Chloronaphth...	1.147	1.106	1.131	1.065	1.196	1.132	1.113	1.127	3.56	
48)	2-Nitroaniline	0.279	0.304	0.331	0.335	0.381	0.364	0.343	0.334	10.28	
49)	Acenaphthylene	1.845	1.818	1.920	1.804	2.029	1.930	1.856	1.886	4.19	
50)	Dimethylphthalate	1.570	1.527	1.518	1.450	1.611	1.535	1.460	1.524	3.73	
51)	2,6-Dinitrotol...	0.299	0.308	0.326	0.312	0.354	0.337	0.319	0.322	5.75	
52) C	Acenaphthene	1.105	1.054	1.094	1.028	1.159	1.099	1.052	1.084	4.02	
53)	3-Nitroaniline	0.258	0.275	0.329	0.340	0.379	0.370	0.350	0.329	14.04	
54) P	2,4-Dinitrophenol		0.098	0.143	0.172	0.201	0.201	0.201	0.169	24.79	
55)	Dibenzofuran	1.810	1.716	1.740	1.633	1.816	1.733	1.658	1.730	4.00	
56) P	4-Nitrophenol		0.159	0.222	0.257	0.299	0.288	0.274	0.250	20.82	
57)	2,4-Dinitrotol...	0.400	0.422	0.456	0.454	0.508	0.483	0.454	0.454	7.87	
58)	Fluorene	1.466	1.415	1.410	1.336	1.494	1.410	1.341	1.410	4.14	
59)	2,3,4,6-Tetrac...	0.367	0.364	0.381	0.379	0.428	0.406	0.394	0.388	5.89	
60)	Diethylphthalate	1.593	1.542	1.537	1.444	1.639	1.563	1.468	1.541	4.40	
61)	4-Chlorophenyl...	0.752	0.697	0.700	0.656	0.741	0.709	0.668	0.703	5.01	
62)	4-Nitroaniline	0.228	0.259	0.326	0.330	0.375	0.363	0.341	0.317	17.06	
63)	Azobenzene	1.327	1.299	1.356	1.250	1.407	1.343	1.243	1.318	4.45	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.094	0.120	0.129	0.149	0.143	0.141	0.129	15.64	
66) c	n-Nitrosodiphe...	0.603	0.589	0.627	0.593	0.667	0.621	0.600	0.614	4.41	
67)	4-Bromophenyl-...	0.231	0.223	0.237	0.226	0.252	0.242	0.240	0.236	4.31	
68)	Hexachlorobenzene	0.303	0.288	0.298	0.282	0.321	0.304	0.300	0.299	4.25	
69)	Atrazine	0.210	0.209	0.227	0.218	0.248	0.237	0.226	0.225	6.32	
70) C	Pentachlorophenol	0.124	0.137	0.163	0.172	0.198	0.191	0.192	0.168	17.12	
71)	Phenanthrene	1.144	1.085	1.125	1.051	1.170	1.125	1.083	1.112	3.68	
72)	Anthracene	1.097	1.064	1.142	1.075	1.205	1.139	1.108	1.119	4.31	
73)	Carbazole	0.923	0.944	1.039	1.001	1.114	1.053	1.013	1.012	6.43	
74)	Di-n-butylphth...	1.182	1.218	1.332	1.260	1.447	1.363	1.313	1.302	6.97	
75) C	Fluoranthene	1.271	1.254	1.314	1.250	1.399	1.337	1.272	1.300	4.18	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine		0.362	0.543	0.560	0.657	0.599	0.548	0.545	18.22	
78)	Pyrene	1.184	1.137	1.197	1.153	1.273	1.222	1.223	1.198	3.85	
79) S	Terphenyl-d14	1.192	1.113	1.165	1.125	1.226	1.175	1.167	1.166	3.30	
80)	Butylbenzylphth...	0.458	0.465	0.537	0.527	0.604	0.571	0.569	0.533	10.28	
81)	Benzo(a)anthra...	1.251	1.218	1.253	1.208	1.336	1.275	1.250	1.256	3.36	
82)	3,3'-Dichlorob...	0.357	0.392	0.474	0.477	0.539	0.511	0.514	0.466	14.45	
83)	Chrysene	1.214	1.180	1.185	1.131	1.255	1.188	1.180	1.190	3.16	
84)	Bis(2-ethylhex...	0.673	0.683	0.801	0.766	0.884	0.836	0.841	0.783	10.32	
85) c	Di-n-octyl pht...	1.048	1.116	1.272	1.280	1.458	1.376	1.417	1.281	11.95	

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP051325.M

86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.341	1.357	1.447	1.424	1.608	1.549	1.494	1.460	6.70
88)	Benzo(b)fluora...	1.028	1.070	1.152	1.103	1.288	1.184	1.189	1.145	7.58
89)	Benzo(k)fluora...	1.147	1.106	1.182	1.140	1.258	1.238	1.185	1.180	4.59
90) C	Benzo(a)pyrene	0.995	1.001	1.112	1.064	1.221	1.167	1.136	1.099	7.68
91)	Dibenzo(a,h)an...	1.068	1.066	1.186	1.167	1.321	1.271	1.236	1.188	8.18
92)	Benzo(g,h,i)pe...	1.101	1.106	1.167	1.147	1.294	1.242	1.212	1.181	6.07

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG No.: Q1982

Instrument ID: BNA_F Calibration Date/Time: 05/14/2025 12:19

Lab File ID: BF142360.D Init. Calib. Date(s): 05/05/2025 05/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:54 17:15

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.172	1.192		1.7	
Benzaldehyde	0.843	0.731		-13.3	
Phenol-d6	1.441	1.456		1.0	
Phenol	1.531	1.662		8.6	20.0
bis(2-Chloroethyl)ether	1.506	1.243		-17.5	
2-Chlorophenol	1.252	1.302		4.0	
2-Methylphenol	1.014	1.011		-0.3	
2,2-oxybis(1-Chloropropane)	2.249	2.070		-8.0	
Acetophenone	0.445	0.431		-3.1	
3+4-Methylphenols	1.265	1.279		1.1	
n-Nitroso-di-n-propylamine	0.891	0.846	0.050	-5.1	
Nitrobenzene-d5	0.328	0.358		9.1	
Hexachloroethane	0.478	0.481		0.6	
Nitrobenzene	0.309	0.334		8.1	
Isophorone	0.621	0.593		-4.5	
2-Nitrophenol	0.129	0.169		31.0	20.0
2,4-Dimethylphenol	0.312	0.313		0.3	
bis(2-Chloroethoxy)methane	0.399	0.370		-7.3	
2,4-Dichlorophenol	0.265	0.275		3.8	20.0
Naphthalene	0.969	0.947		-2.3	
4-Chloroaniline	0.395	0.403		2.0	
Hexachlorobutadiene	0.177	0.173		-2.3	20.0
Caprolactam	0.077	0.087		13.0	
4-Chloro-3-methylphenol	0.276	0.283		2.5	20.0
2-Methylnaphthalene	0.602	0.579		-3.8	
Hexachlorocyclopentadiene	0.345	0.379	0.050	9.9	
2,4,6-Trichlorophenol	0.352	0.383		8.8	20.0
2-Fluorobiphenyl	1.403	1.321		-5.8	
2,4,5-Trichlorophenol	0.375	0.389		3.7	
1,1-Biphenyl	1.533	1.472		-4.0	
2-Chloronaphthalene	1.140	1.099		-3.6	
2-Nitroaniline	0.292	0.342		17.1	
Dimethylphthalate	1.284	1.233		-4.0	
Acenaphthylene	1.908	1.859		-2.6	
2,6-Dinitrotoluene	0.240	0.275		14.6	
3-Nitroaniline	0.282	0.327		16.0	
Acenaphthene	1.147	1.128		-1.7	20.0
2,4-Dinitrophenol	0.102	0.141	0.050	38.2	
4-Nitrophenol	0.212	0.257	0.050	21.2	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG No.: Q1982

Instrument ID: BNA_F Calibration Date/Time: 05/14/2025 12:19

Lab File ID: BF142360.D Init. Calib. Date(s): 05/05/2025 05/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:54 17:15

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.693	1.628		-3.8	
2,4-Dinitrotoluene	0.308	0.369		19.8	
Diethylphthalate	1.283	1.187		-7.5	
4-Chlorophenyl-phenylether	0.623	0.587		-5.8	
Fluorene	1.292	1.225		-5.2	
4-Nitroaniline	0.223	0.251		12.6	
4,6-Dinitro-2-methylphenol	0.082	0.105		28.0	
n-Nitrosodiphenylamine	0.666	0.647		-2.9	20.0
2,4,6-Tribromophenol	0.193	0.212		9.8	
4-Bromophenyl-phenylether	0.227	0.218		-4.0	
Hexachlorobenzene	0.249	0.244		-2.0	
Atrazine	0.175	0.177		1.1	
Pentachlorophenol	0.131	0.153		16.8	20.0
Phenanthrene	1.048	1.019		-2.8	
Anthracene	1.077	1.055		-2.0	
Carbazole	0.966	0.954		-1.2	
Di-n-butylphthalate	1.016	0.953		-6.2	
Fluoranthene	1.048	0.997		-4.9	20.0
Pyrene	1.780	1.920		7.9	
Terphenyl-d14	1.351	1.365		1.0	
Butylbenzylphthalate	0.449	0.448		-0.2	
3,3-Dichlorobenzidine	0.301	0.337		12.0	
Benzo (a) anthracene	1.295	1.261		-2.6	
Chrysene	1.206	1.176		-2.5	
Bis(2-ethylhexyl)phthalate	0.573	0.527		-8.0	
Di-n-octyl phthalate	1.057	1.002		-5.2	20.0
Benzo (b) fluoranthene	1.211	1.096		-9.5	
Benzo (k) fluoranthene	1.109	1.080		-2.6	
Benzo (a) pyrene	1.085	1.091		0.6	20.0
Indeno (1,2,3-cd) pyrene	1.391	1.485		6.8	
Dibenzo (a,h) anthracene	1.149	1.204		4.8	
Benzo (g,h,i) perylene	1.141	1.225		7.4	
1,2,4,5-Tetrachlorobenzene	0.559	0.544		-2.7	
1,4-Dioxane	0.528	0.529		0.2	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.334		8.1	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG No.: Q1982

Instrument ID: BNA_F Calibration Date/Time: 05/15/2025 15:41

Lab File ID: BF142393.D Init. Calib. Date(s): 05/05/2025 05/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:54 17:15

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.172	1.241		5.9	
Benzaldehyde	0.843	0.816		-3.2	
Phenol-d6	1.441	1.485		3.1	
Phenol	1.531	1.695		10.7	20.0
bis(2-Chloroethyl)ether	1.506	1.233		-18.1	
2-Chlorophenol	1.252	1.345		7.4	
2-Methylphenol	1.014	1.038		2.4	
2,2-oxybis(1-Chloropropane)	2.249	2.063		-8.3	
Acetophenone	0.445	0.450		1.1	
3+4-Methylphenols	1.265	1.272		0.6	
n-Nitroso-di-n-propylamine	0.891	0.839	0.050	-5.8	
Nitrobenzene-d5	0.328	0.381		16.2	
Hexachloroethane	0.478	0.508		6.3	
Nitrobenzene	0.309	0.348		12.6	
Isophorone	0.621	0.610		-1.8	
2-Nitrophenol	0.129	0.191		48.1	20.0
2,4-Dimethylphenol	0.312	0.334		7.1	
bis(2-Chloroethoxy)methane	0.399	0.386		-3.3	
2,4-Dichlorophenol	0.265	0.295		11.3	20.0
Naphthalene	0.969	1.000		3.2	
4-Chloroaniline	0.395	0.410		3.8	
Hexachlorobutadiene	0.177	0.189		6.8	20.0
Caprolactam	0.077	0.088		14.3	
4-Chloro-3-methylphenol	0.276	0.289		4.7	20.0
2-Methylnaphthalene	0.602	0.607		0.8	
Hexachlorocyclopentadiene	0.345	0.400	0.050	15.9	
2,4,6-Trichlorophenol	0.352	0.415		17.9	20.0
2-Fluorobiphenyl	1.403	1.411		0.6	
2,4,5-Trichlorophenol	0.375	0.420		12.0	
1,1-Biphenyl	1.533	1.588		3.6	
2-Chloronaphthalene	1.140	1.175		3.1	
2-Nitroaniline	0.292	0.366		25.3	
Dimethylphthalate	1.284	1.323		3.0	
Acenaphthylene	1.908	1.964		2.9	
2,6-Dinitrotoluene	0.240	0.296		23.3	
3-Nitroaniline	0.282	0.341		20.9	
Acenaphthene	1.147	1.207		5.2	20.0
2,4-Dinitrophenol	0.102	0.161	0.050	57.8	
4-Nitrophenol	0.212	0.262	0.050	23.6	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG No.: Q1982

Instrument ID: BNA_F Calibration Date/Time: 05/15/2025 15:41

Lab File ID: BF142393.D Init. Calib. Date(s): 05/05/2025 05/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:54 17:15

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.693	1.726		1.9	
2,4-Dinitrotoluene	0.308	0.398		29.2	
Diethylphthalate	1.283	1.261		-1.7	
4-Chlorophenyl-phenylether	0.623	0.632		1.4	
Fluorene	1.292	1.291		-0.1	
4-Nitroaniline	0.223	0.289		29.6	
4,6-Dinitro-2-methylphenol	0.082	0.126		53.7	
n-Nitrosodiphenylamine	0.666	0.707		6.2	20.0
2,4,6-Tribromophenol	0.193	0.224		16.1	
4-Bromophenyl-phenylether	0.227	0.237		4.4	
Hexachlorobenzene	0.249	0.266		6.8	
Atrazine	0.175	0.193		10.3	
Pentachlorophenol	0.131	0.161		22.9	20.0
Phenanthrene	1.048	1.080		3.1	
Anthracene	1.077	1.097		1.9	
Carbazole	0.966	0.961		-0.5	
Di-n-butylphthalate	1.016	0.974		-4.1	
Fluoranthene	1.048	0.943		-10.0	20.0
Pyrene	1.780	1.748		-1.8	
Terphenyl-d14	1.351	1.252		-7.3	
Butylbenzylphthalate	0.449	0.507		12.9	
3,3-Dichlorobenzidine	0.301	0.454		50.8	
Benzo (a) anthracene	1.295	1.376		6.3	
Chrysene	1.206	1.208		0.2	
Bis(2-ethylhexyl)phthalate	0.573	0.662		15.5	
Di-n-octyl phthalate	1.057	1.337		26.5	20.0
Benzo (b) fluoranthene	1.211	1.251		3.3	
Benzo (k) fluoranthene	1.109	1.029		-7.2	
Benzo (a) pyrene	1.085	1.150		6.0	20.0
Indeno (1,2,3-cd) pyrene	1.391	1.481		6.5	
Dibenzo (a,h) anthracene	1.149	1.194		3.9	
Benzo (g,h,i) perylene	1.141	1.201		5.3	
1,2,4,5-Tetrachlorobenzene	0.559	0.597		6.8	
1,4-Dioxane	0.528	0.533		0.9	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.354		14.6	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG No.: Q1982

Instrument ID: BNA_F Calibration Date/Time: 05/16/2025 09:45

Lab File ID: BF142416.D Init. Calib. Date(s): 05/05/2025 05/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:54 17:15

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.172	1.230		4.9	
Benzaldehyde	0.843	0.825		-2.1	
Phenol-d6	1.441	1.481		2.8	
Phenol	1.531	1.669		9.0	20.0
bis(2-Chloroethyl)ether	1.506	1.236		-17.9	
2-Chlorophenol	1.252	1.338		6.9	
2-Methylphenol	1.014	1.054		3.9	
2,2-oxybis(1-Chloropropane)	2.249	2.119		-5.8	
Acetophenone	0.445	0.439		-1.3	
3+4-Methylphenols	1.265	1.302		2.9	
n-Nitroso-di-n-propylamine	0.891	0.890	0.050	-0.1	
Nitrobenzene-d5	0.328	0.370		12.8	
Hexachloroethane	0.478	0.511		6.9	
Nitrobenzene	0.309	0.341		10.4	
Isophorone	0.621	0.627		1.0	
2-Nitrophenol	0.129	0.185		43.4	20.0
2,4-Dimethylphenol	0.312	0.322		3.2	
bis(2-Chloroethoxy)methane	0.399	0.391		-2.0	
2,4-Dichlorophenol	0.265	0.291		9.8	20.0
Naphthalene	0.969	0.984		1.5	
4-Chloroaniline	0.395	0.403		2.0	
Hexachlorobutadiene	0.177	0.188		6.2	20.0
Caprolactam	0.077	0.090		16.9	
4-Chloro-3-methylphenol	0.276	0.292		5.8	20.0
2-Methylnaphthalene	0.602	0.608		1.0	
Hexachlorocyclopentadiene	0.345	0.398	0.050	15.4	
2,4,6-Trichlorophenol	0.352	0.398		13.1	20.0
2-Fluorobiphenyl	1.403	1.372		-2.2	
2,4,5-Trichlorophenol	0.375	0.423		12.8	
1,1-Biphenyl	1.533	1.536		0.2	
2-Chloronaphthalene	1.140	1.148		0.7	
2-Nitroaniline	0.292	0.352		20.5	
Dimethylphthalate	1.284	1.315		2.4	
Acenaphthylene	1.908	1.919		0.6	
2,6-Dinitrotoluene	0.240	0.294		22.5	
3-Nitroaniline	0.282	0.340		20.6	
Acenaphthene	1.147	1.183		3.1	20.0
2,4-Dinitrophenol	0.102	0.163	0.050	59.8	
4-Nitrophenol	0.212	0.253	0.050	19.3	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG No.: Q1982

Instrument ID: BNA_F Calibration Date/Time: 05/16/2025 09:45

Lab File ID: BF142416.D Init. Calib. Date(s): 05/05/2025 05/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:54 17:15

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.693	1.699		0.4	
2,4-Dinitrotoluene	0.308	0.395		28.2	
Diethylphthalate	1.283	1.293		0.8	
4-Chlorophenyl-phenylether	0.623	0.643		3.2	
Fluorene	1.292	1.306		1.1	
4-Nitroaniline	0.223	0.289		29.6	
4,6-Dinitro-2-methylphenol	0.082	0.125		52.4	
n-Nitrosodiphenylamine	0.666	0.682		2.4	20.0
2,4,6-Tribromophenol	0.193	0.231		19.7	
4-Bromophenyl-phenylether	0.227	0.241		6.2	
Hexachlorobenzene	0.249	0.265		6.4	
Atrazine	0.175	0.195		11.4	
Pentachlorophenol	0.131	0.162		23.7	20.0
Phenanthrene	1.048	1.051		0.3	
Anthracene	1.077	1.081		0.4	
Carbazole	0.966	0.970		0.4	
Di-n-butylphthalate	1.016	1.068		5.1	
Fluoranthene	1.048	1.020		-2.7	20.0
Pyrene	1.780	1.900		6.7	
Terphenyl-d14	1.351	1.413		4.6	
Butylbenzylphthalate	0.449	0.566		26.1	
3,3-Dichlorobenzidine	0.301	0.435		44.5	
Benzo (a) anthracene	1.295	1.386		7.0	
Chrysene	1.206	1.202		-0.3	
Bis(2-ethylhexyl)phthalate	0.573	0.772		34.7	
Di-n-octyl phthalate	1.057	1.433		35.6	20.0
Benzo (b) fluoranthene	1.211	1.284		6.0	
Benzo (k) fluoranthene	1.109	1.028		-7.3	
Benzo (a) pyrene	1.085	1.150		6.0	20.0
Indeno (1,2,3-cd) pyrene	1.391	1.503		8.1	
Dibenzo (a,h) anthracene	1.149	1.232		7.2	
Benzo (g,h,i) perylene	1.141	1.209		6.0	
1,2,4,5-Tetrachlorobenzene	0.559	0.581		3.9	
1,4-Dioxane	0.528	0.514		-2.7	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.349		12.9	

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG No.: Q1982

Instrument ID: BNA_P Calibration Date/Time: 05/15/2025 12:25

Lab File ID: BP024634.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:41 15:26

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.169	1.113		-4.8	
Benzaldehyde	0.966	0.853		-11.7	
Phenol-d6	1.492	1.373		-8.0	
Phenol	1.540	1.415		-8.1	20.0
bis(2-Chloroethyl)ether	1.266	1.168		-7.7	
2-Chlorophenol	1.327	1.296		-2.3	
2-Methylphenol	1.105	1.112		0.6	
2,2-oxybis(1-Chloropropane)	1.516	1.451		-4.3	
Acetophenone	0.500	0.481		-3.8	
3+4-Methylphenols	1.503	1.544		2.7	
n-Nitroso-di-n-propylamine	1.032	1.054	0.050	2.1	
Nitrobenzene-d5	0.396	0.378		-4.5	
Hexachloroethane	0.589	0.548		-7.0	
Nitrobenzene	0.348	0.331		-4.9	
Isophorone	0.687	0.662		-3.6	
2-Nitrophenol	0.171	0.170		-0.6	20.0
2,4-Dimethylphenol	0.301	0.296		-1.7	
bis(2-Chloroethoxy)methane	0.410	0.389		-5.1	
2,4-Dichlorophenol	0.292	0.292		0.0	20.0
Naphthalene	1.036	0.983		-5.1	
4-Chloroaniline	0.418	0.425		1.7	
Hexachlorobutadiene	0.213	0.197		-7.5	20.0
Caprolactam	0.106	0.110		3.8	
4-Chloro-3-methylphenol	0.356	0.356		0.0	20.0
2-Methylnaphthalene	0.671	0.646		-3.7	
Hexachlorocyclopentadiene	0.352	0.372	0.050	5.7	
2,4,6-Trichlorophenol	0.376	0.388		3.2	20.0
2-Fluorobiphenyl	1.527	1.446		-5.3	
2,4,5-Trichlorophenol	0.419	0.412		-1.7	
1,1-Biphenyl	1.478	1.391		-5.9	
2-Chloronaphthalene	1.127	1.069		-5.1	
2-Nitroaniline	0.334	0.336		0.6	
Dimethylphthalate	1.524	1.433		-6.0	
Acenaphthylene	1.886	1.811		-4.0	
2,6-Dinitrotoluene	0.322	0.313		-2.8	
3-Nitroaniline	0.329	0.337		2.4	
Acenaphthene	1.084	1.026		-5.4	20.0
2,4-Dinitrophenol	0.169	0.170	0.050	0.6	
4-Nitrophenol	0.250	0.260	0.050	4.0	

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q1982 SAS No.: Q1982 SDG No.: Q1982

Instrument ID: BNA_P Calibration Date/Time: 05/15/2025 12:25

Lab File ID: BP024634.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:41 15:26

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.730	1.659		-4.1	
2,4-Dinitrotoluene	0.454	0.453		-0.2	
Diethylphthalate	1.541	1.477		-4.2	
4-Chlorophenyl-phenylether	0.703	0.672		-4.4	
Fluorene	1.410	1.356		-3.8	
4-Nitroaniline	0.317	0.338		6.6	
4,6-Dinitro-2-methylphenol	0.129	0.126		-2.3	
n-Nitrosodiphenylamine	0.614	0.588		-4.2	20.0
2,4,6-Tribromophenol	0.339	0.334		-1.5	
4-Bromophenyl-phenylether	0.236	0.225		-4.7	
Hexachlorobenzene	0.299	0.283		-5.4	
Atrazine	0.225	0.216		-4.0	
Pentachlorophenol	0.168	0.180		7.1	20.0
Phenanthrene	1.112	1.049		-5.7	
Anthracene	1.119	1.053		-5.9	
Carbazole	1.012	0.991		-2.1	
Di-n-butylphthalate	1.302	1.272		-2.3	
Fluoranthene	1.300	1.234		-5.1	20.0
Pyrene	1.198	1.165		-2.8	
Terphenyl-d14	1.166	1.105		-5.2	
Butylbenzylphthalate	0.533	0.531		-0.4	
3,3-Dichlorobenzidine	0.466	0.491		5.4	
Benzo (a) anthracene	1.256	1.198		-4.6	
Chrysene	1.190	1.135		-4.6	
Bis(2-ethylhexyl)phthalate	0.783	0.781		-0.3	
Di-n-octyl phthalate	1.281	1.310		2.3	20.0
Benzo (b) fluoranthene	1.145	1.107		-3.3	
Benzo (k) fluoranthene	1.180	1.121		-5.0	
Benzo (a) pyrene	1.099	1.065		-3.1	20.0
Indeno (1,2,3-cd) pyrene	1.460	1.416		-3.0	
Dibenzo (a,h) anthracene	1.188	1.153		-2.9	
Benzo (g,h,i) perylene	1.181	1.148		-2.8	
1,2,4,5-Tetrachlorobenzene	0.581	0.557		-4.1	
1,4-Dioxane	0.549	0.486		-11.5	20.0
2,3,4,6-Tetrachlorophenol	0.388	0.383		-1.3	

All other compounds must meet a minimum RRF of 0.010.



SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142364.D
Acq On : 14 May 2025 14:23
Operator : RC/JU
Sample : Q1982-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1

A
B
C
D
E
F
G
H
I
J
K

Quant Time: May 14 15:01:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration

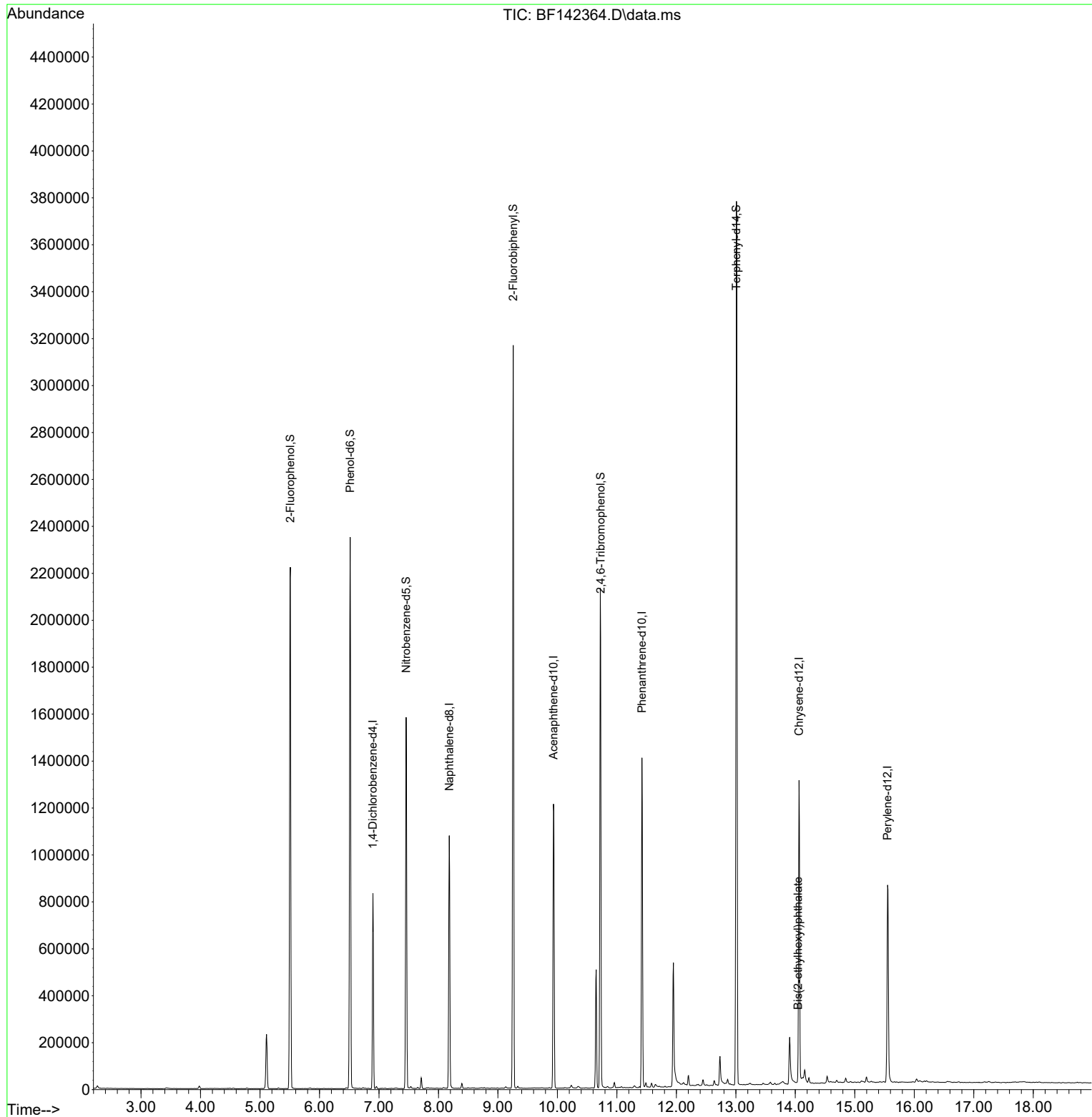
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	171428	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	665674	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	370105	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	718007	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	611693	20.000	ng	0.00
86) Perylene-d12	15.551	264	503779	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	882477	87.877	ng	0.00
7) Phenol-d6	6.516	99	1094089	88.582	ng	0.00
23) Nitrobenzene-d5	7.457	82	644190	59.019	ng	-0.01
42) 2,4,6-Tribromophenol	10.728	330	377710	105.704	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	1396803	53.814	ng	0.00
79) Terphenyl-d14	13.010	244	1879960	45.489	ng	0.00
Target Compounds						
84) Bis(2-ethylhexyl)phtha...	14.045	149	3758	4.403	ng	Qvalue # 93

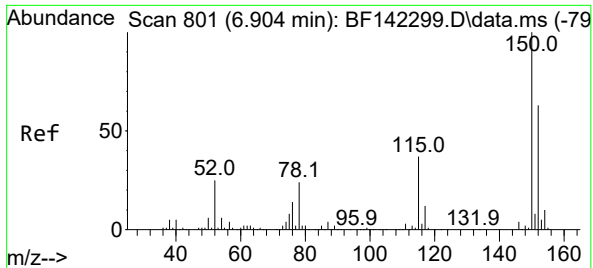
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142364.D
Acq On : 14 May 2025 14:23
Operator : RC/JU
Sample : Q1982-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1

Quant Time: May 14 15:01:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration

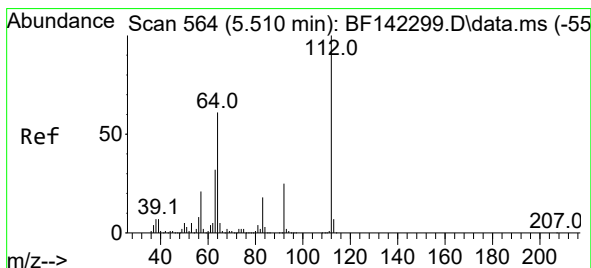
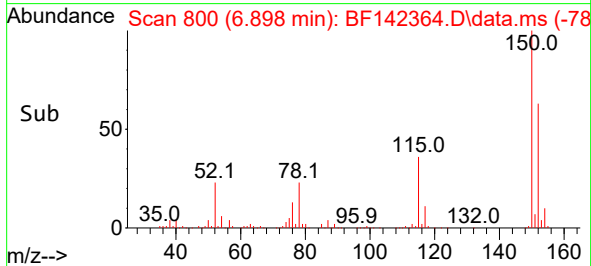
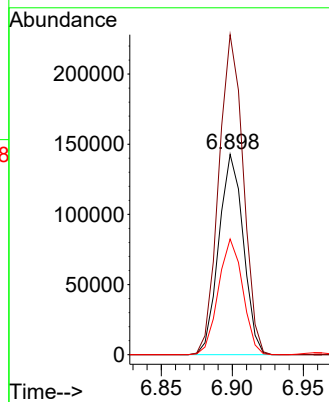
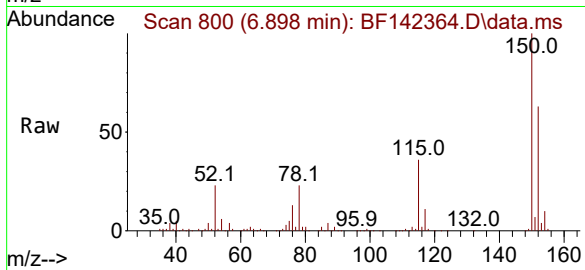




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 801
Delta R.T. -0.006 min
Lab File: BF142364.D
Acq: 14 May 2025 14:23

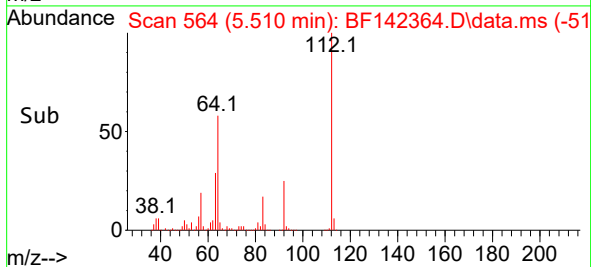
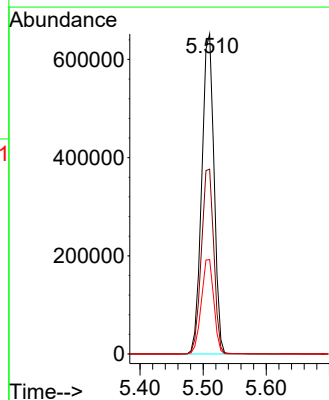
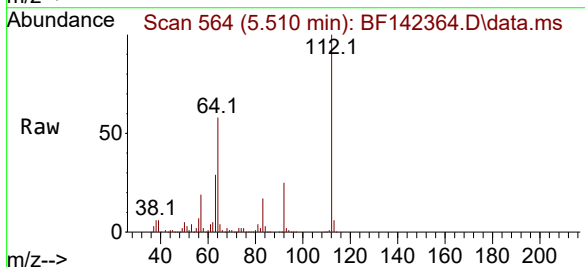
Instrument :
BNA_F
ClientSampleId :
TP-1

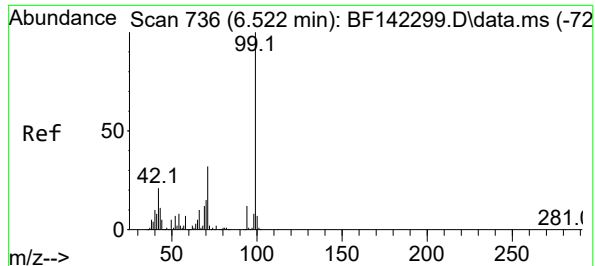
Tgt Ion:152 Resp: 171428
Ion Ratio Lower Upper
152 100
150 159.7 126.6 190.0
115 57.7 47.3 70.9



#5
2-Fluorophenol
Concen: 87.877 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.000 min
Lab File: BF142364.D
Acq: 14 May 2025 14:23

Tgt Ion:112 Resp: 882477
Ion Ratio Lower Upper
112 100
64 57.8 48.9 73.3
63 29.5 25.6 38.4

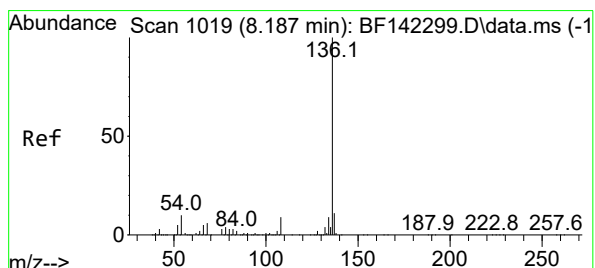
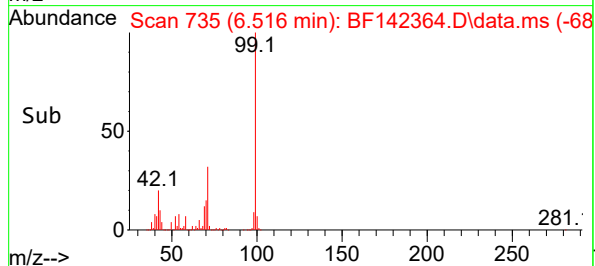
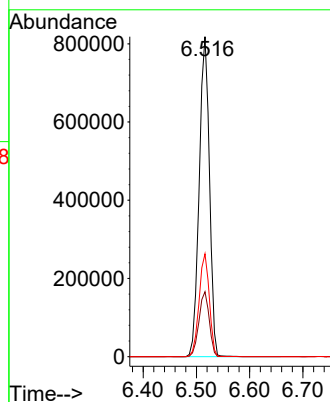
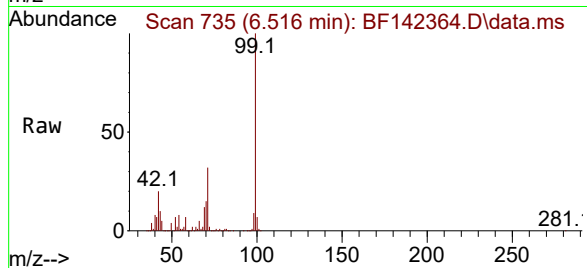




#7
Phenol-d6
Concen: 88.582 ng
RT: 6.516 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF142364.D
Acq: 14 May 2025 14:23

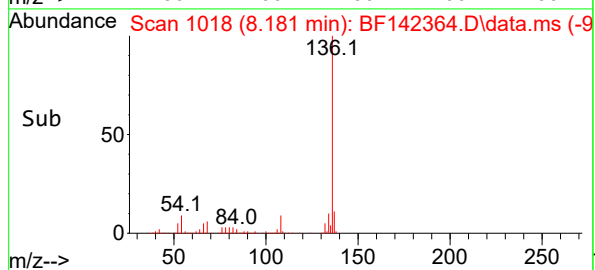
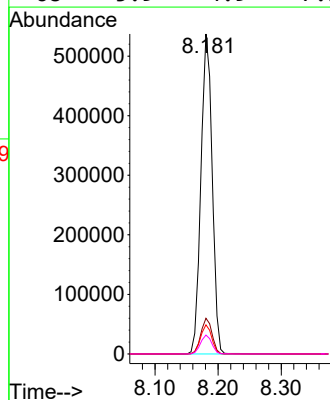
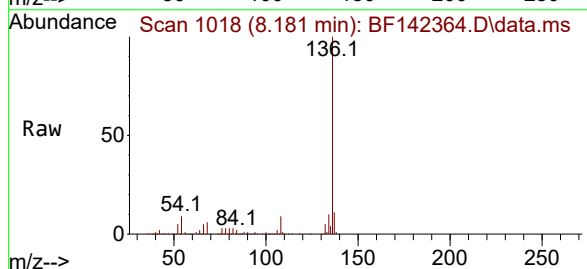
Instrument :
BNA_F
ClientSampleId :
TP-1

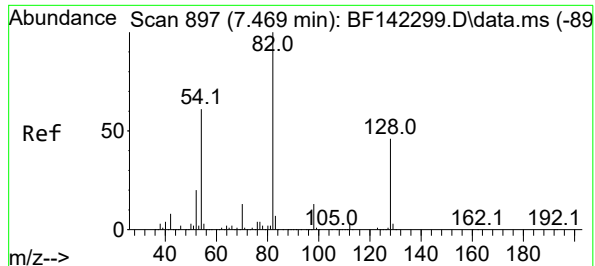
Tgt Ion: 99 Resp: 1094089
Ion Ratio Lower Upper
99 100
42 20.3 17.0 25.4
71 32.2 25.8 38.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142364.D
Acq: 14 May 2025 14:23

Tgt Ion: 136 Resp: 665674
Ion Ratio Lower Upper
136 100
137 11.1 8.9 13.3
54 9.1 7.7 11.5
68 5.9 4.9 7.3





#23

Nitrobenzene-d5

Concen: 59.019 ng

RT: 7.457 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF142364.D

Acq: 14 May 2025 14:23

Instrument :

BNA_F

ClientSampleId :

TP-1

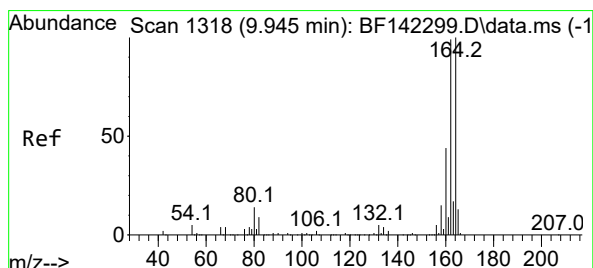
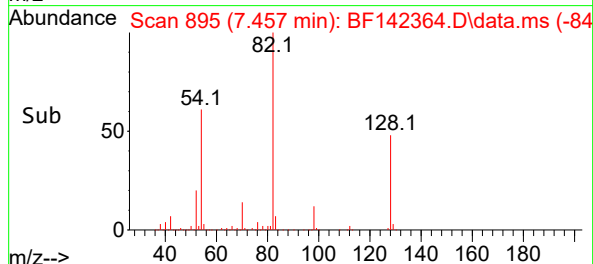
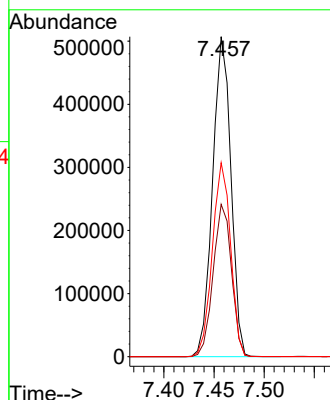
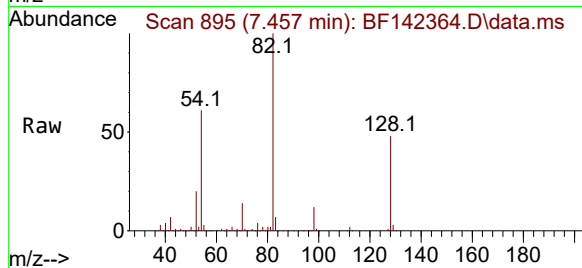
Tgt Ion: 82 Resp: 644190

Ion Ratio Lower Upper

82 100

128 47.6 37.0 55.6

54 60.6 48.6 73.0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.933 min Scan# 1316

Delta R.T. -0.012 min

Lab File: BF142364.D

Acq: 14 May 2025 14:23

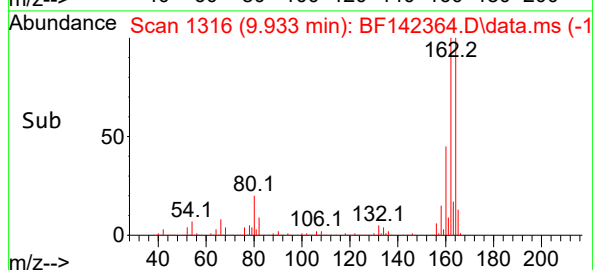
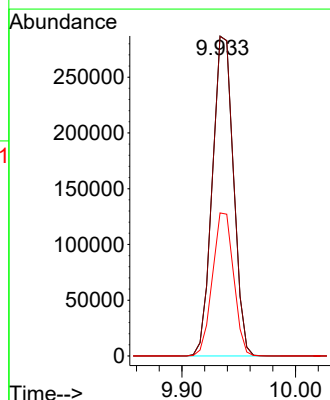
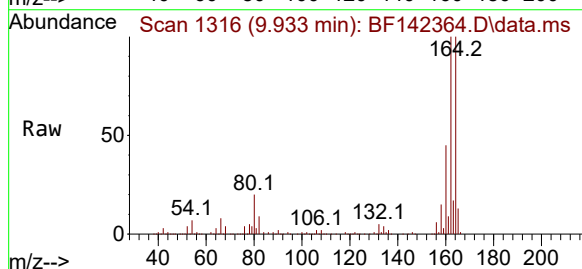
Tgt Ion: 164 Resp: 370105

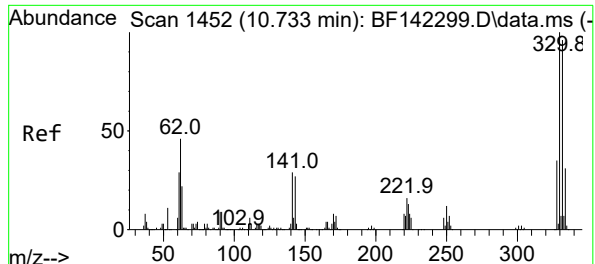
Ion Ratio Lower Upper

164 100

162 99.8 79.2 118.8

160 44.7 35.3 52.9





#42

2,4,6-Tribromophenol

Concen: 105.704 ng

RT: 10.728 min Scan# 1451

Delta R.T. -0.006 min

Lab File: BF142364.D

Acq: 14 May 2025 14:23

Instrument :

BNA_F

ClientSampleId :

TP-1

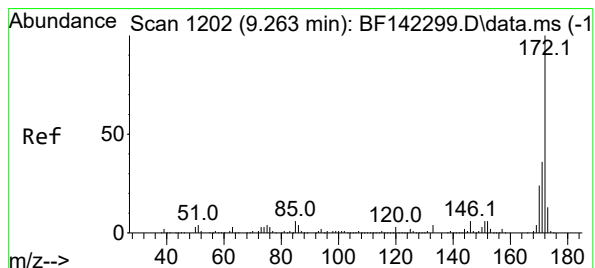
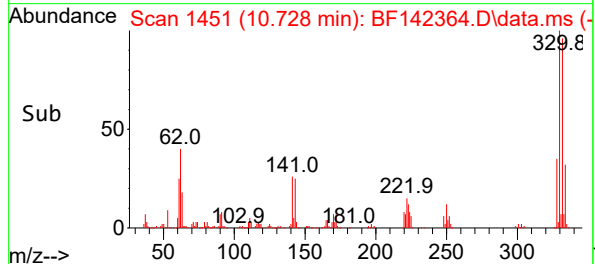
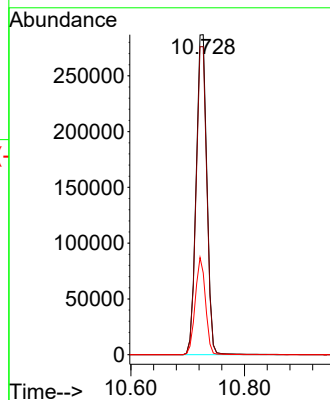
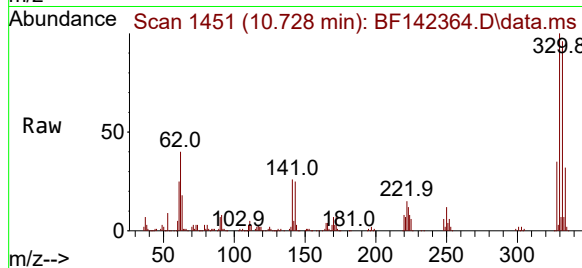
Tgt Ion:330 Resp: 377710

Ion Ratio Lower Upper

330 100

332 96.1 76.8 115.2

141 29.1 24.9 37.3



#45

2-Fluorobiphenyl

Concen: 53.814 ng

RT: 9.257 min Scan# 1201

Delta R.T. -0.006 min

Lab File: BF142364.D

Acq: 14 May 2025 14:23

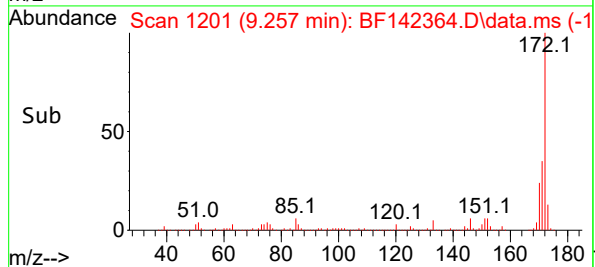
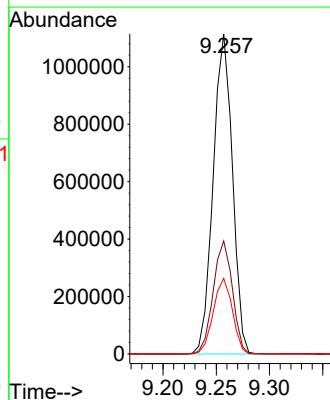
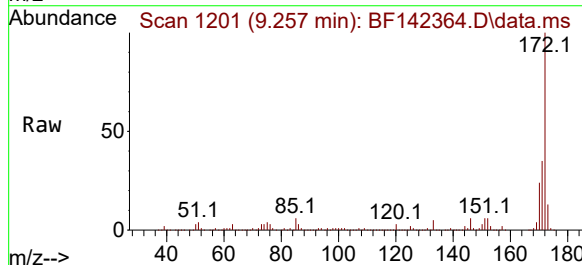
Tgt Ion:172 Resp: 1396803

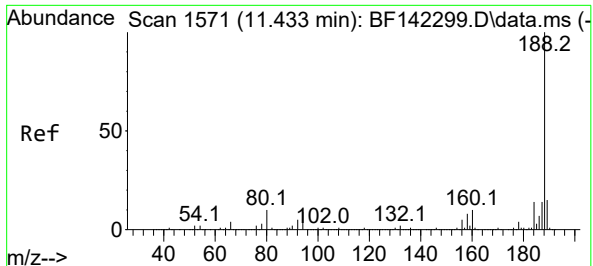
Ion Ratio Lower Upper

172 100

171 35.3 28.6 42.8

170 23.6 19.0 28.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.422 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF142364.D

Acq: 14 May 2025 14:23

Instrument :

BNA_F

ClientSampleId :

TP-1

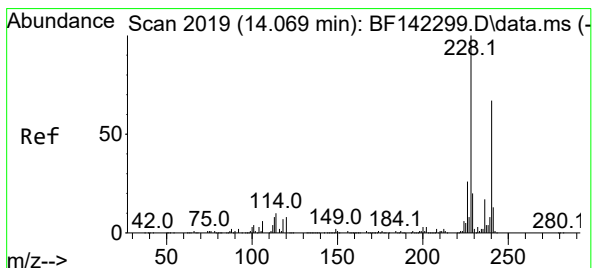
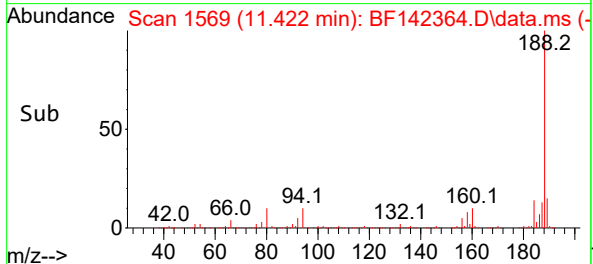
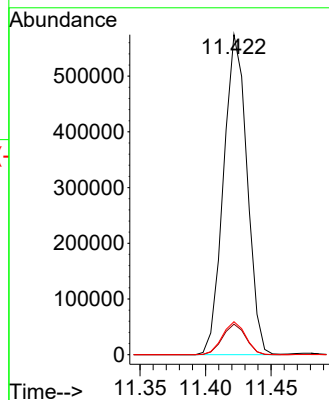
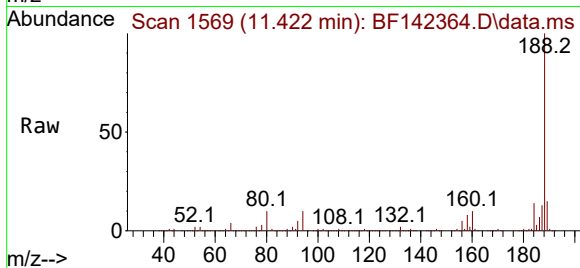
Tgt Ion:188 Resp: 718007

Ion Ratio Lower Upper

188 100

94 9.5 7.5 11.3

80 10.3 7.9 11.9



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.063 min Scan# 2018

Delta R.T. -0.006 min

Lab File: BF142364.D

Acq: 14 May 2025 14:23

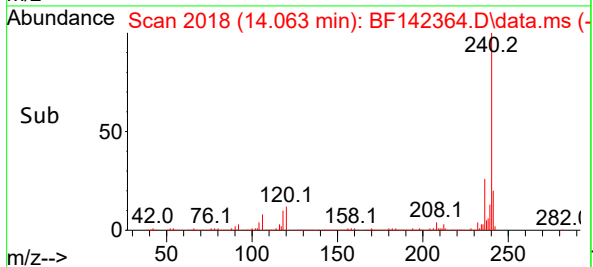
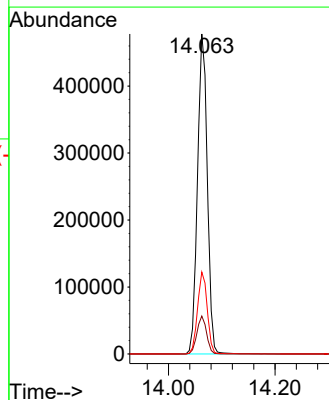
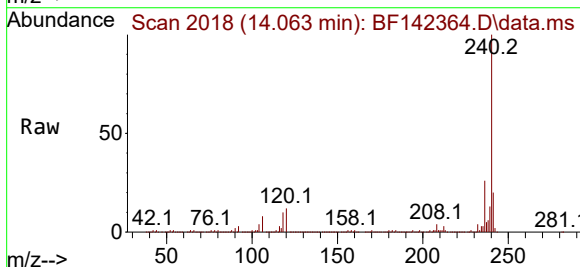
Tgt Ion:240 Resp: 611693

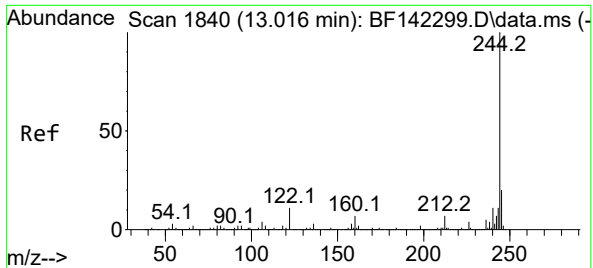
Ion Ratio Lower Upper

240 100

120 11.8 9.7 14.5

236 25.6 20.0 30.0





#79

Terphenyl-d14

Concen: 45.489 ng

RT: 13.010 min Scan# 1840

Delta R.T. -0.006 min

Lab File: BF142364.D

Acq: 14 May 2025 14:23

Instrument :

BNA_F

ClientSampleId :

TP-1

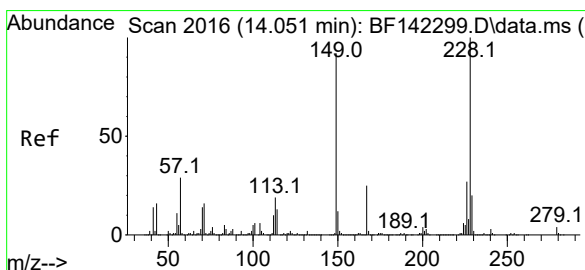
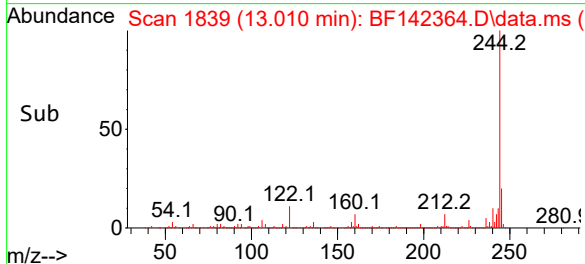
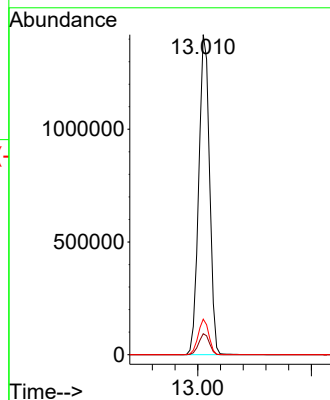
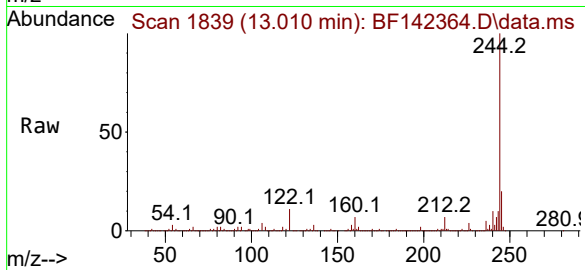
Tgt Ion:244 Resp: 1879960

Ion Ratio Lower Upper

244 100

212 6.5 5.4 8.2

122 11.1 9.0 13.4



#84

Bis(2-ethylhexyl)phthalate

Concen: 4.403 ng

RT: 14.045 min Scan# 2015

Delta R.T. -0.006 min

Lab File: BF142364.D

Acq: 14 May 2025 14:23

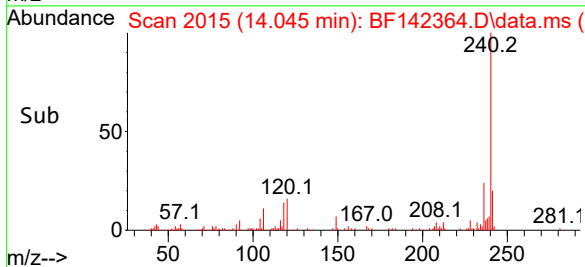
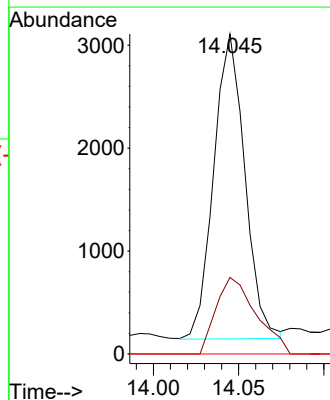
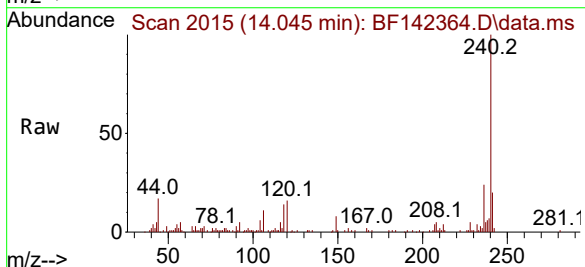
Tgt Ion:149 Resp: 3758

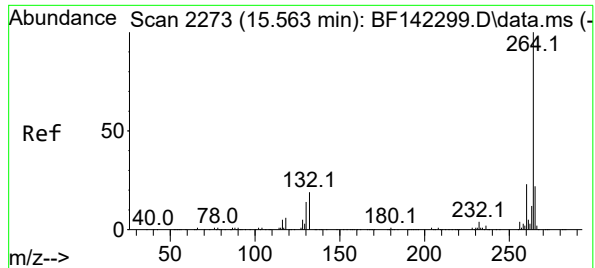
Ion Ratio Lower Upper

149 100

167 23.9 22.0 33.0

279 0.0 3.0 4.6#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF142364.D

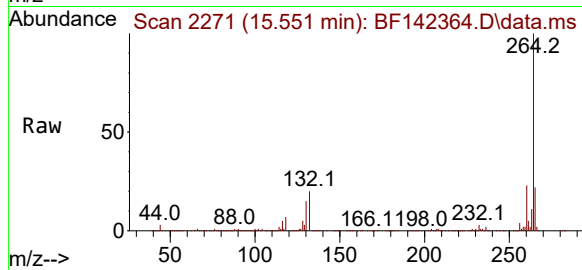
Acq: 14 May 2025 14:23

Instrument :

BNA_F

ClientSampleId :

TP-1



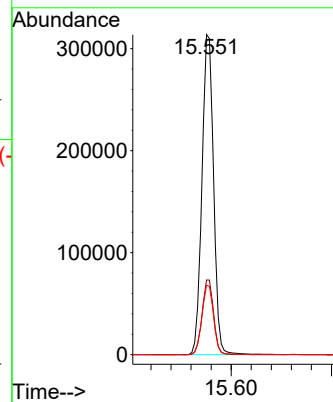
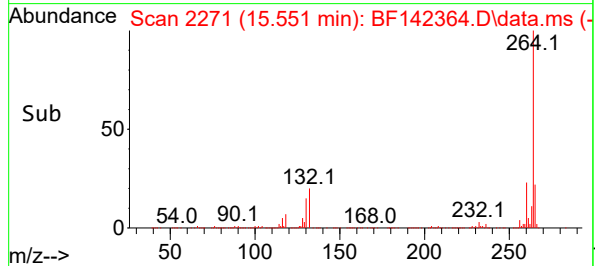
Tgt Ion:264 Resp: 503779

Ion Ratio Lower Upper

264 100

260 23.4 18.6 27.8

265 21.7 17.5 26.3



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142364.D
Acq On : 14 May 2025 14:23
Operator : RC/JU
Sample : Q1982-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142364.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	503	rBV	230707	342761	6.92%	1.099%
2	5.510	557	564	569	rBV	2221403	3039391	61.32%	9.749%
3	6.516	728	735	740	rBV	2347887	3154534	63.64%	10.118%
4	6.898	795	800	805	rBV	830738	993933	20.05%	3.188%
5	7.457	889	895	900	rBV	1581446	2012071	40.59%	6.454%
6	7.710	934	938	944	rVB	45105	54343	1.10%	0.174%
7	8.181	1013	1018	1023	rBV	1076096	1330468	26.84%	4.267%
8	9.257	1195	1201	1206	rBV	3165324	3972067	80.14%	12.740%
9	9.933	1311	1316	1322	rBV	1210374	1560470	31.48%	5.005%
10	10.651	1432	1438	1443	rBV	504294	628002	12.67%	2.014%
11	10.722	1445	1450	1461	rVV	2129711	2730745	55.09%	8.759%
12	11.422	1564	1569	1576	rBV	1404403	1767145	35.65%	5.668%
13	11.951	1652	1659	1672	rBV	528236	848359	17.12%	2.721%
14	12.204	1697	1702	1709	rVB3	42397	57993	1.17%	0.186%
15	12.733	1787	1792	1805	rBV	122428	216839	4.37%	0.696%
16	13.010	1833	1839	1844	rBV	3765198	4956547	100.00%	15.898%
17	13.904	1986	1991	2011	rBV	200242	381637	7.70%	1.224%
18	14.063	2012	2018	2025	rBV	1287192	1675689	33.81%	5.375%
19	14.157	2030	2034	2042	rVB	52374	99192	2.00%	0.318%
20	15.551	2265	2271	2286	rBV	840443	1355005	27.34%	4.346%

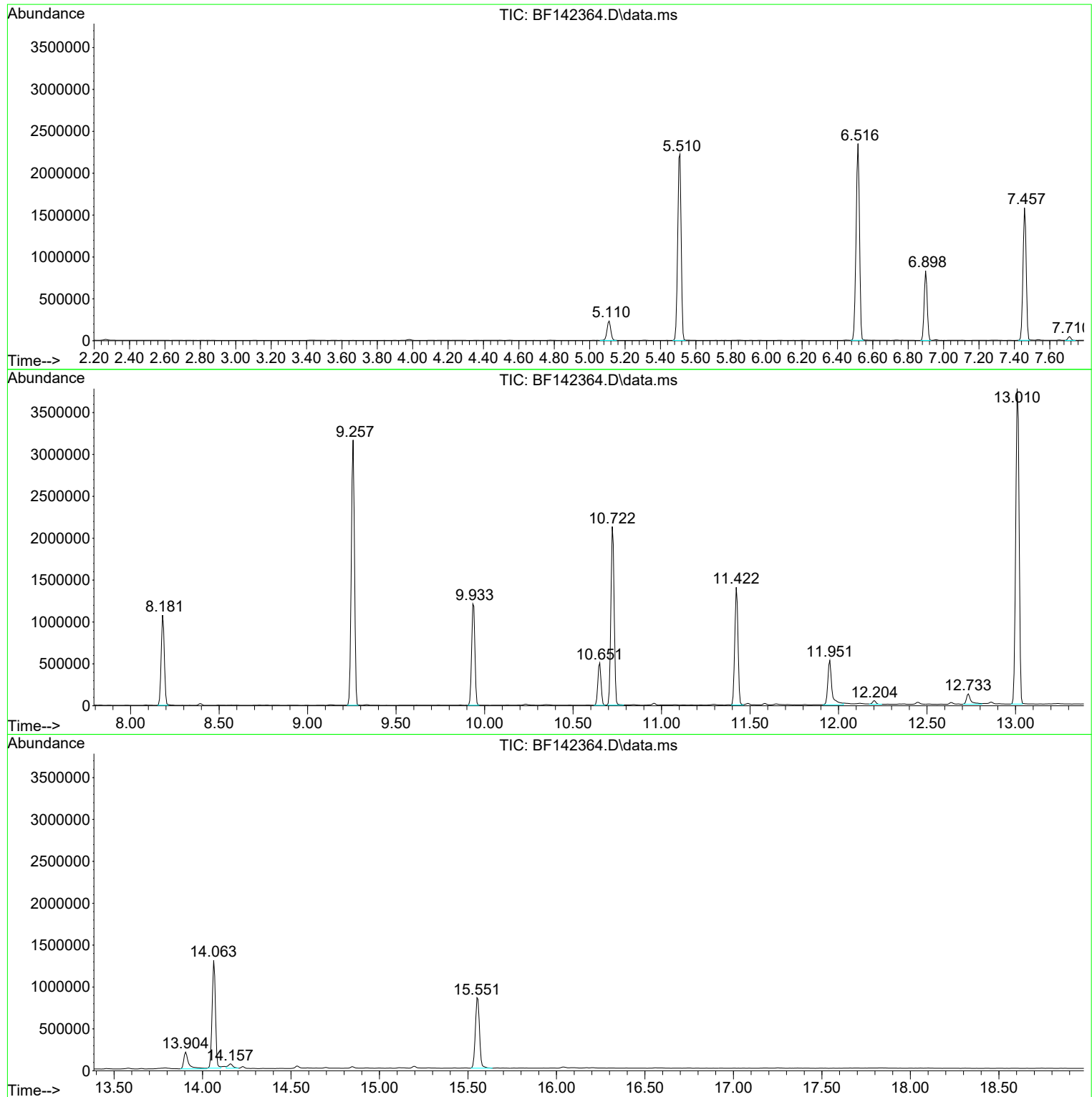
Sum of corrected areas: 31177191

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142364.D
Acq On : 14 May 2025 14:23
Operator : RC/JU
Sample : Q1982-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.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\BF051425\
Data File : BF142364.D
Acq On : 14 May 2025 14:23
Operator : RC/JU
Sample : Q1982-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1

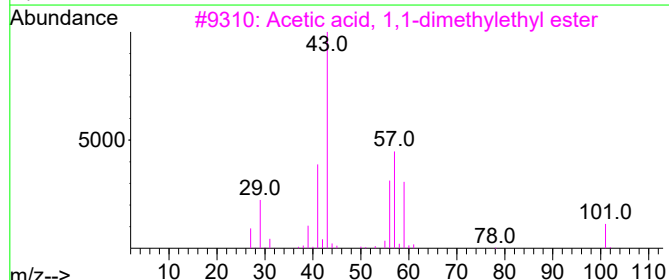
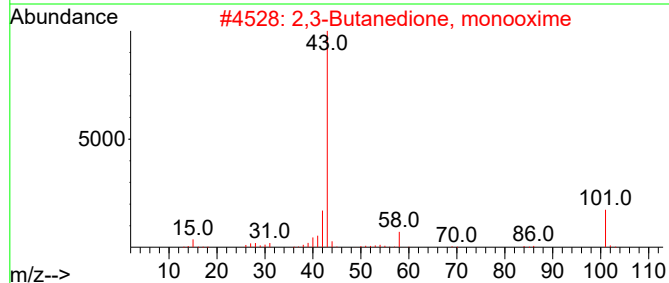
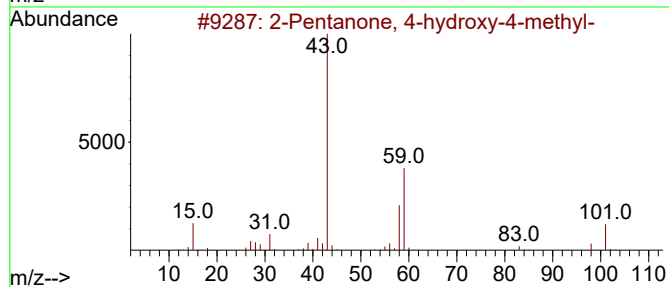
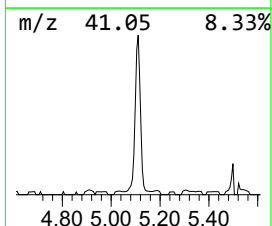
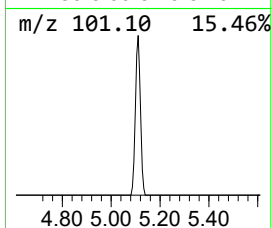
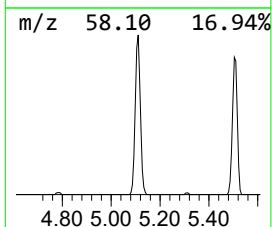
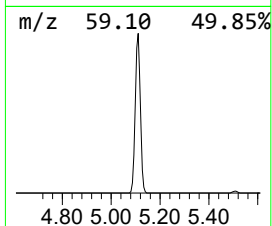
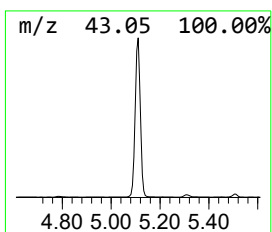
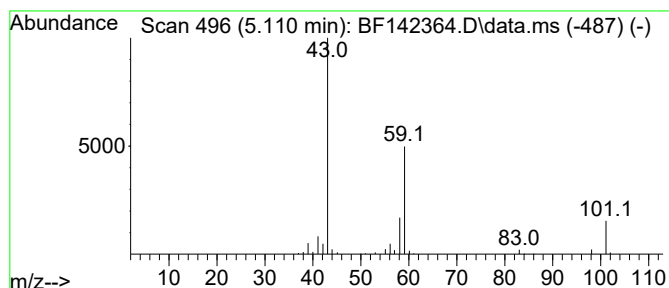
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.110	6.90 ng	342761	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	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	27		
3	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	23		
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12		
5	Acetone	58	C3H6O	000067-64-1	9		



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142364.D
Acq On : 14 May 2025 14:23
Operator : RC/JU
Sample : Q1982-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1

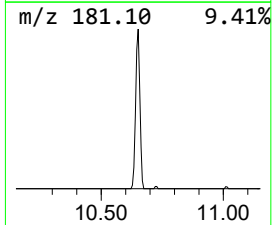
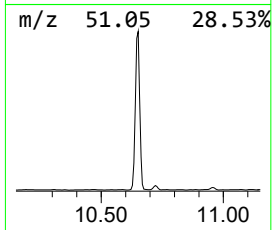
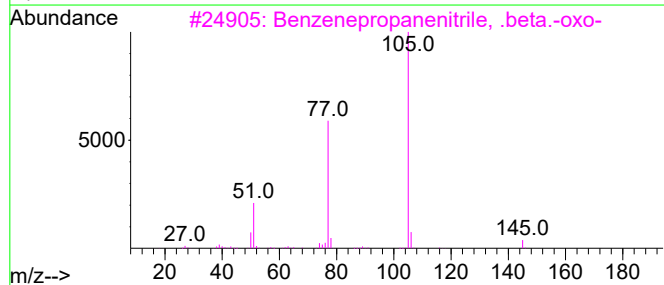
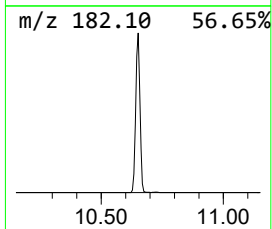
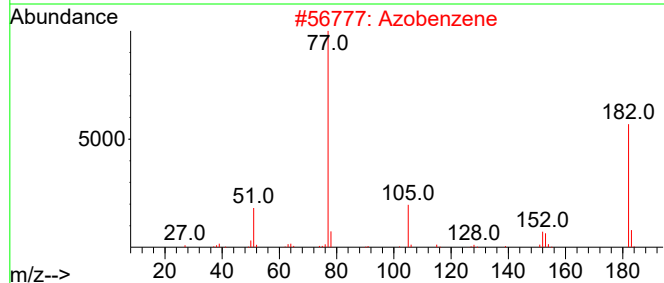
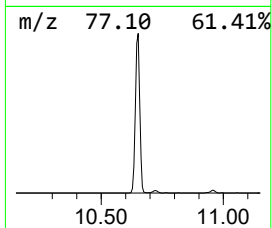
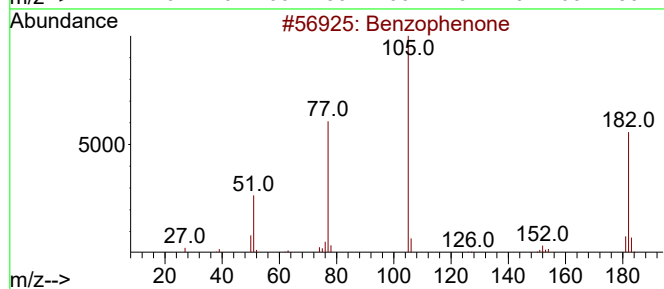
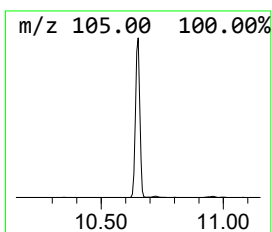
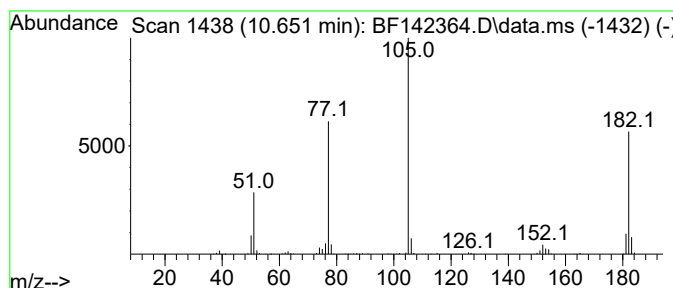
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	8.05 ng	628002	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	53
3			Benzenepropanenitrile, .beta.-oxo-	145	C9H7NO	000614-16-4	47
4			Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47
5			N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142364.D
Acq On : 14 May 2025 14:23
Operator : RC/JU
Sample : Q1982-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

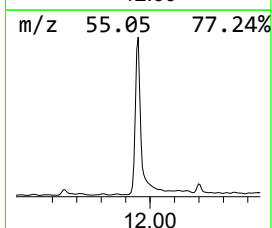
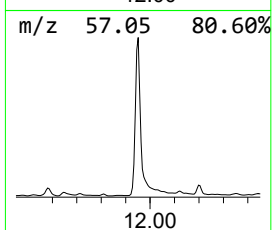
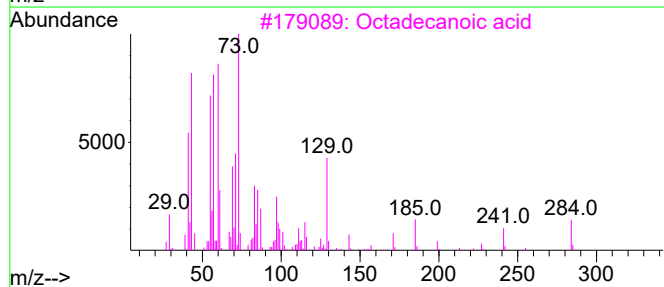
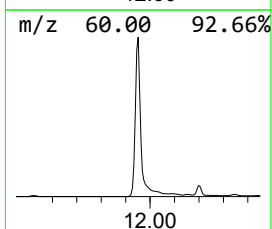
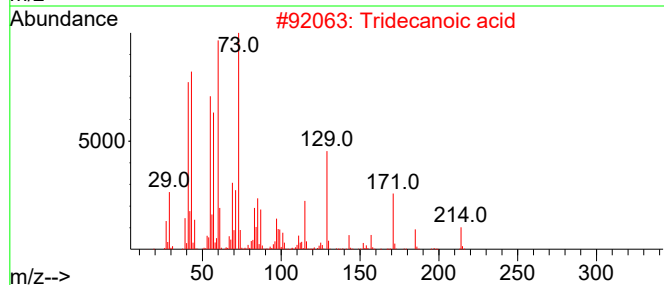
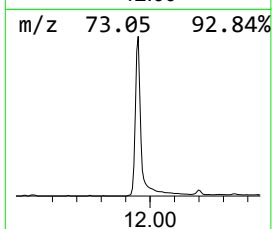
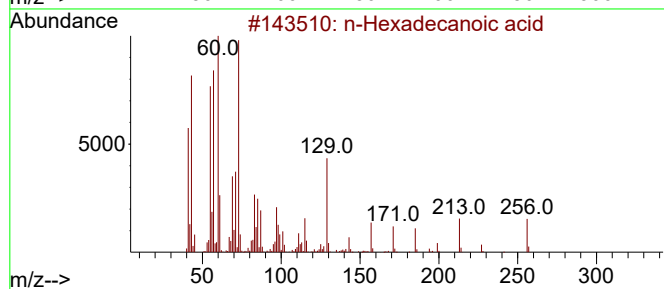
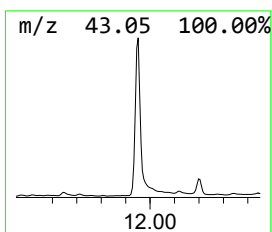
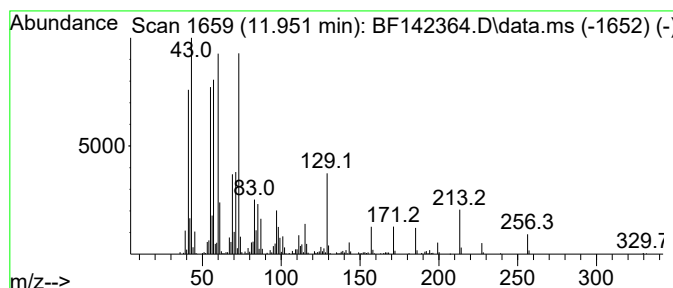
Instrument :
BNA_F
ClientSampleId :
TP-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.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	9.60 ng	848359	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	94
3	Octadecanoic acid		284	C18H36O2	000057-11-4	93
4	Pentadecanoic acid		242	C15H30O2	001002-84-2	81
5	Tetradecanoic acid		228	C14H28O2	000544-63-8	59



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142364.D
Acq On : 14 May 2025 14:23
Operator : RC/JU
Sample : Q1982-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

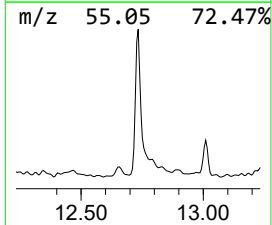
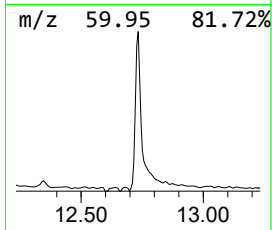
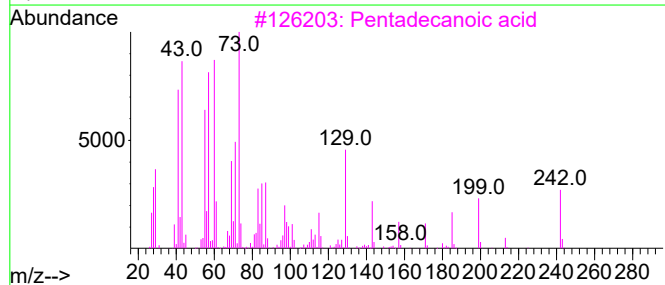
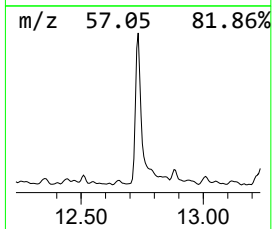
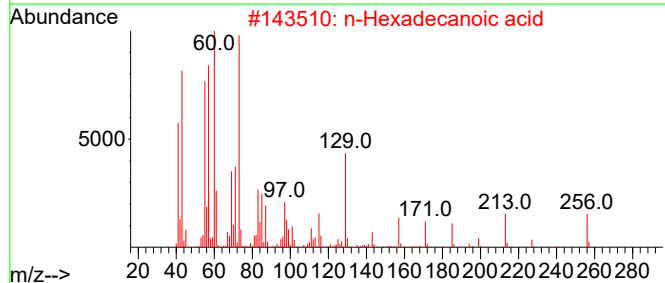
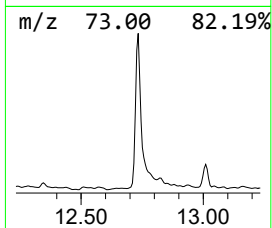
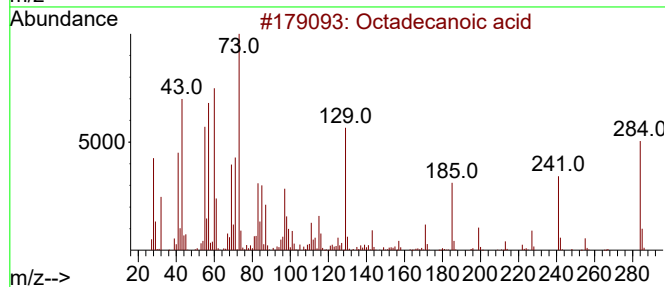
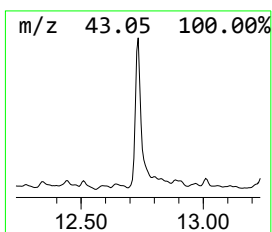
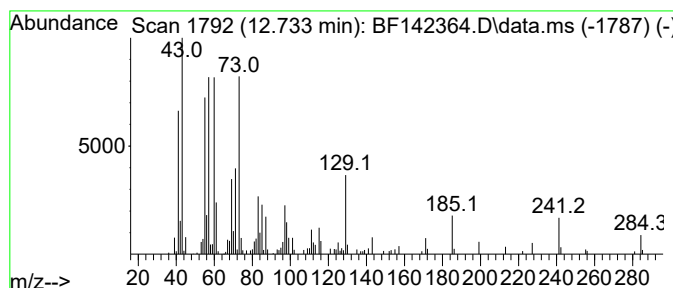
Instrument :
BNA_F
ClientSampleId :
TP-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.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	2.45 ng	216839	Phenanthrene-d10	11.422	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	93
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
4	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	91
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	83



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142364.D
Acq On : 14 May 2025 14:23
Operator : RC/JU
Sample : Q1982-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1

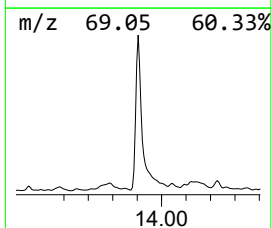
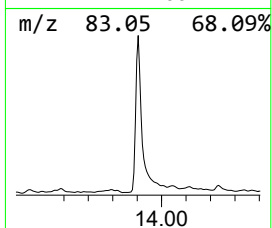
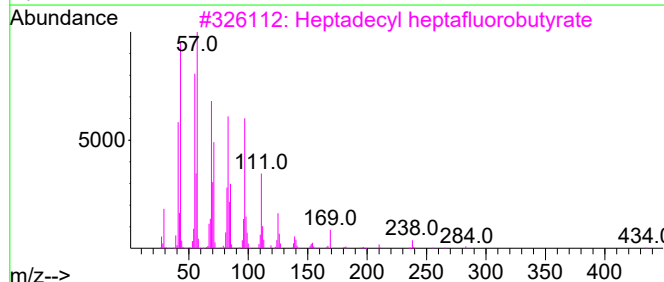
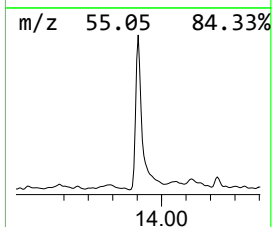
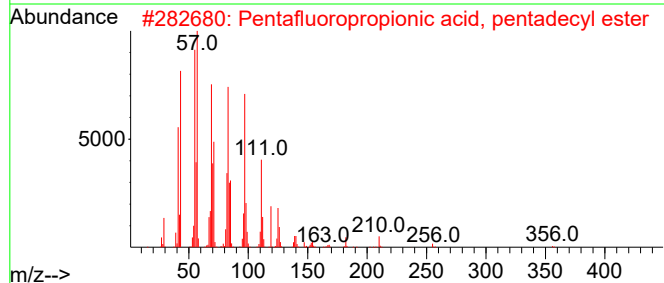
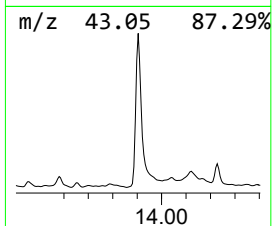
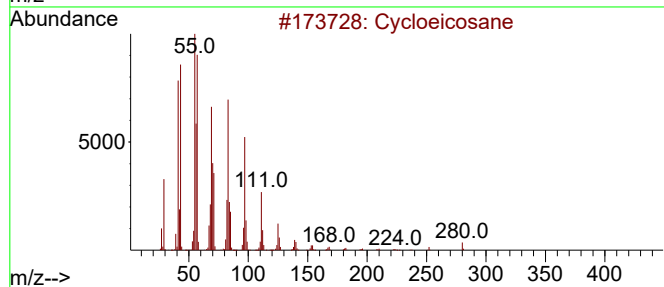
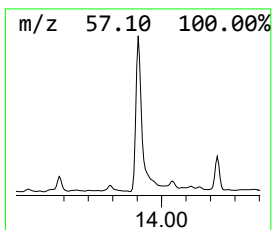
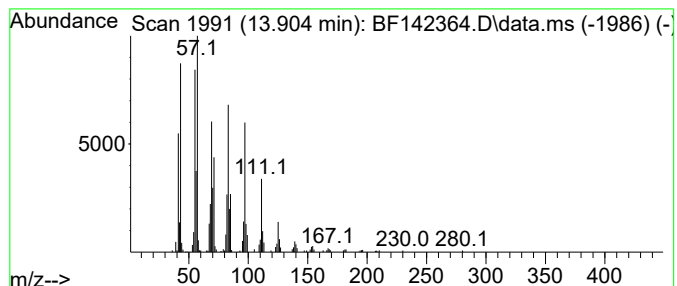
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Cycloeicosane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	4.55 ng	381637	Chrysene-d12	14.063

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cycloeicosane	280	C20H40	000296-56-0	95
2			Pentafluoropropionic acid, penta...	374	C18H31F5O2	959092-08-1	94
3			Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94
4			1-Docosene	308	C22H44	001599-67-3	94
5			Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	94



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142364.D
Acq On : 14 May 2025 14:23
Operator : RC/JU
Sample : Q1982-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1

A

B

C

D

E

F

G

H

I

J

K

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-...	5.110	6.9	ng	342761	1	6.898	993933	20.0
Benzophenone	10.651	8.1	ng	628002	3	9.933	1560470	20.0
n-Hexadecanoic ...	11.951	9.6	ng	848359	4	11.422	1767150	20.0
Octadecanoic acid	12.733	2.5	ng	216839	4	11.422	1767150	20.0
Cycloeicosane	13.904	4.5	ng	381637	5	14.063	1675690	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142378.D
Acq On : 14 May 2025 21:06
Operator : RC/JU
Sample : Q1982-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-2B

A
B
C
D
E
F
G
H
I
J
K

Quant Time: May 15 01:04:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration

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

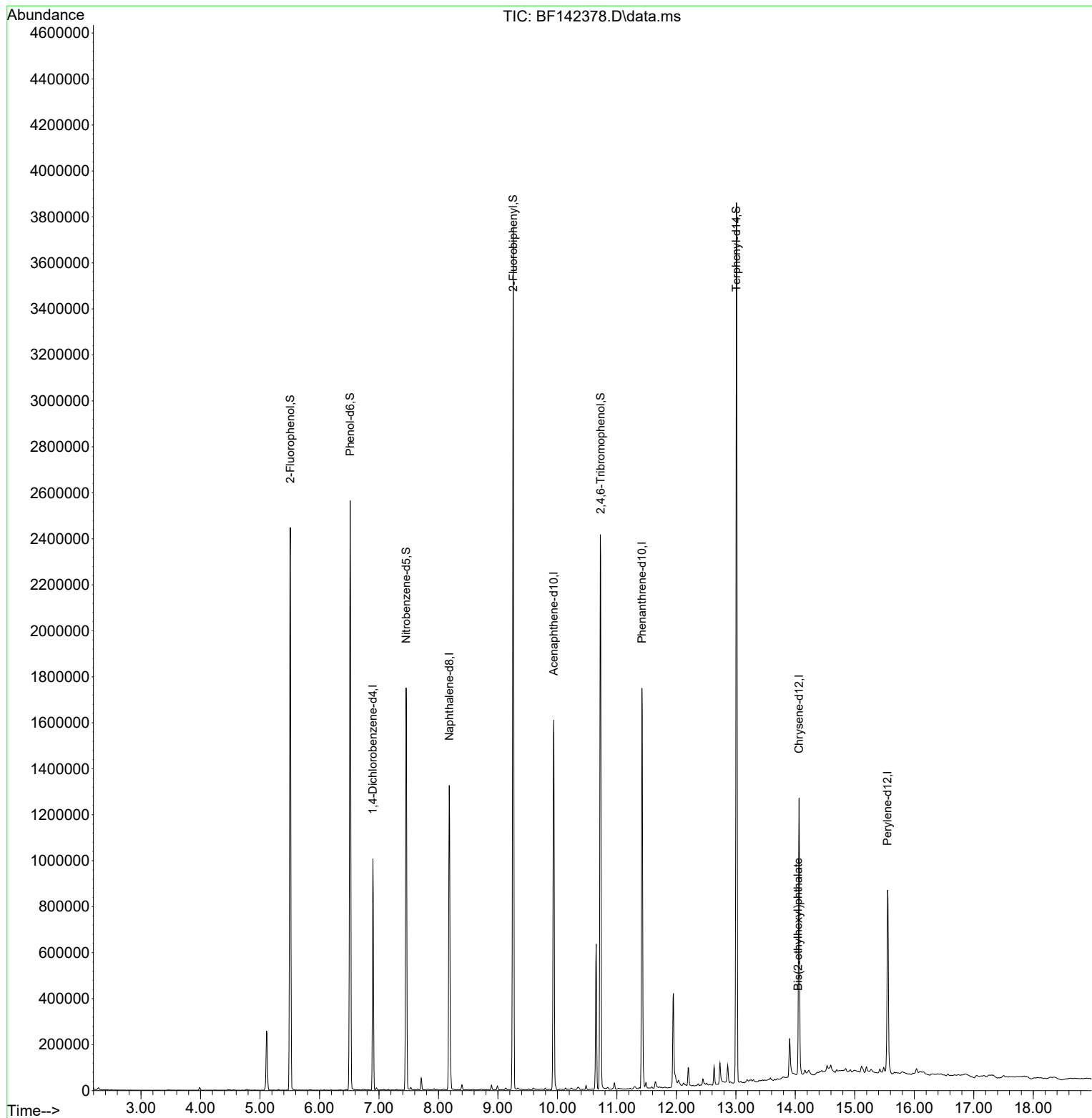
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	213754	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	843294	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	499403	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	915623	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	567502	20.000	ng	0.00
86) Perylene-d12	15.551	264	470991	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	967326	77.252	ng	0.00
7) Phenol-d6	6.516	99	1248110	81.043	ng	0.00
23) Nitrobenzene-d5	7.457	82	751490	54.348	ng	-0.01
42) 2,4,6-Tribromophenol	10.727	330	456974	94.776	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	1720635	49.127	ng	0.00
79) Terphenyl-d14	13.010	244	1907000	49.737	ng	0.00
Target Compounds						Qvalue
84) Bis(2-ethylhexyl)phtha...	14.045	149	6715	4.556	ng	99

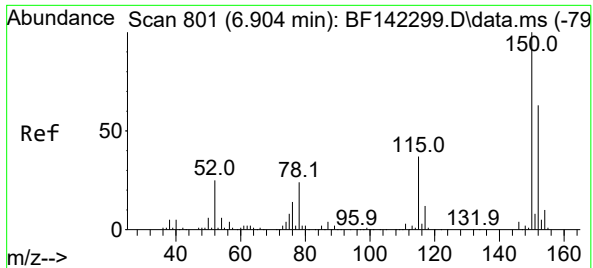
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142378.D
Acq On : 14 May 2025 21:06
Operator : RC/JU
Sample : Q1982-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-2B

Quant Time: May 15 01:04:47 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration

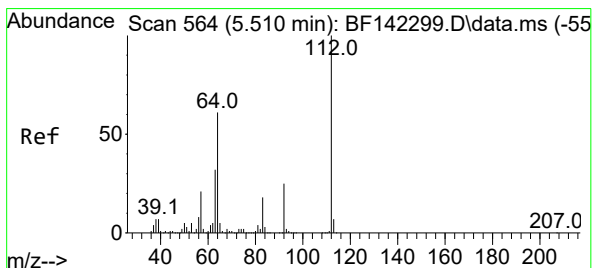
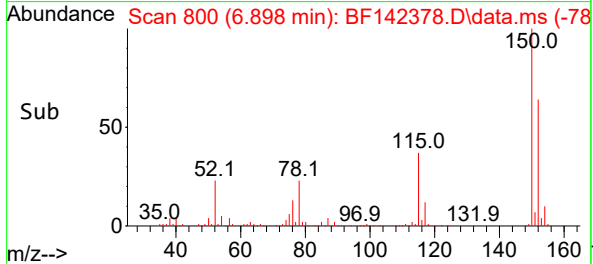
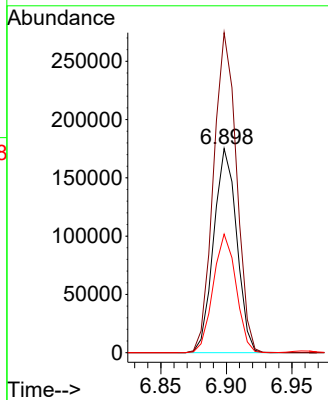
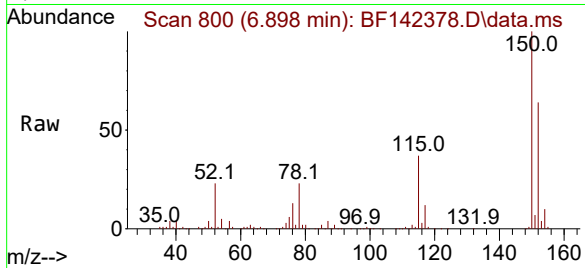




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 801
Delta R.T. -0.006 min
Lab File: BF142378.D
Acq: 14 May 2025 21:06

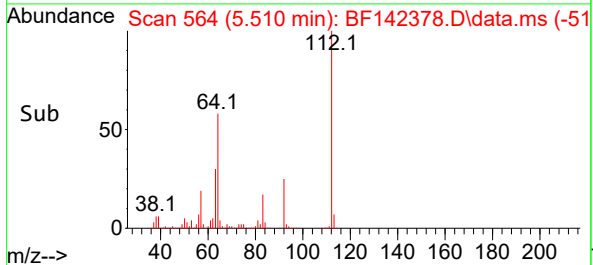
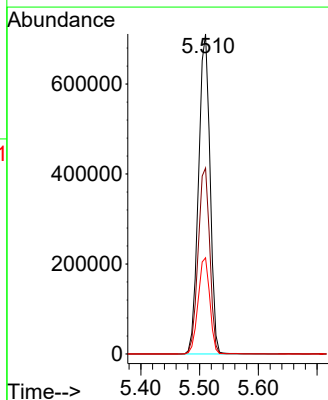
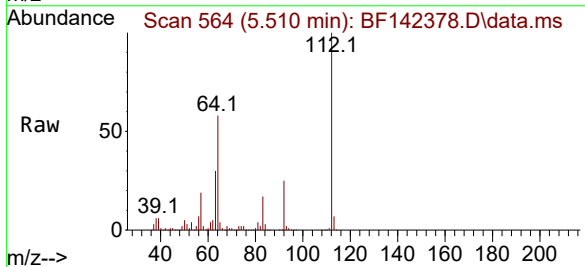
Instrument :
BNA_F
ClientSampleId :
TP-2B

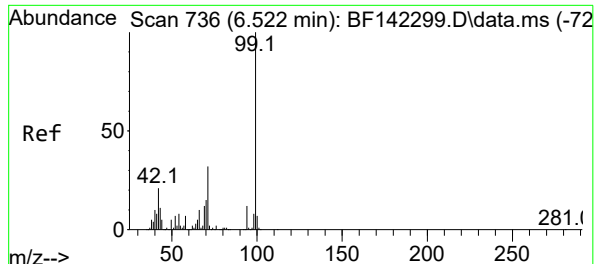
Tgt Ion:152 Resp: 213754
Ion Ratio Lower Upper
152 100
150 156.7 126.6 190.0
115 58.1 47.3 70.9



#5
2-Fluorophenol
Concen: 77.252 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.000 min
Lab File: BF142378.D
Acq: 14 May 2025 21:06

Tgt Ion:112 Resp: 967326
Ion Ratio Lower Upper
112 100
64 58.1 48.9 73.3
63 30.1 25.6 38.4





#7

Phenol-d6

Concen: 81.043 ng

RT: 6.516 min Scan# 71

Delta R.T. -0.006 min

Lab File: BF142378.D

Acq: 14 May 2025 21:06

Instrument :

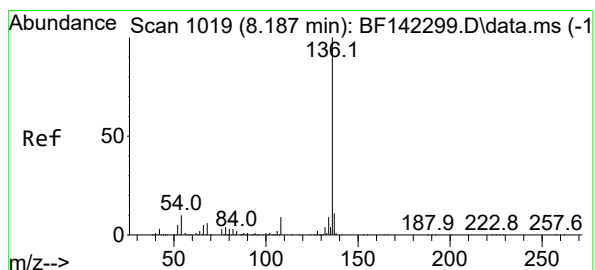
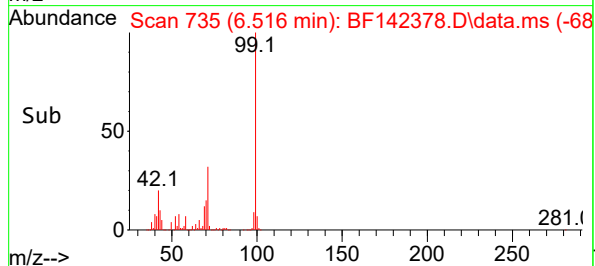
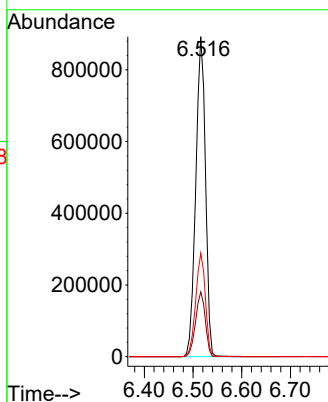
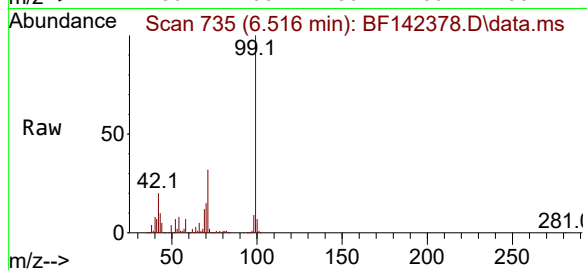
BNA_F

ClientSampleId :

TP-2B

Tgt Ion: 99 Resp: 1248110

Ion	Ratio	Lower	Upper
99	100		
42	20.2	17.0	25.4
71	32.3	25.8	38.8



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.181 min Scan# 1018

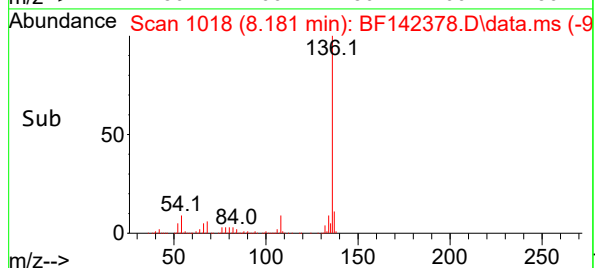
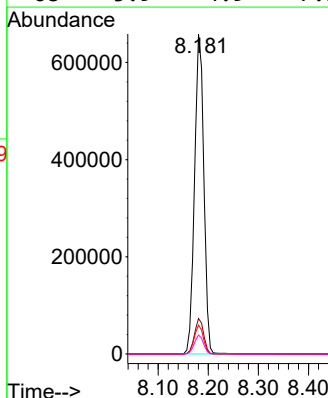
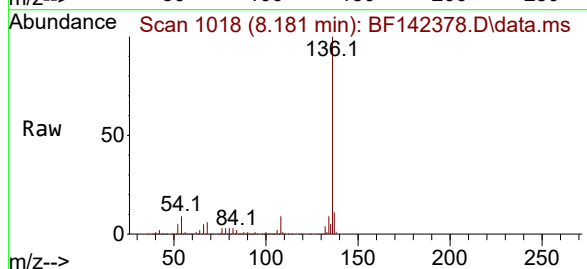
Delta R.T. -0.006 min

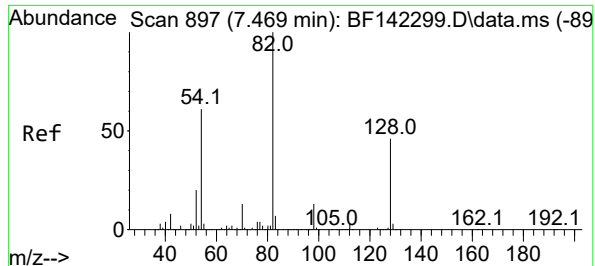
Lab File: BF142378.D

Acq: 14 May 2025 21:06

Tgt Ion: 136 Resp: 843294

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	9.0	7.7	11.5
68	5.9	4.9	7.3





#23

Nitrobenzene-d5

Concen: 54.348 ng

RT: 7.457 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF142378.D

Acq: 14 May 2025 21:06

Instrument :

BNA_F

ClientSampleId :

TP-2B

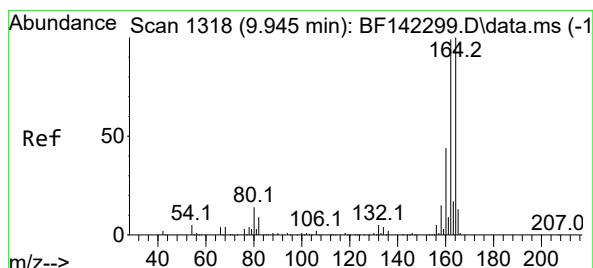
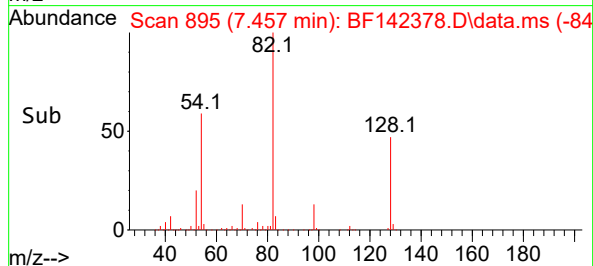
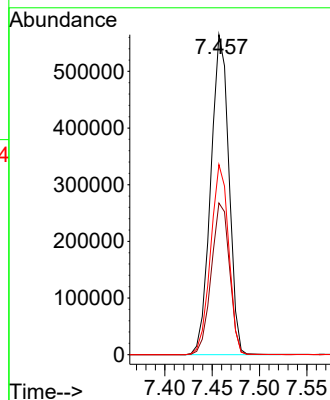
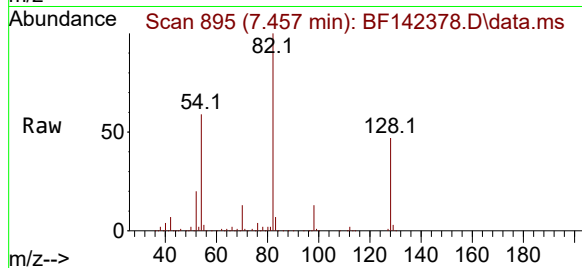
Tgt Ion: 82 Resp: 751490

Ion Ratio Lower Upper

82 100

128 47.4 37.0 55.6

54 59.4 48.6 73.0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.939 min Scan# 1317

Delta R.T. -0.006 min

Lab File: BF142378.D

Acq: 14 May 2025 21:06

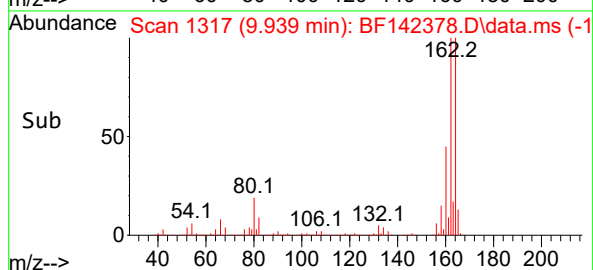
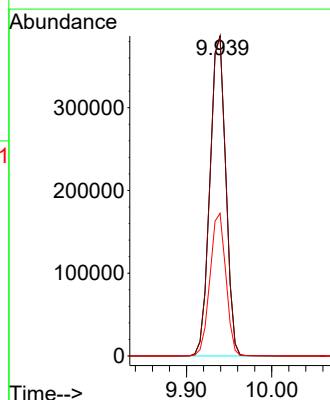
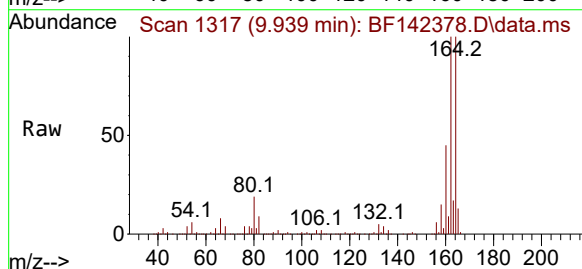
Tgt Ion:164 Resp: 499403

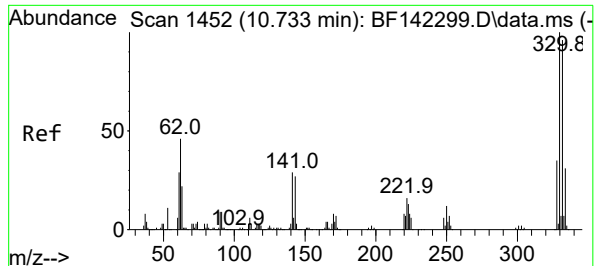
Ion Ratio Lower Upper

164 100

162 99.7 79.2 118.8

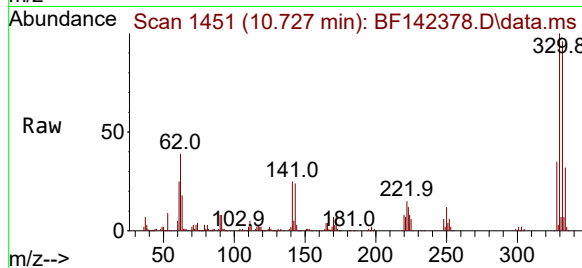
160 44.6 35.3 52.9



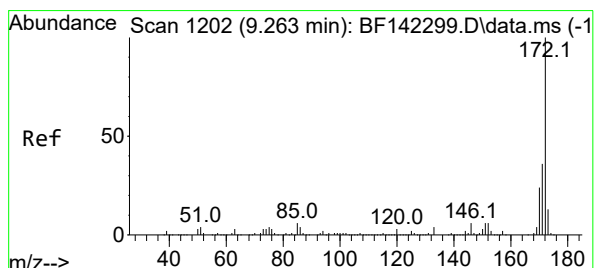
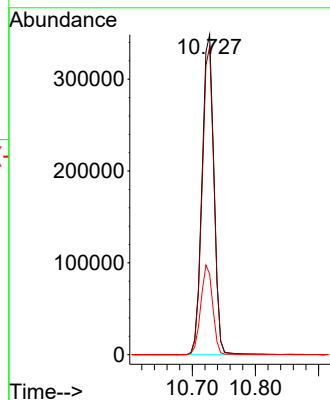
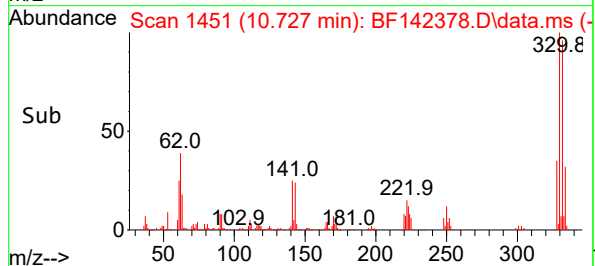


#42
2,4,6-Tribromophenol
Concen: 94.776 ng
RT: 10.727 min Scan# 1451
Delta R.T. -0.006 min
Lab File: BF142378.D
Acq: 14 May 2025 21:06

Instrument :
BNA_F
ClientSampleId :
TP-2B

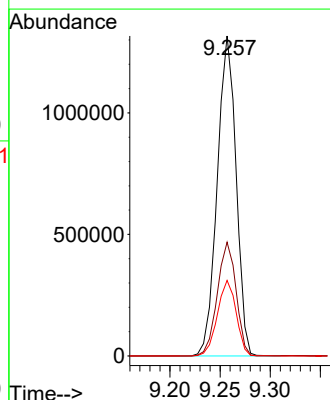
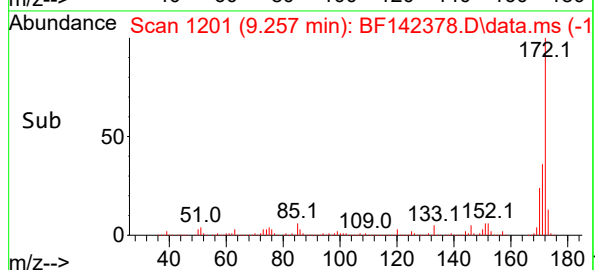
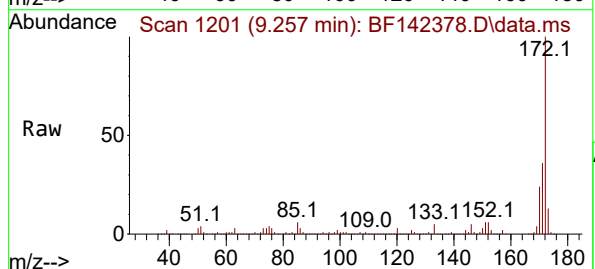


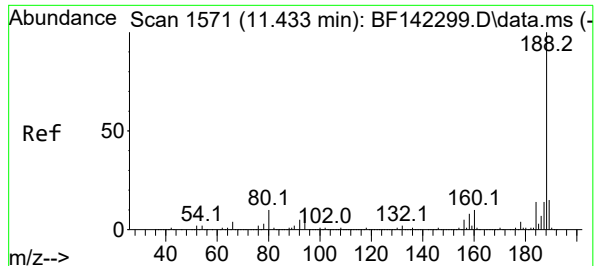
Tgt Ion:330 Resp: 456974
Ion Ratio Lower Upper
330 100
332 96.0 76.8 115.2
141 28.0 24.9 37.3



#45
2-Fluorobiphenyl
Concen: 49.127 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.006 min
Lab File: BF142378.D
Acq: 14 May 2025 21:06

Tgt Ion:172 Resp: 1720635
Ion Ratio Lower Upper
172 100
171 35.5 28.6 42.8
170 23.6 19.0 28.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.422 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF142378.D

Acq: 14 May 2025 21:06

Instrument :

BNA_F

ClientSampleId :

TP-2B

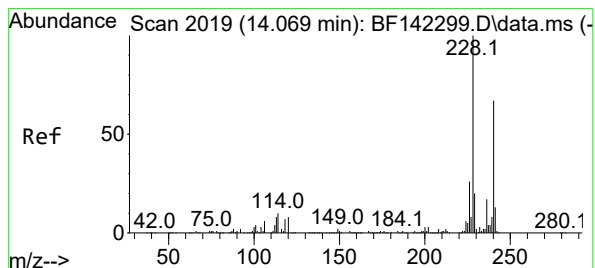
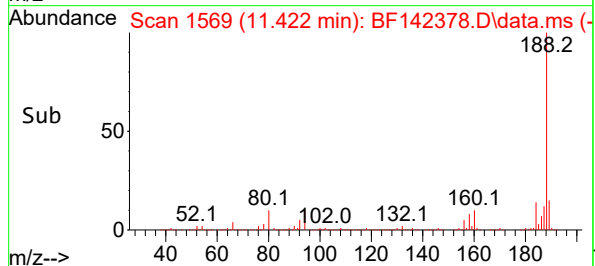
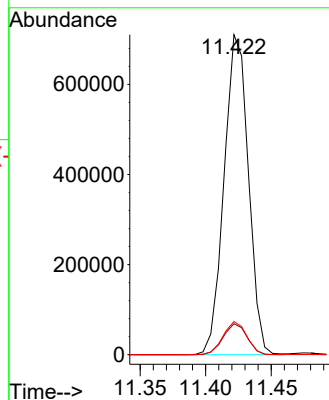
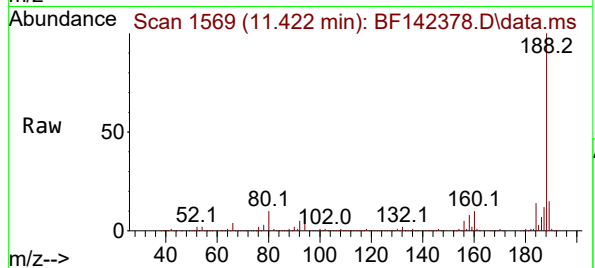
Tgt Ion:188 Resp: 915623

Ion Ratio Lower Upper

188 100

94 9.7 7.5 11.3

80 10.3 7.9 11.9



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.063 min Scan# 2018

Delta R.T. -0.006 min

Lab File: BF142378.D

Acq: 14 May 2025 21:06

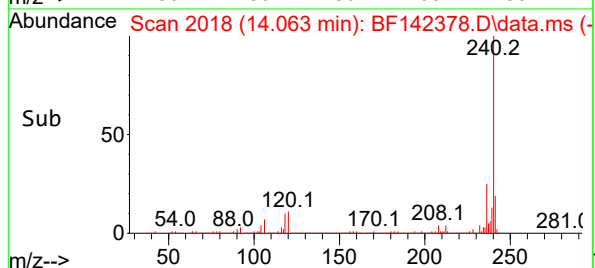
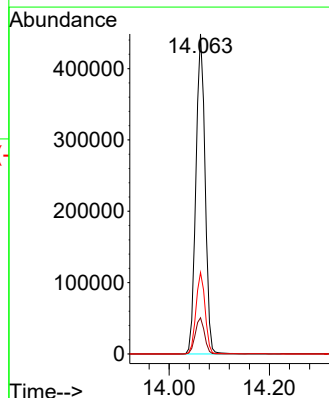
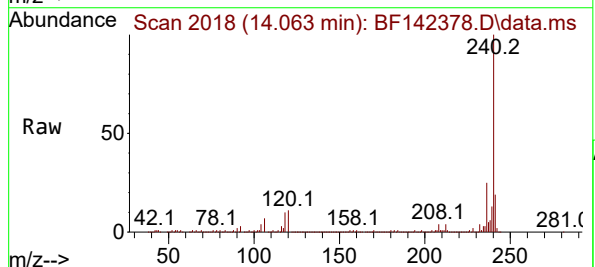
Tgt Ion:240 Resp: 567502

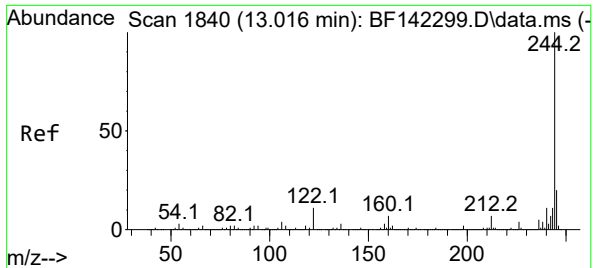
Ion Ratio Lower Upper

240 100

120 11.3 9.7 14.5

236 25.5 20.0 30.0





#79

Terphenyl-d14

Concen: 49.737 ng

RT: 13.010 min Scan# 1839

Delta R.T. -0.006 min

Lab File: BF142378.D

Acq: 14 May 2025 21:06

Instrument :

BNA_F

ClientSampleId :

TP-2B

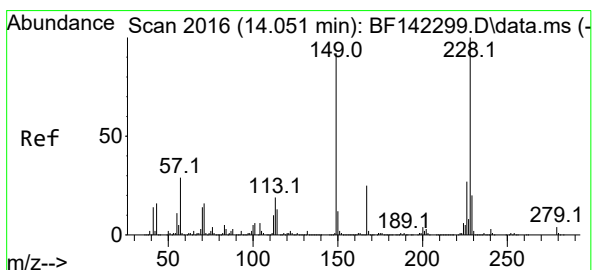
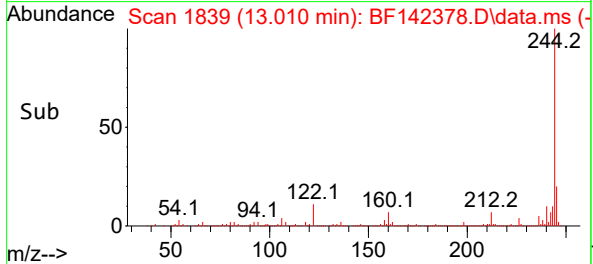
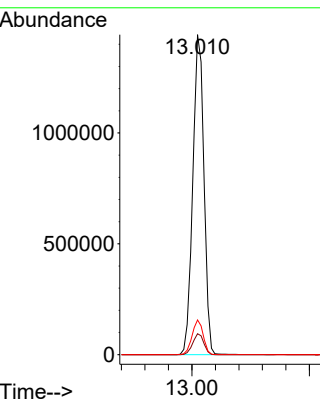
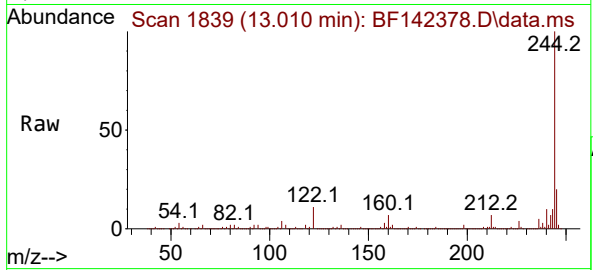
Tgt Ion:244 Resp: 1907000

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.2

122 10.9 9.0 13.4



#84

Bis(2-ethylhexyl)phthalate

Concen: 4.556 ng

RT: 14.045 min Scan# 2015

Delta R.T. -0.006 min

Lab File: BF142378.D

Acq: 14 May 2025 21:06

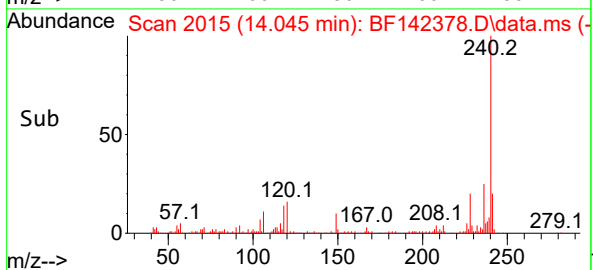
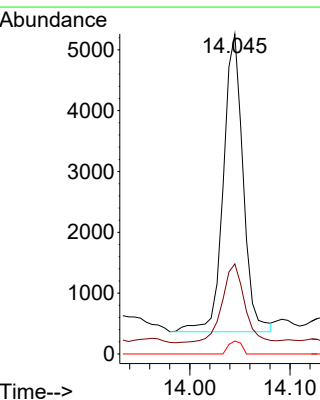
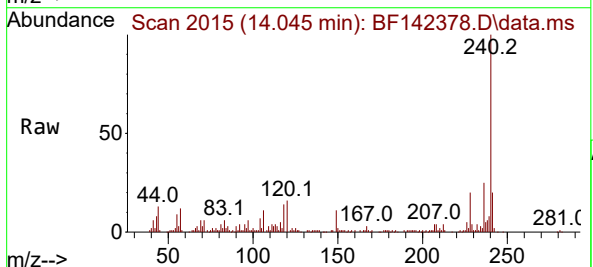
Tgt Ion:149 Resp: 6715

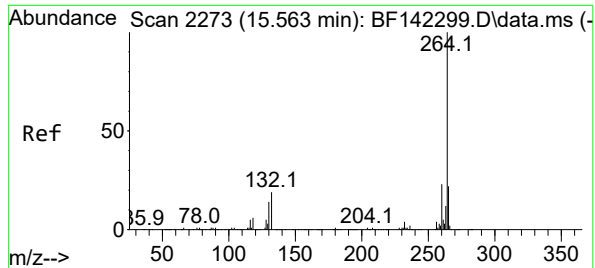
Ion Ratio Lower Upper

149 100

167 28.2 22.0 33.0

279 4.0 3.0 4.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF142378.D

Acq: 14 May 2025 21:06

Instrument :

BNA_F

ClientSampleId :

TP-2B

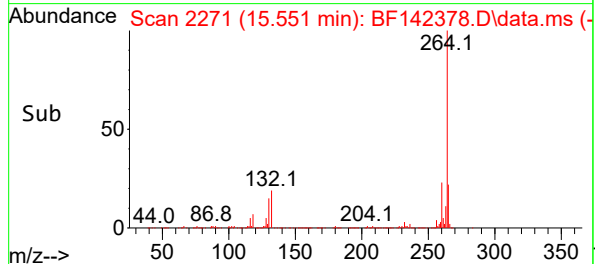
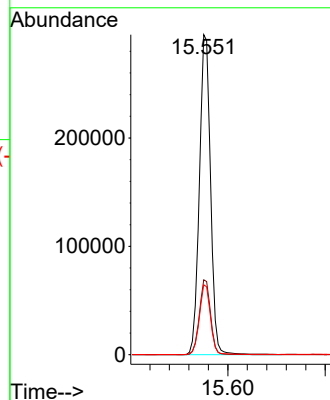
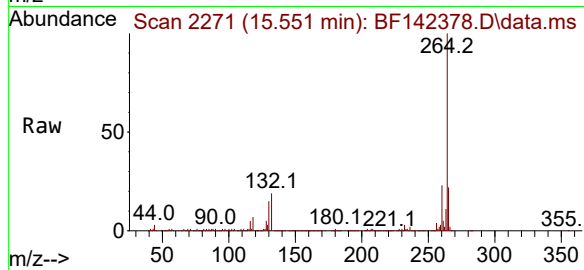
Tgt Ion:264 Resp: 470991

Ion Ratio Lower Upper

264 100

260 23.4 18.6 27.8

265 21.9 17.5 26.3



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
 Data File : BF142378.D
 Acq On : 14 May 2025 21:06
 Operator : RC/JU
 Sample : Q1982-02
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-2B

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-BF050525.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142378.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	486	496	506	rBV	258211	396839	7.91%	1.117%
2	5.510	557	564	569	rBV	2446963	3345301	66.68%	9.418%
3	6.516	728	735	740	rBV	2562772	3596202	71.68%	10.124%
4	6.898	795	800	805	rBV	1006630	1224438	24.41%	3.447%
5	7.457	889	895	900	rBV	1749142	2333061	46.50%	6.568%
6	7.710	934	938	943	rBV	50480	62183	1.24%	0.175%
7	8.181	1012	1018	1027	rBV	1323895	1782159	35.52%	5.017%
8	9.257	1194	1201	1206	rBV	3751060	4892909	97.53%	13.775%
9	9.939	1310	1317	1322	rBV	1608672	2112497	42.11%	5.947%
10	10.651	1430	1438	1444	rBV	632568	791516	15.78%	2.228%
11	10.722	1444	1450	1462	rBV	2411779	3228344	64.35%	9.089%
12	11.422	1564	1569	1577	rBV	1740136	2306761	45.98%	6.494%
13	11.645	1602	1607	1616	rBV2	28892	55143	1.10%	0.155%
14	11.951	1651	1659	1670	rBV2	409419	686422	13.68%	1.932%
15	12.198	1697	1701	1711	rVB3	79475	113008	2.25%	0.318%
16	12.633	1771	1775	1782	rBV	81252	109629	2.19%	0.309%
17	12.733	1787	1792	1799	rBV	91428	152689	3.04%	0.430%
18	12.863	1809	1814	1819	rVB	75577	103372	2.06%	0.291%
19	13.010	1833	1839	1844	rBV	3826366	5016844	100.00%	14.124%
20	13.904	1986	1991	2000	rBV	169450	301695	6.01%	0.849%
21	14.063	2012	2018	2029	rVB	1201328	1592832	31.75%	4.484%
22	15.551	2265	2271	2284	rVB	799500	1316169	26.23%	3.705%

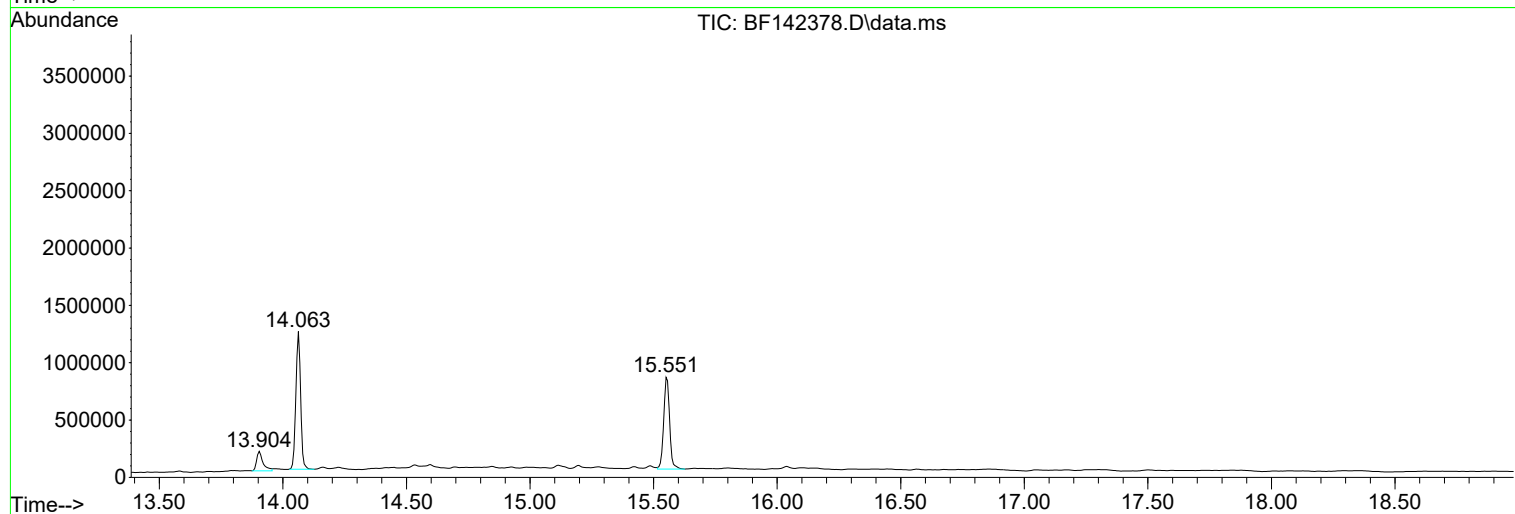
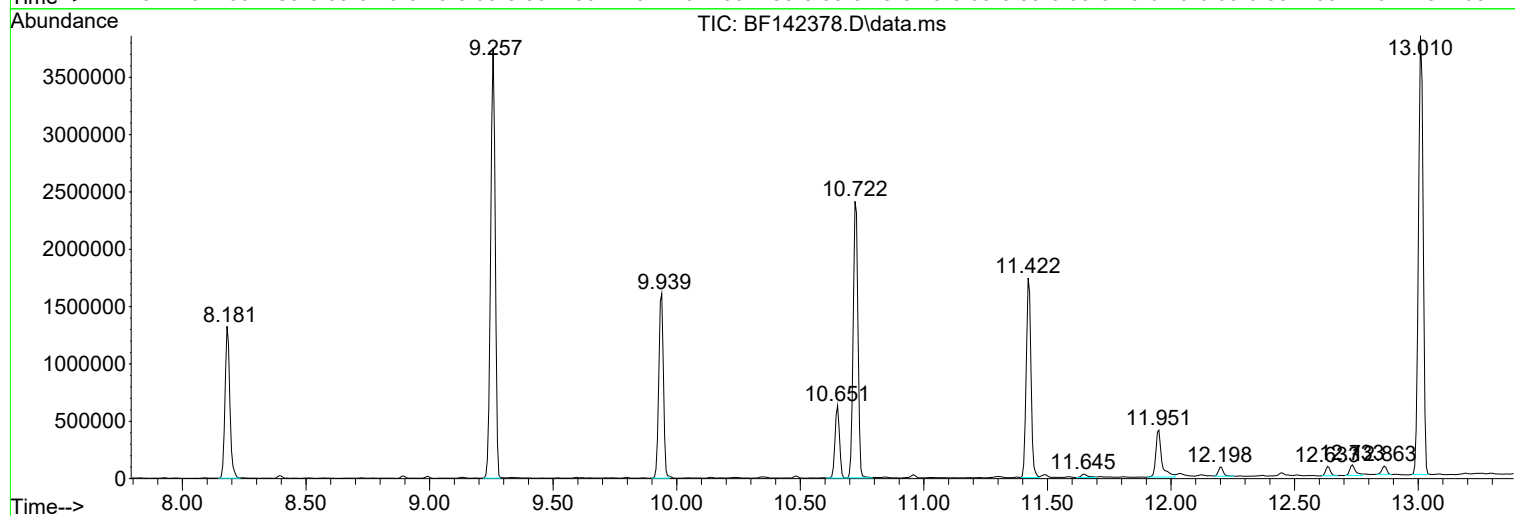
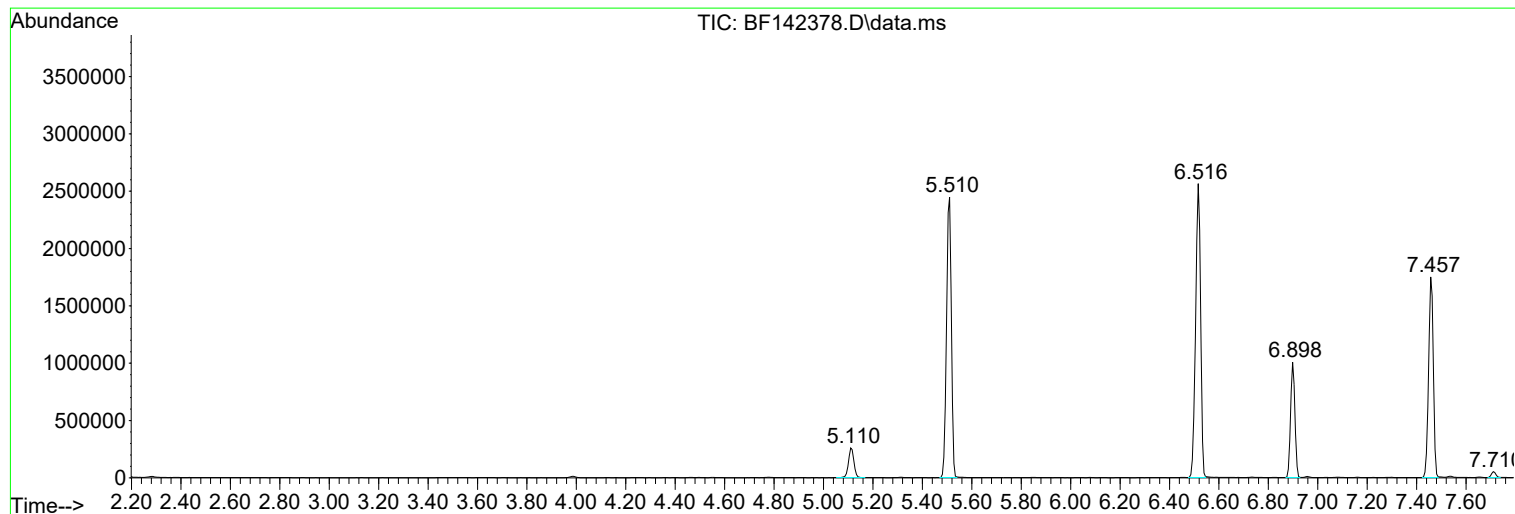
Sum of corrected areas: 35520013

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142378.D
Acq On : 14 May 2025 21:06
Operator : RC/JU
Sample : Q1982-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-2B

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.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\BF051425\
Data File : BF142378.D
Acq On : 14 May 2025 21:06
Operator : RC/JU
Sample : Q1982-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

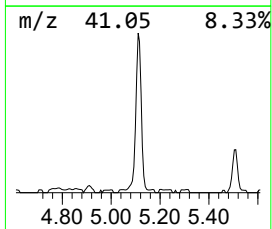
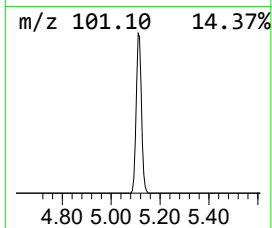
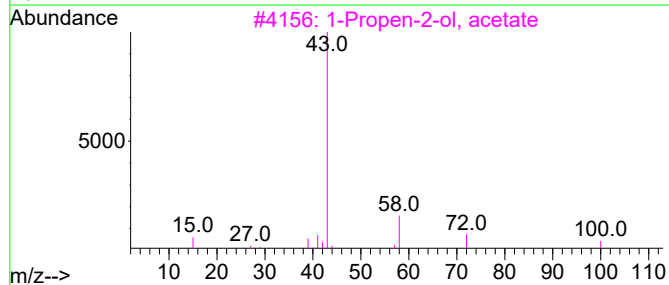
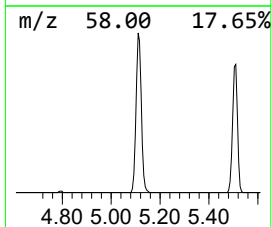
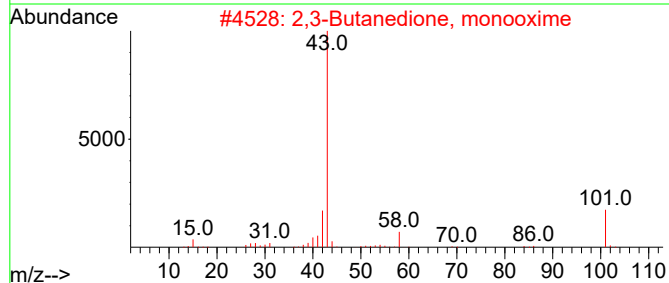
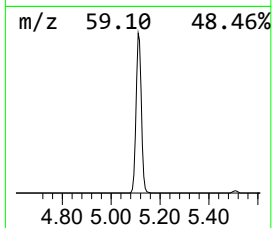
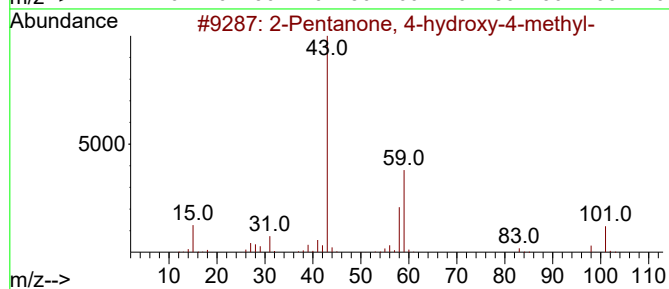
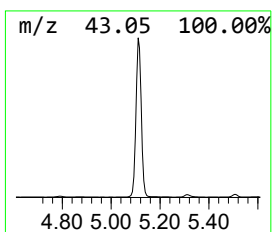
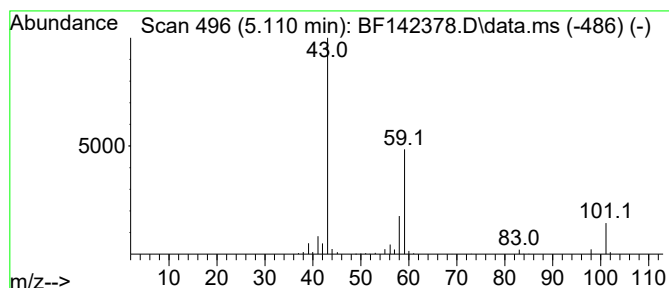
Instrument :
BNA_F
ClientSampleId :
TP-2B

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.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.	
5.110	6.48 ng	396839	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	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	Acetone	58	C3H6O	000067-64-1	12
5	Allyl acetate	100	C5H8O2	000591-87-7	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142378.D
Acq On : 14 May 2025 21:06
Operator : RC/JU
Sample : Q1982-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-2B

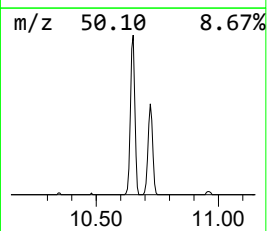
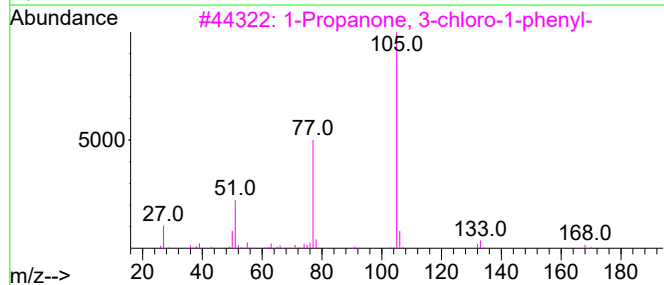
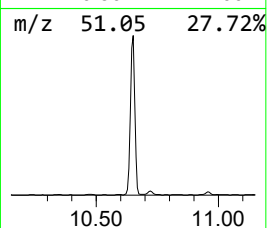
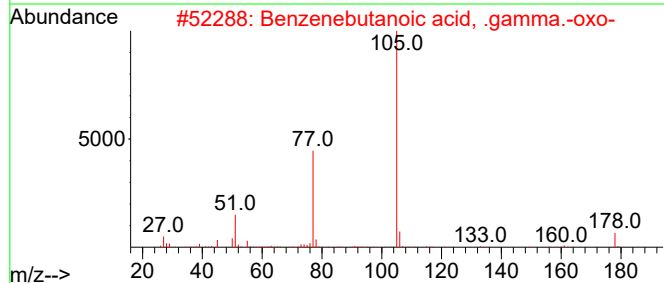
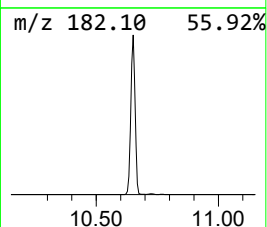
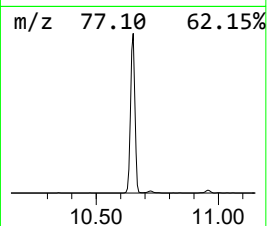
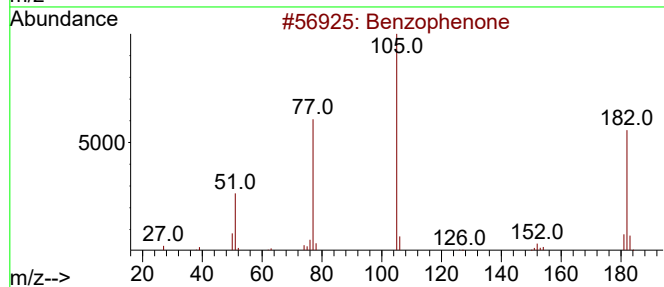
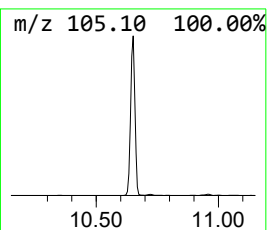
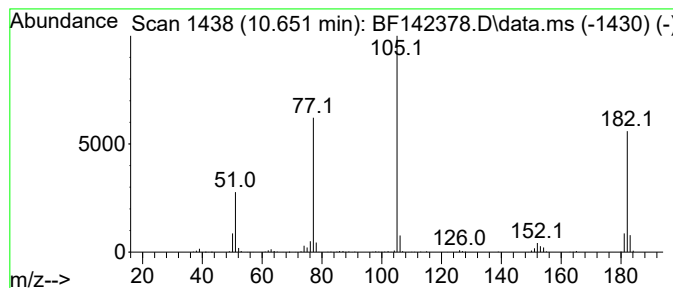
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Benzophenone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	7.49 ng	791516	Acenaphthene-d10	9.939

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			1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	47
4			N-Methylbenzamide, N-trifluoroac...	231	C10H8F3NO2	1000446-91-5	47
5			Vinyl benzoate	148	C9H8O2	000769-78-8	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142378.D
Acq On : 14 May 2025 21:06
Operator : RC/JU
Sample : Q1982-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-2B

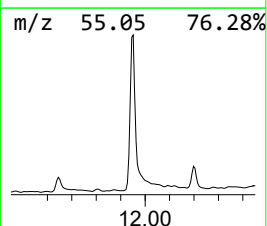
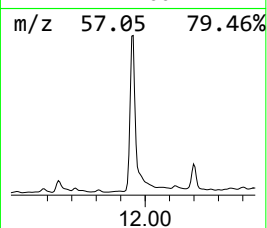
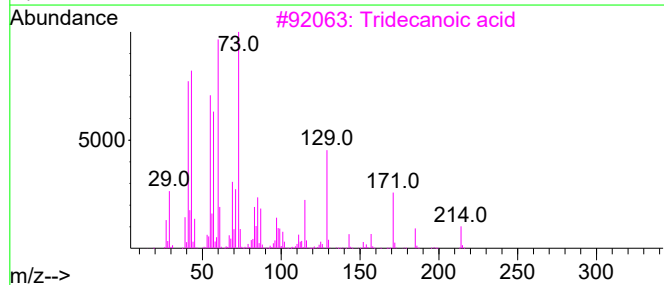
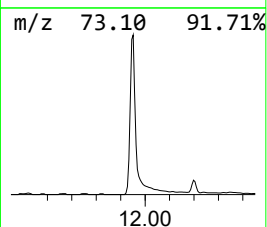
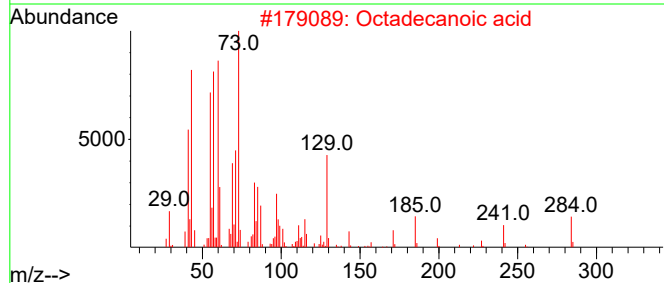
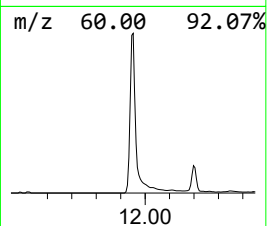
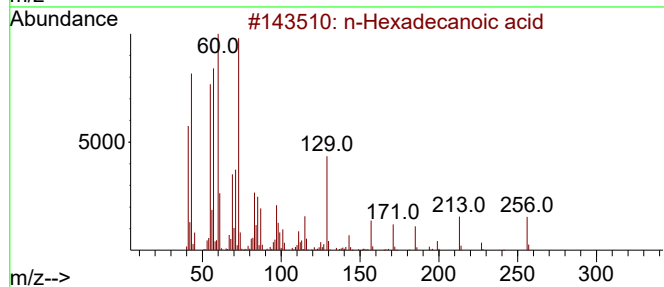
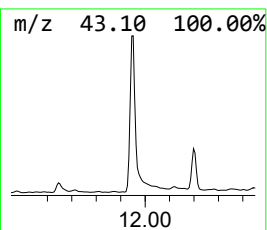
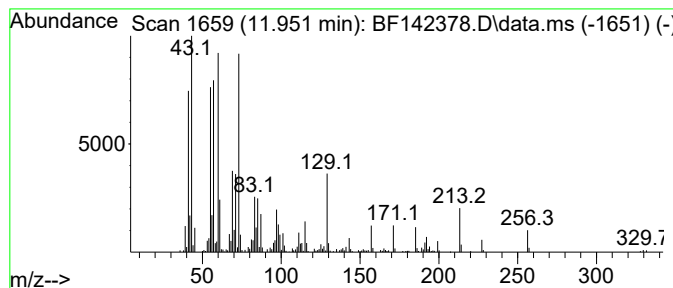
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.951	5.95 ng	686422	Phenanthrene-d10	11.422

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2			Octadecanoic acid	284	C18H36O2	000057-11-4	93
3			Tridecanoic acid	214	C13H26O2	000638-53-9	92
4			Pentadecanoic acid	242	C15H30O2	001002-84-2	90
5			Tetradecanoic acid	228	C14H28O2	000544-63-8	64



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142378.D
Acq On : 14 May 2025 21:06
Operator : RC/JU
Sample : Q1982-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-2B

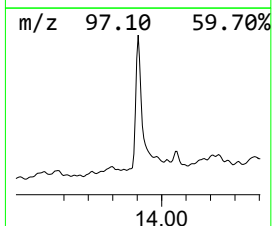
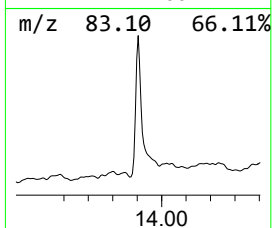
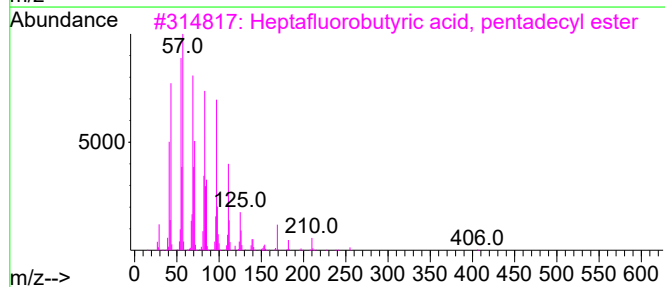
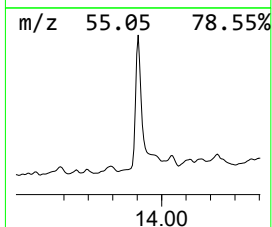
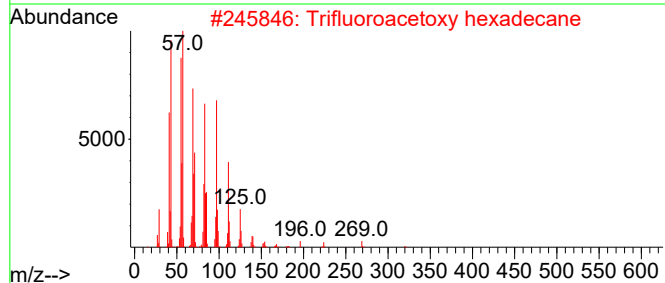
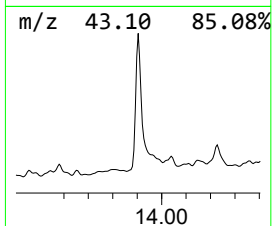
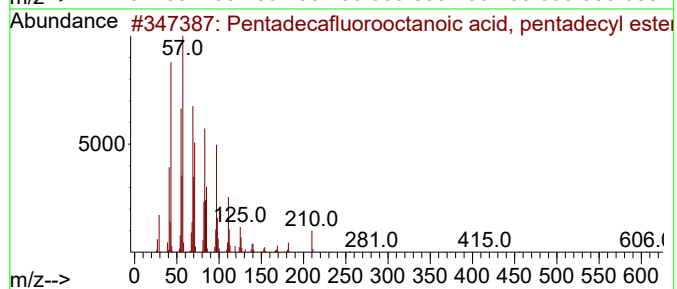
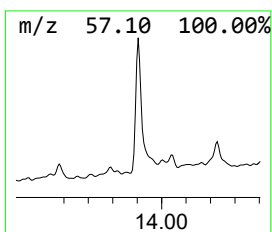
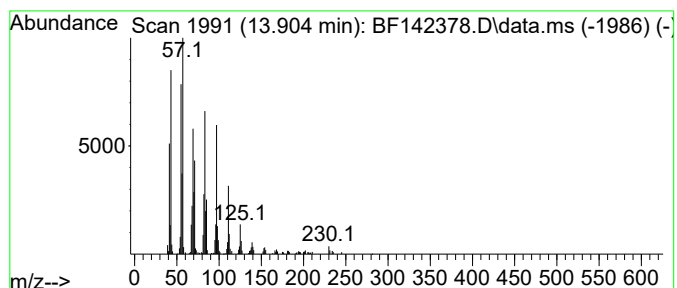
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Pentadecafluorooctanoic aci... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	3.79 ng	301695	Chrysene-d12	14.063

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentadecafluorooctanoic acid, pe...	624	C23H31F15O2	1000406-04-5	94
2			Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	94
3			Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	94
4			Heptafluorobutyric acid, hexadec...	438	C20H33F7O2	006385-15-5	94
5			Heptafluorobutyric acid, n-tetra...	410	C18H29F7O2	007365-36-8	94



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142378.D
Acq On : 14 May 2025 21:06
Operator : RC/JU
Sample : Q1982-02
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-2B

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-...	5.110	6.5	ng	396839	1	6.898	1224440	20.0
Benzophenone	10.651	7.5	ng	791516	3	9.939	2112500	20.0
n-Hexadecanoic ...	11.951	6.0	ng	686422	4	11.422	2306760	20.0
Pentadecafluoro...	13.904	3.8	ng	301695	5	14.063	1592830	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142365.D
Acq On : 14 May 2025 14:51
Operator : RC/JU
Sample : Q1982-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-3

Quant Time: May 14 15:32:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration

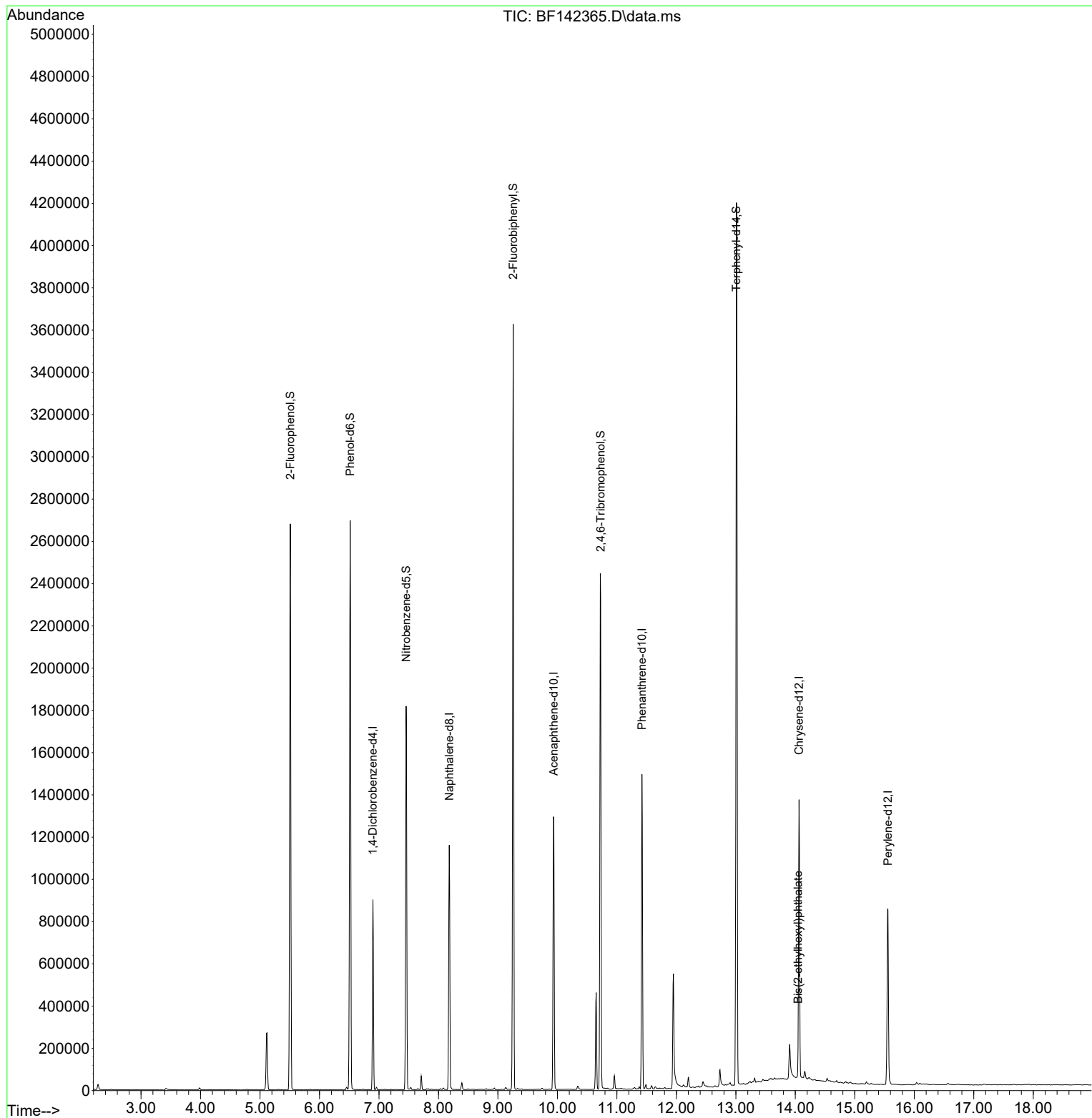
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	187393	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	720141	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	397265	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	760301	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	624905	20.000	ng	0.00
86) Perylene-d12	15.557	264	499846	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	1055907	96.189	ng	0.00
7) Phenol-d6	6.516	99	1309851	97.016	ng	0.00
23) Nitrobenzene-d5	7.457	82	770287	65.234	ng	-0.01
42) 2,4,6-Tribromophenol	10.728	330	454333	118.454	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	1617731	58.064	ng	0.00
79) Terphenyl-d14	13.010	244	2158643	51.128	ng	0.00
Target Compounds						
84) Bis(2-ethylhexyl)phtha...	14.045	149	6731	4.527	ng	Qvalue 97

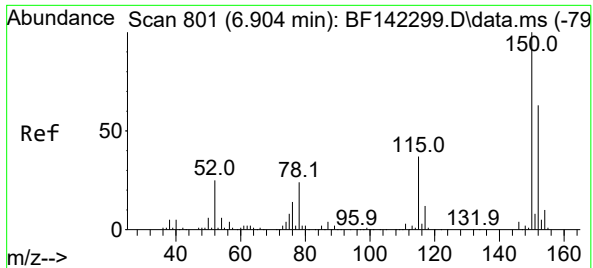
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142365.D
Acq On : 14 May 2025 14:51
Operator : RC/JU
Sample : Q1982-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-3

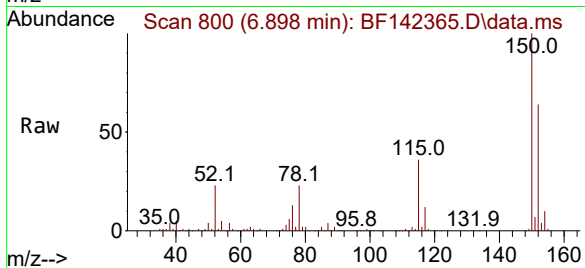
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration



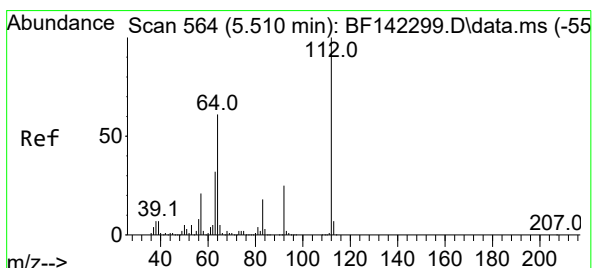
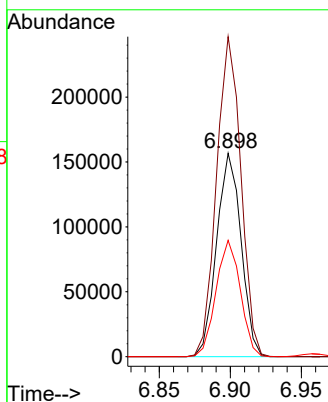
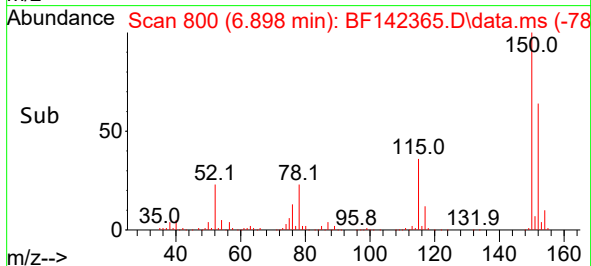


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 801
Delta R.T. -0.006 min
Lab File: BF142365.D
Acq: 14 May 2025 14:51

Instrument :
BNA_F
ClientSampleId :
TP-3

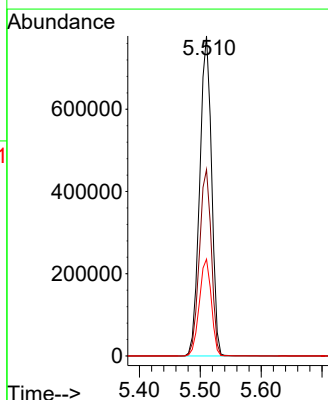
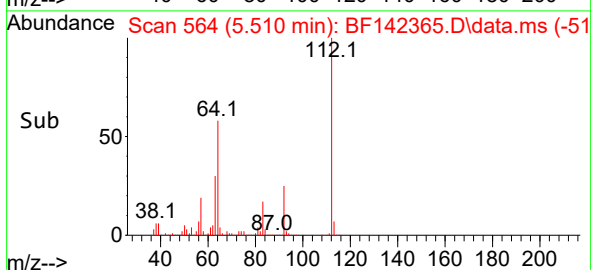
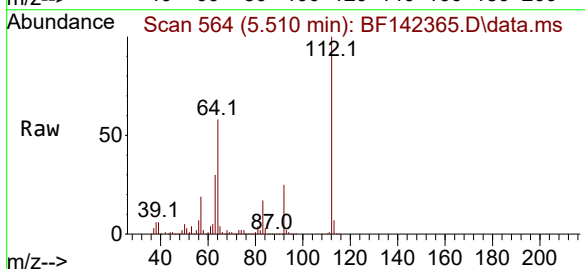


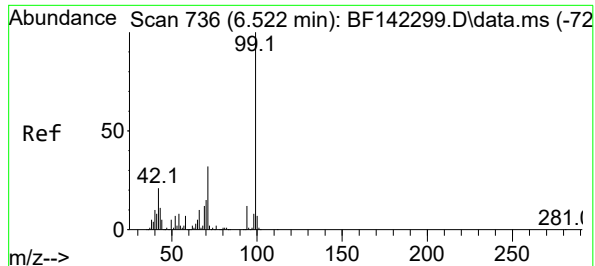
Tgt Ion:152 Resp: 187393
Ion Ratio Lower Upper
152 100
150 157.4 126.6 190.0
115 57.2 47.3 70.9



#5
2-Fluorophenol
Concen: 96.189 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.000 min
Lab File: BF142365.D
Acq: 14 May 2025 14:51

Tgt Ion:112 Resp: 1055907
Ion Ratio Lower Upper
112 100
64 58.3 48.9 73.3
63 30.2 25.6 38.4

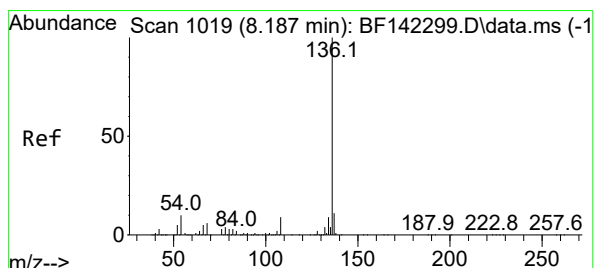
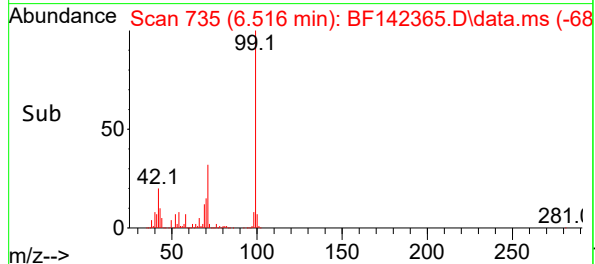
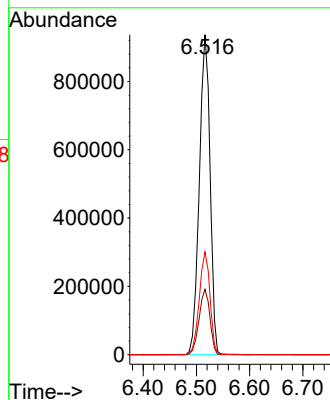
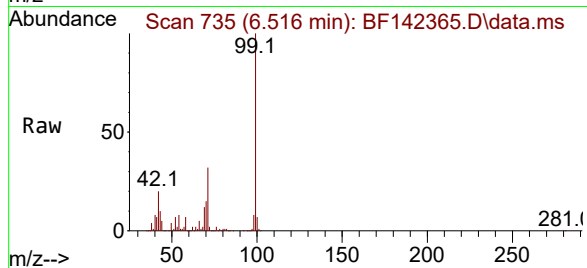




#7
Phenol-d6
Concen: 97.016 ng
RT: 6.516 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF142365.D
Acq: 14 May 2025 14:51

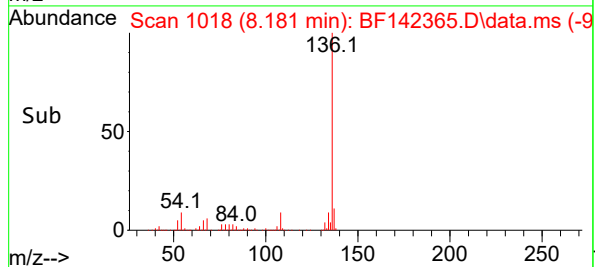
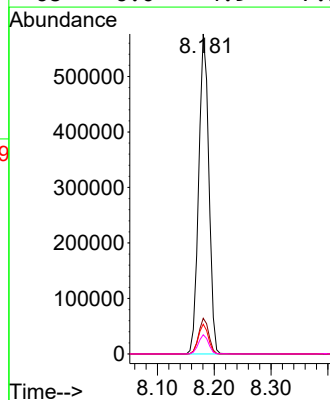
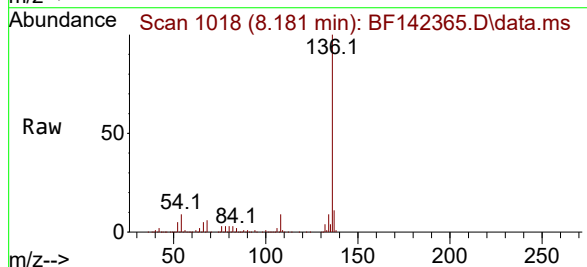
Instrument :
BNA_F
ClientSampleId :
TP-3

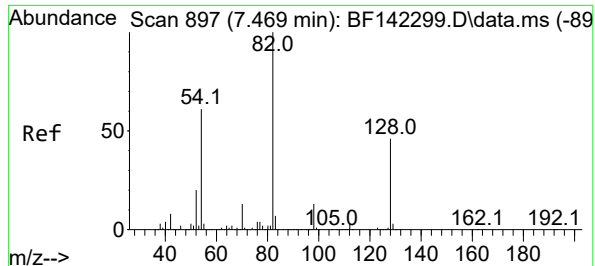
Tgt Ion: 99 Resp: 1309851
Ion Ratio Lower Upper
99 100
42 20.5 17.0 25.4
71 32.1 25.8 38.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142365.D
Acq: 14 May 2025 14:51

Tgt Ion: 136 Resp: 720141
Ion Ratio Lower Upper
136 100
137 11.1 8.9 13.3
54 9.3 7.7 11.5
68 6.0 4.9 7.3





#23

Nitrobenzene-d5

Concen: 65.234 ng

RT: 7.457 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF142365.D

Acq: 14 May 2025 14:51

Instrument :

BNA_F

ClientSampleId :

TP-3

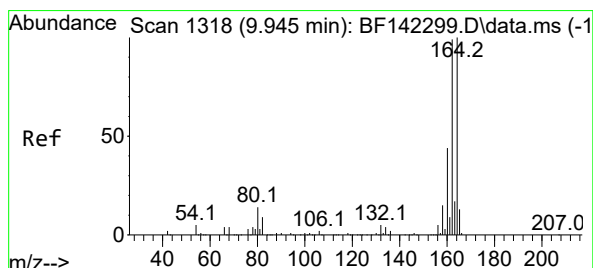
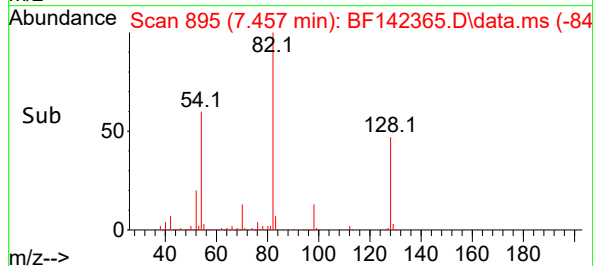
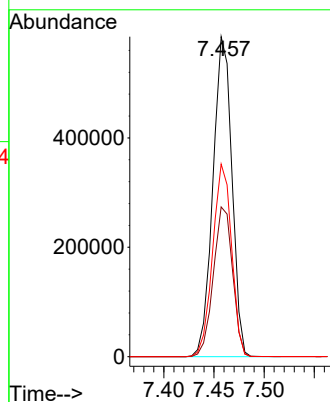
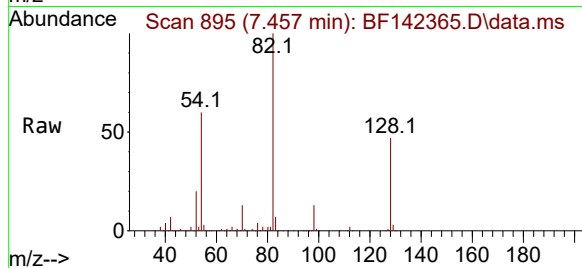
Tgt Ion: 82 Resp: 770287

Ion Ratio Lower Upper

82 100

128 46.8 37.0 55.6

54 60.2 48.6 73.0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.939 min Scan# 1317

Delta R.T. -0.006 min

Lab File: BF142365.D

Acq: 14 May 2025 14:51

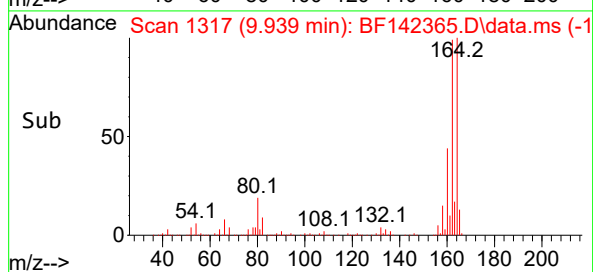
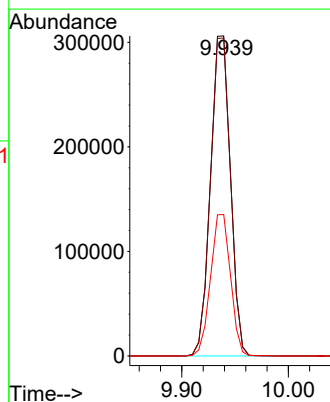
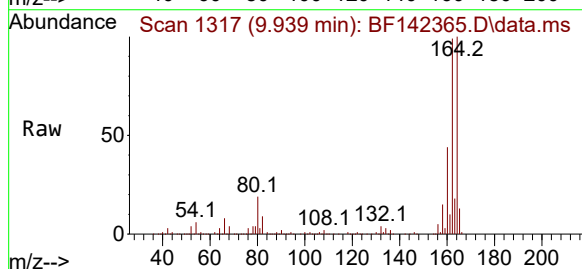
Tgt Ion: 164 Resp: 397265

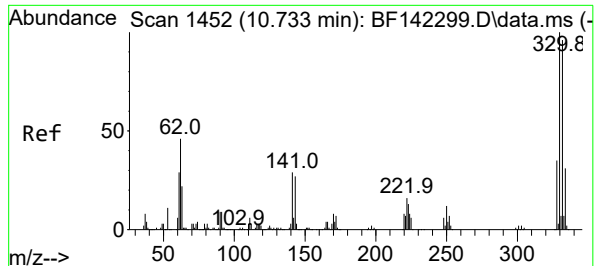
Ion Ratio Lower Upper

164 100

162 99.4 79.2 118.8

160 44.2 35.3 52.9





#42

2,4,6-Tribromophenol

Concen: 118.454 ng

RT: 10.728 min Scan# 1451

Delta R.T. -0.006 min

Lab File: BF142365.D

Acq: 14 May 2025 14:51

Instrument :

BNA_F

ClientSampleId :

TP-3

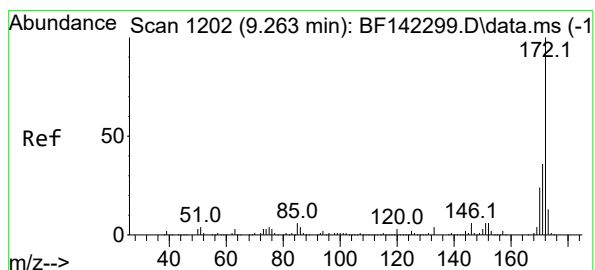
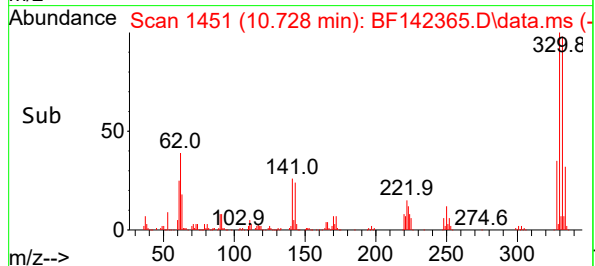
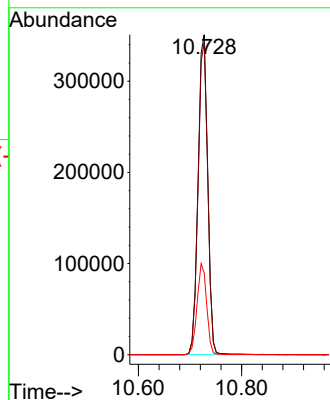
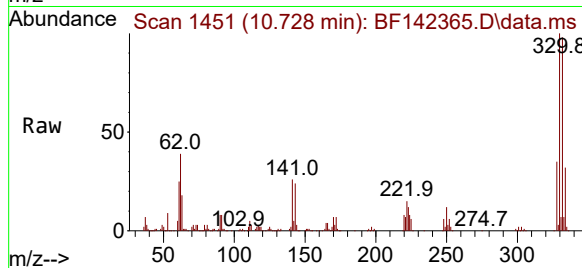
Tgt Ion:330 Resp: 454333

Ion Ratio Lower Upper

330 100

332 97.5 76.8 115.2

141 28.3 24.9 37.3



#45

2-Fluorobiphenyl

Concen: 58.064 ng

RT: 9.257 min Scan# 1201

Delta R.T. -0.006 min

Lab File: BF142365.D

Acq: 14 May 2025 14:51

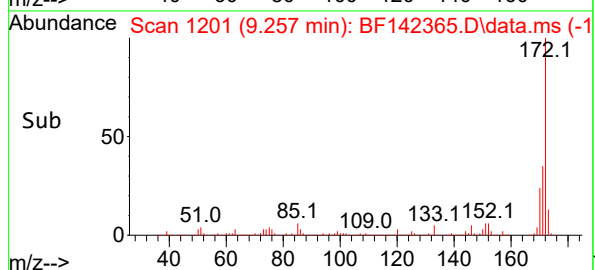
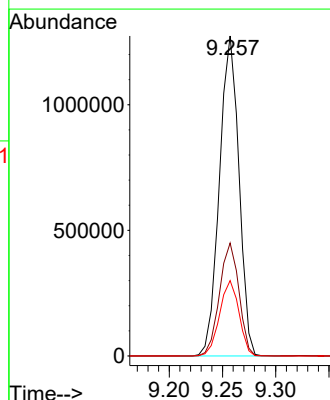
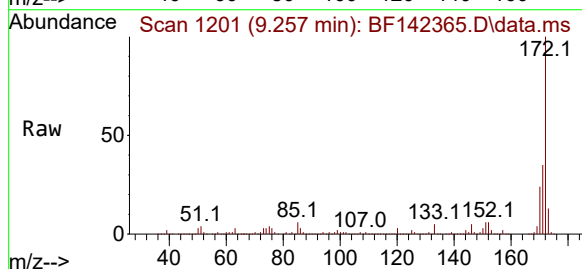
Tgt Ion:172 Resp: 1617731

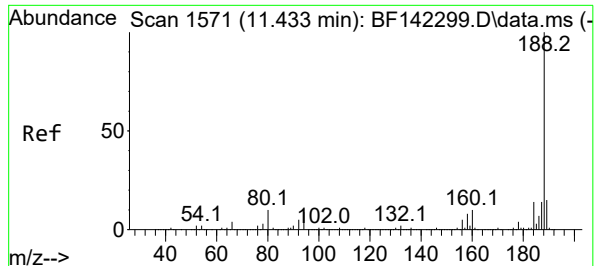
Ion Ratio Lower Upper

172 100

171 35.3 28.6 42.8

170 23.5 19.0 28.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.422 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF142365.D

Acq: 14 May 2025 14:51

Instrument :

BNA_F

ClientSampleId :

TP-3

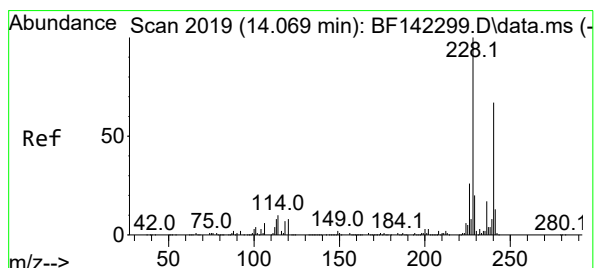
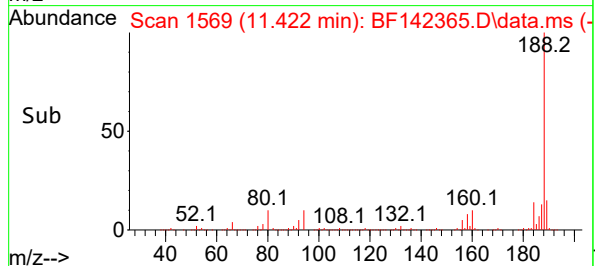
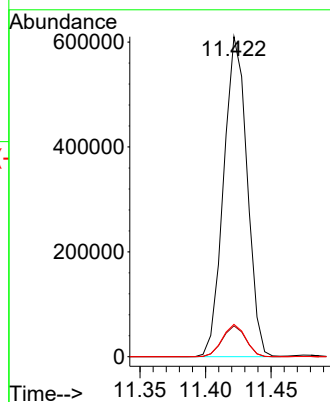
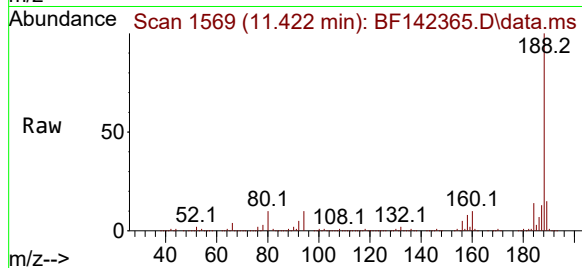
Tgt Ion:188 Resp: 760301

Ion Ratio Lower Upper

188 100

94 9.7 7.5 11.3

80 10.1 7.9 11.9



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.063 min Scan# 2018

Delta R.T. -0.006 min

Lab File: BF142365.D

Acq: 14 May 2025 14:51

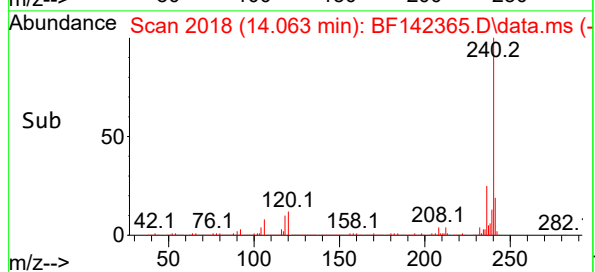
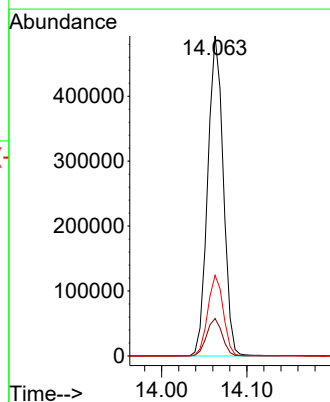
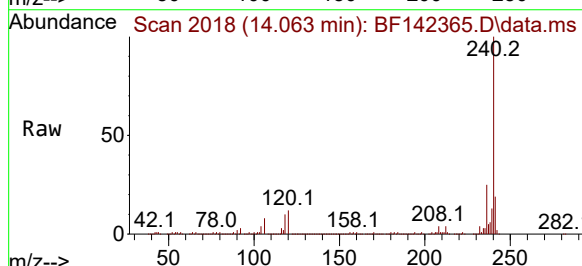
Tgt Ion:240 Resp: 624905

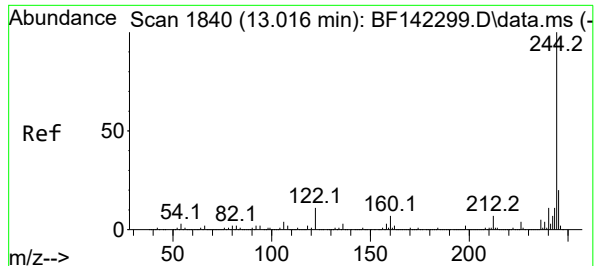
Ion Ratio Lower Upper

240 100

120 11.7 9.7 14.5

236 25.2 20.0 30.0





#79

Terphenyl-d14

Concen: 51.128 ng

RT: 13.010 min Scan# 1840

Delta R.T. -0.006 min

Lab File: BF142365.D

Acq: 14 May 2025 14:51

Instrument :

BNA_F

ClientSampleId :

TP-3

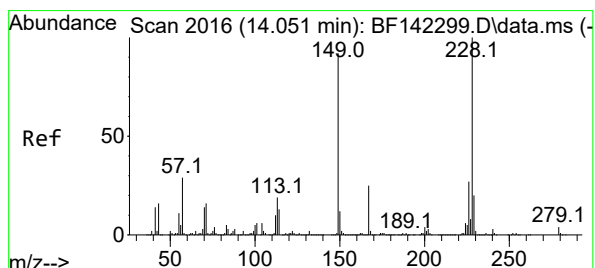
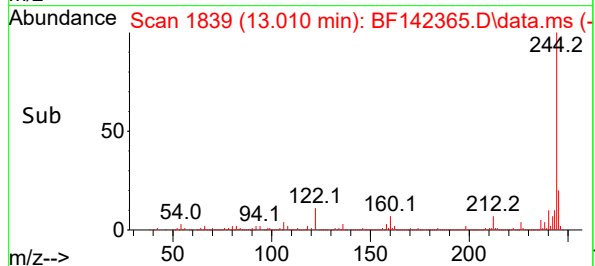
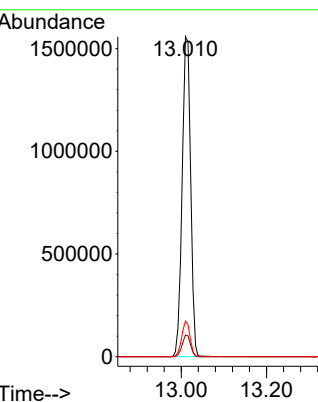
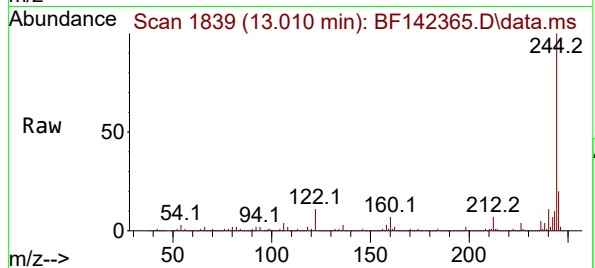
Tgt Ion:244 Resp: 2158643

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.2

122 11.2 9.0 13.4



#84

Bis(2-ethylhexyl)phthalate

Concen: 4.527 ng

RT: 14.045 min Scan# 2015

Delta R.T. -0.006 min

Lab File: BF142365.D

Acq: 14 May 2025 14:51

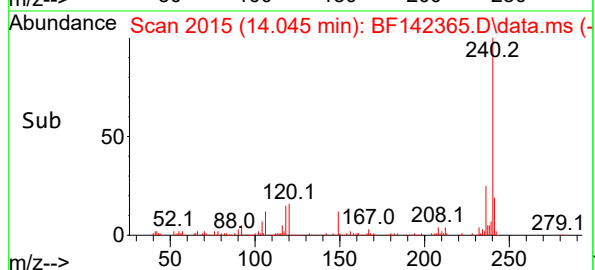
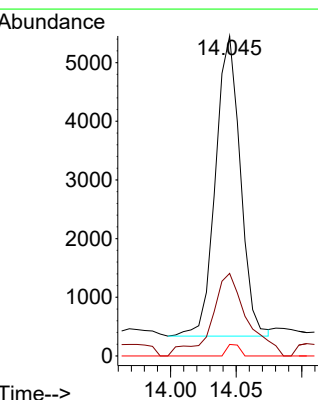
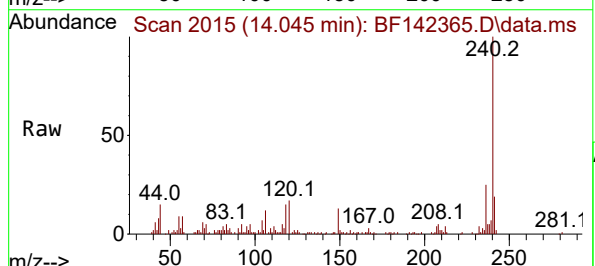
Tgt Ion:149 Resp: 6731

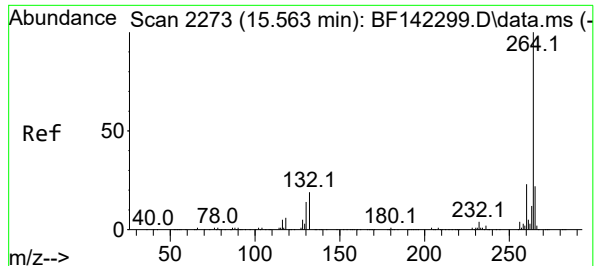
Ion Ratio Lower Upper

149 100

167 25.8 22.0 33.0

279 3.6 3.0 4.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.557 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142365.D

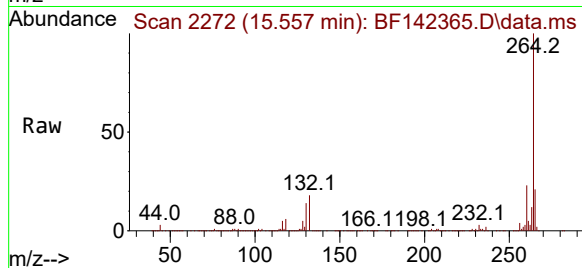
Acq: 14 May 2025 14:51

Instrument :

BNA_F

ClientSampleId :

TP-3



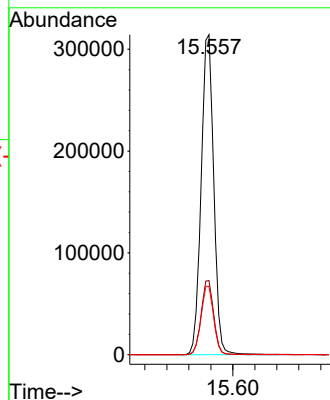
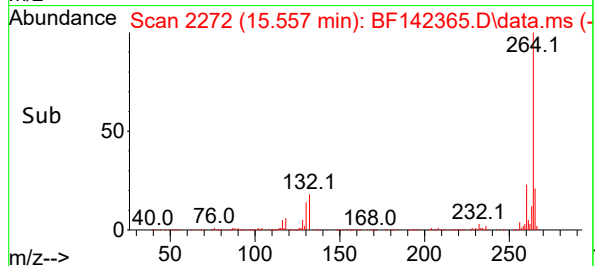
Tgt Ion:264 Resp: 499846

Ion Ratio Lower Upper

264 100

260 23.1 18.6 27.8

265 21.4 17.5 26.3



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142365.D
Acq On : 14 May 2025 14:51
Operator : RC/JU
Sample : Q1982-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-3

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-BF050525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142365.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.116	487	497	504	rBV	270349	424336	7.40%	1.210%
2	5.510	557	564	569	rBV	2679330	3649759	63.66%	10.404%
3	6.516	728	735	740	rBV	2692784	3781869	65.96%	10.780%
4	6.898	795	800	805	rBV	900071	1076225	18.77%	3.068%
5	7.457	889	895	900	rBV	1815971	2397865	41.82%	6.835%
6	7.710	934	938	945	rVB	64195	76836	1.34%	0.219%
7	8.181	1012	1018	1023	rBV	1157179	1442314	25.16%	4.111%
8	9.257	1194	1201	1206	rBV	3622853	4604903	80.32%	13.126%
9	9.933	1311	1316	1322	rBV	1290822	1676933	29.25%	4.780%
10	10.651	1432	1438	1444	rBV	457687	572189	9.98%	1.631%
11	10.722	1444	1450	1460	rBV	2441566	3227381	56.29%	9.200%
12	10.957	1482	1490	1495	rBV	63674	81380	1.42%	0.232%
13	11.422	1564	1569	1574	rBV	1488617	1854817	32.35%	5.287%
14	11.951	1652	1659	1684	rBV	544270	926182	16.15%	2.640%
15	12.204	1697	1702	1710	rVB2	48268	67650	1.18%	0.193%
16	12.733	1787	1792	1804	rBV	77799	143614	2.50%	0.409%
17	13.010	1833	1839	1845	rBV	4177605	5733397	100.00%	16.343%
18	13.904	1986	1991	2008	rBV	162280	327627	5.71%	0.934%
19	14.063	2012	2018	2026	rVB	1314787	1686586	29.42%	4.808%
20	15.551	2265	2271	2286	rBV	829037	1330151	23.20%	3.792%

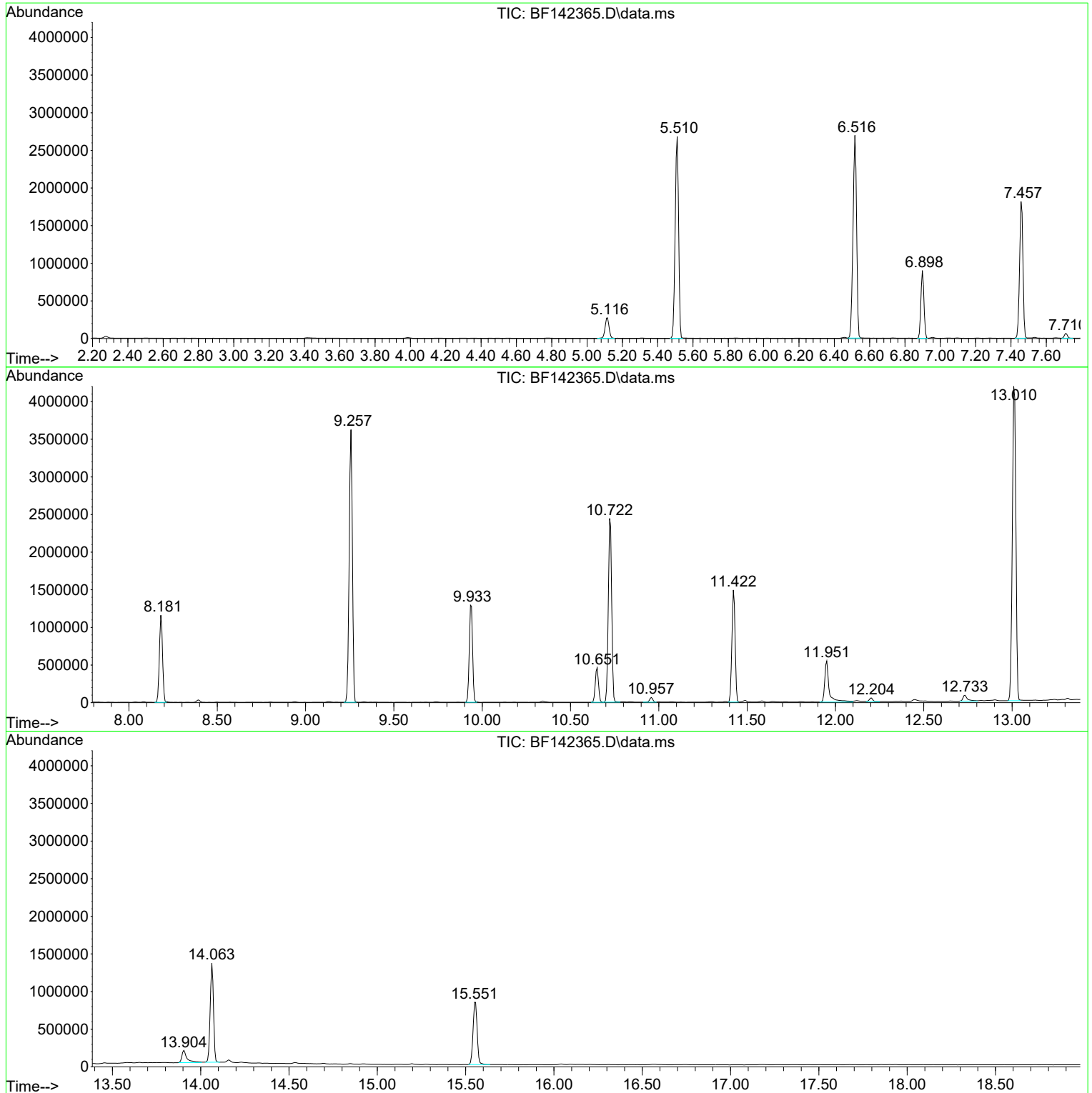
Sum of corrected areas: 35082014

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142365.D
Acq On : 14 May 2025 14:51
Operator : RC/JU
Sample : Q1982-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-3

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



A
B
C
D
E
F
G
H
I
J
K

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142365.D
Acq On : 14 May 2025 14:51
Operator : RC/JU
Sample : Q1982-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-3

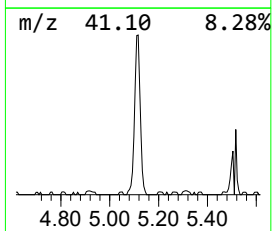
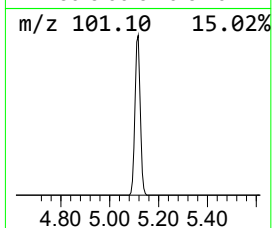
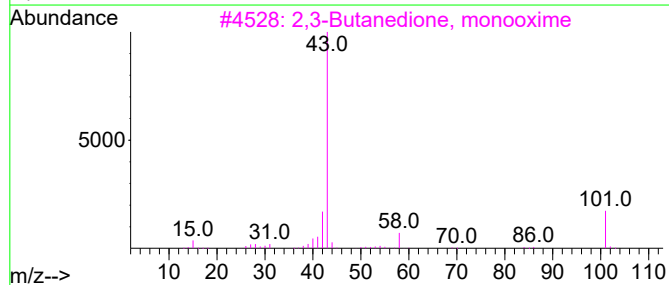
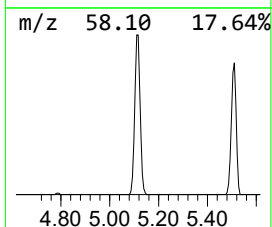
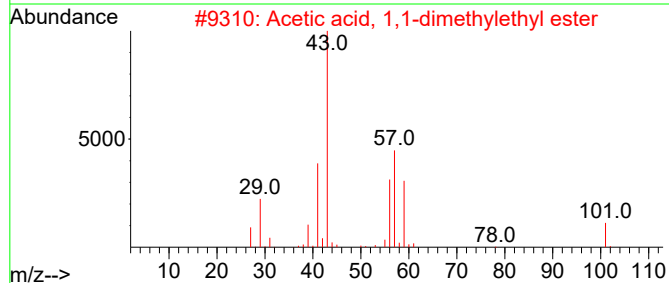
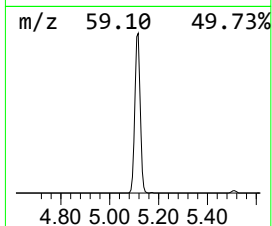
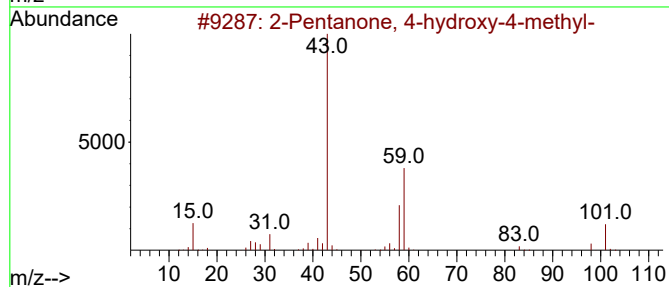
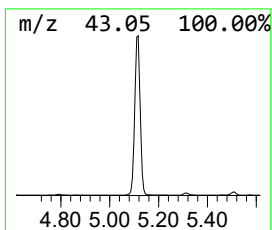
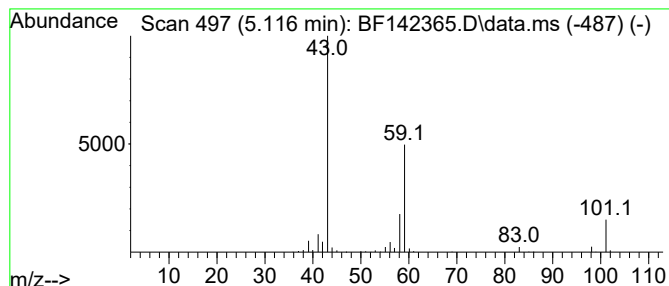
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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	7.89 ng	424336	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, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	28		
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	27		
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12		
5	Acetone	58	C3H6O	000067-64-1	9		



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142365.D
Acq On : 14 May 2025 14:51
Operator : RC/JU
Sample : Q1982-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-3

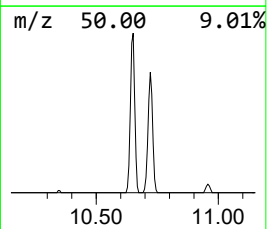
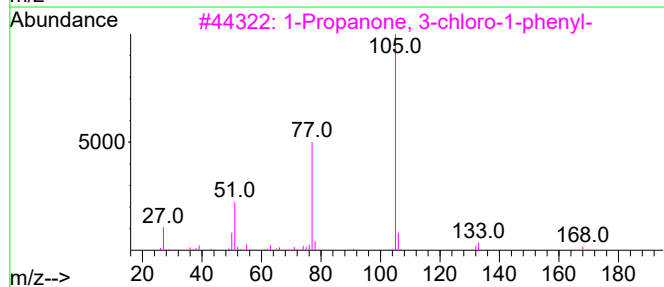
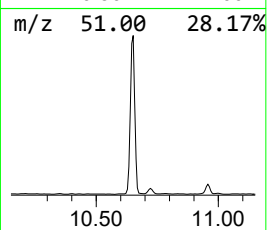
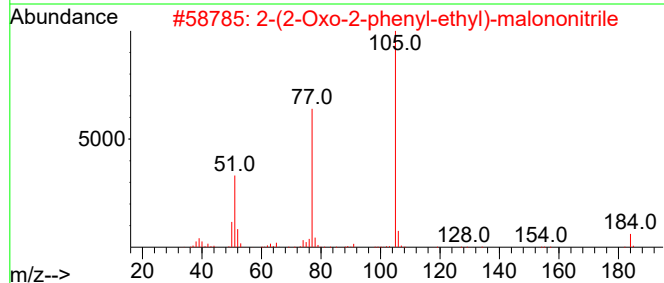
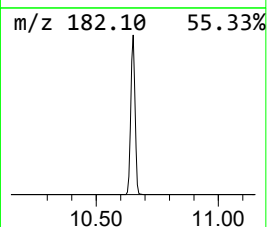
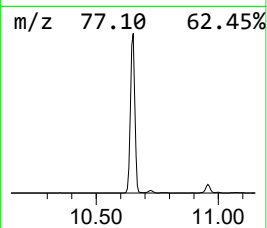
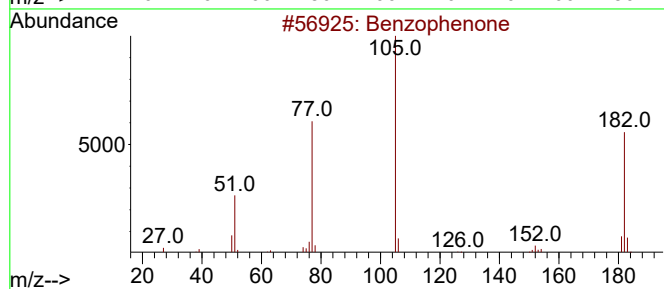
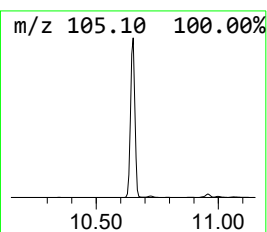
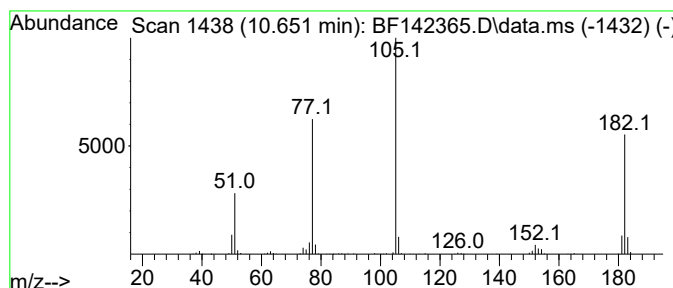
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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	6.82 ng	572189	Acenaphthene-d10	9.939

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			2-(2-Oxo-2-phenyl-ethyl)-malonon...	184	C11H8N2O	1000296-76-9	58
3			1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	50
4			1-Propanone, 2-bromo-1-phenyl-	212	C9H9BrO	002114-00-3	50
5			N-(1-Cyanovinyl)benzamide	172	C10H8N2O	1000186-19-1	50



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142365.D
Acq On : 14 May 2025 14:51
Operator : RC/JU
Sample : Q1982-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

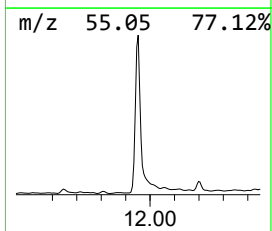
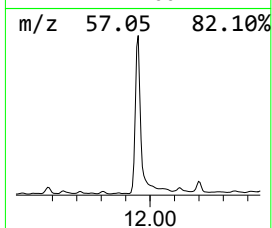
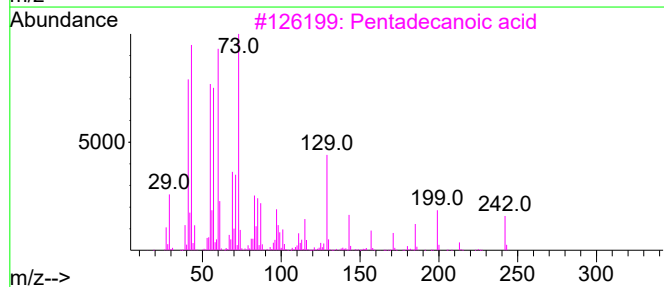
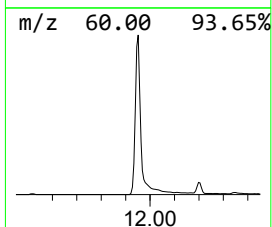
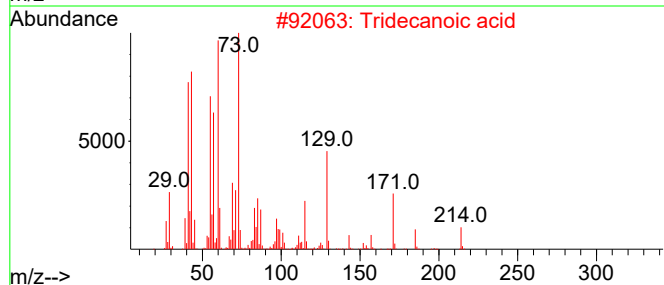
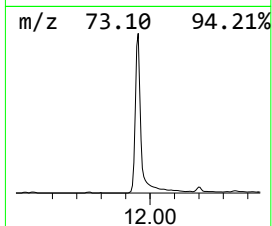
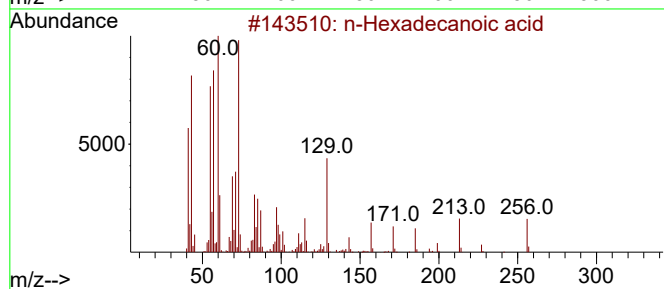
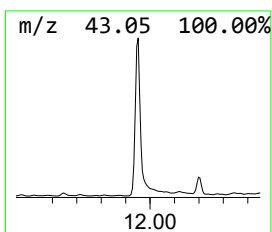
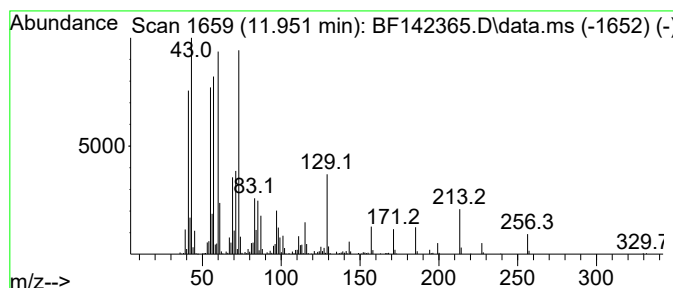
Instrument :
BNA_F
ClientSampleId :
TP-3

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.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	9.99 ng	926182	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	91
4	Octadecanoic acid	284	C18H36O2	000057-11-4	87
5	n-Decanoic acid	172	C10H20O2	000334-48-5	83



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142365.D
Acq On : 14 May 2025 14:51
Operator : RC/JU
Sample : Q1982-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-3

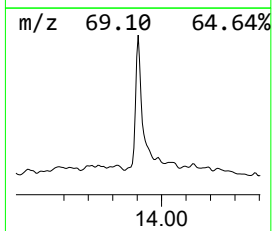
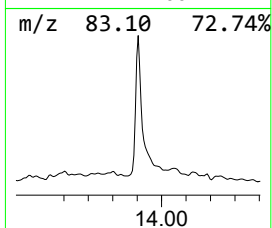
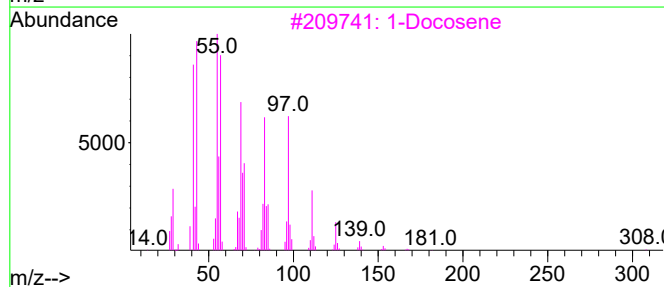
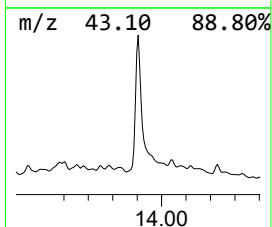
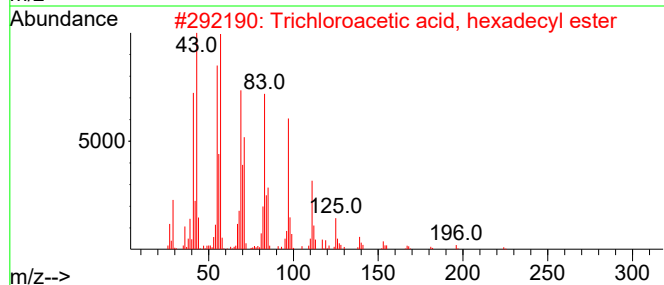
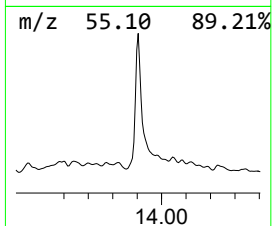
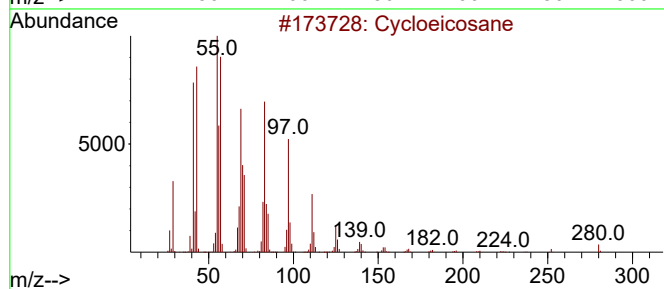
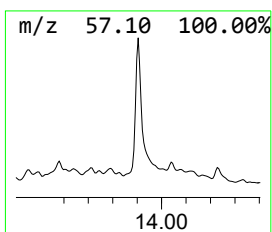
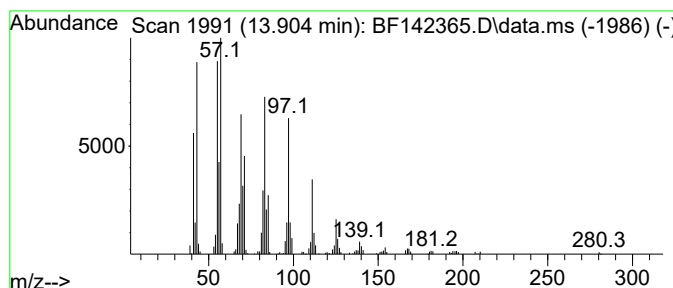
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Cycloeicosane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	3.89 ng	327627	Chrysene-d12	14.063

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cycloeicosane	280	C20H40	000296-56-0	97
2			Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94
3			1-Docosene	308	C22H44	001599-67-3	94
4			Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	94
5			Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	94



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142365.D
Acq On : 14 May 2025 14:51
Operator : RC/JU
Sample : Q1982-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-3

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-...	5.116	7.9	ng	424336	1	6.898	1076230	20.0
Benzophenone	10.651	6.8	ng	572189	3	9.939	1676930	20.0
n-Hexadecanoic ...	11.951	10.0	ng	926182	4	11.422	1854820	20.0
Cycloeicosane	13.904	3.9	ng	327627	5	14.063	1686590	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
 Data File : BF142413.D
 Acq On : 16 May 2025 01:27
 Operator : RC/JU
 Sample : Q1982-04
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-4

Quant Time: May 16 03:12:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

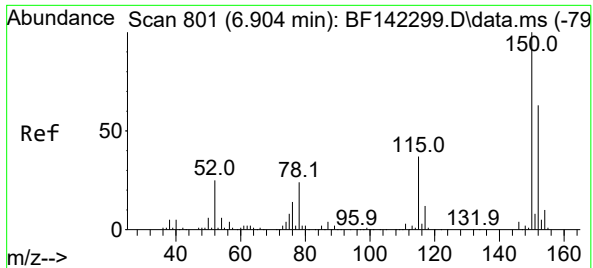
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	176019	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	648776	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	308965	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	449574	20.000	ng	0.00
76) Chrysene-d12	14.068	240	299172	20.000	ng	0.00
86) Perylene-d12	15.557	264	224973	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	823786	79.893	ng	0.00
7) Phenol-d6	6.522	99	1009749	79.621	ng	0.00
23) Nitrobenzene-d5	7.463	82	604051	56.783	ng	0.00
42) 2,4,6-Tribromophenol	10.727	330	237436	79.596	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	1218248	56.222	ng	0.00
79) Terphenyl-d14	13.010	244	1012854	50.109	ng	0.00
Target Compounds						
58) Fluorene	10.486	166	54944	2.753	ng	Qvalue 96
71) Phenanthrene	11.451	178	142883	6.063	ng	98
72) Anthracene	11.498	178	58980	2.436	ng	99
75) Fluoranthene	12.639	202	315974	13.413	ng	99
78) Pyrene	12.869	202	317180	11.911	ng	99
81) Benzo(a)anthracene	14.057	228	145763	7.523	ng	94
83) Chrysene	14.092	228	120799	6.697	ng	97
84) Bis(2-ethylhexyl)phtha...	14.045	149	5250	4.710	ng	# 78
87) Indeno(1,2,3-cd)pyrene	17.062	276	45586m	2.913	ng	
88) Benzo(b)fluoranthene	15.121	252	135396m	9.937	ng	
89) Benzo(k)fluoranthene	15.139	252	36286m	2.910	ng	
90) Benzo(a)pyrene	15.492	252	90398	7.404	ng	# 96
92) Benzo(g,h,i)perylene	17.515	276	47644	3.713	ng	96

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

Instrument :
BNA_F
ClientSampleId :
TP-4

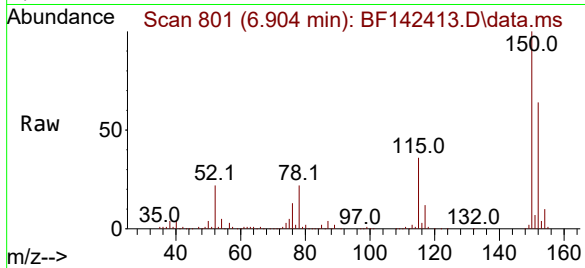
- A
- B
- C
- D
- E
- F
- G
- H
- I
- J
- K



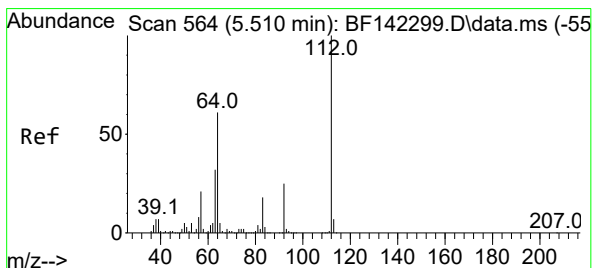
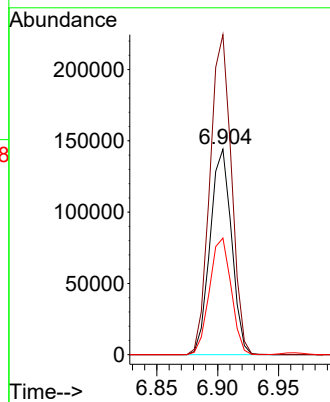
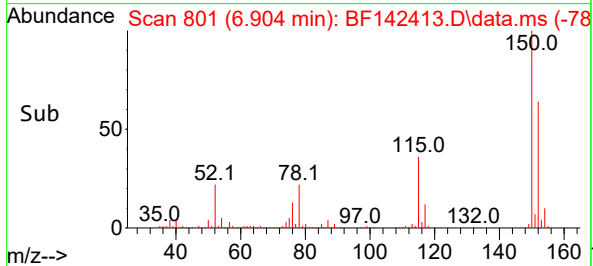


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.904 min Scan# 801
Delta R.T. 0.000 min
Lab File: BF142413.D
Acq: 16 May 2025 01:27

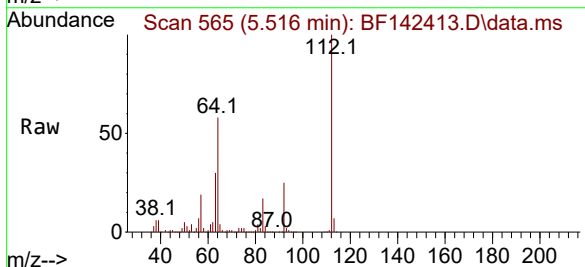
Instrument :
BNA_F
ClientSampleId :
TP-4



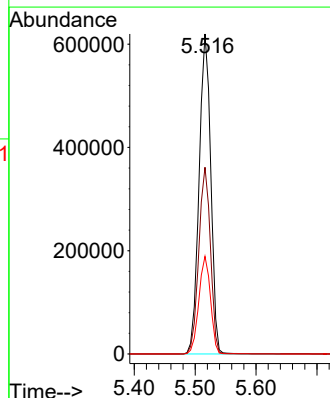
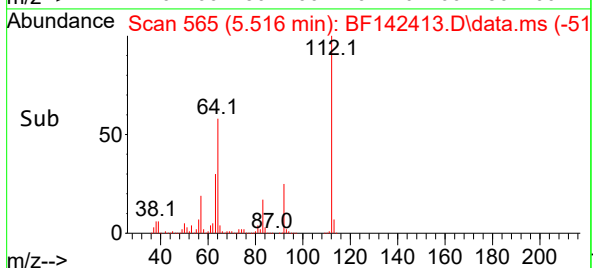
Tgt Ion:152 Resp: 176019
Ion Ratio Lower Upper
152 100
150 155.8 126.6 190.0
115 56.8 47.3 70.9

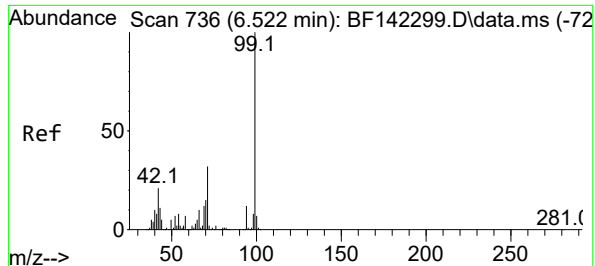


#5
2-Fluorophenol
Concen: 79.893 ng
RT: 5.516 min Scan# 565
Delta R.T. 0.006 min
Lab File: BF142413.D
Acq: 16 May 2025 01:27



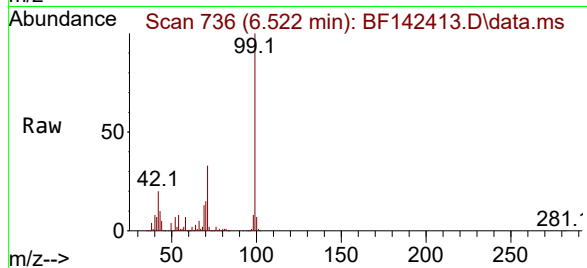
Tgt Ion:112 Resp: 823786
Ion Ratio Lower Upper
112 100
64 58.3 48.9 73.3
63 30.5 25.6 38.4



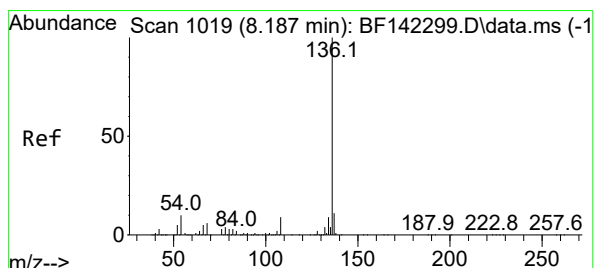
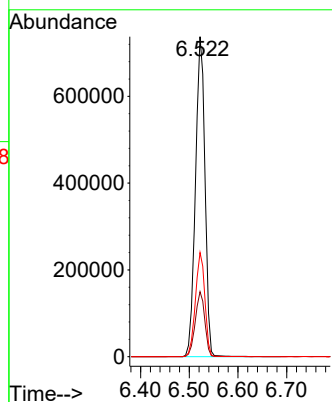
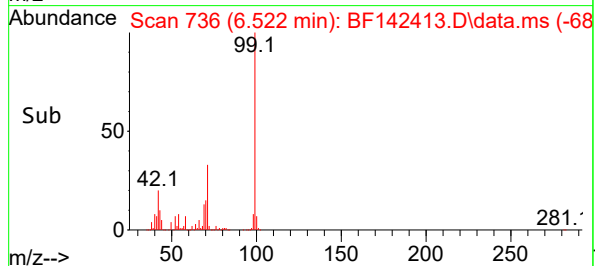


#7
Phenol-d6
Concen: 79.621 ng
RT: 6.522 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF142413.D
Acq: 16 May 2025 01:27

Instrument :
BNA_F
ClientSampleId :
TP-4

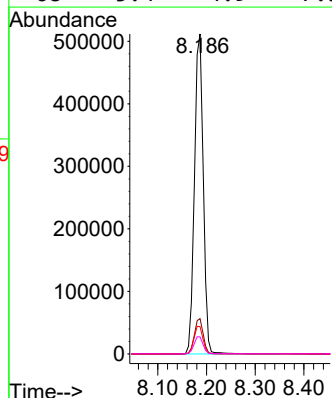
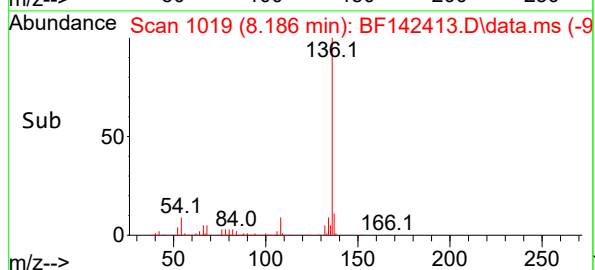
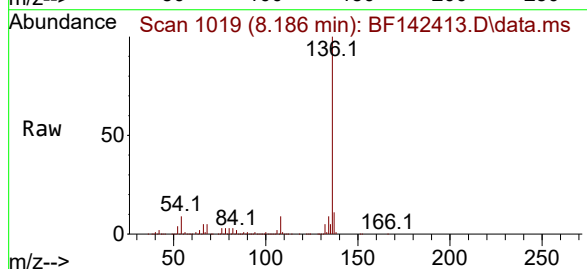


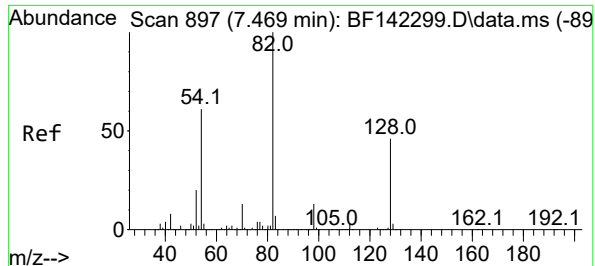
Tgt Ion: 99 Resp: 1009749
Ion Ratio Lower Upper
99 100
42 20.3 17.0 25.4
71 32.6 25.8 38.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.186 min Scan# 1019
Delta R.T. -0.000 min
Lab File: BF142413.D
Acq: 16 May 2025 01:27

Tgt Ion: 136 Resp: 648776
Ion Ratio Lower Upper
136 100
137 11.0 8.9 13.3
54 8.6 7.7 11.5
68 5.4 4.9 7.3





#23

Nitrobenzene-d5

Concen: 56.783 ng

RT: 7.463 min Scan# 89

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

Instrument :

BNA_F

ClientSampleId :

TP-4

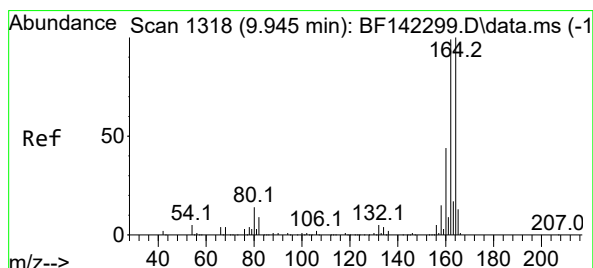
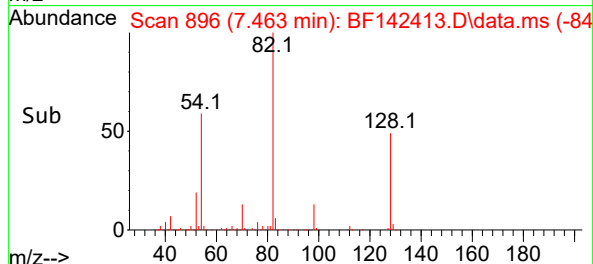
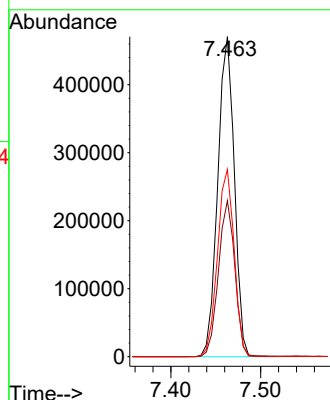
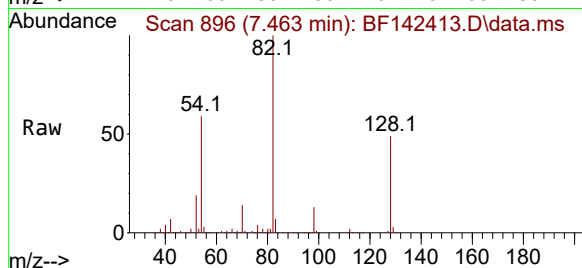
Tgt Ion: 82 Resp: 604051

Ion Ratio Lower Upper

82 100

128 48.7 37.0 55.6

54 58.5 48.6 73.0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.939 min Scan# 1317

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

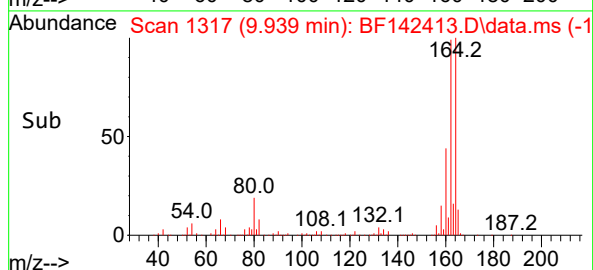
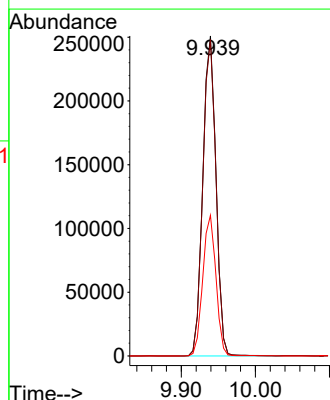
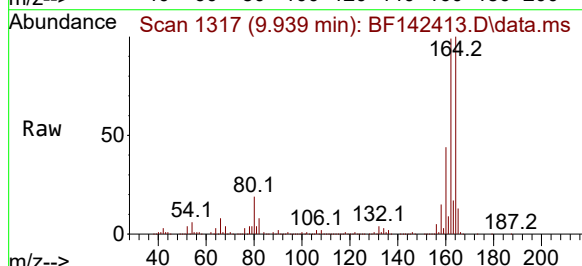
Tgt Ion: 164 Resp: 308965

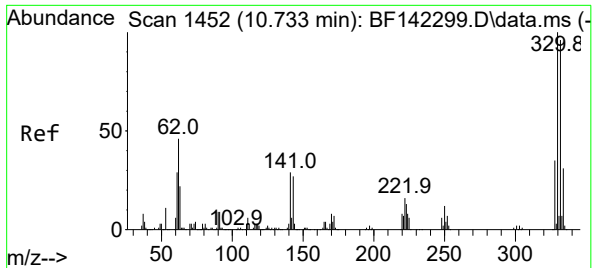
Ion Ratio Lower Upper

164 100

162 98.8 79.2 118.8

160 43.9 35.3 52.9





#42

2,4,6-Tribromophenol

Concen: 79.596 ng

RT: 10.727 min Scan# 1451

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

Instrument :

BNA_F

ClientSampleId :

TP-4

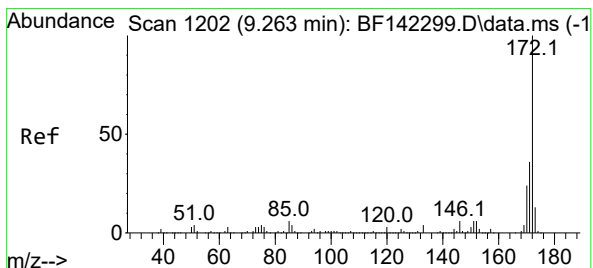
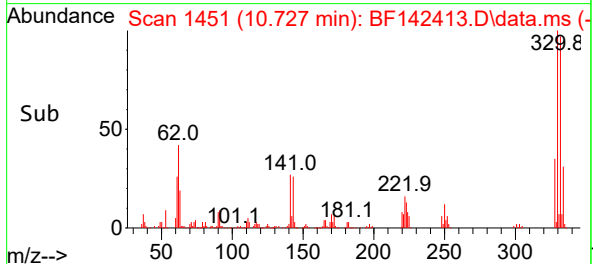
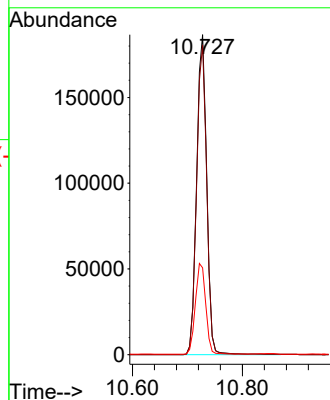
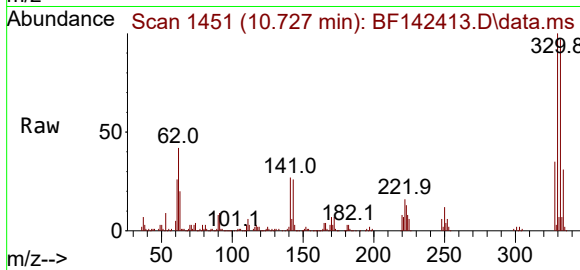
Tgt Ion:330 Resp: 237436

Ion Ratio Lower Upper

330 100

332 96.7 76.8 115.2

141 29.0 24.9 37.3



#45

2-Fluorobiphenyl

Concen: 56.222 ng

RT: 9.257 min Scan# 1201

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

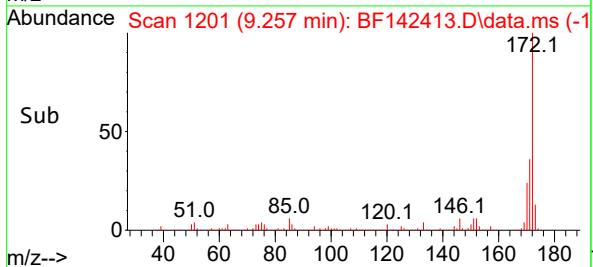
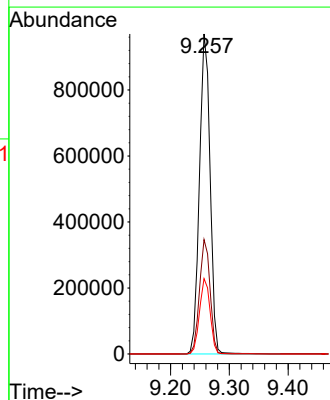
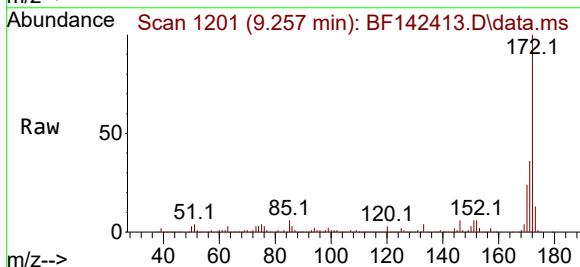
Tgt Ion:172 Resp: 1218248

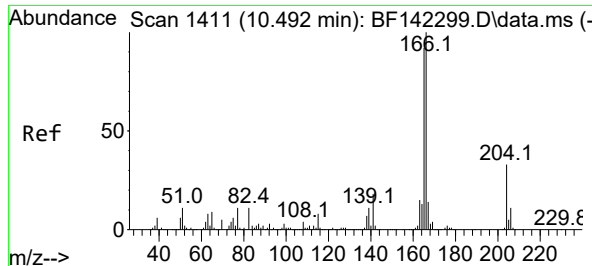
Ion Ratio Lower Upper

172 100

171 35.7 28.6 42.8

170 23.6 19.0 28.4





#58

Fluorene

Concen: 2.753 ng

RT: 10.486 min Scan# 1411

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

Instrument :

BNA_F

ClientSampleId :

TP-4

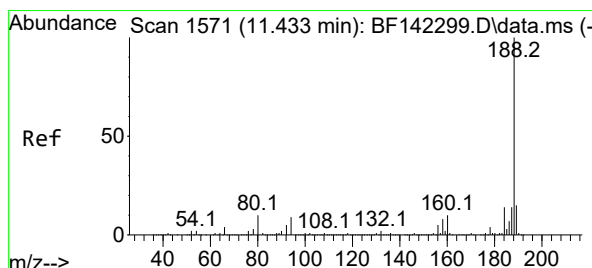
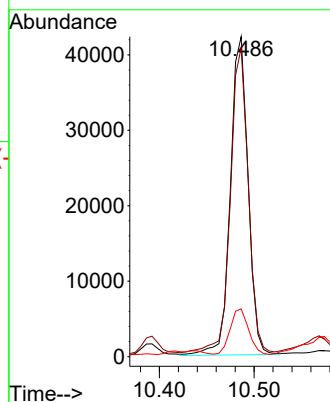
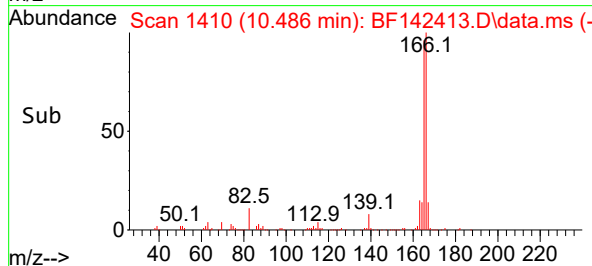
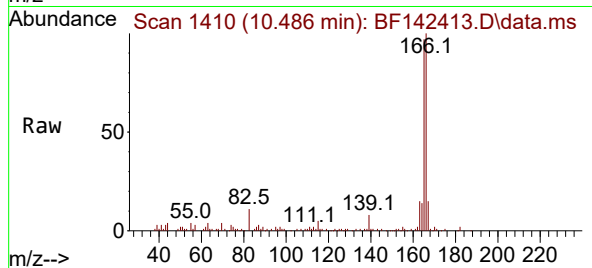
Tgt Ion:166 Resp: 54944

Ion Ratio Lower Upper

166 100

165 96.5 74.0 111.0

167 15.0 10.9 16.3



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.427 min Scan# 1570

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

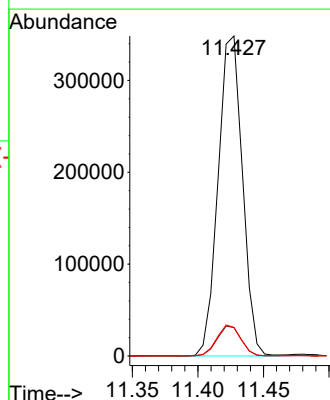
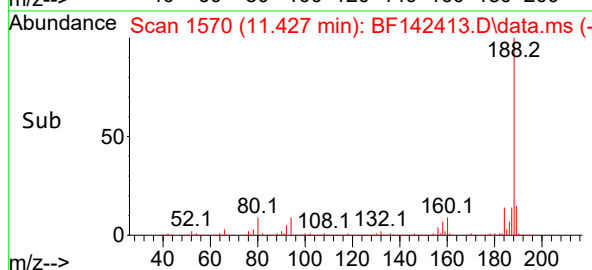
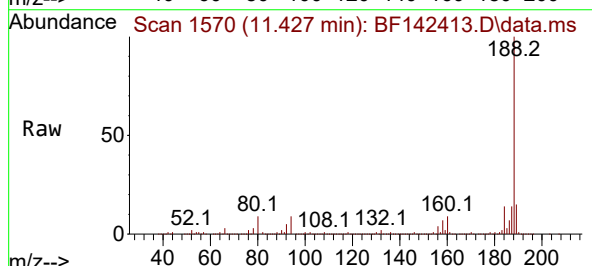
Tgt Ion:188 Resp: 449574

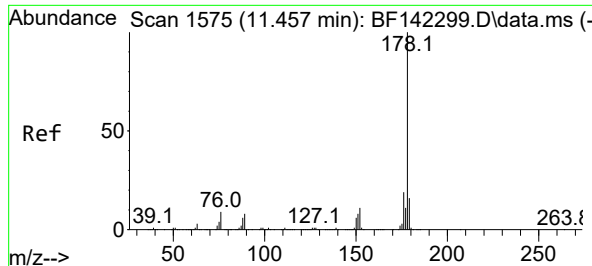
Ion Ratio Lower Upper

188 100

94 8.9 7.5 11.3

80 8.9 7.9 11.9





#71

Phenanthrene

Concen: 6.063 ng

RT: 11.451 min Scan# 1574

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

Instrument :

BNA_F

ClientSampleId :

TP-4

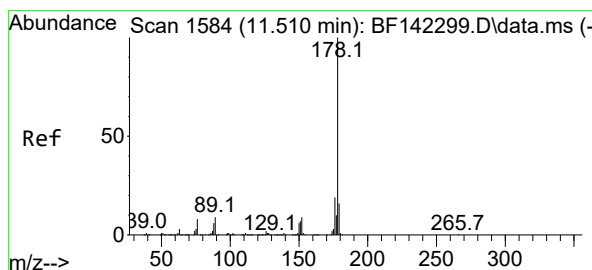
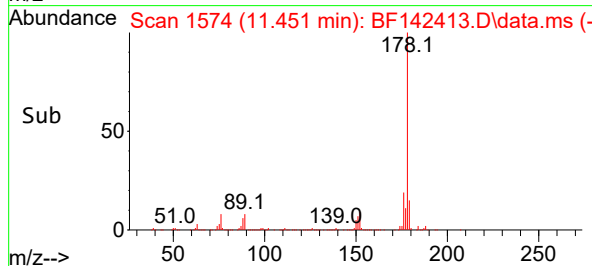
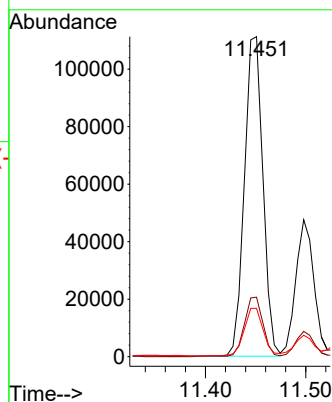
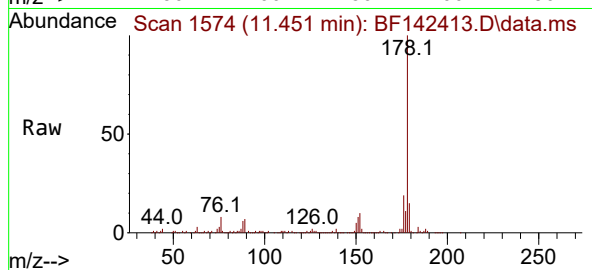
Tgt Ion:178 Resp: 142883

Ion Ratio Lower Upper

178 100

176 18.6 15.5 23.3

179 15.1 12.6 18.8



#72

Anthracene

Concen: 2.436 ng

RT: 11.498 min Scan# 1582

Delta R.T. -0.012 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

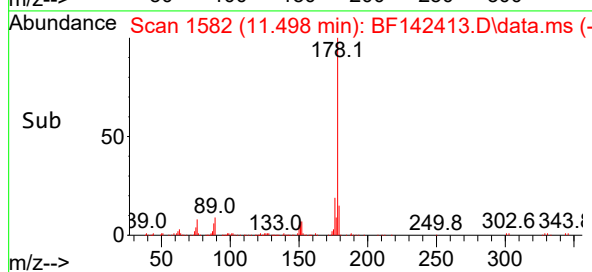
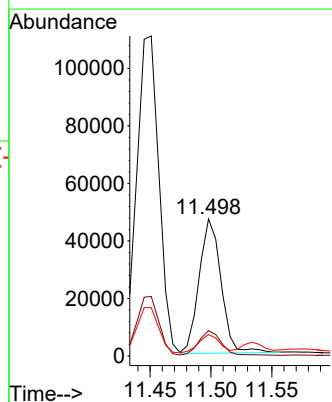
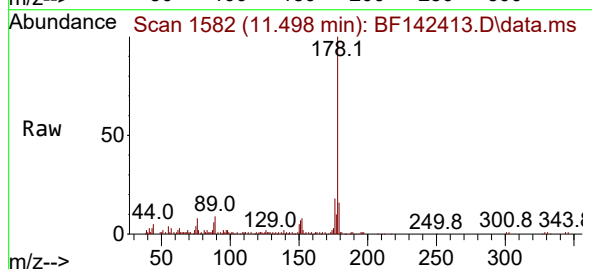
Tgt Ion:178 Resp: 58980

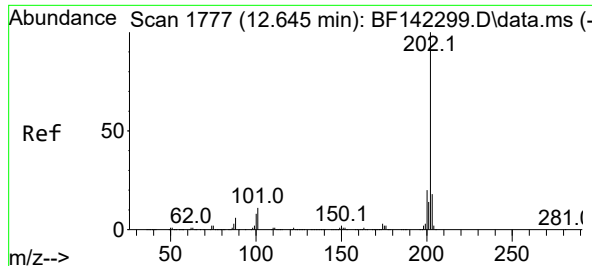
Ion Ratio Lower Upper

178 100

176 18.5 15.3 22.9

179 15.6 12.6 18.8





#75

Fluoranthene

Concen: 13.413 ng

RT: 12.639 min Scan# 1776

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

Instrument :

BNA_F

ClientSampleId :

TP-4

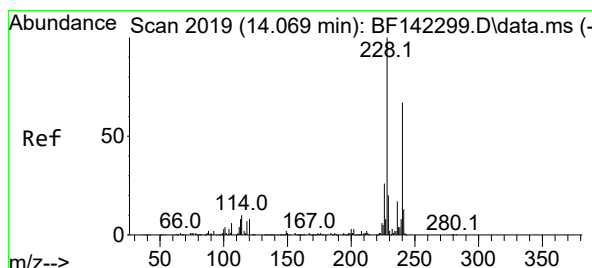
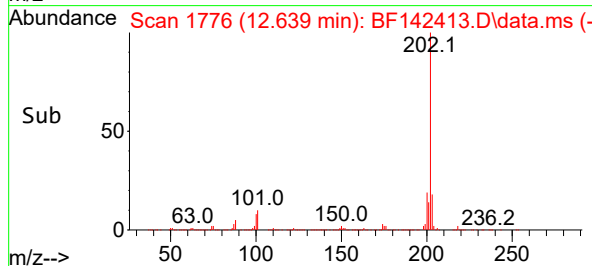
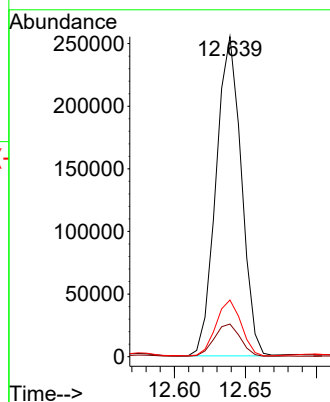
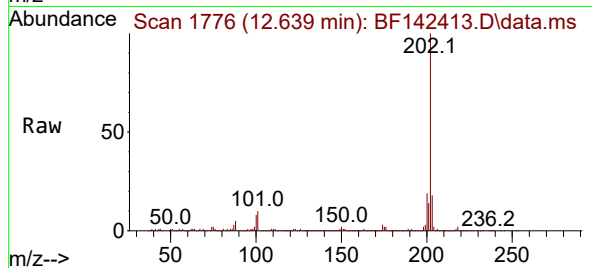
Tgt Ion:202 Resp: 315974

Ion Ratio Lower Upper

202 100

101 10.2 0.0 31.4

203 17.7 0.0 37.9



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.068 min Scan# 2019

Delta R.T. -0.000 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

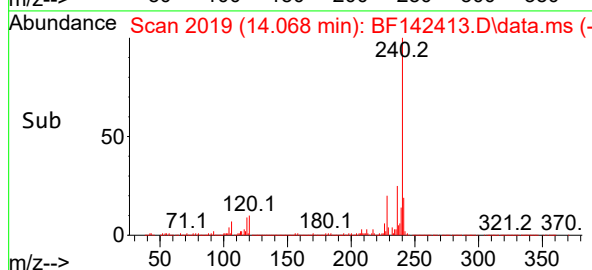
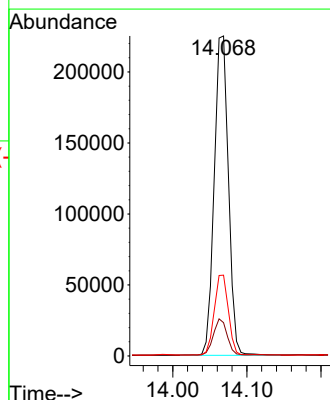
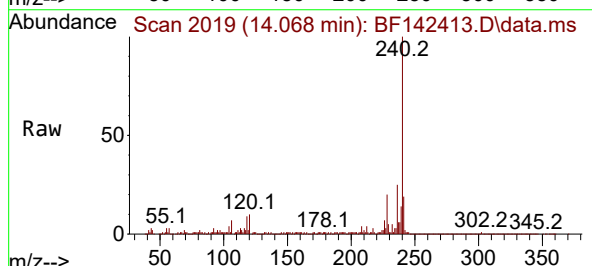
Tgt Ion:240 Resp: 299172

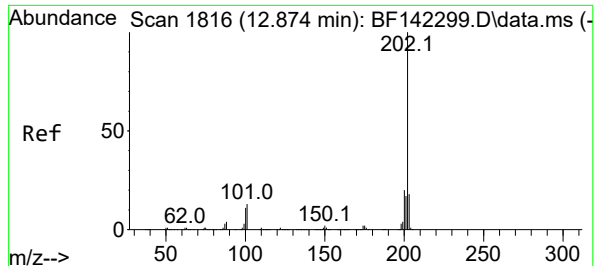
Ion Ratio Lower Upper

240 100

120 10.4 9.7 14.5

236 25.3 20.0 30.0





#78

Pyrene

Concen: 11.911 ng

RT: 12.869 min Scan# 1815

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

Instrument :

BNA_F

ClientSampleId :

TP-4

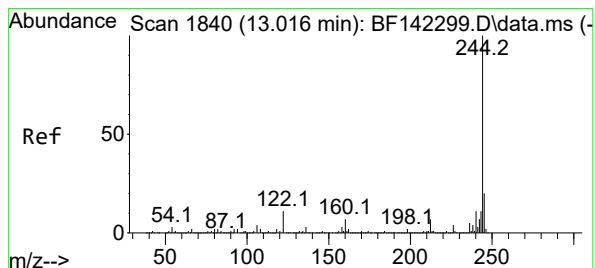
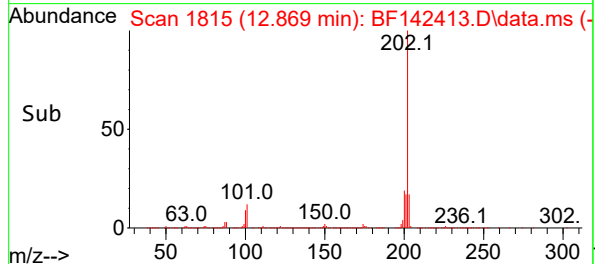
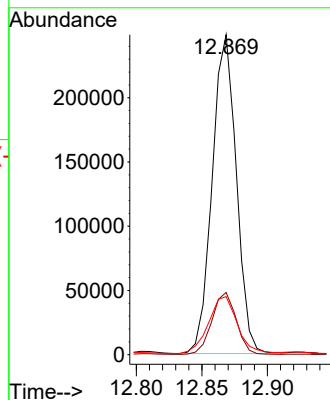
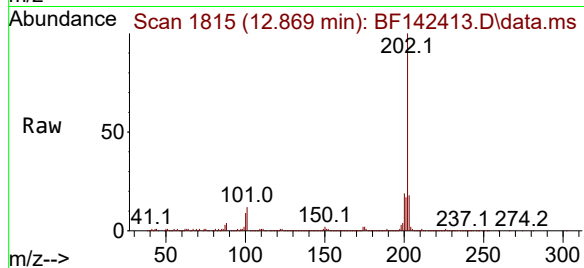
Tgt Ion:202 Resp: 317180

Ion Ratio Lower Upper

202 100

200 19.4 16.2 24.4

203 18.1 14.3 21.5



#79

Terphenyl-d14

Concen: 50.109 ng

RT: 13.010 min Scan# 1839

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

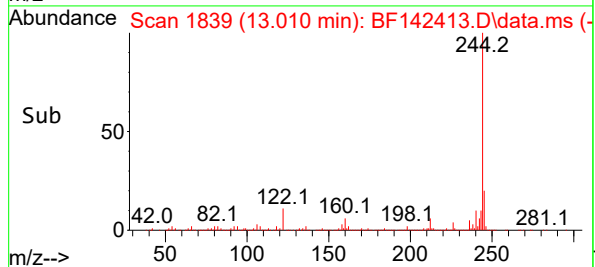
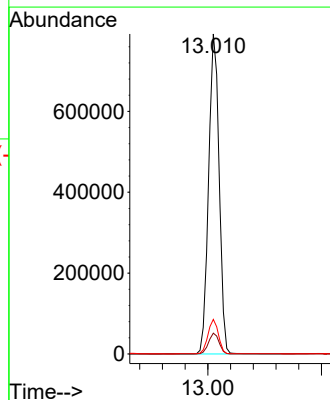
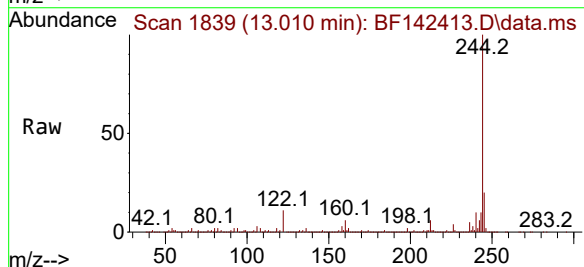
Tgt Ion:244 Resp: 1012854

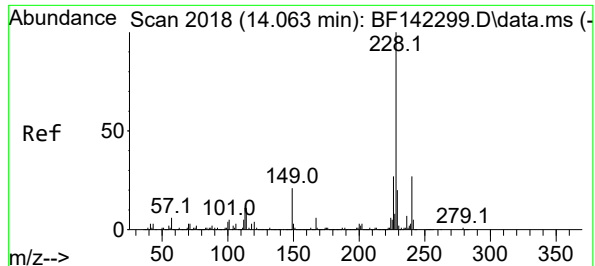
Ion Ratio Lower Upper

244 100

212 6.5 5.4 8.2

122 10.8 9.0 13.4





#81

Benzo(a)anthracene

Concen: 7.523 ng

RT: 14.057 min Scan# 2018

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

Instrument :

BNA_F

ClientSampleId :

TP-4

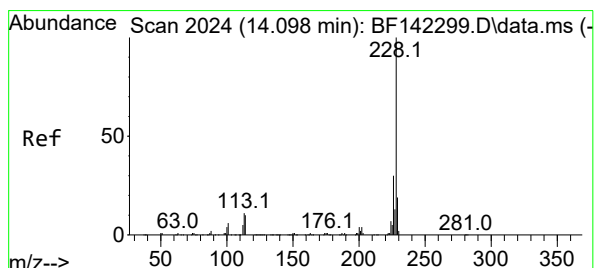
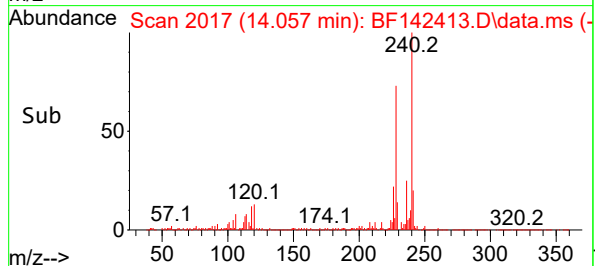
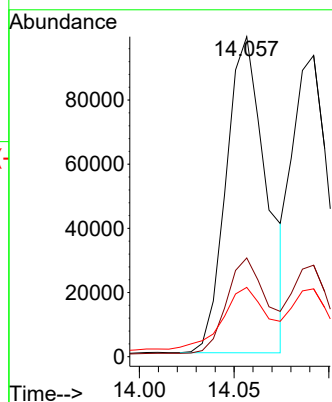
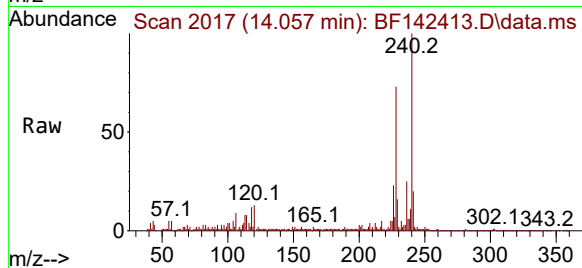
Tgt Ion:228 Resp: 145763

Ion Ratio Lower Upper

228 100

226 30.8 21.5 32.3

229 21.7 15.9 23.9



#83

Chrysene

Concen: 6.697 ng

RT: 14.092 min Scan# 2023

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

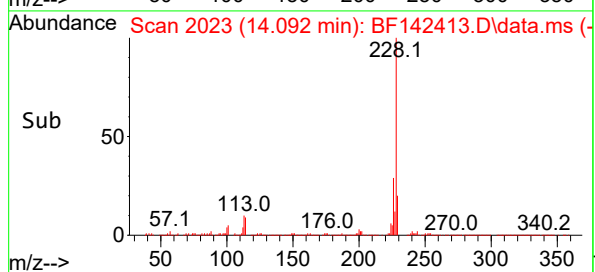
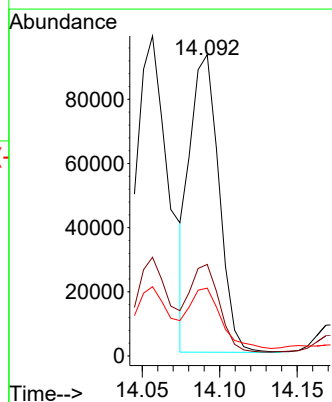
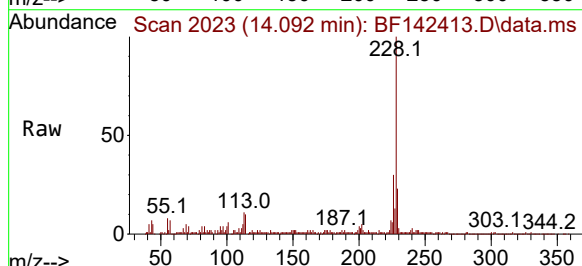
Tgt Ion:228 Resp: 120799

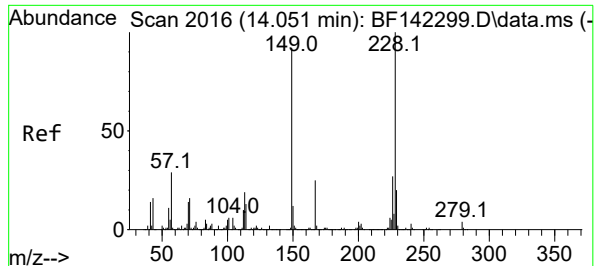
Ion Ratio Lower Upper

228 100

226 30.4 23.9 35.9

229 22.5 15.4 23.2





#84

Bis(2-ethylhexyl)phthalate

Concen: 4.710 ng

RT: 14.045 min Scan# 2016

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

Instrument :

BNA_F

ClientSampleId :

TP-4

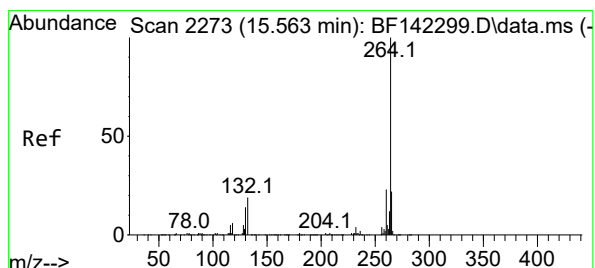
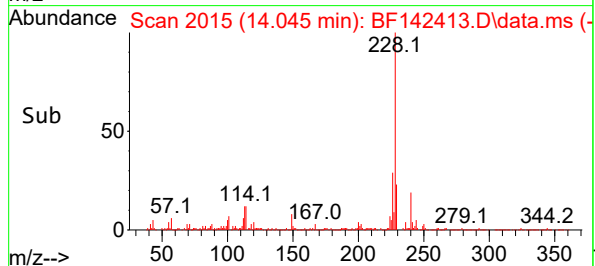
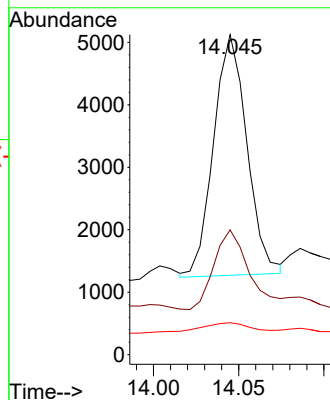
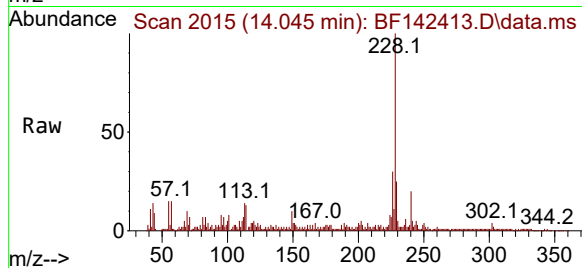
Tgt Ion:149 Resp: 5250

Ion Ratio Lower Upper

149 100

167 39.0 22.0 33.0#

279 10.0 3.0 4.6#



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.557 min Scan# 2272

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

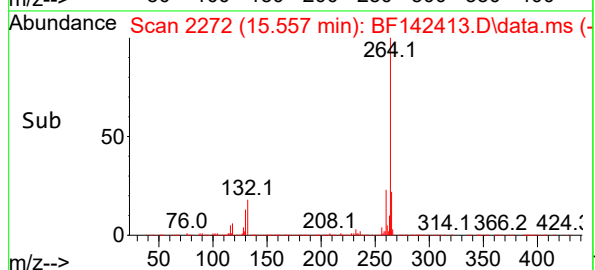
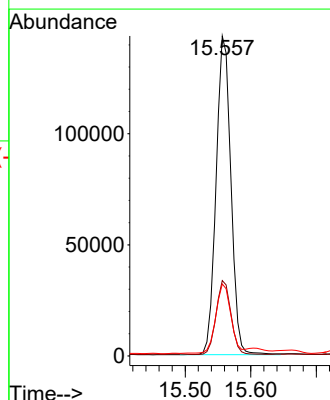
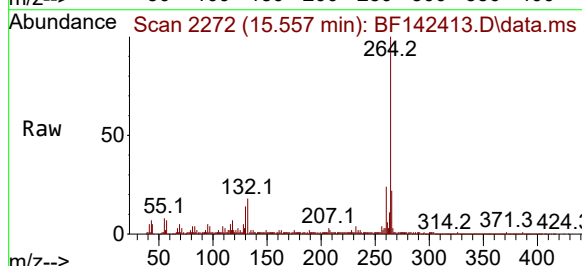
Tgt Ion:264 Resp: 224973

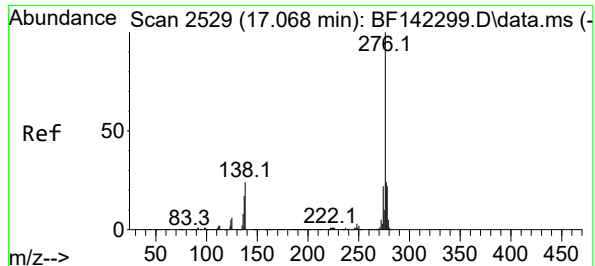
Ion Ratio Lower Upper

264 100

260 23.5 18.6 27.8

265 22.5 17.5 26.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.913 ng m

RT: 17.062 min Scan# 2198

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

Instrument :

BNA_F

ClientSampleId :

TP-4

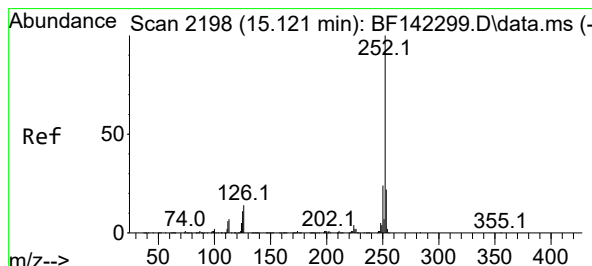
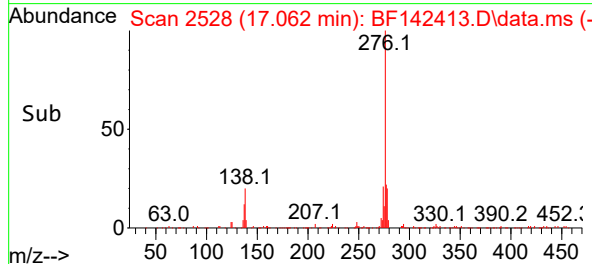
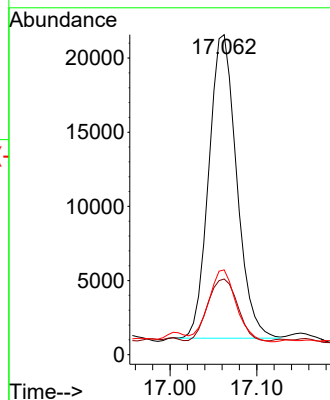
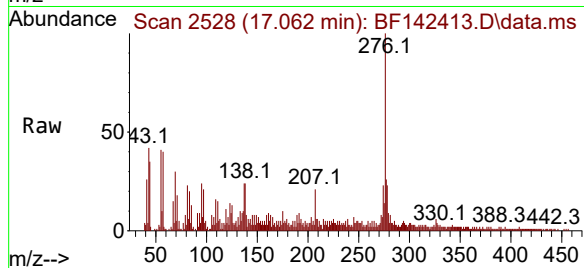
Tgt Ion:276 Resp: 45586

Ion Ratio Lower Upper

276 100

138 5.4 22.0 33.0#

277 4.9 20.1 30.1#



#88

Benzo(b)fluoranthene

Concen: 9.937 ng m

RT: 15.121 min Scan# 2198

Delta R.T. -0.000 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

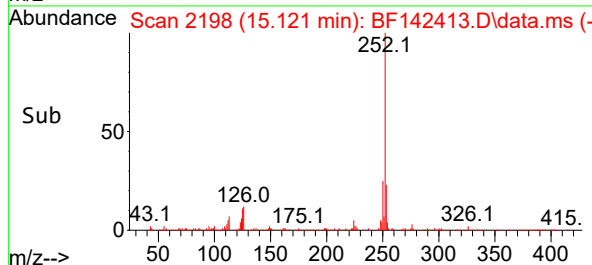
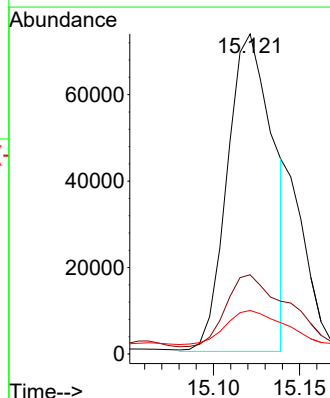
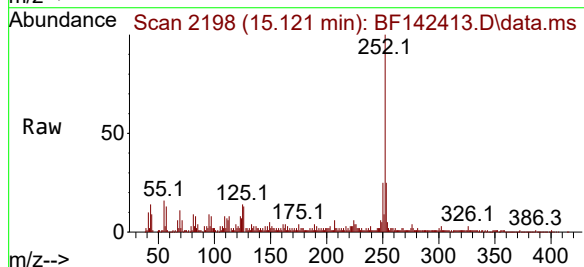
Tgt Ion:252 Resp: 135396

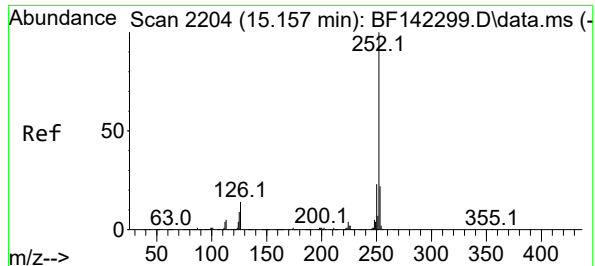
Ion Ratio Lower Upper

252 100

253 24.8 17.7 26.5

125 13.6 8.7 13.1#





#89

Benzo(k)fluoranthene

Concen: 2.910 ng m

RT: 15.139 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

Instrument :

BNA_F

ClientSampleId :

TP-4

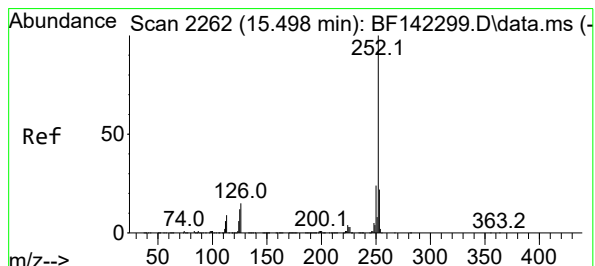
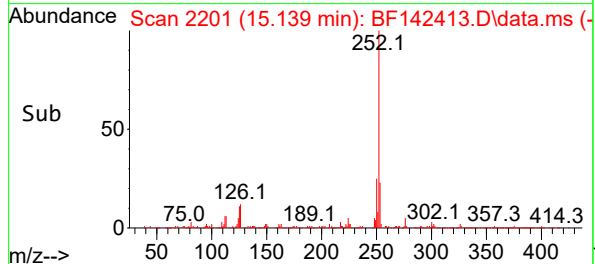
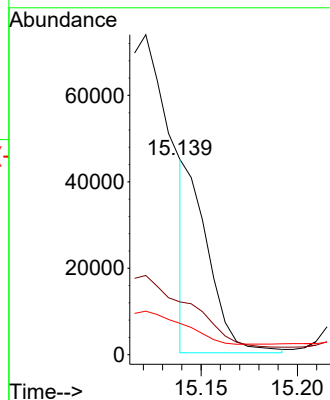
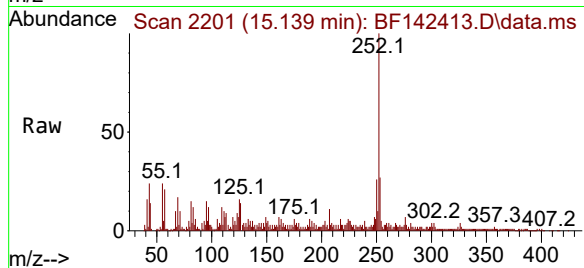
Tgt Ion:252 Resp: 36286

Ion Ratio Lower Upper

252 100

253 27.0 17.6 26.4#

125 16.1 8.1 12.1#



#90

Benzo(a)pyrene

Concen: 7.404 ng

RT: 15.492 min Scan# 2261

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

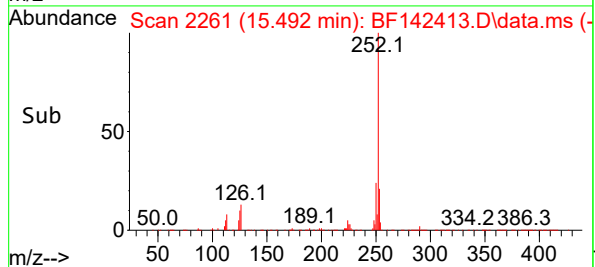
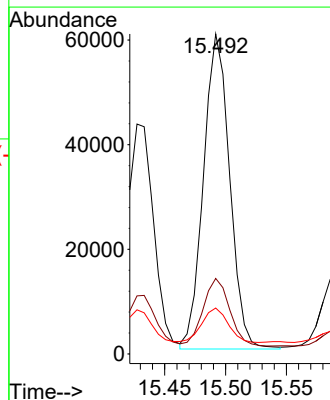
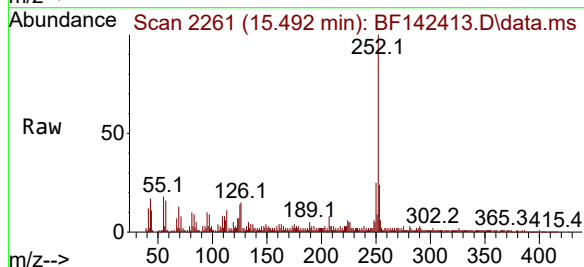
Tgt Ion:252 Resp: 90398

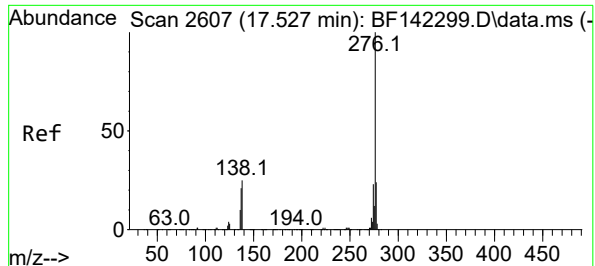
Ion Ratio Lower Upper

252 100

253 23.6 17.8 26.6

125 14.3 9.4 14.0#





#92

Benzo(g,h,i)perylene

Concen: 3.713 ng

RT: 17.515 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF142413.D

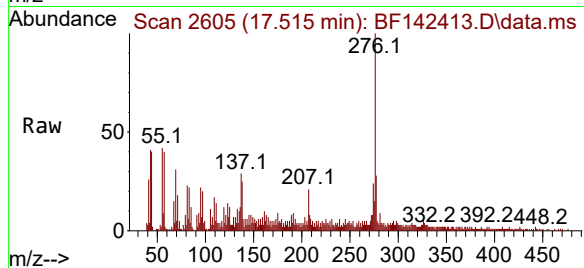
Acq: 16 May 2025 01:27

Instrument :

BNA_F

ClientSampleId :

TP-4



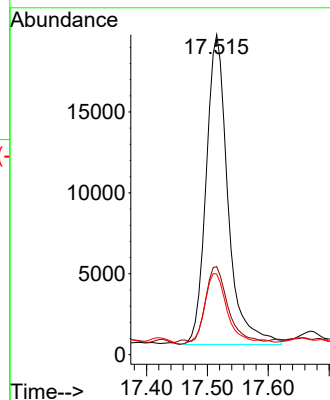
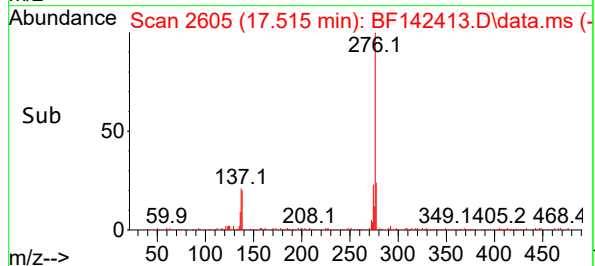
Tgt Ion:276 Resp: 47644

Ion Ratio Lower Upper

276 100

277 27.5 19.0 28.6

138 25.2 19.8 29.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142413.D
Acq On : 16 May 2025 01:27
Operator : RC/JU
Sample : Q1982-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-4

A
B
C
D
E
F
G
H
I
J
K

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142413.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.116	489	497	508	rBV	217149	337308	9.84%	1.185%
2	5.516	559	565	570	rBV	2131006	2829159	82.49%	9.940%
3	6.522	730	736	754	rVB	2123199	2928263	85.38%	10.288%
4	6.904	796	801	806	rVB	810517	1003875	29.27%	3.527%
5	7.463	885	896	901	rBV	1455304	1888266	55.06%	6.634%
6	7.710	935	938	944	rVB	42381	55940	1.63%	0.197%
7	8.186	1012	1019	1026	rBV	1013093	1336891	38.98%	4.697%
8	9.257	1196	1201	1206	rBV	2762873	3429600	100.00%	12.050%
9	9.339	1210	1215	1222	rBV2	36321	59580	1.74%	0.209%
10	9.592	1255	1258	1261	rVV	35088	49813	1.45%	0.175%
11	9.651	1265	1268	1275	rVV4	32266	57317	1.67%	0.201%
12	9.710	1275	1278	1288	rVB2	23566	50005	1.46%	0.176%
13	9.798	1289	1293	1298	rBV	52798	67267	1.96%	0.236%
14	9.863	1300	1304	1310	rVV2	24982	35176	1.03%	0.124%
15	9.939	1310	1317	1321	rVV	1039091	1340078	39.07%	4.708%
16	9.969	1321	1322	1330	rVB	92299	86340	2.52%	0.303%
17	10.139	1346	1351	1355	rVB	71098	91929	2.68%	0.323%
18	10.486	1405	1410	1416	rVB	131749	177207	5.17%	0.623%
19	10.651	1433	1438	1444	rVB2	186981	254464	7.42%	0.894%
20	10.727	1445	1451	1456	rBV	1295797	1735132	50.59%	6.096%
21	10.845	1466	1471	1478	rVB2	46698	81348	2.37%	0.286%
22	11.027	1498	1502	1505	rBV2	29156	43781	1.28%	0.154%
23	11.286	1541	1546	1548	rBV2	25546	40621	1.18%	0.143%
24	11.322	1548	1552	1558	rVB2	52893	77935	2.27%	0.274%
25	11.427	1564	1570	1578	rBV2	842363	1431907	41.75%	5.031%
26	11.498	1578	1582	1586	rVV	98314	120230	3.51%	0.422%
27	11.657	1605	1609	1615	rBV5	17945	38422	1.12%	0.135%
28	11.951	1651	1659	1664	rBV3	331395	574087	16.74%	2.017%
29	12.039	1670	1674	1682	rVB	152896	259914	7.58%	0.913%
30	12.222	1698	1705	1715	rVB3	45818	111961	3.26%	0.393%
31	12.474	1745	1748	1751	rBV	49181	62221	1.81%	0.219%
32	12.510	1751	1754	1760	rVB2	46318	69631	2.03%	0.245%
33	12.639	1771	1776	1780	rBV	557595	690432	20.13%	2.426%
34	12.680	1780	1783	1788	rVV5	25163	37803	1.10%	0.133%
35	12.733	1788	1792	1798	rVV2	58277	83422	2.43%	0.293%
36	12.869	1809	1815	1821	rVB	522887	755258	22.02%	2.654%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142413.D
Acq On : 16 May 2025 01:27
Operator : RC/JU
Sample : Q1982-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-4

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	13.010	1834	1839	1846	rVB	2066979	2672418	77.92%	9.389%
38	13.086	1848	1852	1858	rVV3	55687	92186	2.69%	0.324%
39	13.192	1864	1870	1874	rVB	114783	186144	5.43%	0.654%
40	13.263	1879	1882	1885	rVV	90224	110461	3.22%	0.388%
41	13.298	1885	1888	1896	rVB2	77856	110278	3.22%	0.387%
42	13.392	1901	1904	1907	rBV	50997	56454	1.65%	0.198%
43	13.910	1988	1992	2002	rVB3	146426	264685	7.72%	0.930%
44	14.063	2013	2018	2030	rBV2	766593	1439227	41.96%	5.057%
45	15.121	2194	2198	2206	rVB	179501	387952	11.31%	1.363%
46	15.492	2258	2261	2267	rVB	124499	163263	4.76%	0.574%
47	15.557	2268	2272	2284	rVB	367774	686458	20.02%	2.412%

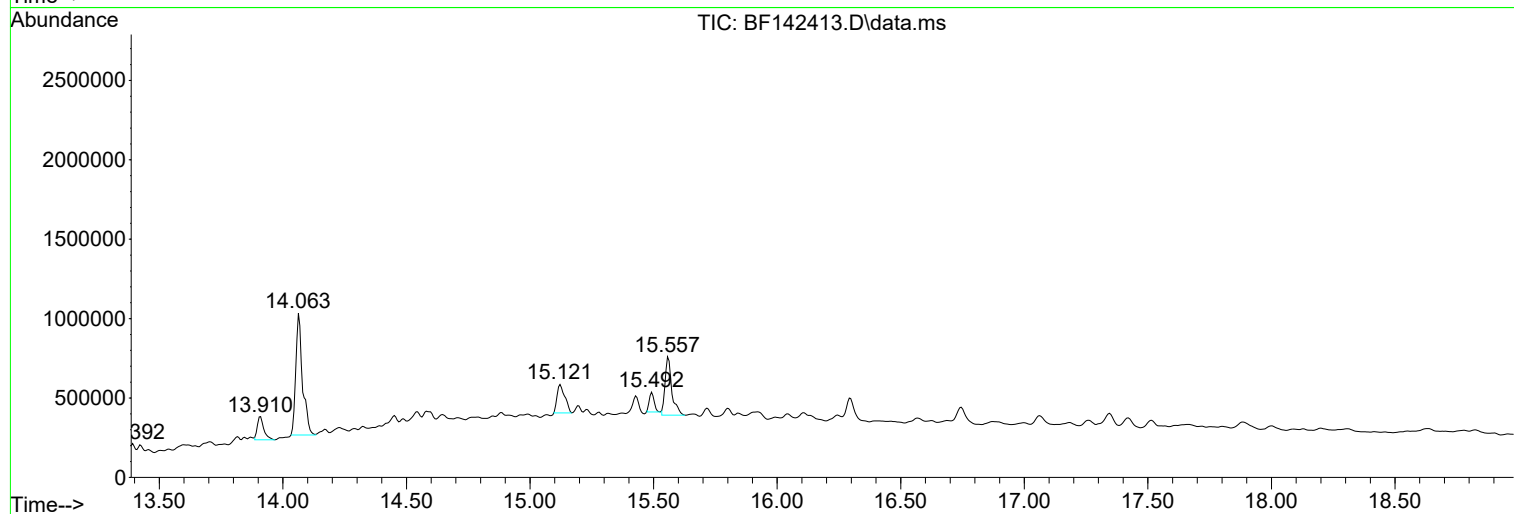
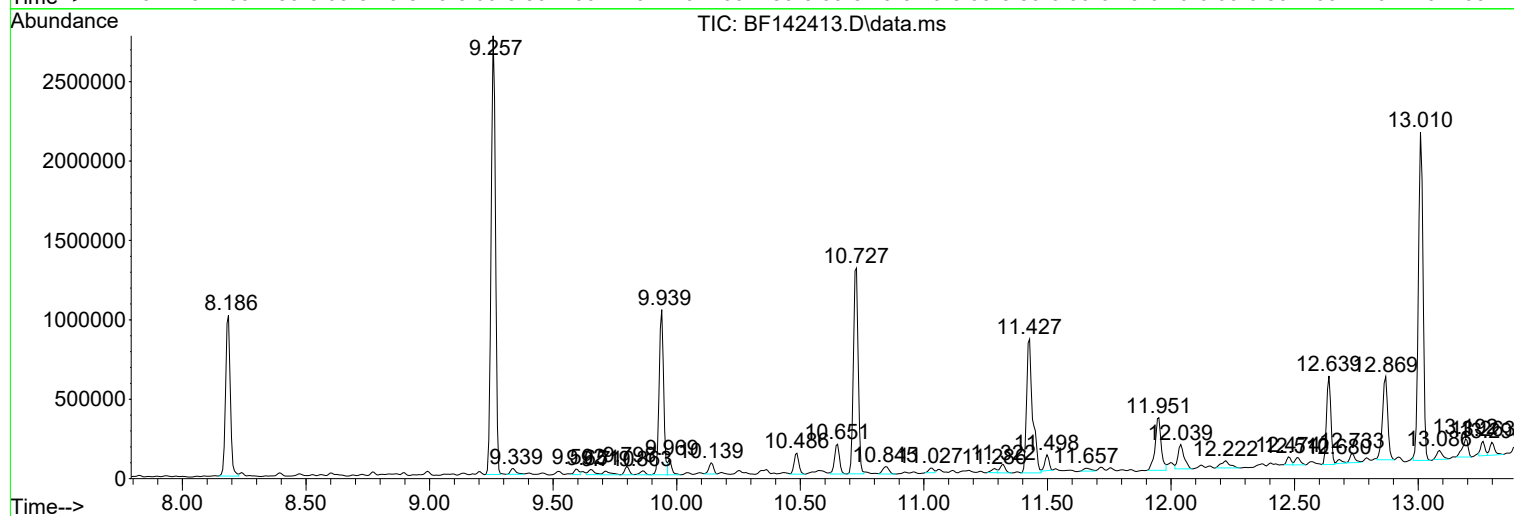
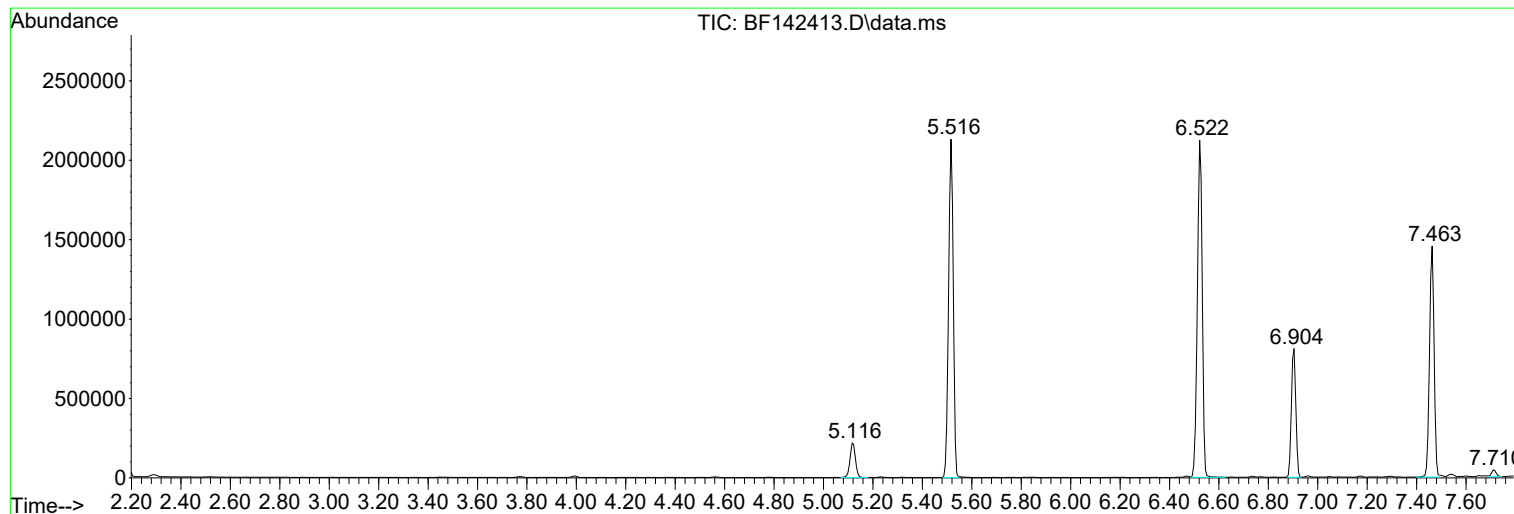
Sum of corrected areas: 28462109

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142413.D
Acq On : 16 May 2025 01:27
Operator : RC/JU
Sample : Q1982-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-4

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.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\BF051525\
Data File : BF142413.D
Acq On : 16 May 2025 01:27
Operator : RC/JU
Sample : Q1982-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

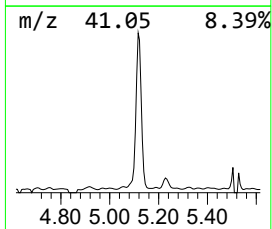
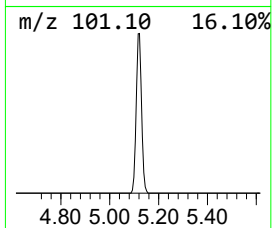
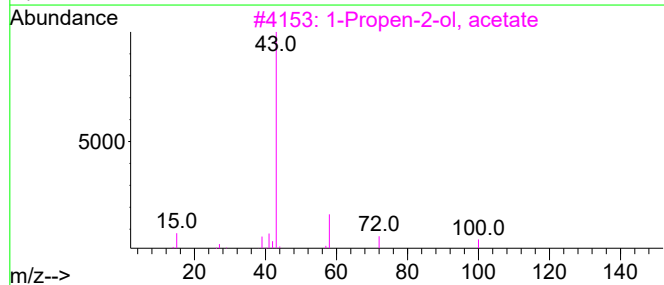
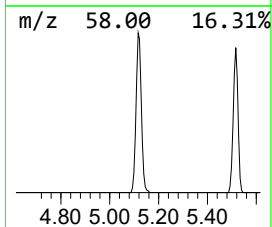
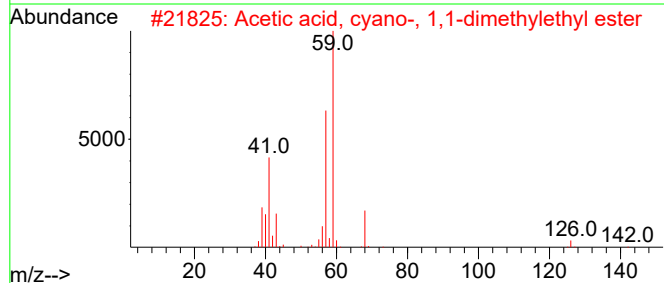
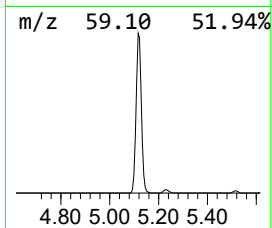
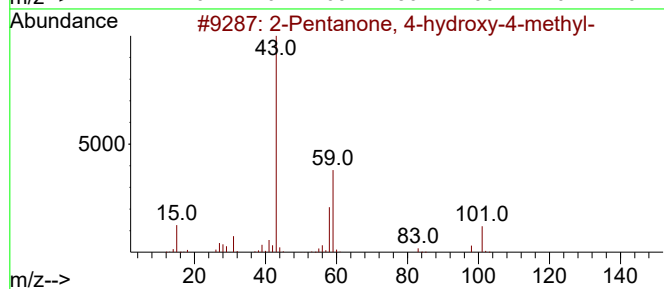
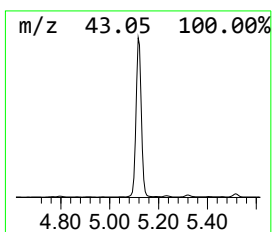
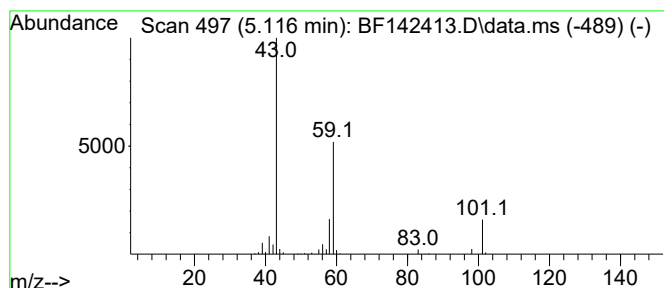
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BNA_F
ClientSampleId :
TP-4

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.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	6.72 ng	337308	1,4-Dichlorobenzene-d4	6.904	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	10
5	Acetone	58	C3H6O	000067-64-1	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142413.D
Acq On : 16 May 2025 01:27
Operator : RC/JU
Sample : Q1982-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-4

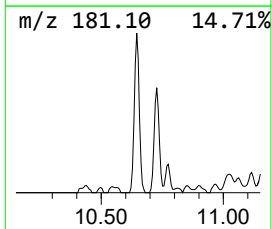
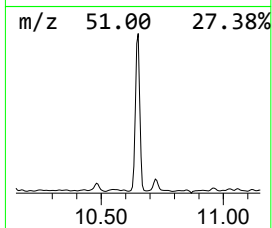
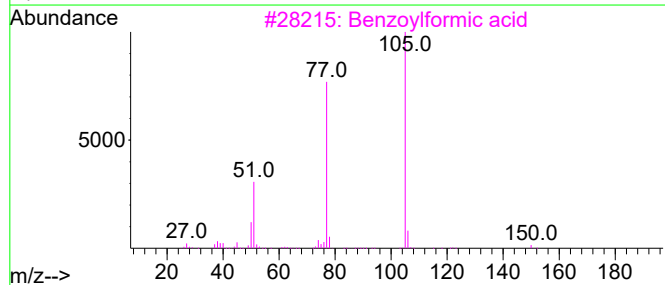
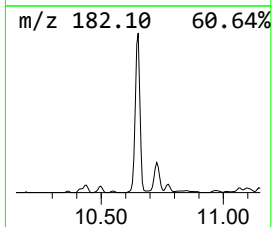
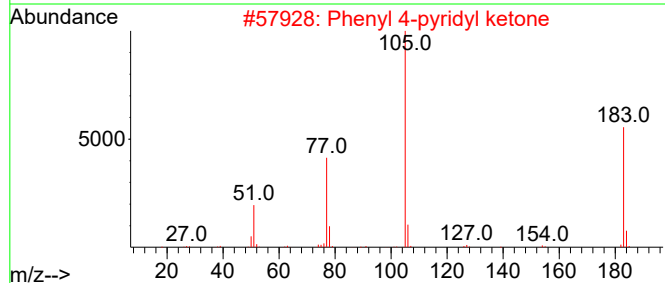
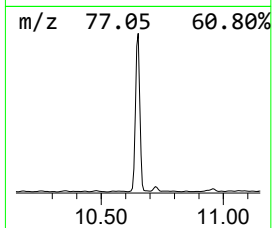
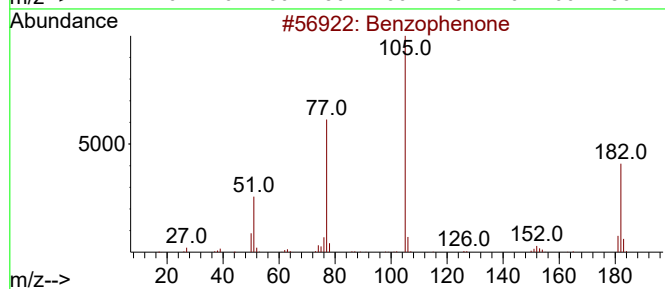
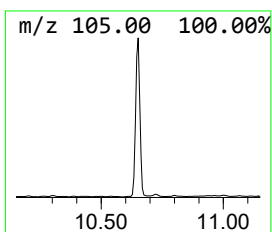
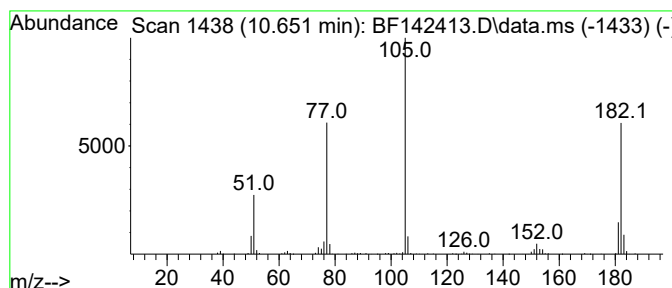
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.651	3.80 ng	254464	Acenaphthene-d10	9.939

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	49
3			Benzoylformic acid	150	C8H6O3	000611-73-4	49
4			Vinyl benzoate	148	C9H8O2	000769-78-8	47
5			N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142413.D
Acq On : 16 May 2025 01:27
Operator : RC/JU
Sample : Q1982-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

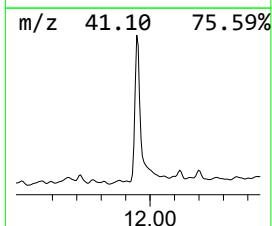
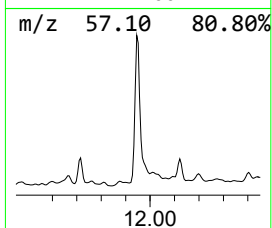
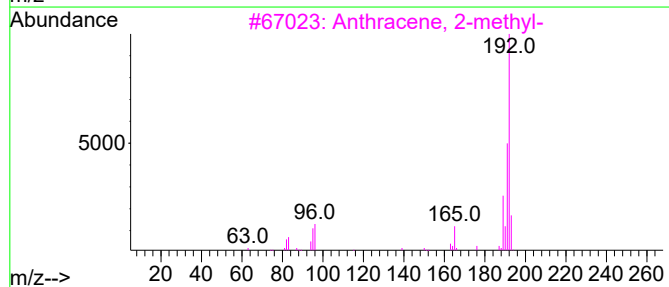
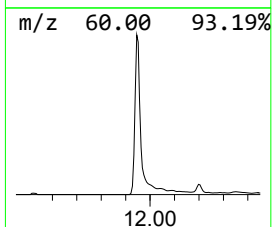
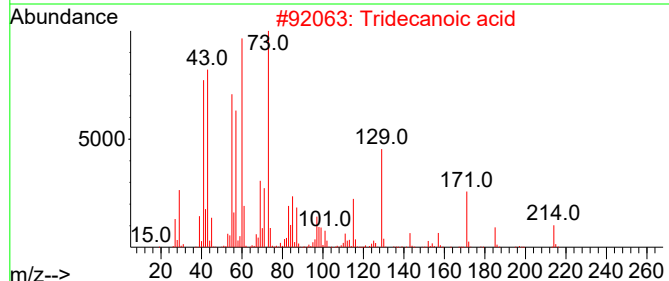
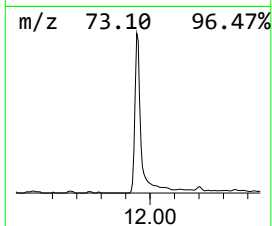
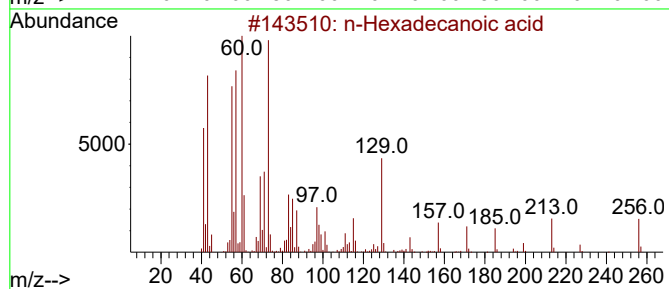
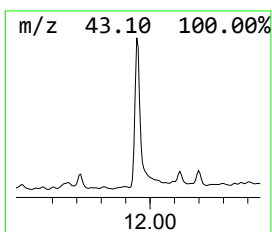
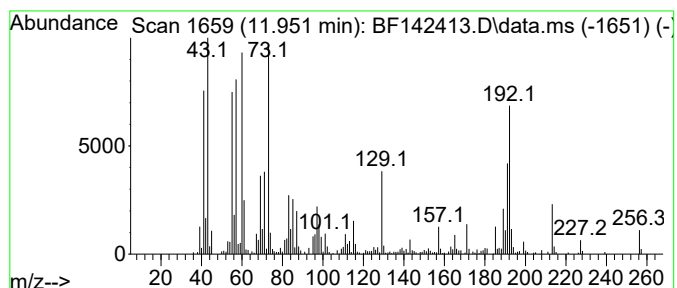
Instrument :
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ClientSampleId :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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	8.02 ng	574087	Phenanthrene-d10		11.427	
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	Anthracene, 2-methyl-		192	C15H12	000613-12-7	91
4	Anthracene, 1-methyl-		192	C15H12	000610-48-0	90
5	Anthracene, 9-methyl-		192	C15H12	000779-02-2	90



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142413.D
Acq On : 16 May 2025 01:27
Operator : RC/JU
Sample : Q1982-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

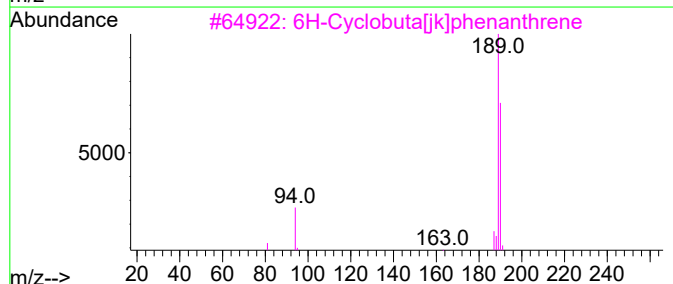
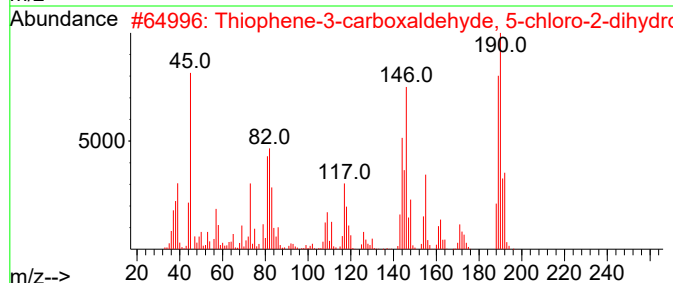
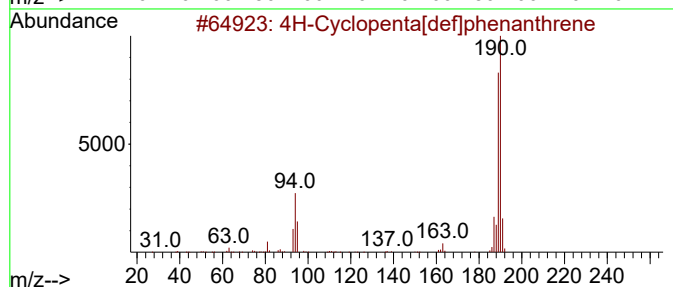
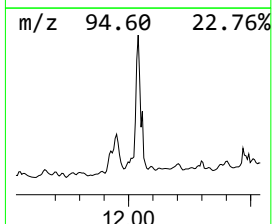
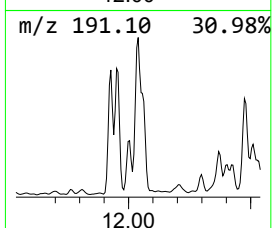
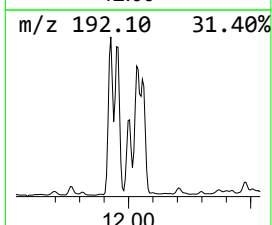
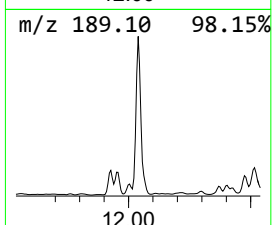
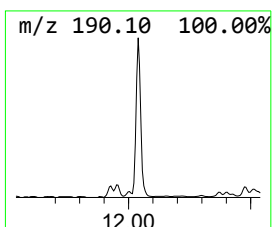
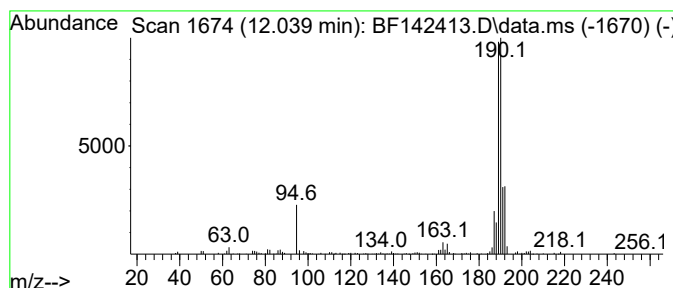
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ClientSampleId :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.039	3.63 ng	259914	Phenanthrene-d10	11.427	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	50
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
5	2,4(1H,3H)-Pyrimidinedione, 5-br...	190	C4H3BrN2O2	000051-20-7	25



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142413.D
Acq On : 16 May 2025 01:27
Operator : RC/JU
Sample : Q1982-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-4

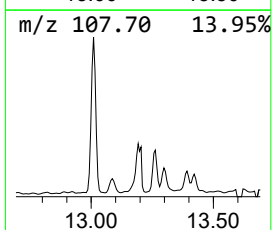
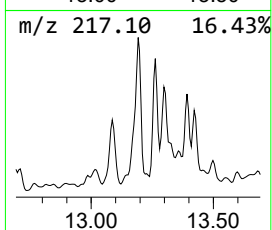
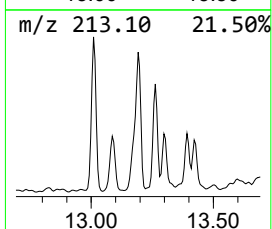
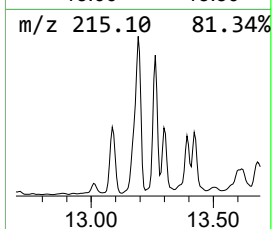
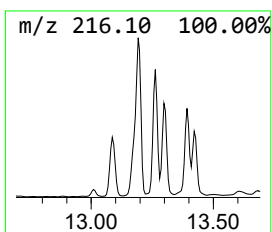
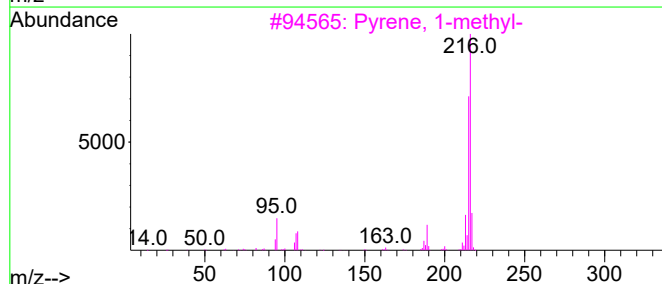
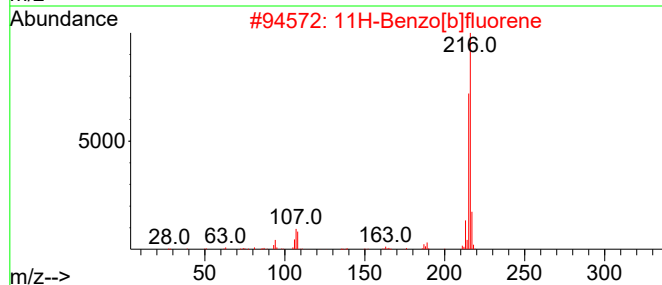
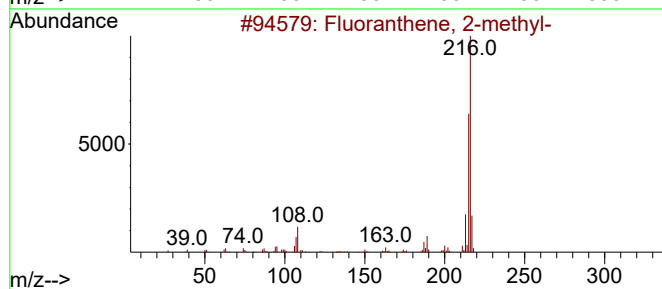
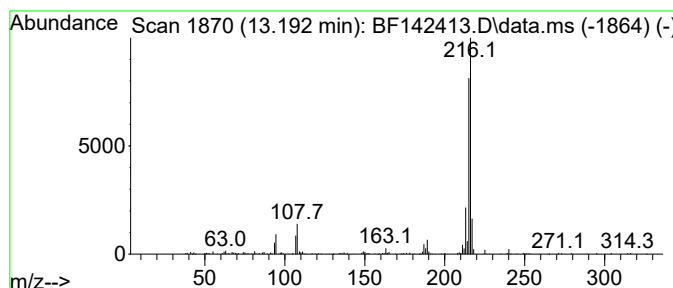
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Fluoranthene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.192	2.59 ng	186144	Chrysene-d12	14.068

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	96
2			11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
3			Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
4			11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
5			7H-Benzo[c]fluorene	216	C17H12	000205-12-9	72



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142413.D
Acq On : 16 May 2025 01:27
Operator : RC/JU
Sample : Q1982-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-4

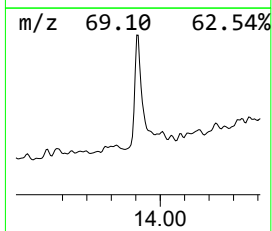
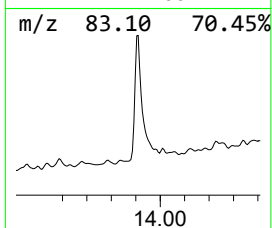
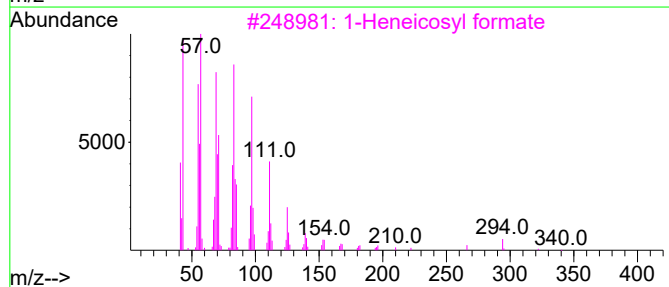
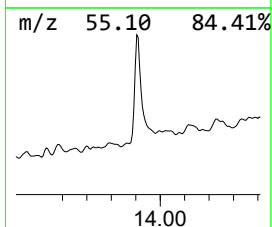
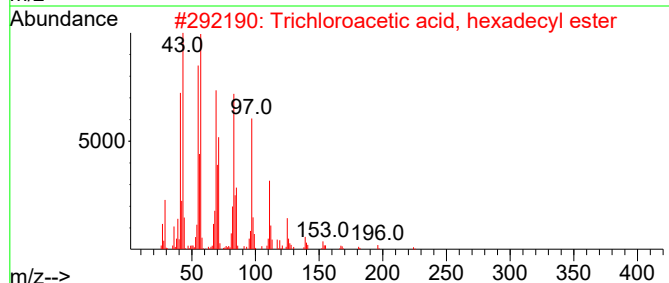
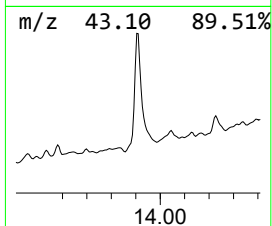
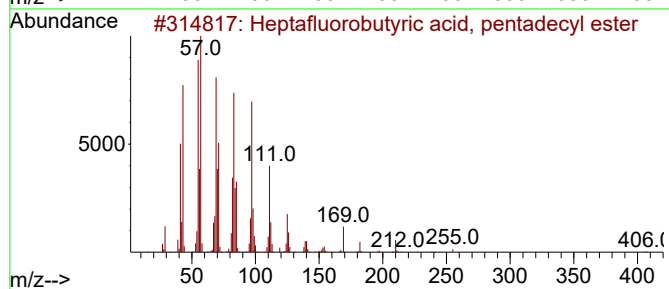
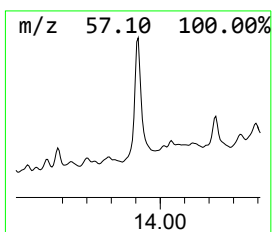
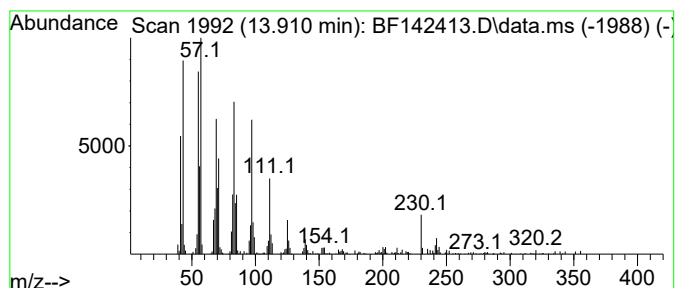
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Heptafluorobutyric acid, pe... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.910	3.68 ng	264685	Chrysene-d12	14.068

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	94
2			Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94
3			1-Heneicosyl formate	340	C22H44O2	077899-03-7	94
4			2- Chloropropionic acid, hexadec...	332	C19H37ClO2	086711-81-1	94
5			Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	94



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142413.D
Acq On : 16 May 2025 01:27
Operator : RC/JU
Sample : Q1982-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-4

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-...	5.116	6.7	ng	337308	1	6.904	1003880	20.0
Benzophenone	10.651	3.8	ng	254464	3	9.939	1340080	20.0
n-Hexadecanoic ...	11.951	8.0	ng	574087	4	11.427	1431910	20.0
4H-Cyclopenta[d...]	12.039	3.6	ng	259914	4	11.427	1431910	20.0
Fluoranthene, 2...	13.192	2.6	ng	186144	5	14.068	1439230	20.0
Heptafluorobuty...	13.910	3.7	ng	264685	5	14.068	1439230	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142408.D
Acq On : 15 May 2025 23:01
Operator : RC/JU
Sample : Q1982-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-5

Quant Time: May 16 01:10:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	156800	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	595096	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	309030	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	471561	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	353038	20.000	ng	0.00
86) Perylene-d12	15.551	264	254978	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	734163	79.928	ng	0.00
7) Phenol-d6	6.522	99	910993	80.639	ng	0.00
23) Nitrobenzene-d5	7.457	82	533295	54.654	ng	-0.01
42) 2,4,6-Tribromophenol	10.722	330	243192	81.509	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	1106839	51.070	ng	0.00
79) Terphenyl-d14	13.010	244	935108	39.204	ng	0.00

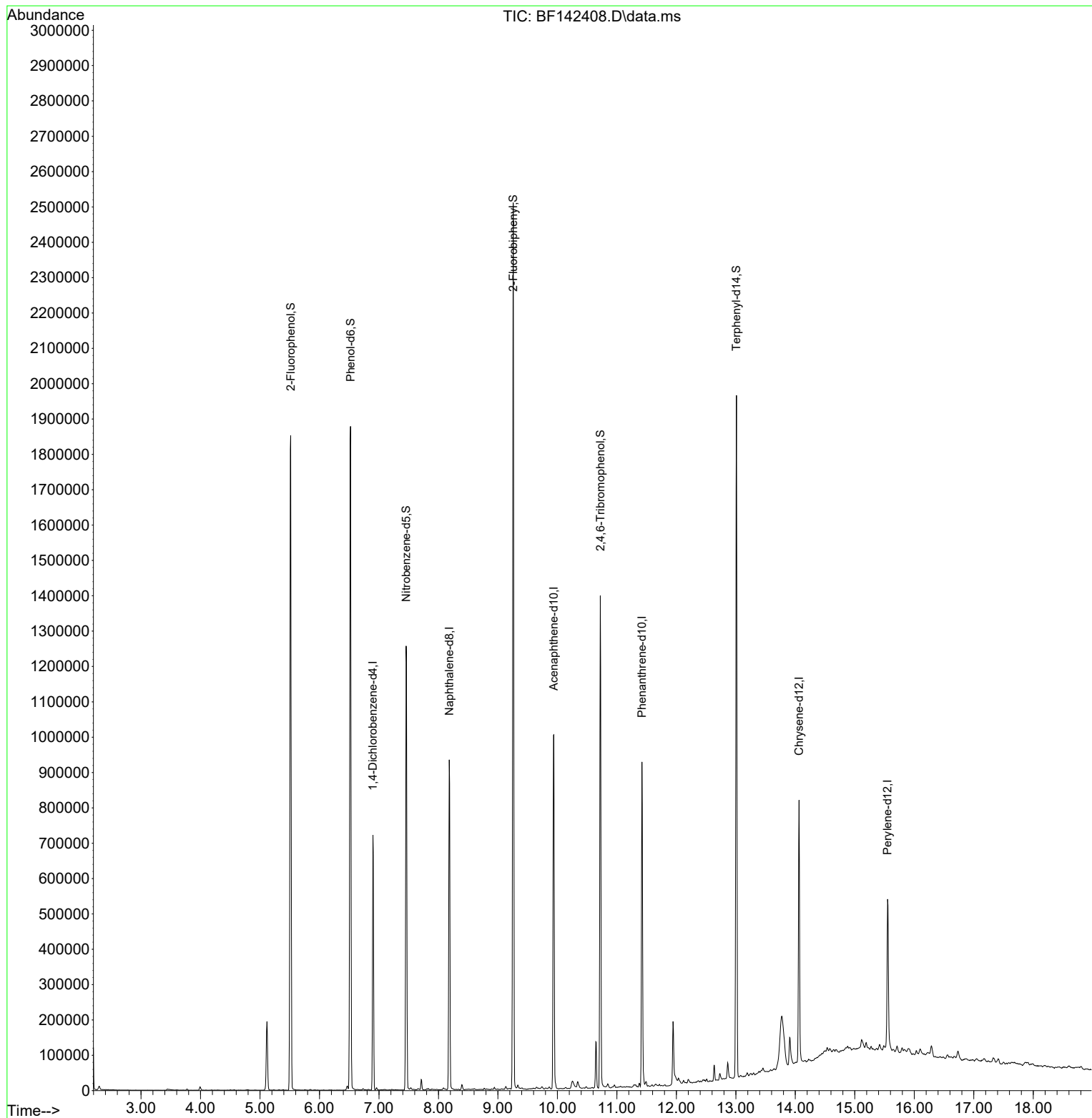
Target Compounds	Qvalue

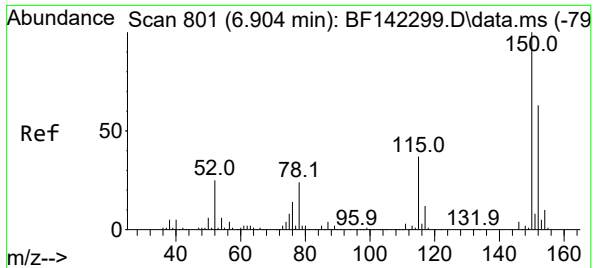
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142408.D
Acq On : 15 May 2025 23:01
Operator : RC/JU
Sample : Q1982-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-5

Quant Time: May 16 01:10:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration

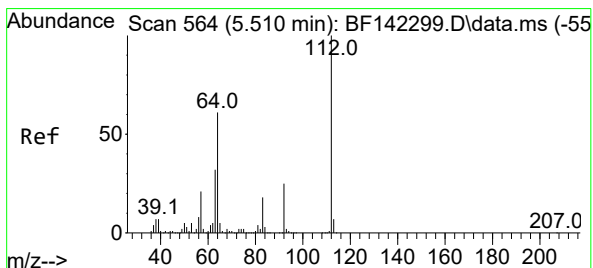
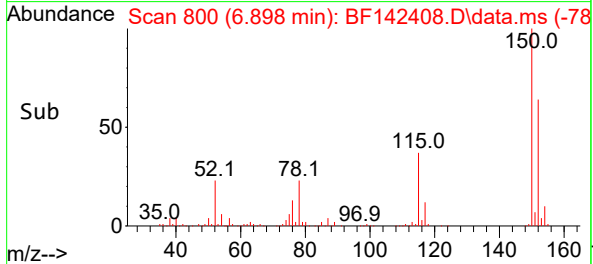
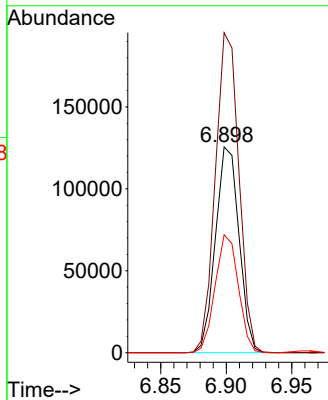
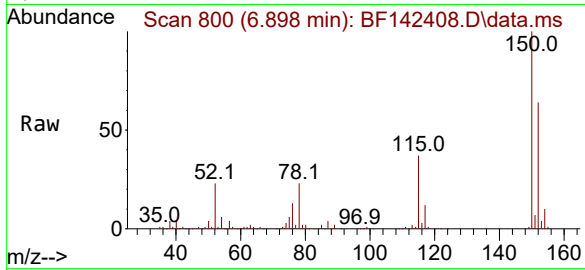




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 801
Delta R.T. -0.006 min
Lab File: BF142408.D
Acq: 15 May 2025 23:01

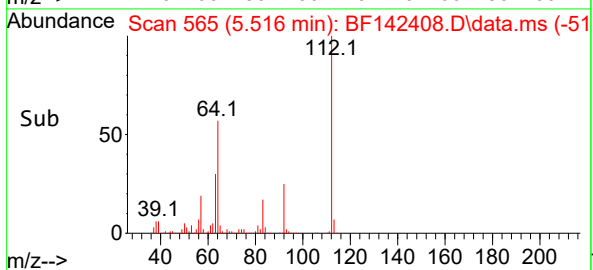
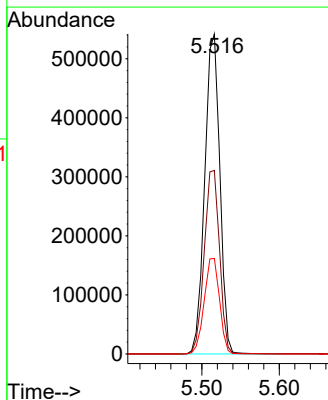
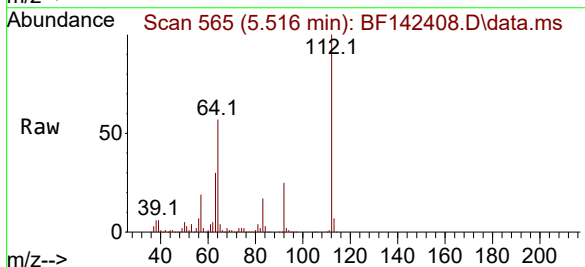
Instrument :
BNA_F
ClientSampleId :
TP-5

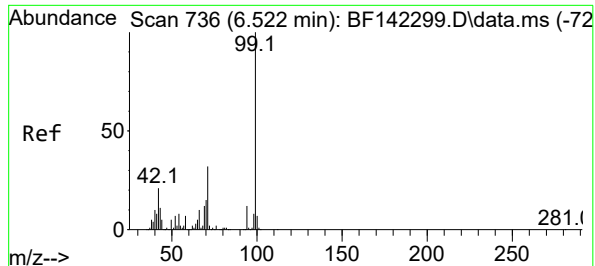
Tgt Ion:152 Resp: 156800
Ion Ratio Lower Upper
152 100
150 155.5 126.6 190.0
115 57.3 47.3 70.9



#5
2-Fluorophenol
Concen: 79.928 ng
RT: 5.516 min Scan# 565
Delta R.T. 0.006 min
Lab File: BF142408.D
Acq: 15 May 2025 23:01

Tgt Ion:112 Resp: 734163
Ion Ratio Lower Upper
112 100
64 57.3 48.9 73.3
63 29.9 25.6 38.4

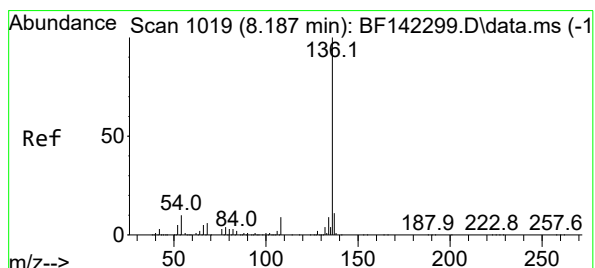
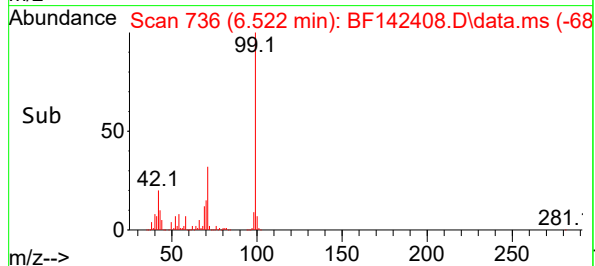
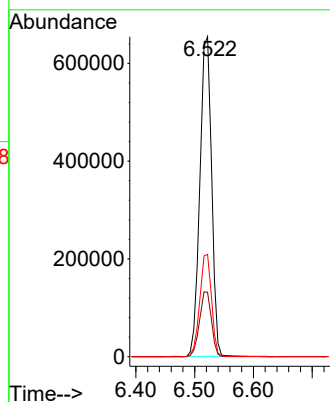
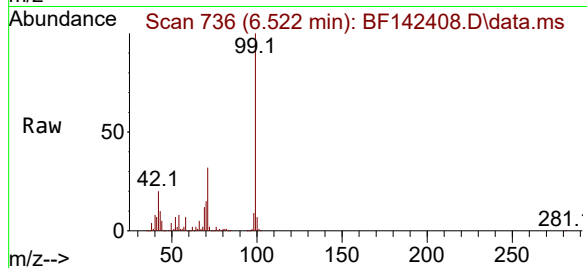




#7
Phenol-d6
Concen: 80.639 ng
RT: 6.522 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF142408.D
Acq: 15 May 2025 23:01

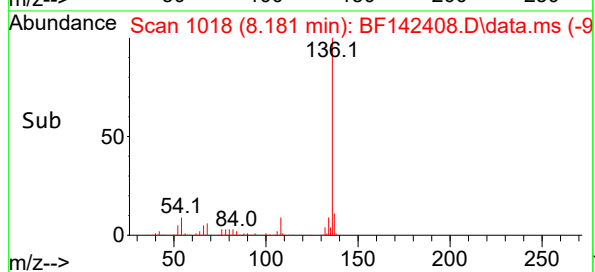
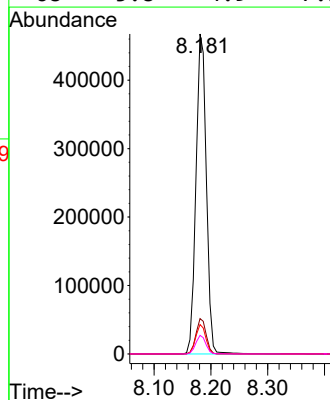
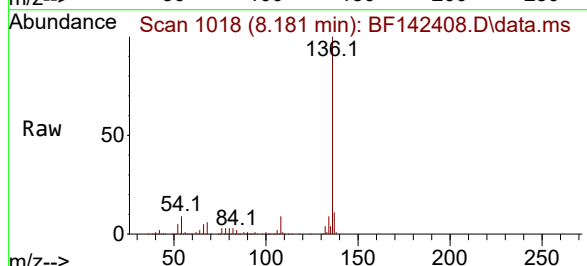
Instrument :
BNA_F
ClientSampleId :
TP-5

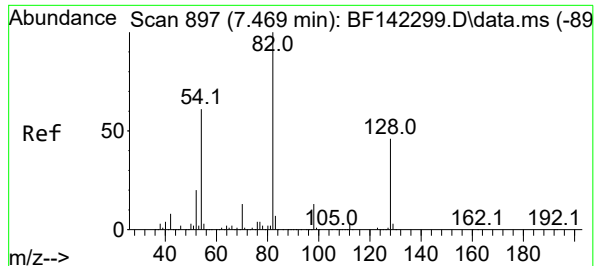
Tgt Ion: 99 Resp: 910993
Ion Ratio Lower Upper
99 100
42 20.2 17.0 25.4
71 32.0 25.8 38.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142408.D
Acq: 15 May 2025 23:01

Tgt Ion: 136 Resp: 595096
Ion Ratio Lower Upper
136 100
137 11.0 8.9 13.3
54 9.2 7.7 11.5
68 5.8 4.9 7.3





#23

Nitrobenzene-d5

Concen: 54.654 ng

RT: 7.457 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF142408.D

Acq: 15 May 2025 23:01

Instrument :

BNA_F

ClientSampleId :

TP-5

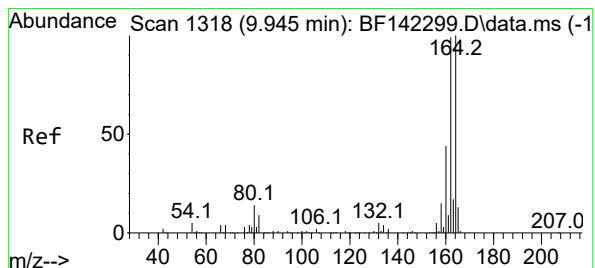
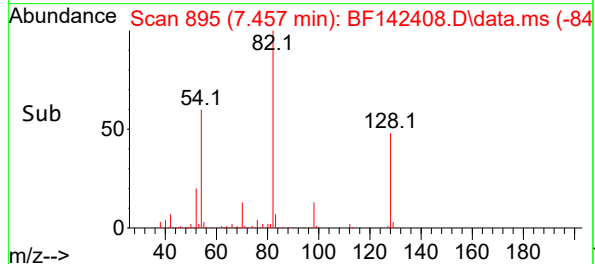
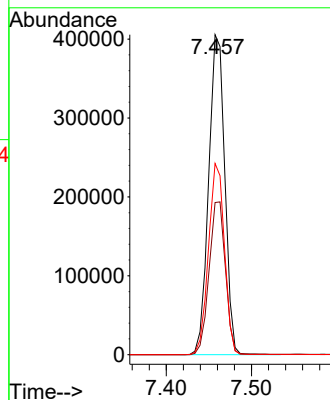
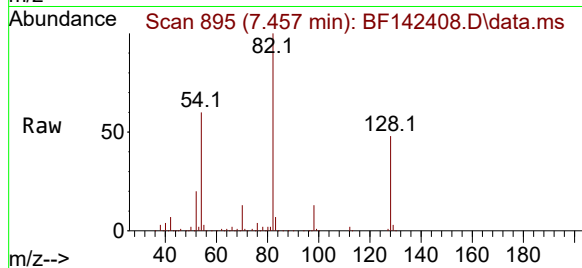
Tgt Ion: 82 Resp: 533295

Ion Ratio Lower Upper

82 100

128 47.6 37.0 55.6

54 59.8 48.6 73.0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.939 min Scan# 1317

Delta R.T. -0.006 min

Lab File: BF142408.D

Acq: 15 May 2025 23:01

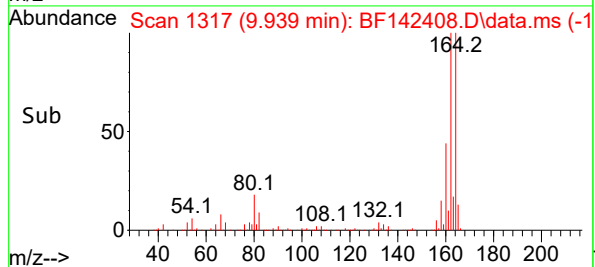
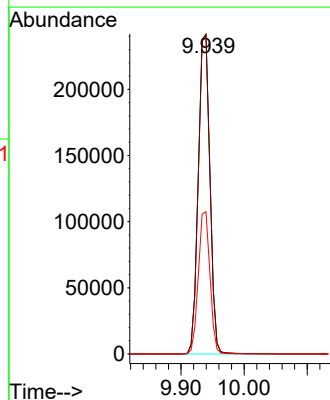
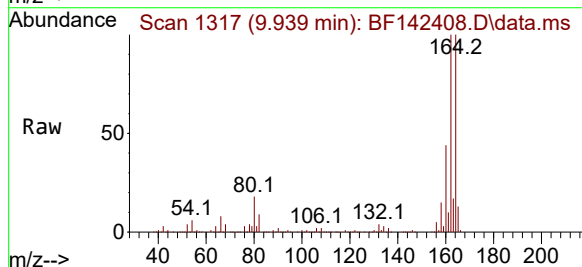
Tgt Ion:164 Resp: 309030

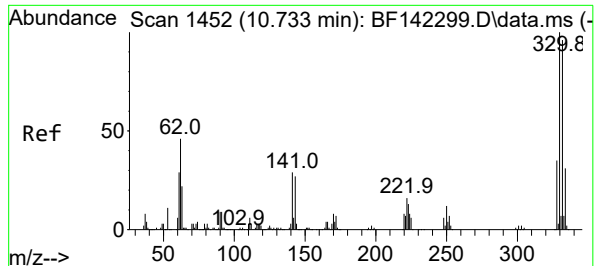
Ion Ratio Lower Upper

164 100

162 100.4 79.2 118.8

160 44.6 35.3 52.9





#42

2,4,6-Tribromophenol

Concen: 81.509 ng

RT: 10.722 min Scan# 1450

Delta R.T. -0.012 min

Lab File: BF142408.D

Acq: 15 May 2025 23:01

Instrument :

BNA_F

ClientSampleId :

TP-5

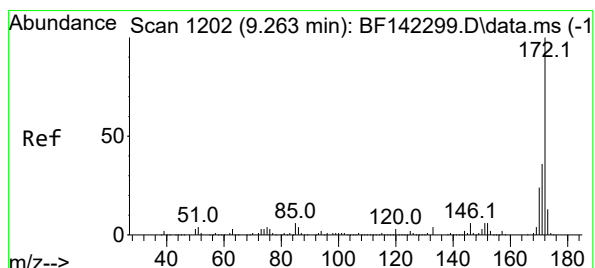
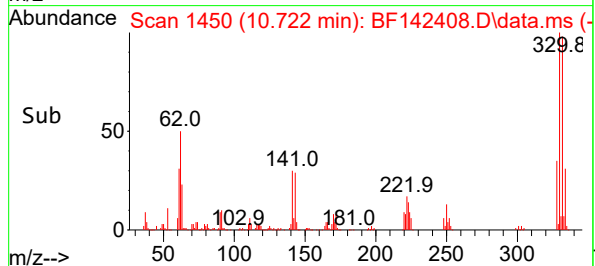
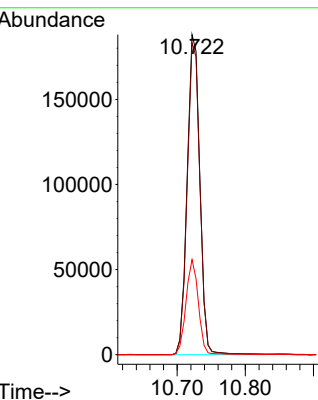
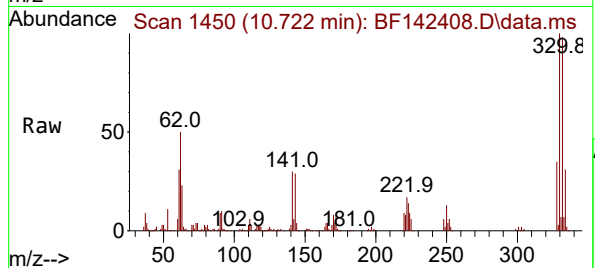
Tgt Ion:330 Resp: 243192

Ion Ratio Lower Upper

330 100

332 97.5 76.8 115.2

141 29.2 24.9 37.3



#45

2-Fluorobiphenyl

Concen: 51.070 ng

RT: 9.257 min Scan# 1201

Delta R.T. -0.006 min

Lab File: BF142408.D

Acq: 15 May 2025 23:01

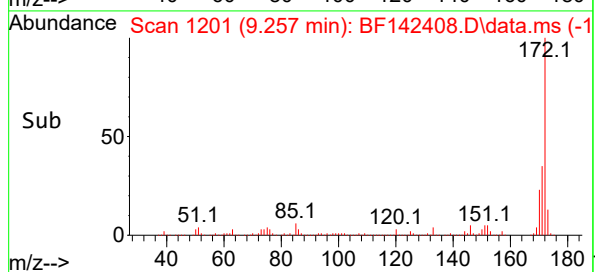
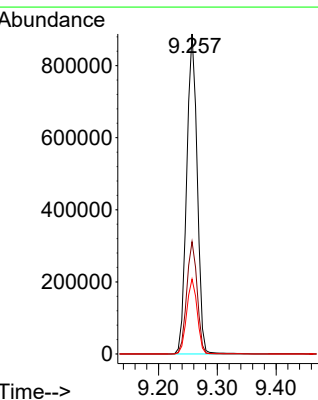
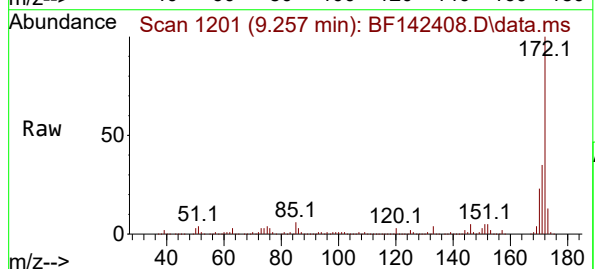
Tgt Ion:172 Resp: 1106839

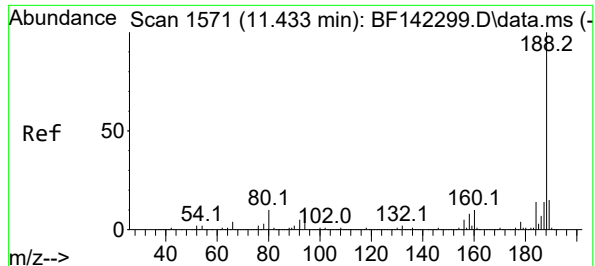
Ion Ratio Lower Upper

172 100

171 35.1 28.6 42.8

170 23.4 19.0 28.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.422 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF142408.D

Acq: 15 May 2025 23:01

Instrument :

BNA_F

ClientSampleId :

TP-5

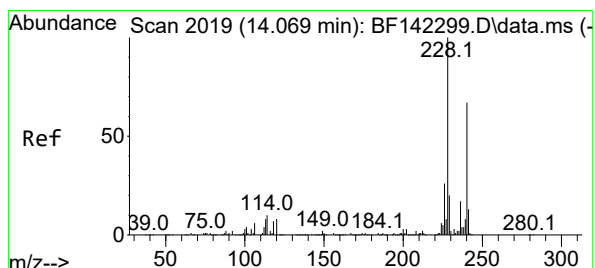
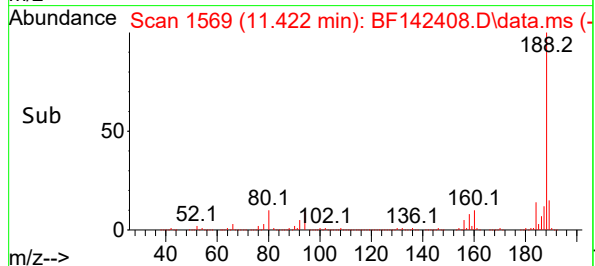
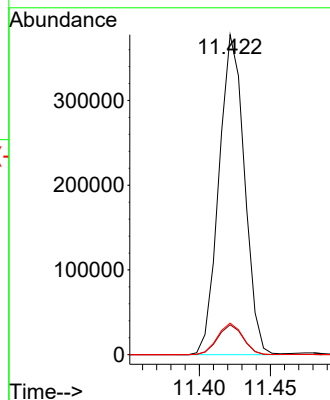
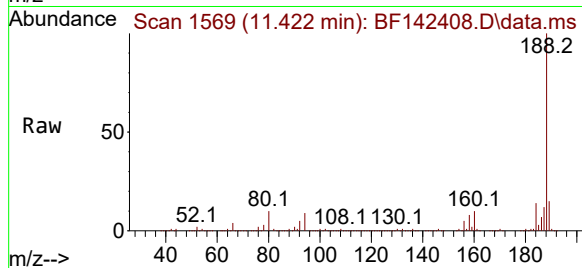
Tgt Ion:188 Resp: 471561

Ion Ratio Lower Upper

188 100

94 9.3 7.5 11.3

80 9.8 7.9 11.9



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.063 min Scan# 2018

Delta R.T. -0.006 min

Lab File: BF142408.D

Acq: 15 May 2025 23:01

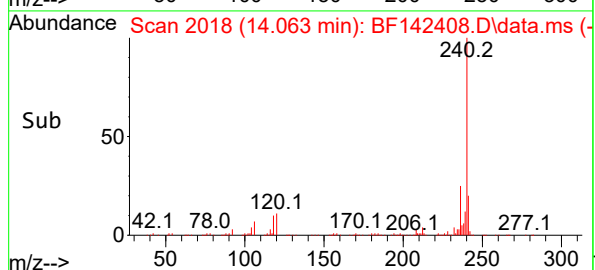
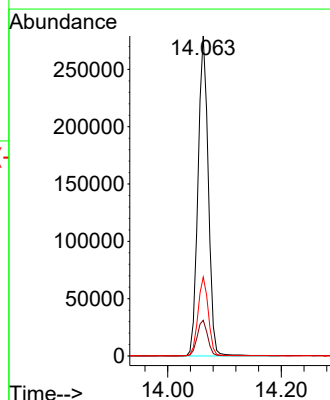
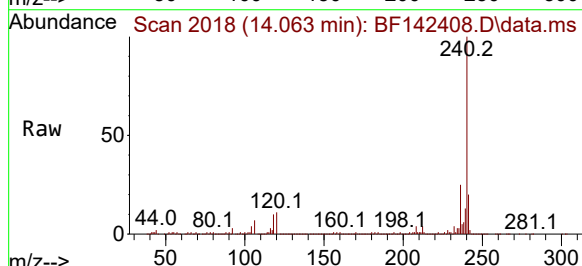
Tgt Ion:240 Resp: 353038

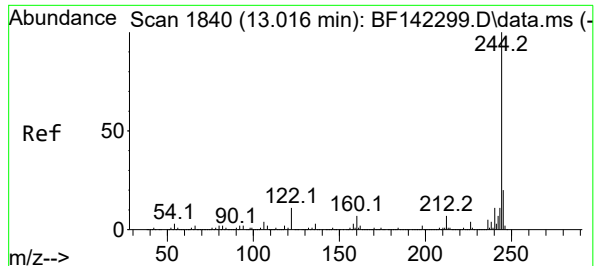
Ion Ratio Lower Upper

240 100

120 11.2 9.7 14.5

236 24.7 20.0 30.0





#79

Terphenyl-d14

Concen: 39.204 ng

RT: 13.010 min Scan# 1839

Delta R.T. -0.006 min

Lab File: BF142408.D

Acq: 15 May 2025 23:01

Instrument :

BNA_F

ClientSampleId :

TP-5

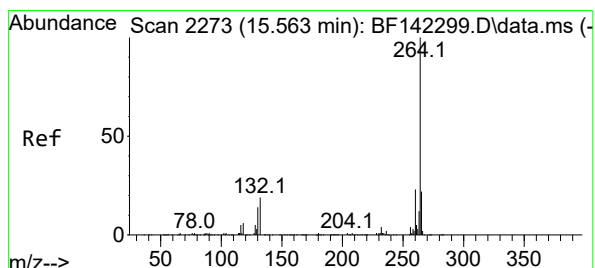
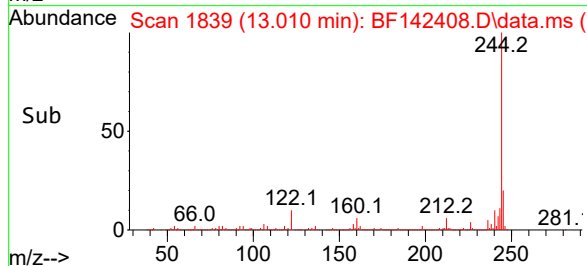
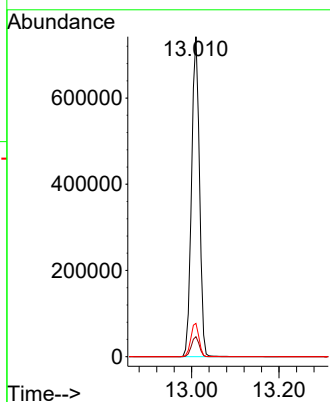
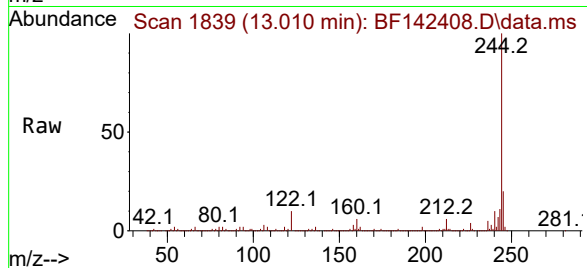
Tgt Ion:244 Resp: 935108

Ion Ratio Lower Upper

244 100

212 6.3 5.4 8.2

122 10.4 9.0 13.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 2271

Delta R.T. -0.012 min

Lab File: BF142408.D

Acq: 15 May 2025 23:01

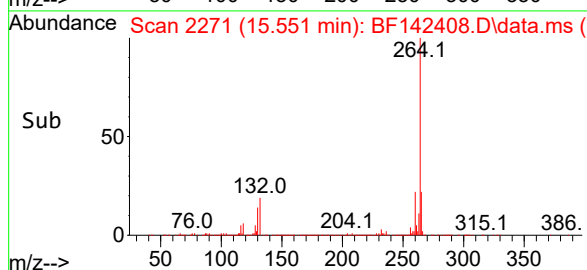
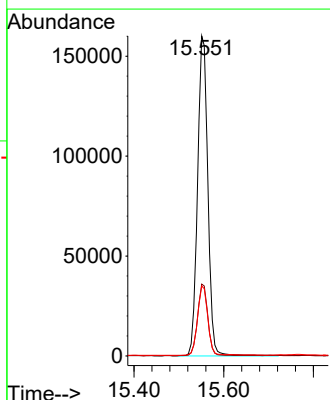
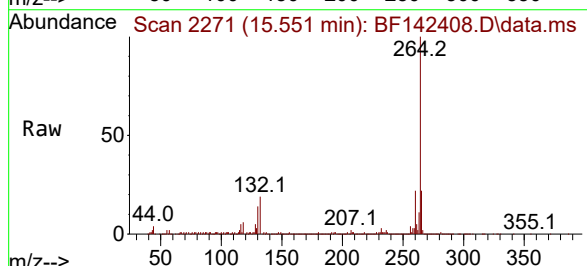
Tgt Ion:264 Resp: 254978

Ion Ratio Lower Upper

264 100

260 22.4 18.6 27.8

265 21.8 17.5 26.3



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142408.D
Acq On : 15 May 2025 23:01
Operator : RC/JU
Sample : Q1982-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-5

A
B
C
D
E
F
G
H
I
J
K

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142408.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.116	488	497	508	rBV	194432	290764	9.35%	1.308%
2	5.516	558	565	570	rBV	1851718	2535472	81.53%	11.403%
3	6.522	729	736	741	rBV	1873611	2604418	83.75%	11.713%
4	6.898	795	800	805	rBV	721398	890517	28.64%	4.005%
5	7.457	889	895	900	rBV	1255996	1652539	53.14%	7.432%
6	7.710	934	938	944	rVB	29006	36138	1.16%	0.163%
7	8.181	1013	1018	1035	rVB	933160	1182586	38.03%	5.318%
8	9.257	1195	1201	1206	rBV	2507656	3109853	100.00%	13.986%
9	9.939	1311	1317	1328	rBV	1001367	1308653	42.08%	5.885%
10	10.251	1362	1370	1381	rBV2	21068	69257	2.23%	0.311%
11	10.339	1381	1385	1397	rVB3	18761	38769	1.25%	0.174%
12	10.645	1432	1437	1445	rVB	131039	172991	5.56%	0.778%
13	10.722	1445	1450	1464	rBV	1392771	1774683	57.07%	7.981%
14	11.422	1564	1569	1577	rBV	918007	1182172	38.01%	5.317%
15	11.945	1653	1658	1670	rBV2	177707	302276	9.72%	1.359%
16	12.633	1771	1775	1780	rBV	44859	59696	1.92%	0.268%
17	12.733	1788	1792	1798	rBV6	18499	33342	1.07%	0.150%
18	12.863	1810	1814	1820	rBV	43693	64478	2.07%	0.290%
19	13.010	1833	1839	1844	rBV	1928713	2443036	78.56%	10.987%
20	13.774	1959	1969	1986	rVB7	137738	642137	20.65%	2.888%
21	13.904	1987	1991	2002	rBV	77313	154260	4.96%	0.694%
22	14.063	2013	2018	2030	rVB	739158	973350	31.30%	4.377%
23	15.551	2266	2271	2284	rVB	428011	714259	22.97%	3.212%

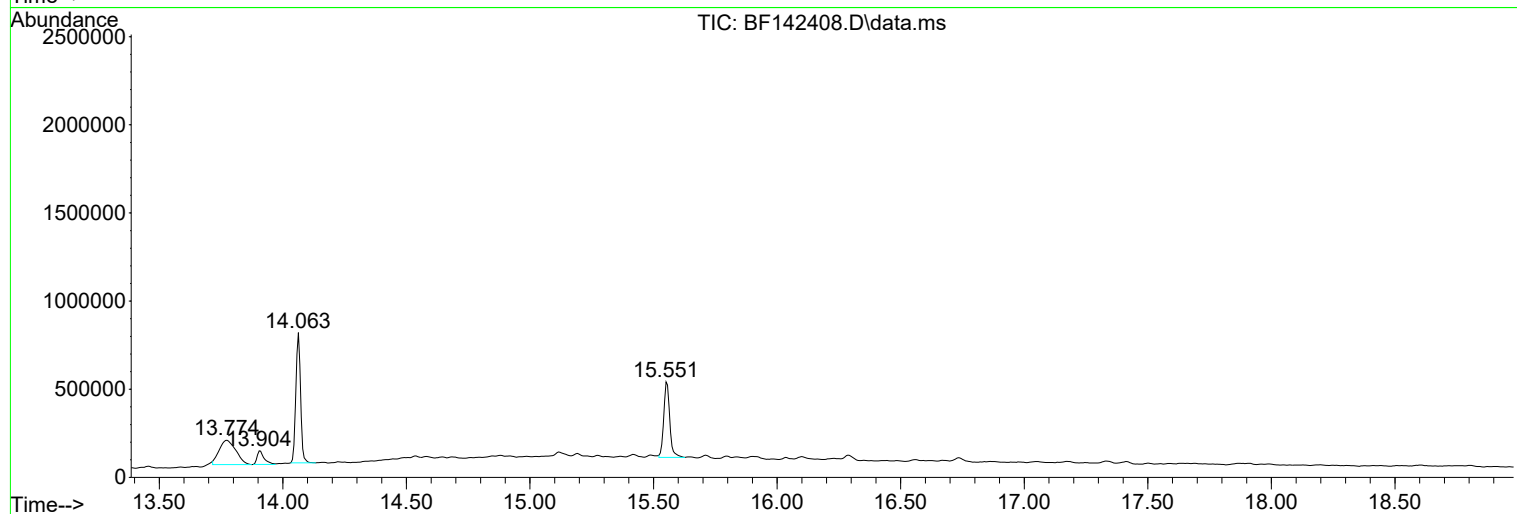
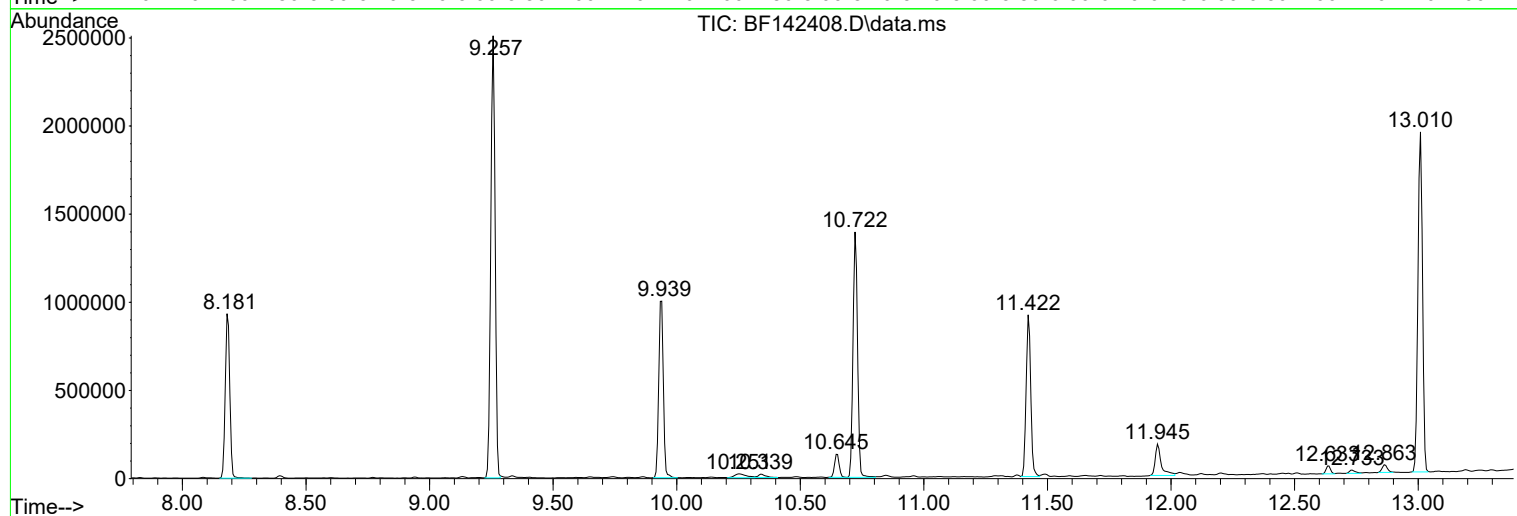
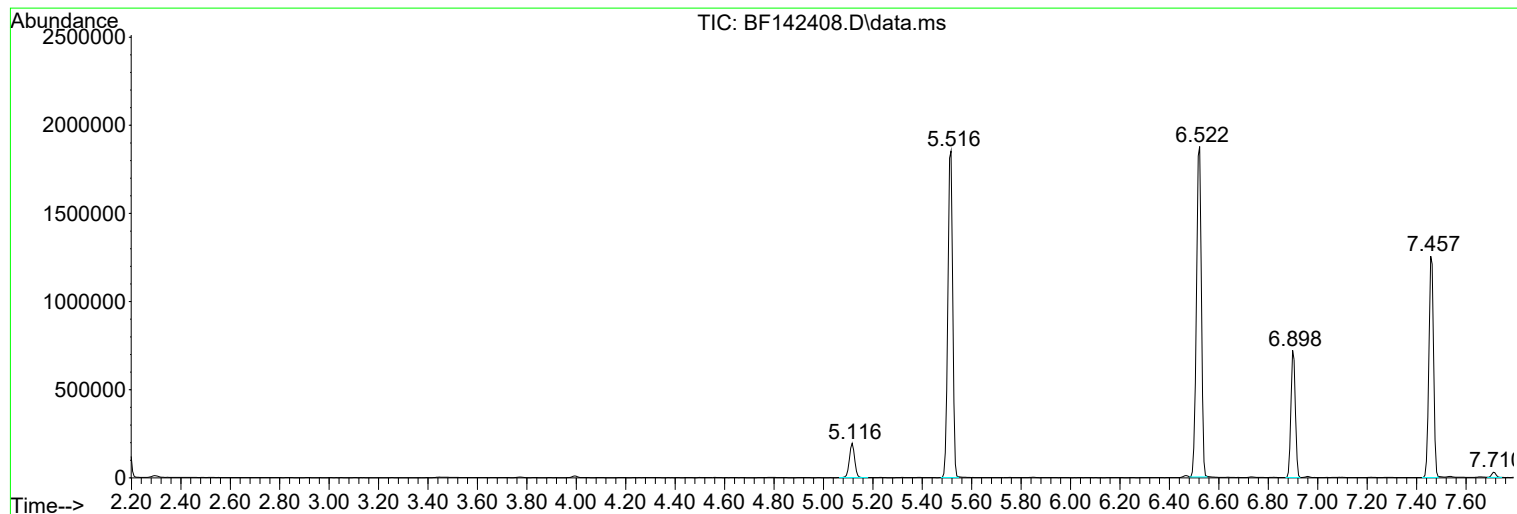
Sum of corrected areas: 22235646

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142408.D
Acq On : 15 May 2025 23:01
Operator : RC/JU
Sample : Q1982-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-5

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.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\BF051525\
Data File : BF142408.D
Acq On : 15 May 2025 23:01
Operator : RC/JU
Sample : Q1982-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-5

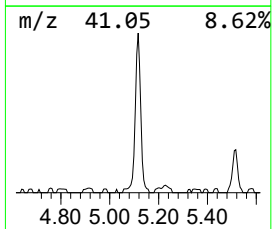
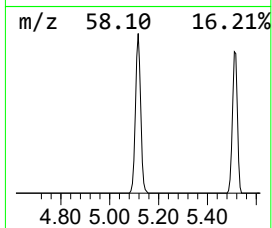
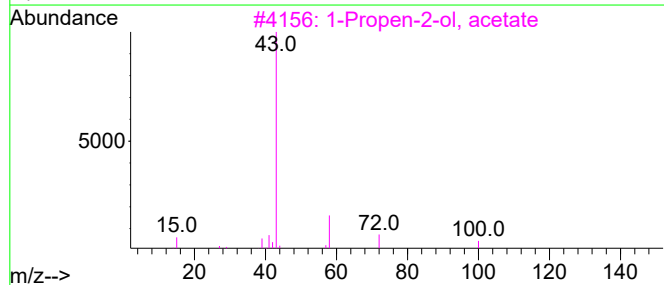
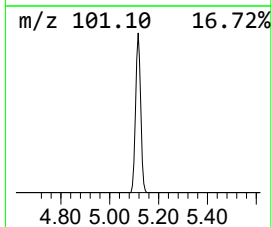
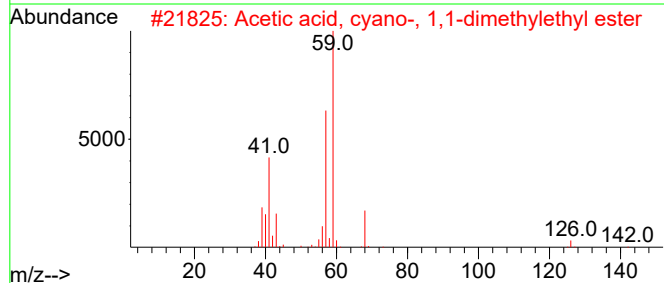
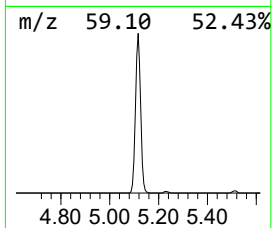
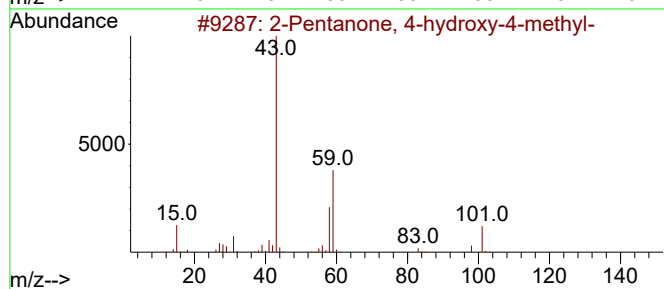
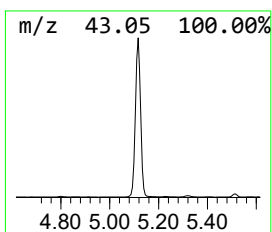
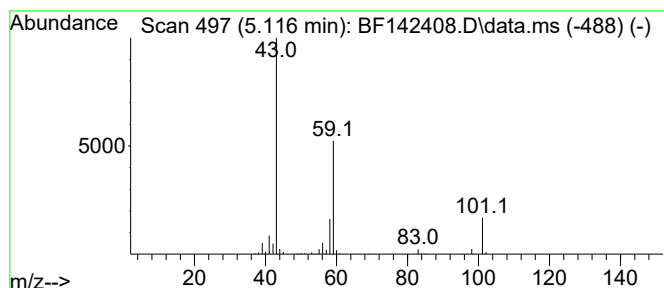
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	6.53 ng	290764	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	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	9		
5	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	9		



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142408.D
Acq On : 15 May 2025 23:01
Operator : RC/JU
Sample : Q1982-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-5

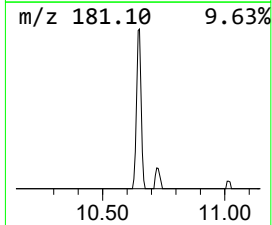
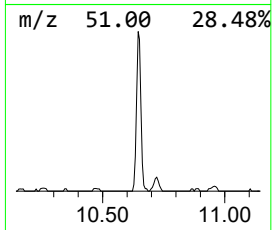
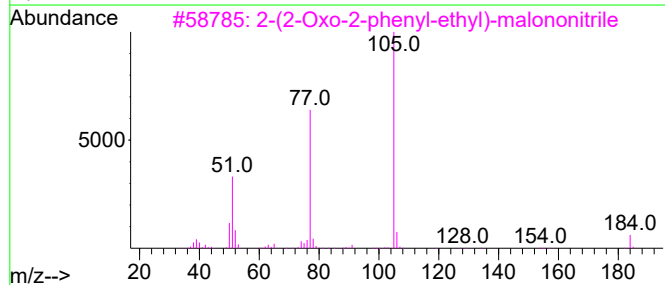
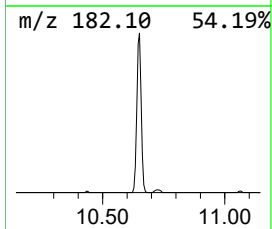
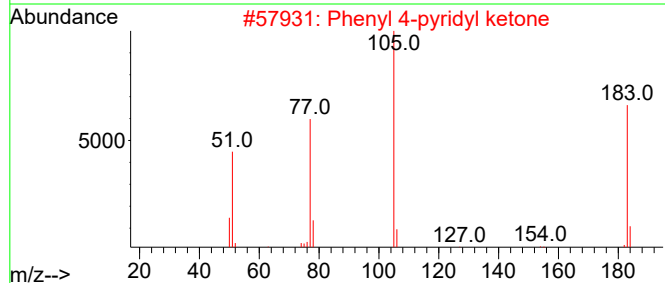
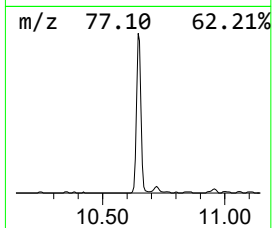
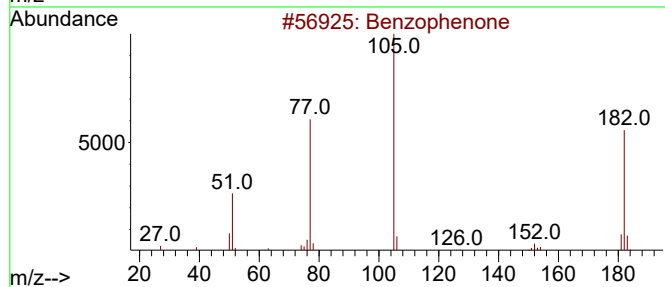
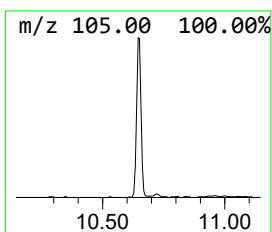
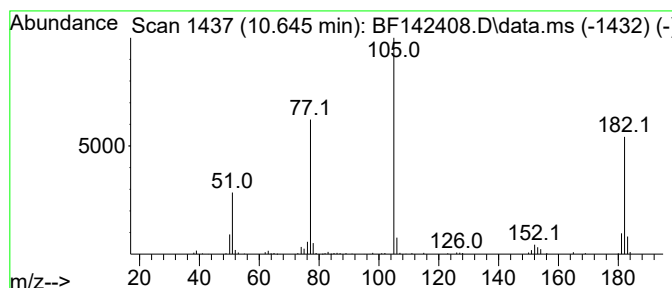
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Benzophenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.645	2.64 ng	172991	Acenaphthene-d10	9.939

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	58
3			2-(2-Oxo-2-phenyl-ethyl)-malonon...	184	C11H8N2O	1000296-76-9	53
4			Benzoic acid, phenyl ester	198	C13H10O2	000093-99-2	47
5			Benzenepropanenitrile, .beta.-oxo-	145	C9H7NO	000614-16-4	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142408.D
Acq On : 15 May 2025 23:01
Operator : RC/JU
Sample : Q1982-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-5

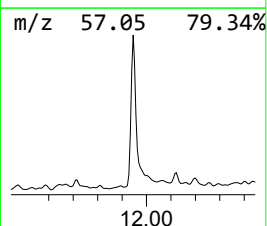
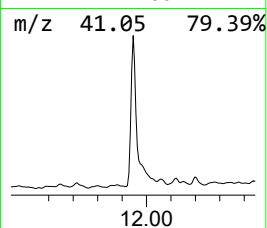
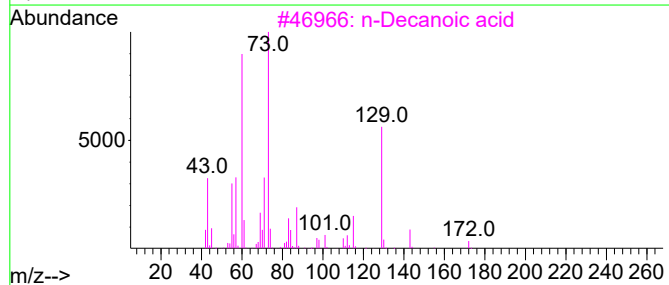
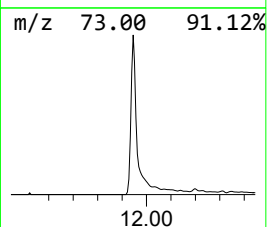
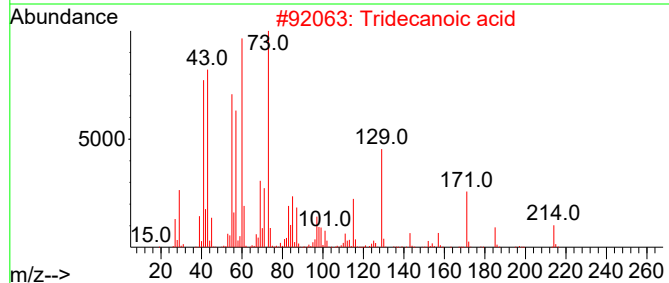
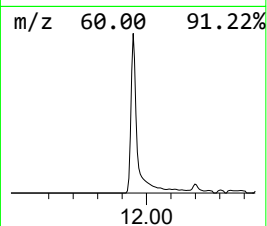
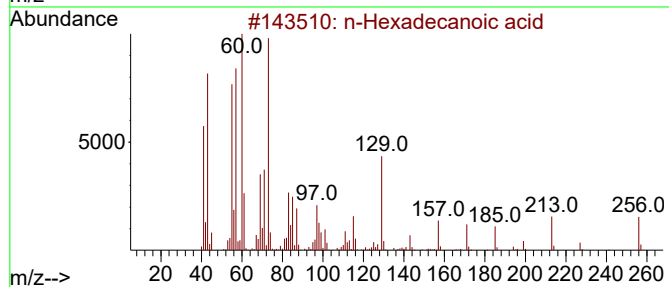
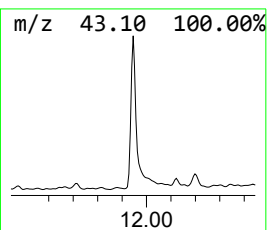
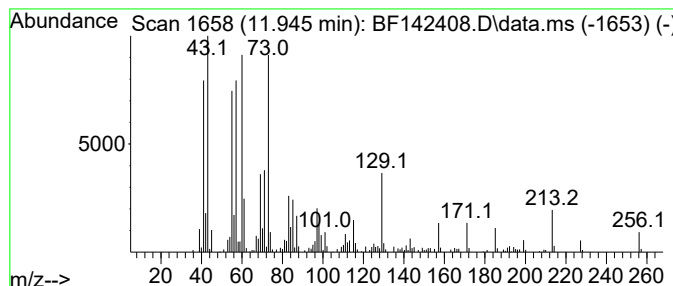
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	5.11 ng	302276	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	94
3			n-Decanoic acid	172	C10H20O2	000334-48-5	90
4			Pentadecanoic acid	242	C15H30O2	001002-84-2	81
5			Dodecanoic acid	200	C12H24O2	000143-07-7	70



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142408.D
Acq On : 15 May 2025 23:01
Operator : RC/JU
Sample : Q1982-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

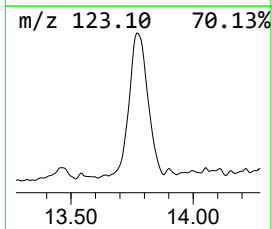
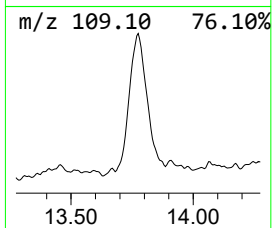
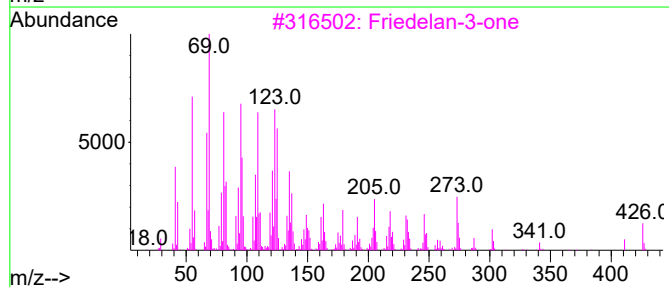
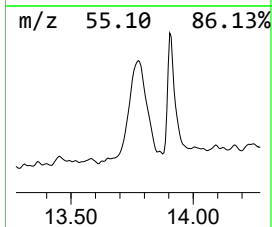
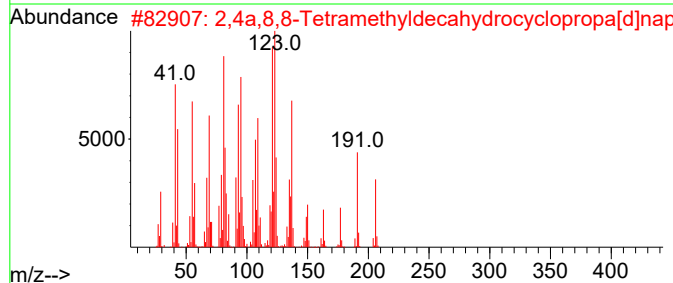
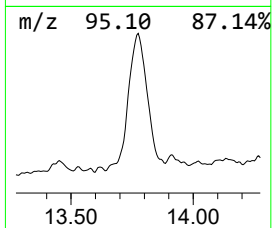
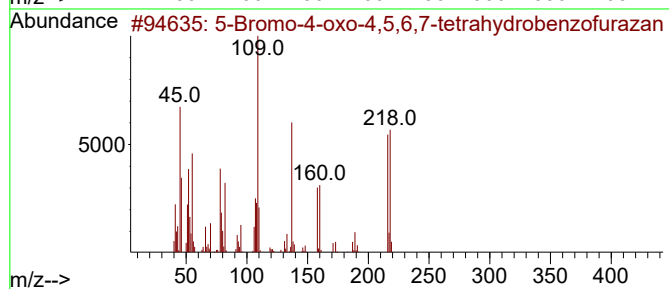
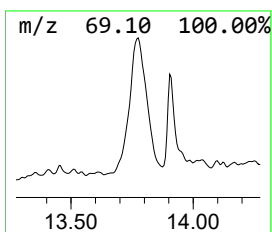
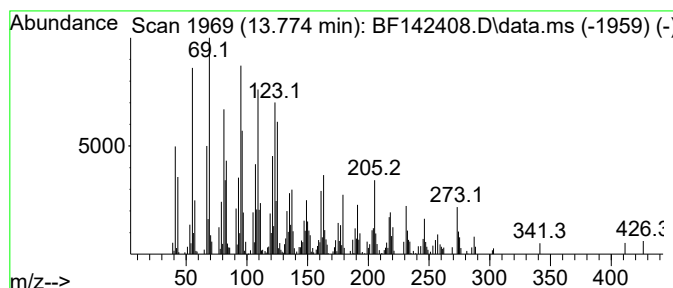
Instrument :
BNA_F
ClientSampleId :
TP-5

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 5-Bromo-4-oxo-4,5,6,7-tetra... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.774	13.19 ng	642137	Chrysene-d12	14.063	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Bromo-4-oxo-4,5,6,7-tetrahydro...	216	C6H5BrN2O2	300574-36-1	68
2	2,4a,8,8-Tetramethyldecahydrocyc...	206	C15H26	074022-04-1	64
3	Friedelan-3-one	426	C30H50O	000559-74-0	62
4	(-)-Neoclovene-(II), dihydro-	206	C15H26	1000152-83-6	45
5	1,1,6-trimethyl-3-methylene-2-(3...	452	C33H56	1000373-94-5	41



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142408.D
Acq On : 15 May 2025 23:01
Operator : RC/JU
Sample : Q1982-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-5

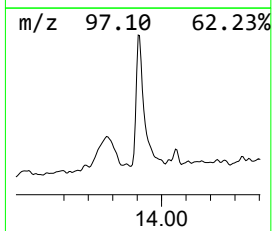
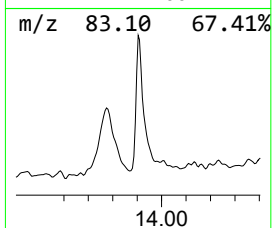
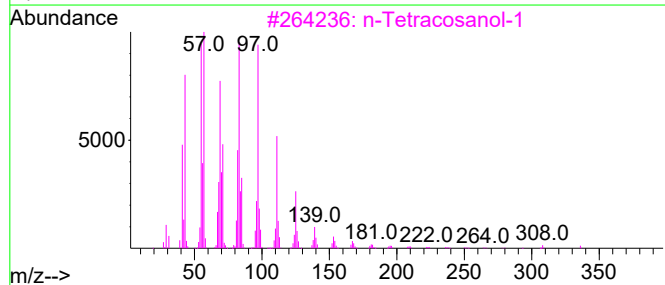
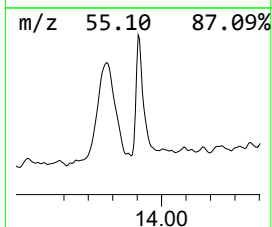
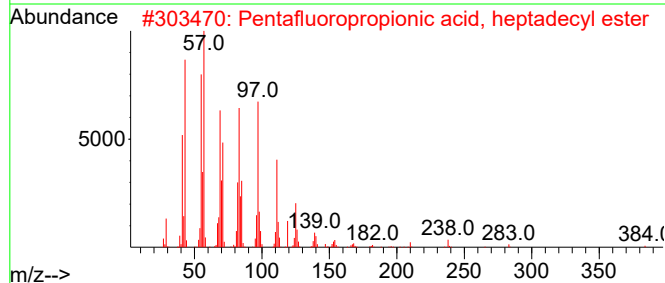
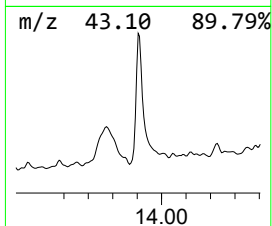
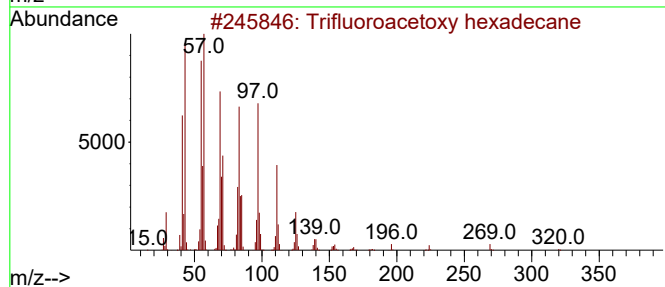
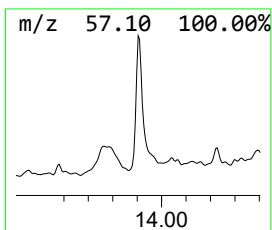
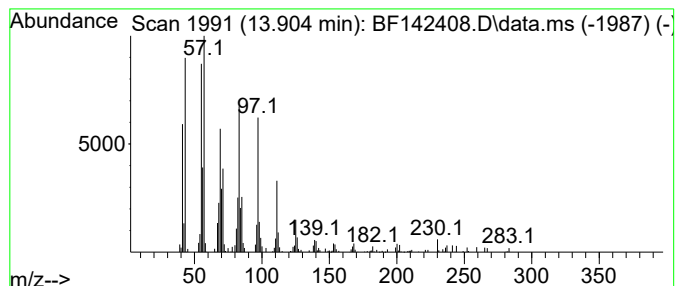
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Trifluoroacetoxy hexadecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	3.17 ng	154260	Chrysene-d12	14.063

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	95
2			Pentafluoropropionic acid, hepta...	402	C20H35F5O2	959218-78-1	94
3			n-Tetracosanol-1	354	C24H50O	000506-51-4	93
4			1-Octadecene	252	C18H36	000112-88-9	93
5			1-Heneicosanol	312	C21H44O	015594-90-8	93



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142408.D
Acq On : 15 May 2025 23:01
Operator : RC/JU
Sample : Q1982-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-5

A
B
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H
I
J
K

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-...	5.116	6.5	ng	290764	1	6.898	890517	20.0
Benzophenone	10.645	2.6	ng	172991	3	9.939	1308650	20.0
n-Hexadecanoic ...	11.945	5.1	ng	302276	4	11.422	1182170	20.0
5-Bromo-4-oxo-4...	13.774	13.2	ng	642137	5	14.063	973350	20.0
Trifluoroacetox...	13.904	3.2	ng	154260	5	14.063	973350	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142399.D
Acq On : 15 May 2025 18:40
Operator : RC/JU
Sample : Q1982-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-6

A
B
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D
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F
G
H
I
J
K

Quant Time: May 16 01:07:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	163201	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	621833	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	334642	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	592254	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	358051	20.000	ng	0.00
86) Perylene-d12	15.551	264	361581	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	810547	84.783	ng	0.00
7) Phenol-d6	6.516	99	989640	84.165	ng	0.00
23) Nitrobenzene-d5	7.457	82	596626	58.515	ng	-0.01
42) 2,4,6-Tribromophenol	10.722	330	305587	94.582	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	1216752	51.845	ng	0.00
79) Terphenyl-d14	13.010	244	1196724	49.470	ng	0.00

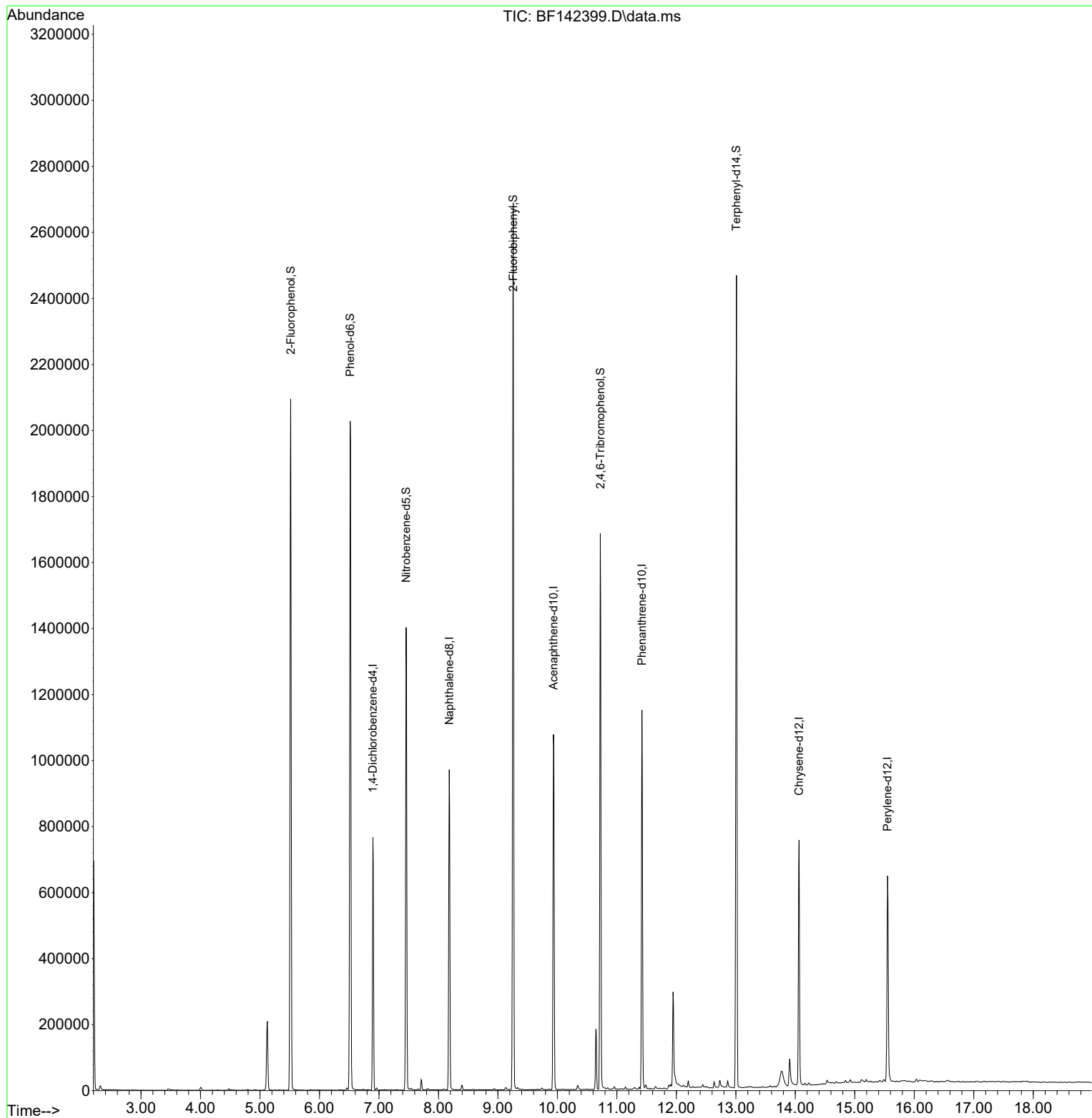
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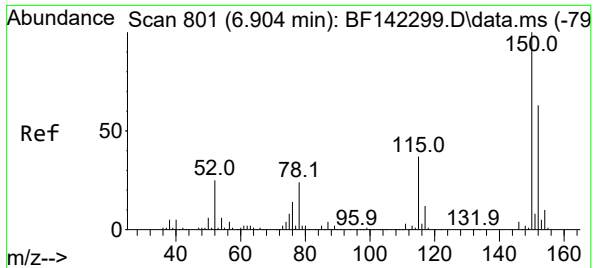
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142399.D
Acq On : 15 May 2025 18:40
Operator : RC/JU
Sample : Q1982-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-6

Quant Time: May 16 01:07:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration

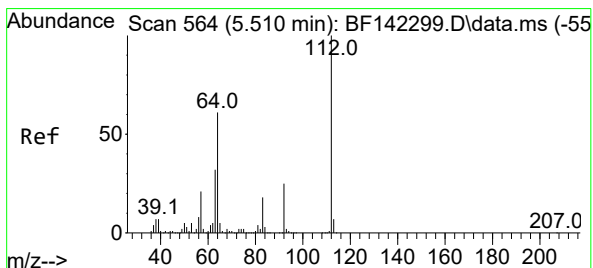
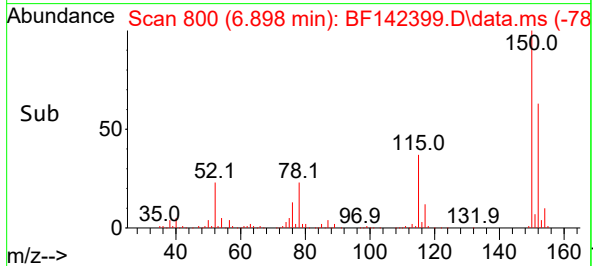
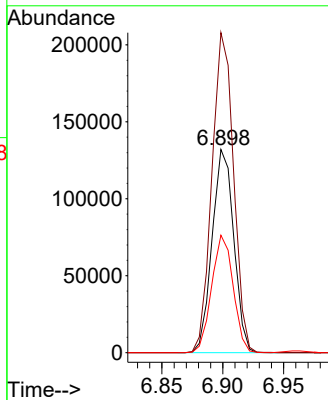
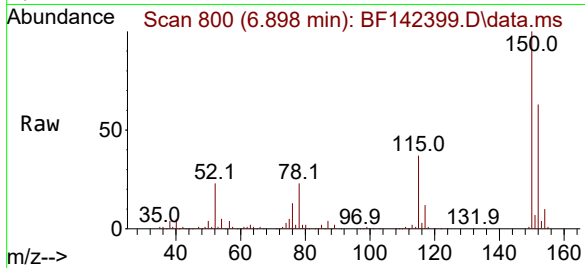




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 801
Delta R.T. -0.006 min
Lab File: BF142399.D
Acq: 15 May 2025 18:40

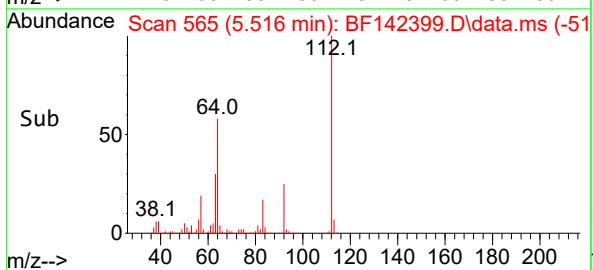
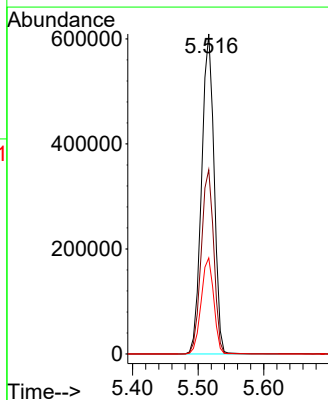
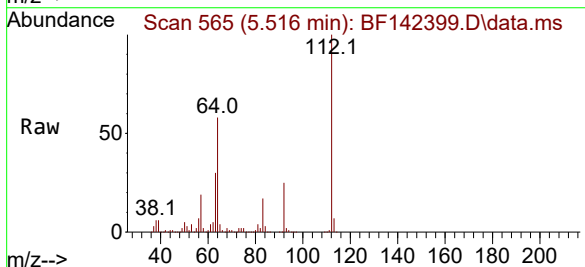
Instrument :
BNA_F
ClientSampleId :
TP-6

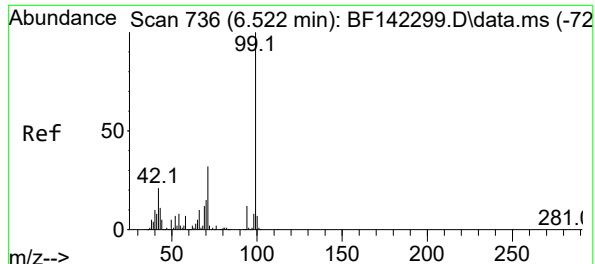
Tgt Ion:152 Resp: 163201
Ion Ratio Lower Upper
152 100
150 157.5 126.6 190.0
115 57.8 47.3 70.9



#5
2-Fluorophenol
Concen: 84.783 ng
RT: 5.516 min Scan# 565
Delta R.T. 0.006 min
Lab File: BF142399.D
Acq: 15 May 2025 18:40

Tgt Ion:112 Resp: 810547
Ion Ratio Lower Upper
112 100
64 57.6 48.9 73.3
63 30.0 25.6 38.4

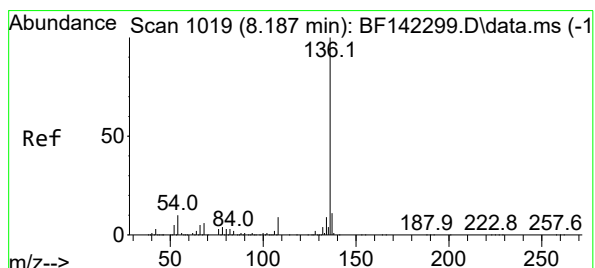
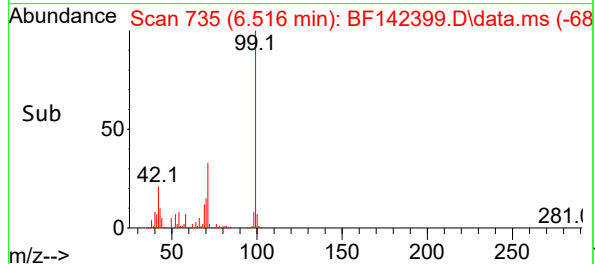
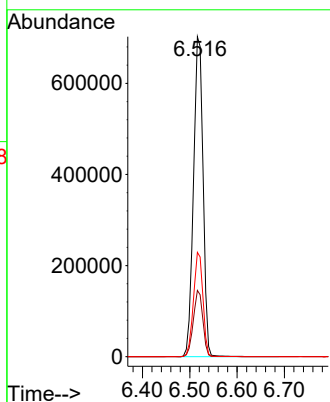
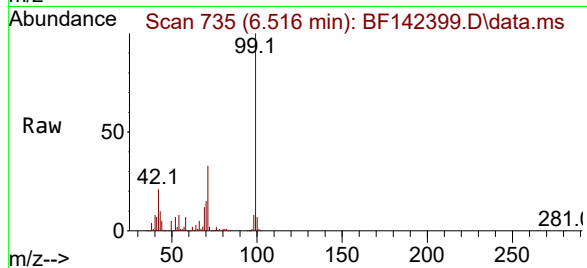




#7
Phenol-d6
Concen: 84.165 ng
RT: 6.516 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF142399.D
Acq: 15 May 2025 18:40

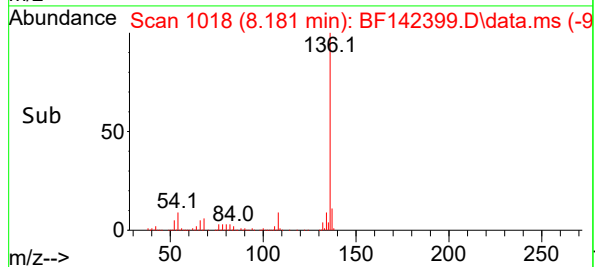
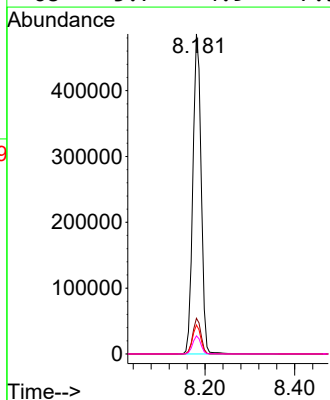
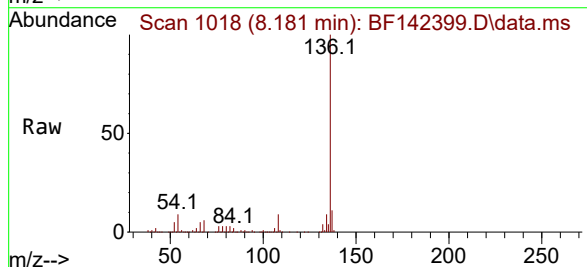
Instrument :
BNA_F
ClientSampleId :
TP-6

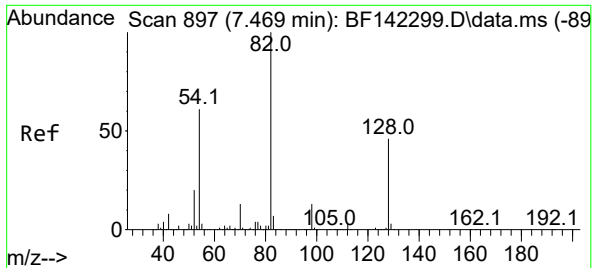
Tgt Ion: 99 Resp: 989640
Ion Ratio Lower Upper
99 100
42 20.7 17.0 25.4
71 32.6 25.8 38.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142399.D
Acq: 15 May 2025 18:40

Tgt Ion: 136 Resp: 621833
Ion Ratio Lower Upper
136 100
137 11.1 8.9 13.3
54 9.0 7.7 11.5
68 5.7 4.9 7.3





#23

Nitrobenzene-d5

Concen: 58.515 ng

RT: 7.457 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF142399.D

Acq: 15 May 2025 18:40

Instrument :

BNA_F

ClientSampleId :

TP-6

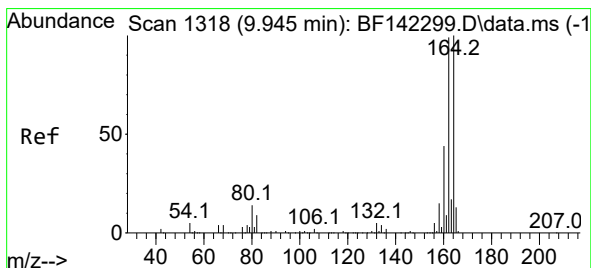
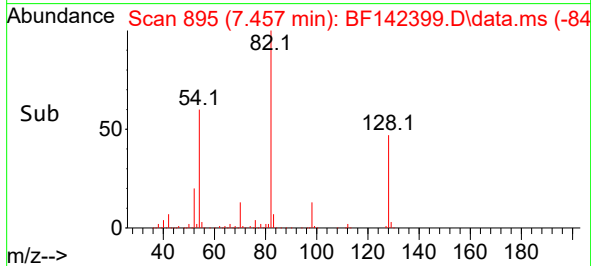
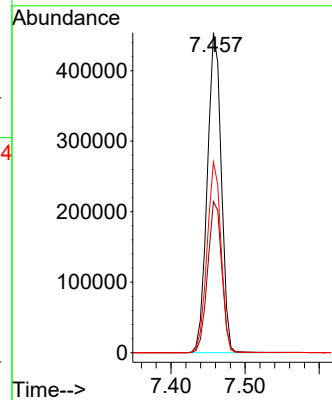
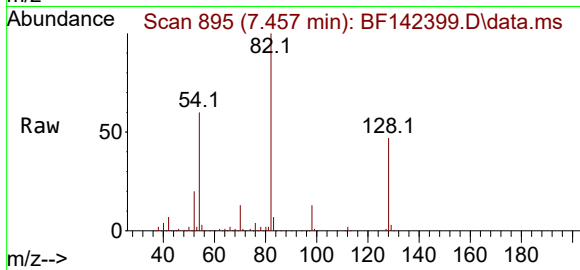
Tgt Ion: 82 Resp: 596626

Ion Ratio Lower Upper

82 100

128 47.2 37.0 55.6

54 59.6 48.6 73.0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.934 min Scan# 1316

Delta R.T. -0.011 min

Lab File: BF142399.D

Acq: 15 May 2025 18:40

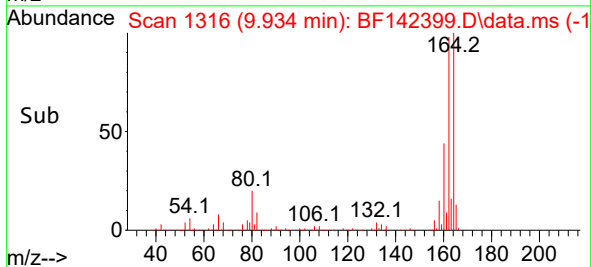
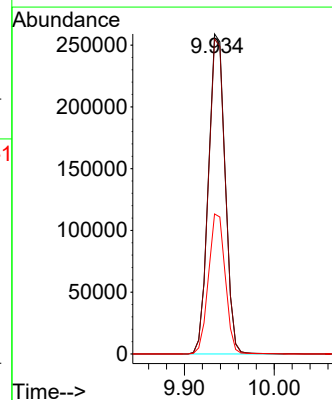
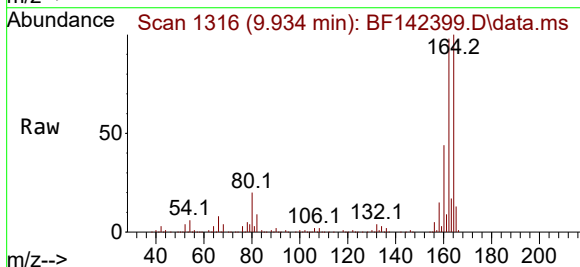
Tgt Ion:164 Resp: 334642

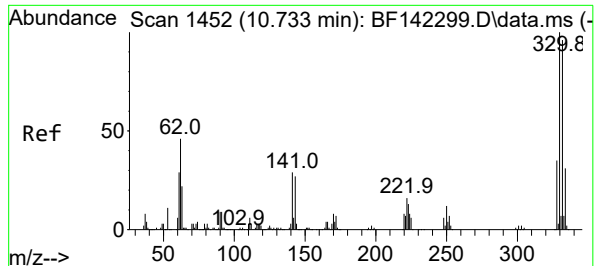
Ion Ratio Lower Upper

164 100

162 98.4 79.2 118.8

160 43.8 35.3 52.9





#42

2,4,6-Tribromophenol

Concen: 94.582 ng

RT: 10.722 min Scan# 1450

Delta R.T. -0.012 min

Lab File: BF142399.D

Acq: 15 May 2025 18:40

Instrument :

BNA_F

ClientSampleId :

TP-6

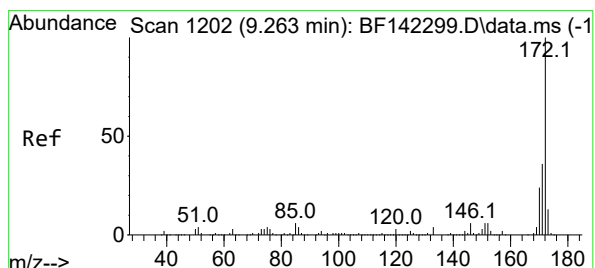
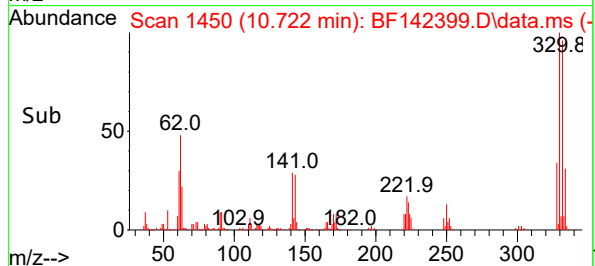
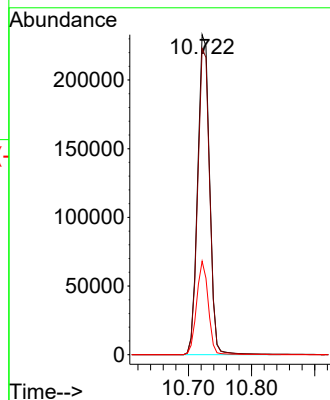
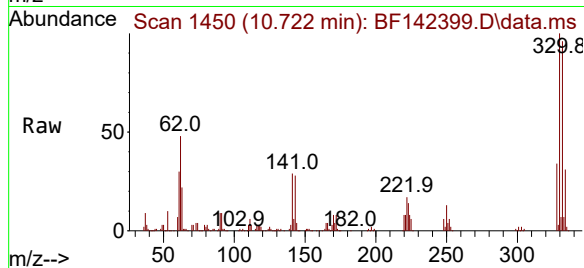
Tgt Ion:330 Resp: 305587

Ion Ratio Lower Upper

330 100

332 95.8 76.8 115.2

141 28.4 24.9 37.3



#45

2-Fluorobiphenyl

Concen: 51.845 ng

RT: 9.257 min Scan# 1201

Delta R.T. -0.006 min

Lab File: BF142399.D

Acq: 15 May 2025 18:40

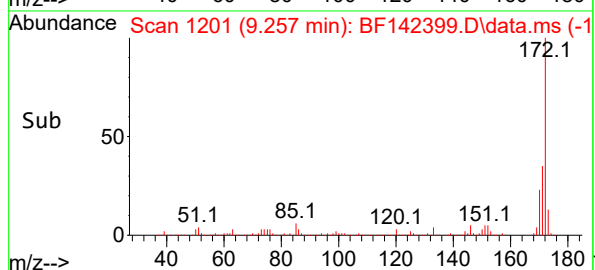
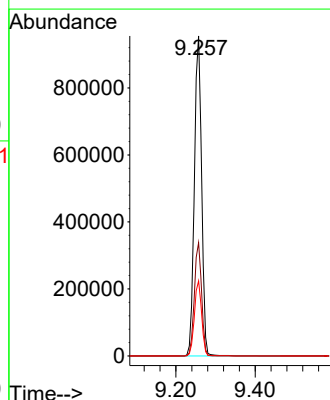
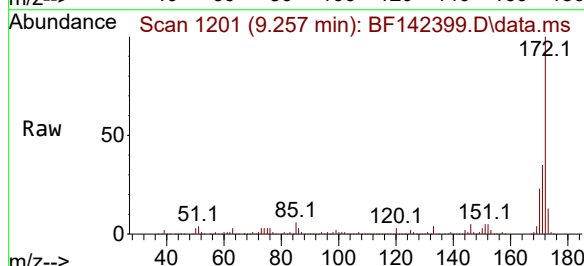
Tgt Ion:172 Resp: 1216752

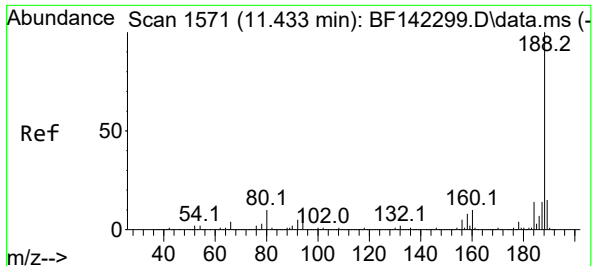
Ion Ratio Lower Upper

172 100

171 35.4 28.6 42.8

170 23.5 19.0 28.4

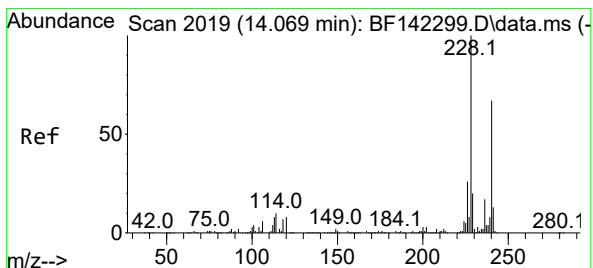
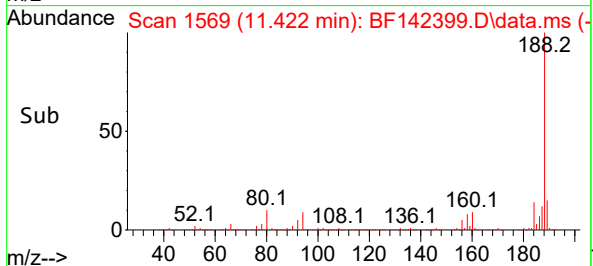
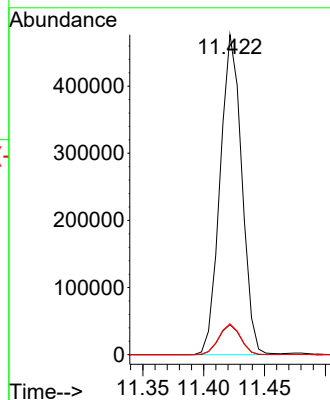
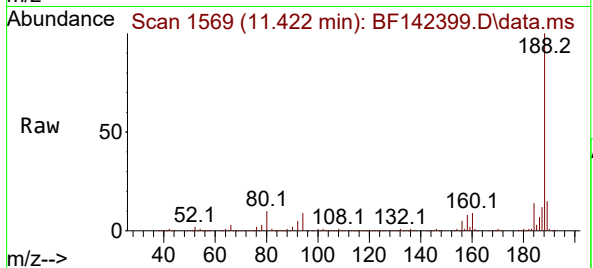




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1569
Delta R.T. -0.012 min
Lab File: BF142399.D
Acq: 15 May 2025 18:40

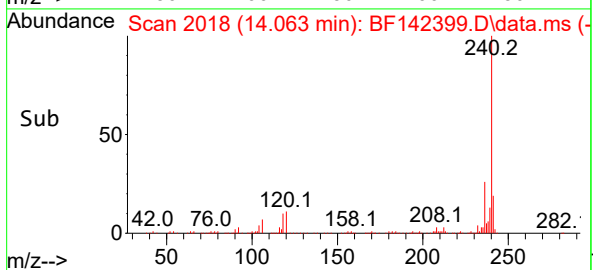
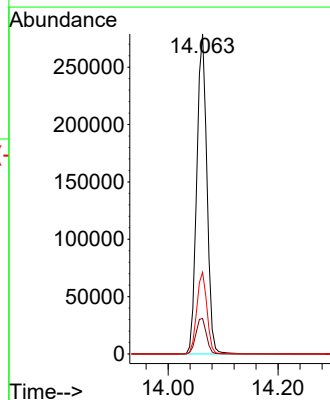
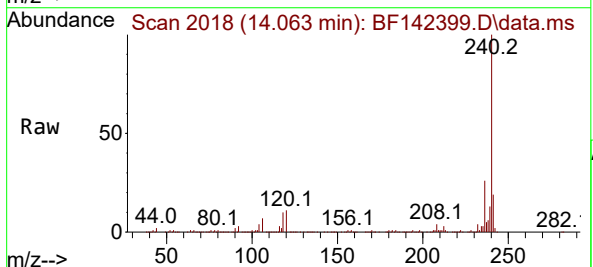
Instrument :
BNA_F
ClientSampleId :
TP-6

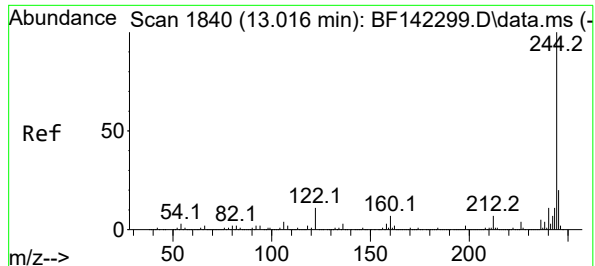
Tgt Ion:188 Resp: 592254
Ion Ratio Lower Upper
188 100
94 9.4 7.5 11.3
80 9.6 7.9 11.9



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.006 min
Lab File: BF142399.D
Acq: 15 May 2025 18:40

Tgt Ion:240 Resp: 358051
Ion Ratio Lower Upper
240 100
120 11.1 9.7 14.5
236 25.6 20.0 30.0





#79

Terphenyl-d14

Concen: 49.470 ng

RT: 13.010 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF142399.D

Acq: 15 May 2025 18:40

Instrument :

BNA_F

ClientSampleId :

TP-6

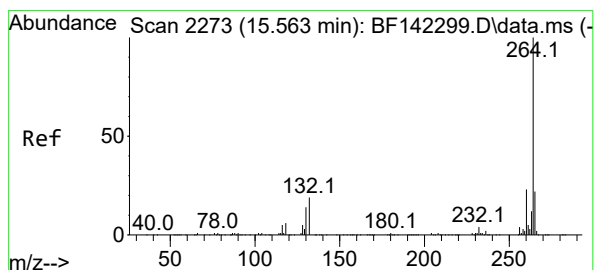
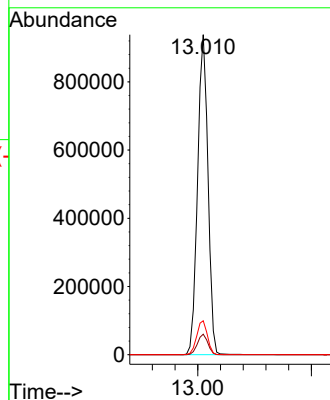
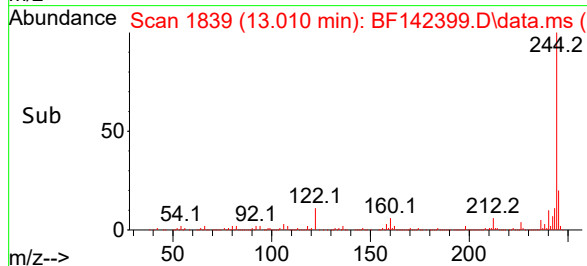
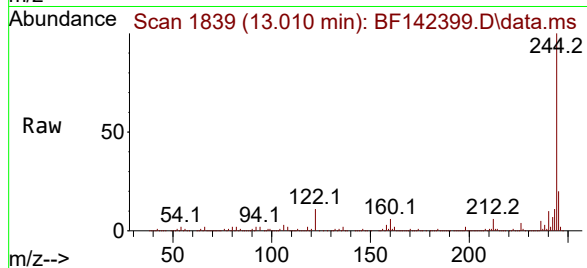
Tgt Ion:244 Resp: 1196724

Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.2

122 10.6 9.0 13.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 2271

Delta R.T. -0.012 min

Lab File: BF142399.D

Acq: 15 May 2025 18:40

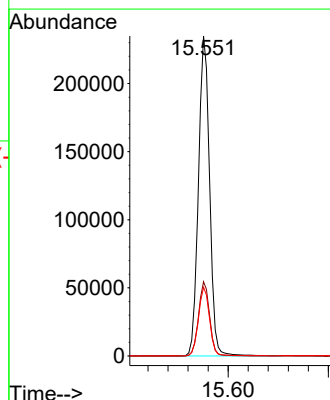
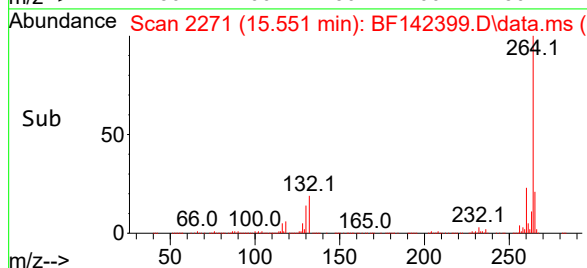
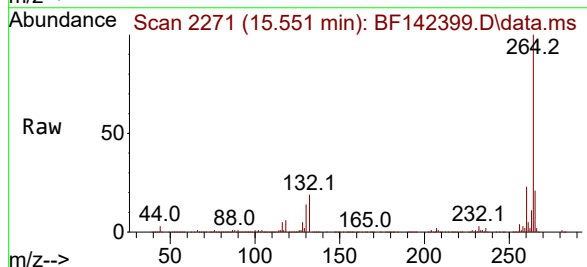
Tgt Ion:264 Resp: 361581

Ion Ratio Lower Upper

264 100

260 23.2 18.6 27.8

265 21.4 17.5 26.3



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
 Data File : BF142399.D
 Acq On : 15 May 2025 18:40
 Operator : RC/JU
 Sample : Q1982-06
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-6

A
B
C
D
E
F
G
H
I
J
K

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142399.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.122	489	498	507	rVB	208656	315972	9.26%	1.286%
2	5.516	558	565	570	rBV	2092791	2790000	81.73%	11.357%
3	6.516	729	735	741	rBV	2025507	2854738	83.63%	11.620%
4	6.898	795	800	805	rBV	765173	940308	27.55%	3.827%
5	7.457	889	895	900	rBV	1401462	1837044	53.82%	7.478%
6	7.710	934	938	950	rVB	31545	41024	1.20%	0.167%
7	8.181	1012	1018	1024	rBV	970038	1226186	35.92%	4.991%
8	9.257	1195	1201	1206	rBV	2686263	3413562	100.00%	13.895%
9	9.934	1311	1316	1326	rBV	1075782	1387881	40.66%	5.649%
10	10.645	1432	1437	1445	rBV	181174	233675	6.85%	0.951%
11	10.722	1445	1450	1461	rBV	1683625	2162380	63.35%	8.802%
12	11.422	1564	1569	1576	rBV	1147505	1436800	42.09%	5.848%
13	11.945	1653	1658	1671	rBV2	284533	430550	12.61%	1.753%
14	12.733	1787	1792	1799	rBV2	19910	34374	1.01%	0.140%
15	13.010	1833	1839	1844	rBV	2461012	3146367	92.17%	12.807%
16	13.769	1953	1968	1986	rBV9	47471	225222	6.60%	0.917%
17	13.904	1986	1991	2003	rBV	81437	153292	4.49%	0.624%
18	14.063	2012	2018	2031	rVB	741424	979849	28.70%	3.988%
19	15.551	2265	2271	2284	rVB	622422	957969	28.06%	3.899%

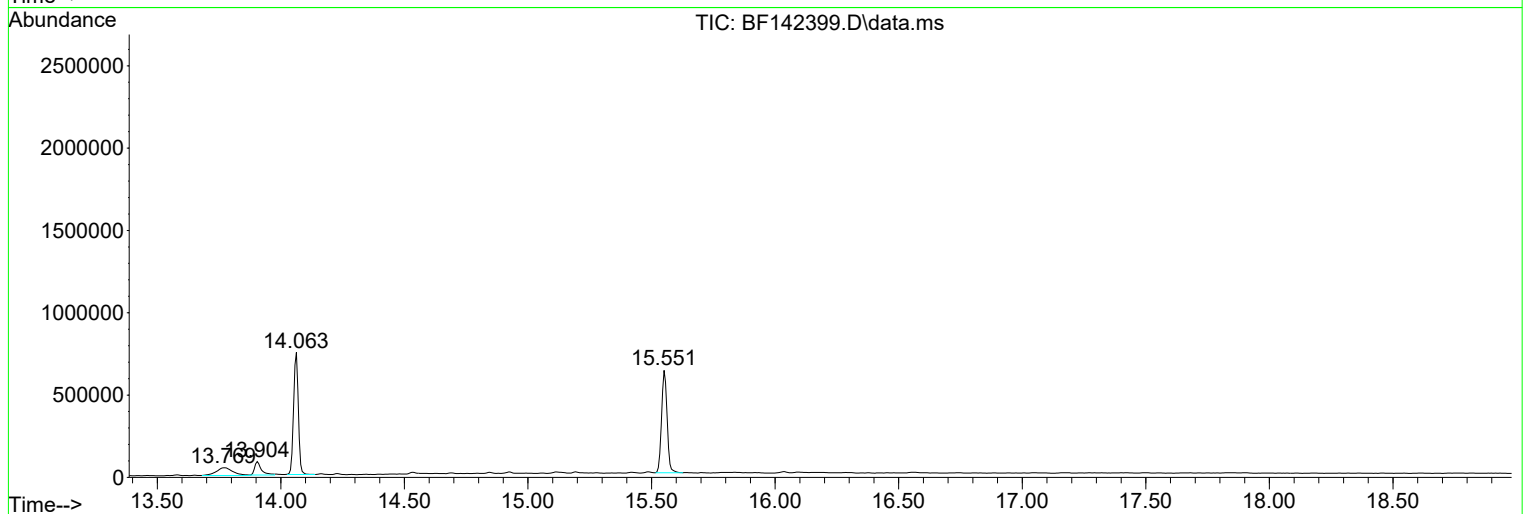
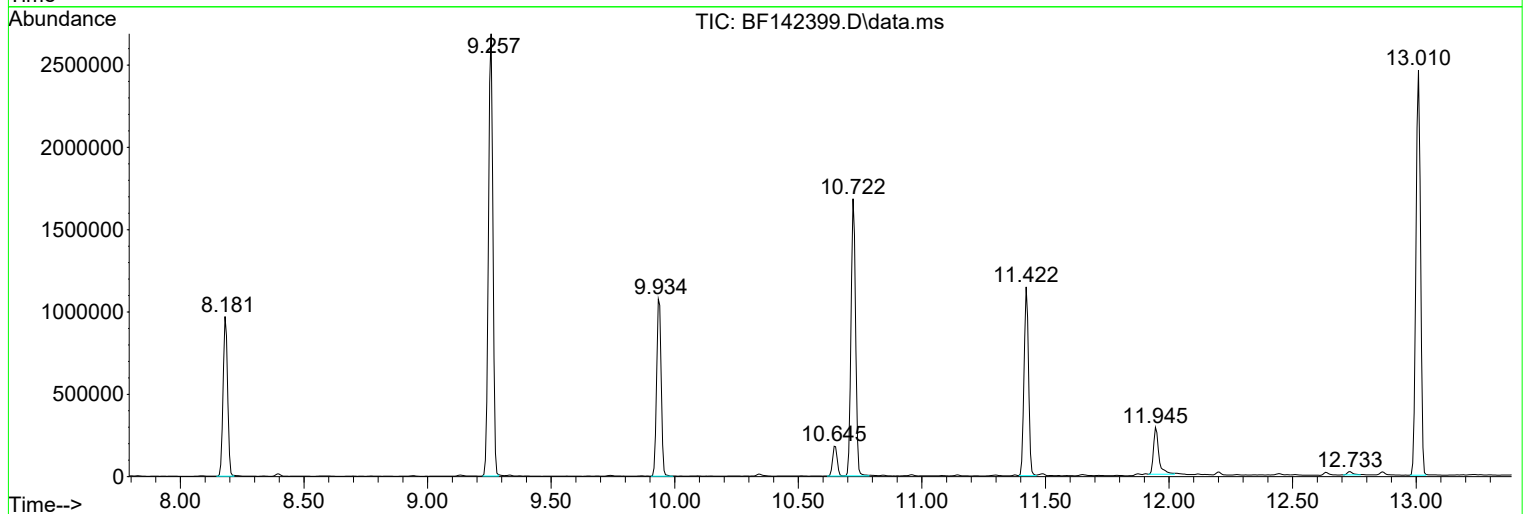
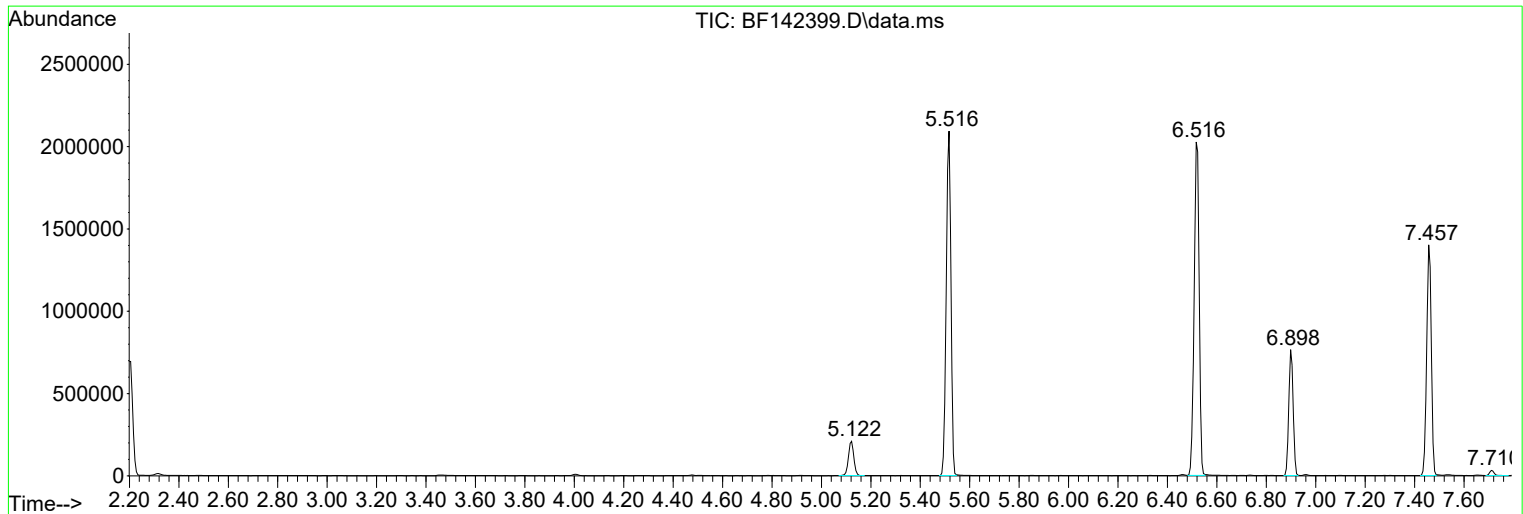
Sum of corrected areas: 24567193

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142399.D
Acq On : 15 May 2025 18:40
Operator : RC/JU
Sample : Q1982-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-6

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.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\BF051525\
Data File : BF142399.D
Acq On : 15 May 2025 18:40
Operator : RC/JU
Sample : Q1982-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-6

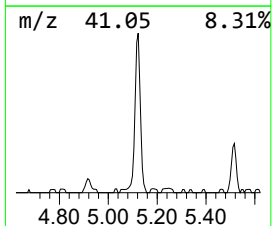
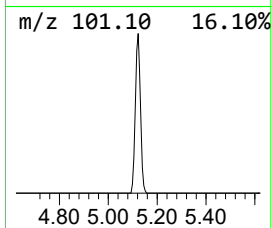
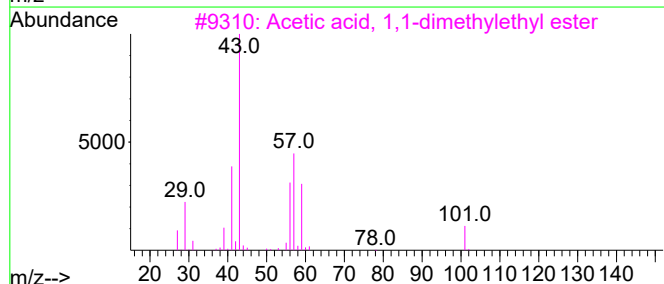
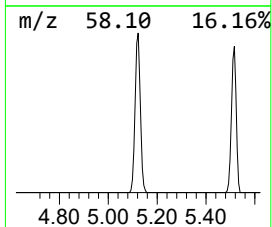
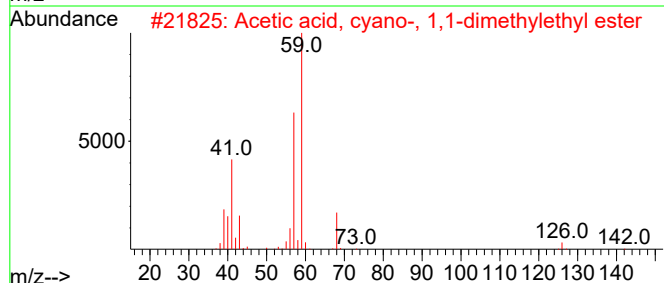
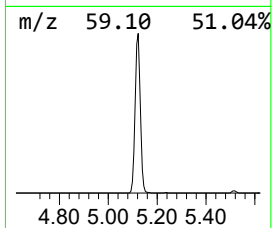
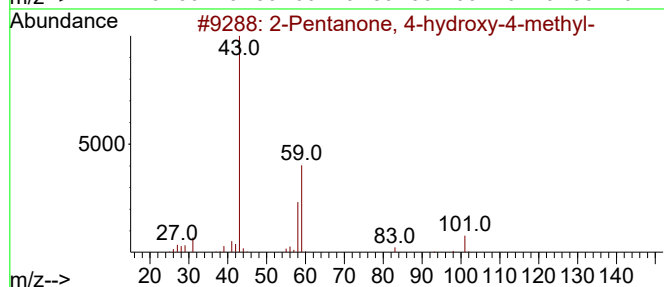
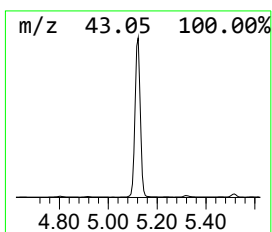
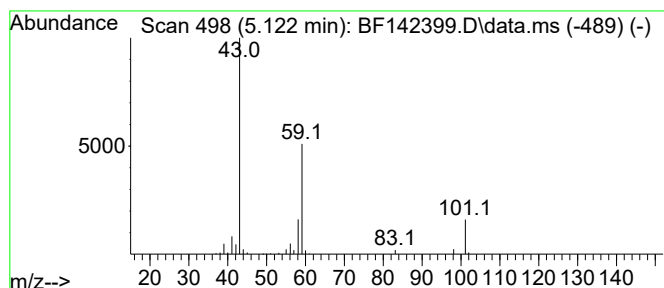
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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.
5.122	6.72 ng	315972	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	64	
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	37	
3	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	28	
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	27	
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12	



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142399.D
Acq On : 15 May 2025 18:40
Operator : RC/JU
Sample : Q1982-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-6

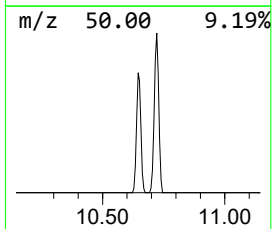
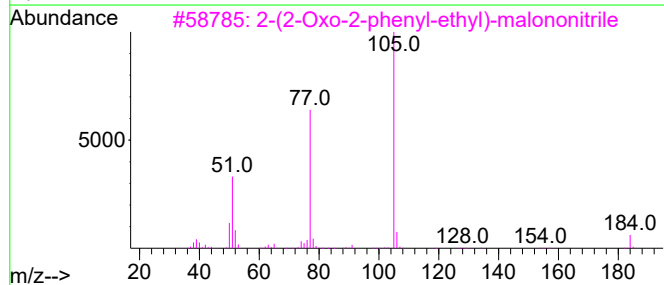
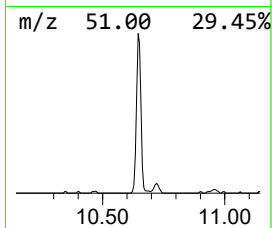
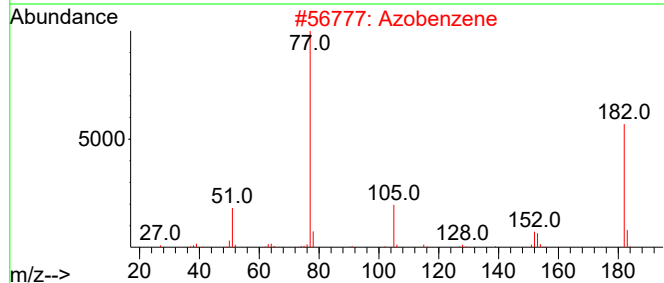
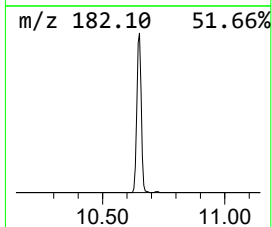
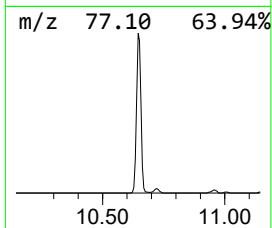
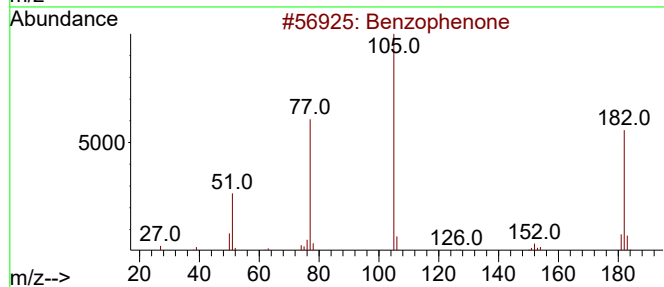
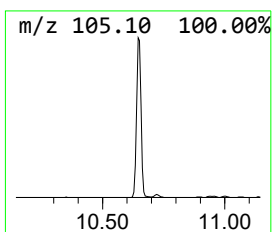
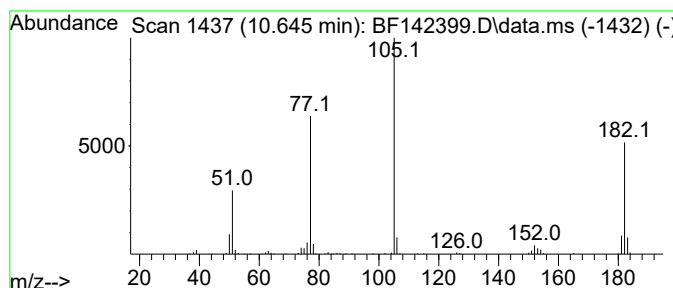
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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	3.37 ng	233675	Acenaphthene-d10	9.934

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Azobenzene	182	C12H10N2	000103-33-3	58
3			2-(2-Oxo-2-phenyl-ethyl)-malonon...	184	C11H8N2O	1000296-76-9	50
4			N-Methylbenzamide, N-trifluoroac...	231	C10H8F3NO2	1000446-91-5	50
5			2-Phenyl-4-ethylidene-2-oxazolin...	187	C11H9NO2	037791-41-6	50



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142399.D
Acq On : 15 May 2025 18:40
Operator : RC/JU
Sample : Q1982-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-6

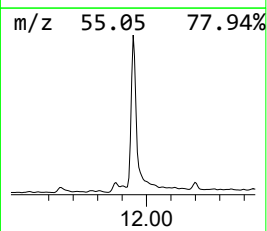
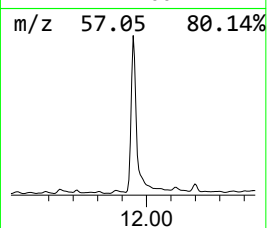
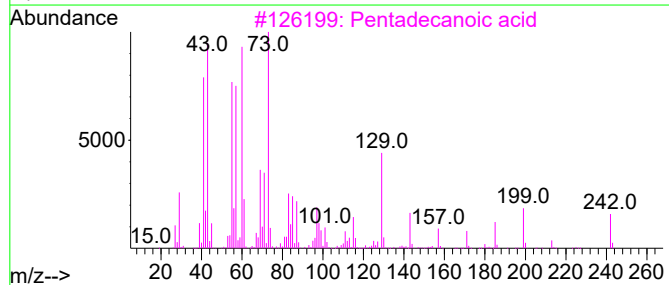
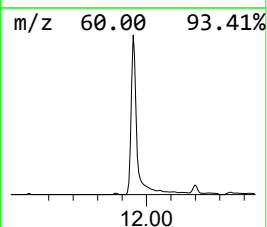
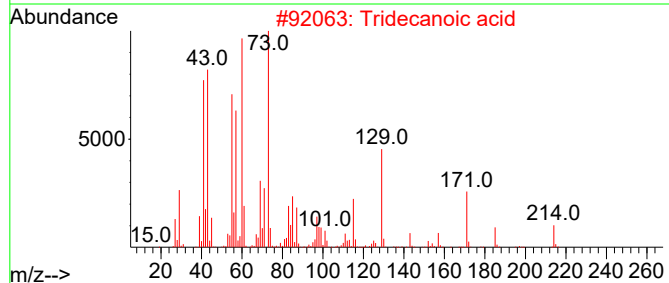
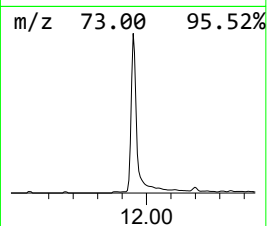
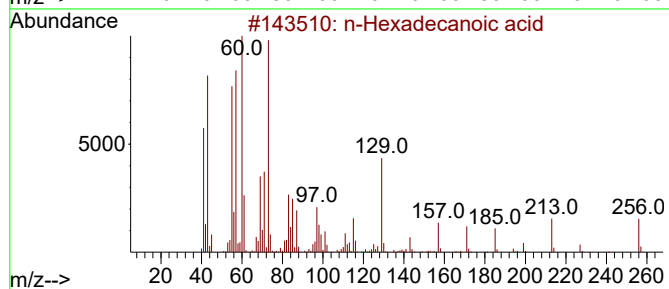
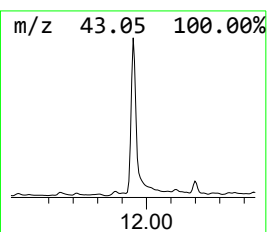
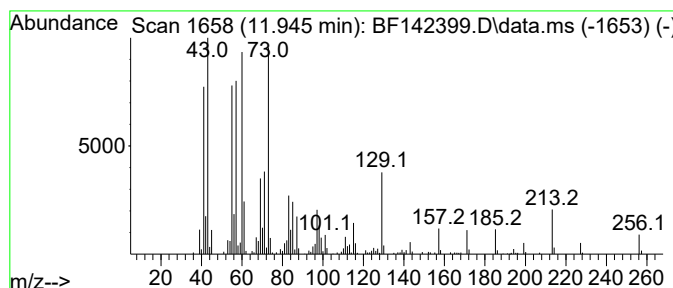
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	5.99 ng	430550	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	87
4		Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5		Undecanoic acid	186	C11H22O2	000112-37-8	64



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142399.D
Acq On : 15 May 2025 18:40
Operator : RC/JU
Sample : Q1982-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

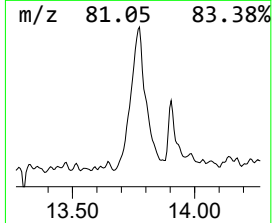
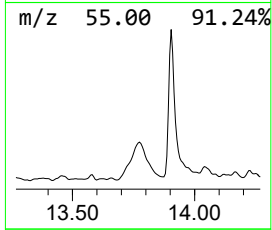
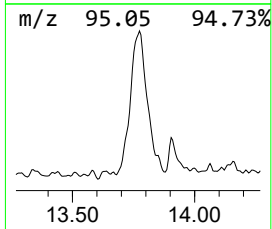
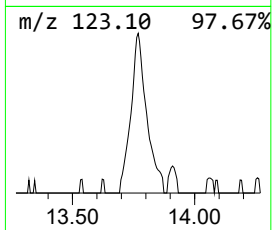
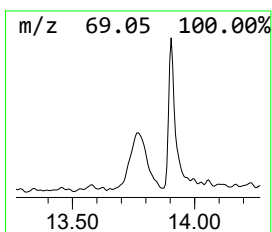
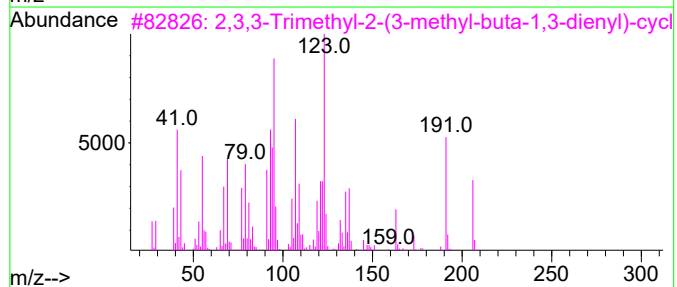
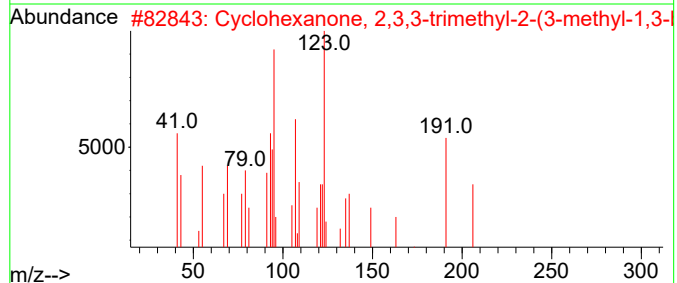
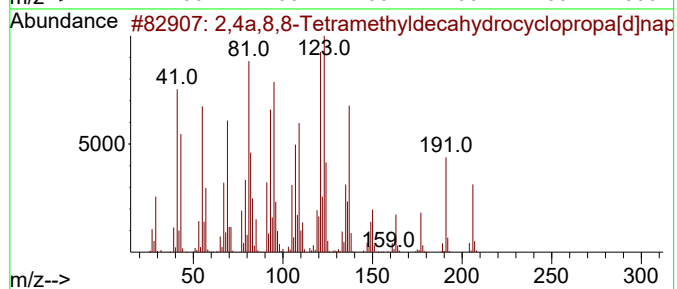
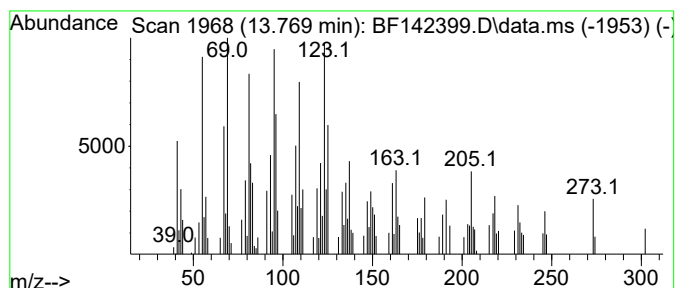
Instrument :
BNA_F
ClientSampleId :
TP-6

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 2,4a,8,8-Tetramethyldecahyd... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.769	4.60 ng	225222	Chrysene-d12	14.063	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4a,8,8-Tetramethyldecahydrocyc...	206	C15H26	074022-04-1	70
2	Cyclohexanone, 2,3,3-trimethyl-2...	206	C14H22O	069296-90-8	64
3	2,3,3-Trimethyl-2-(3-methyl-buta...	206	C14H22O	1000193-60-6	50
4	Silane, monochloride, methylvinyl...	218	C10H19ClOSi	1000421-06-3	50
5	6.beta.Bicyclo[4.3.0]nonane, 5.b...	332	C15H25I	1000195-85-9	49



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142399.D
Acq On : 15 May 2025 18:40
Operator : RC/JU
Sample : Q1982-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-6

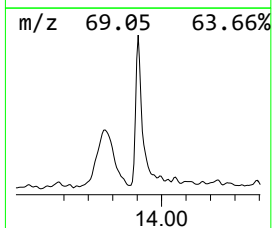
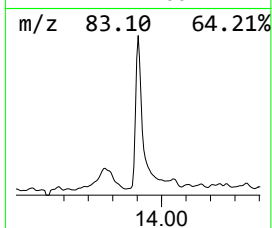
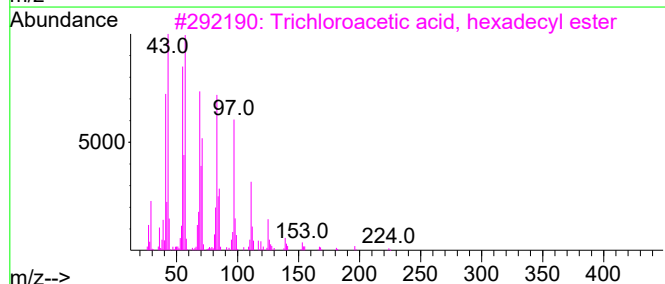
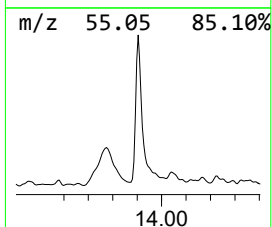
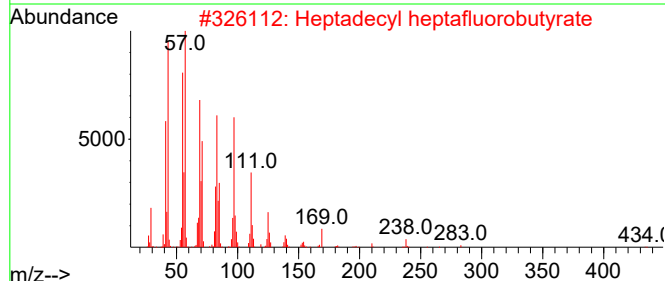
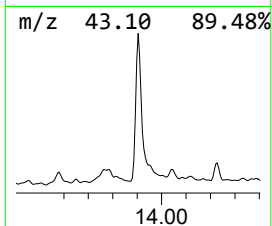
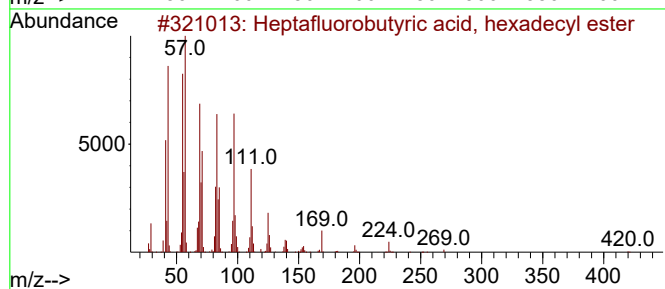
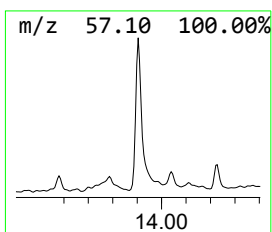
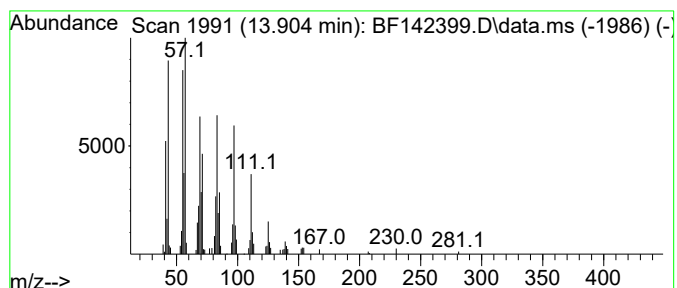
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Heptafluorobutyric acid, he... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	3.13 ng	153292	Chrysene-d12	14.063

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptafluorobutyric acid, hexadec...	438	C20H33F7O2	006385-15-5	95
2			Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	95
3			Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	95
4			Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	95
5			Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	95



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142399.D
Acq On : 15 May 2025 18:40
Operator : RC/JU
Sample : Q1982-06
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-6

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-...	5.122	6.7	ng	315972	1	6.898	940308	20.0
Benzophenone	10.645	3.4	ng	233675	3	9.934	1387880	20.0
n-Hexadecanoic ...	11.945	6.0	ng	430550	4	11.422	1436800	20.0
2,4a,8,8-Tetram...	13.769	4.6	ng	225222	5	14.063	979849	20.0
Heptafluorobuty...	13.904	3.1	ng	153292	5	14.063	979849	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142406.D
Acq On : 15 May 2025 22:04
Operator : RC/JU
Sample : Q1982-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-8

A
B
C
D
E
F
G
H
I
J
K

Quant Time: May 16 01:10:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration

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

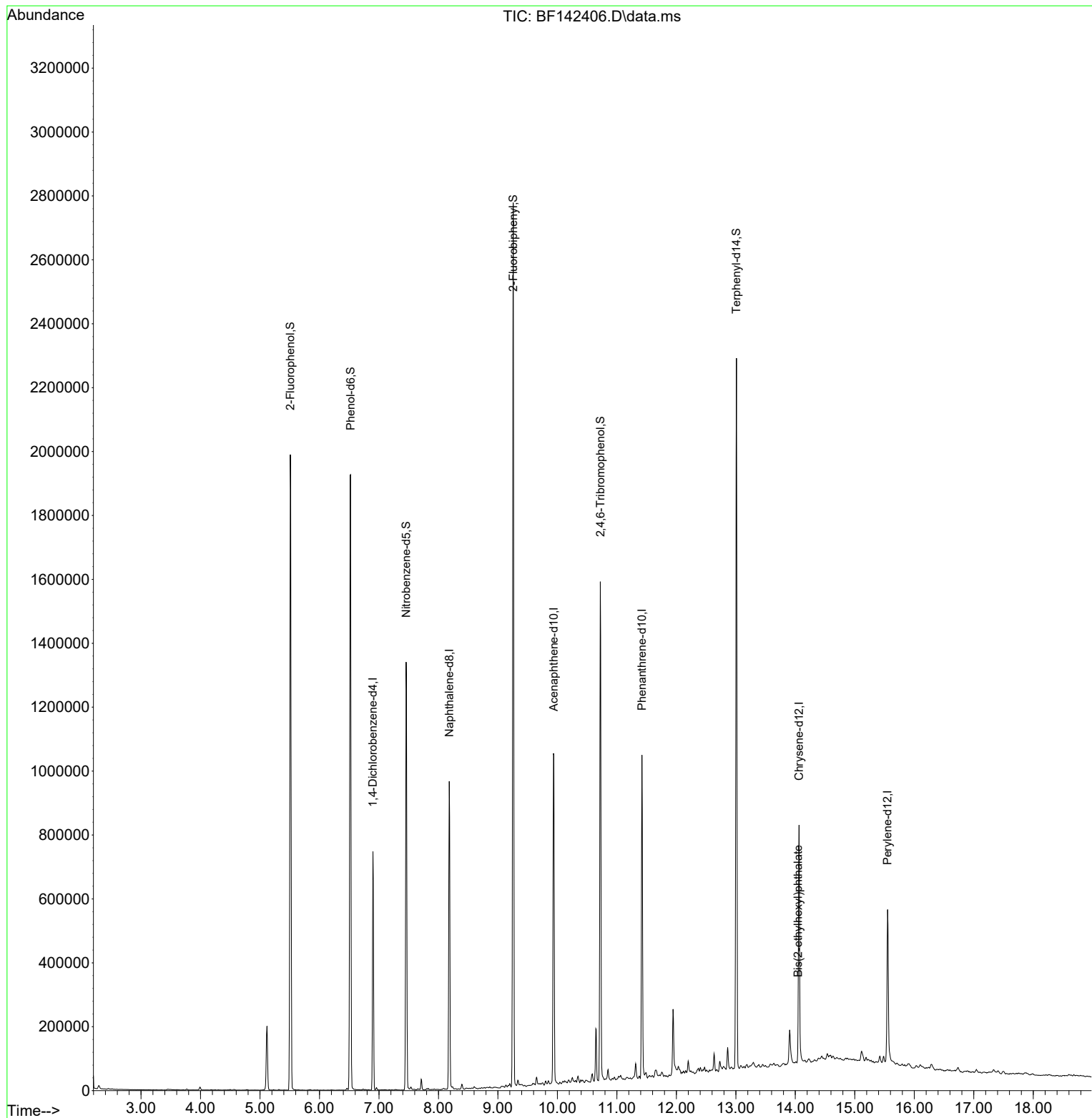
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	160071	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	605054	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	320606	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	518248	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	355689	20.000	ng	0.00
86) Perylene-d12	15.551	264	278675	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	782072	83.404	ng	0.00
7) Phenol-d6	6.522	99	949734	82.350	ng	0.00
23) Nitrobenzene-d5	7.457	82	564669	56.916	ng	-0.01
42) 2,4,6-Tribromophenol	10.722	330	283820	91.691	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	1233046	54.839	ng	0.00
79) Terphenyl-d14	13.010	244	1076746	44.806	ng	0.00
Target Compounds						Qvalue
84) Bis(2-ethylhexyl)phtha...	14.045	149	1802	4.374	ng	# 85

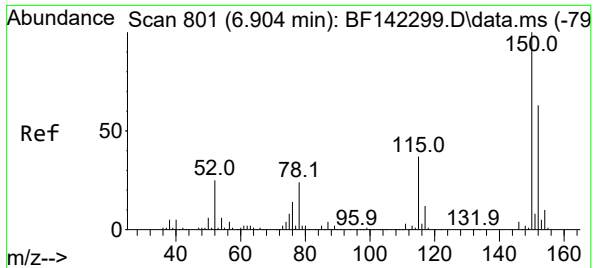
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142406.D
Acq On : 15 May 2025 22:04
Operator : RC/JU
Sample : Q1982-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-8

Quant Time: May 16 01:10:16 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration

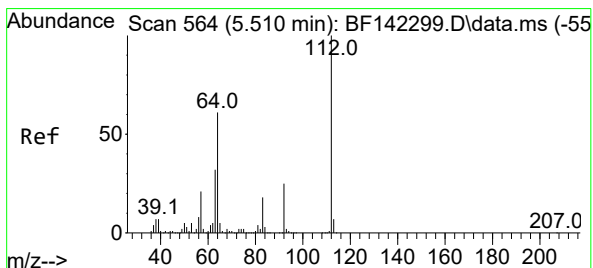
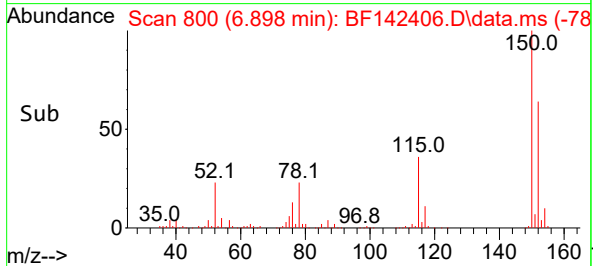
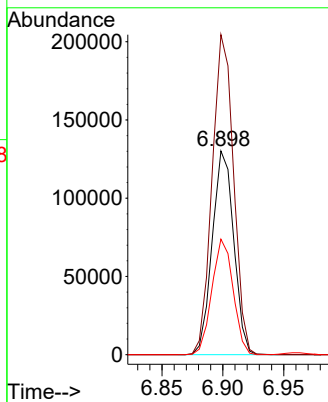
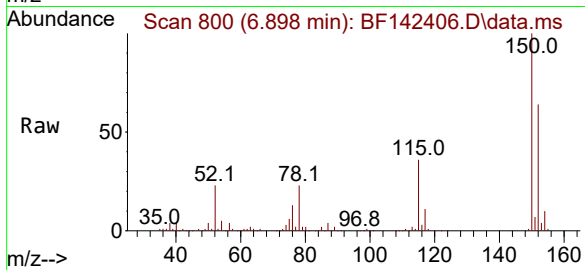




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 801
Delta R.T. -0.006 min
Lab File: BF142406.D
Acq: 15 May 2025 22:04

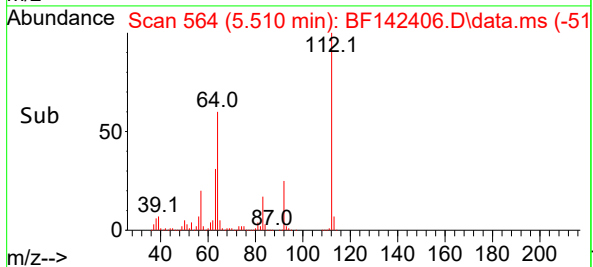
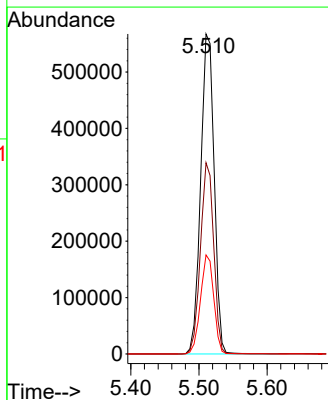
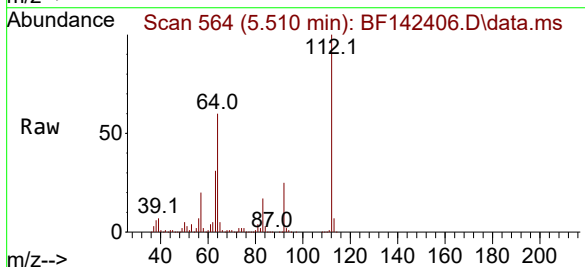
Instrument :
BNA_F
ClientSampleId :
TP-8

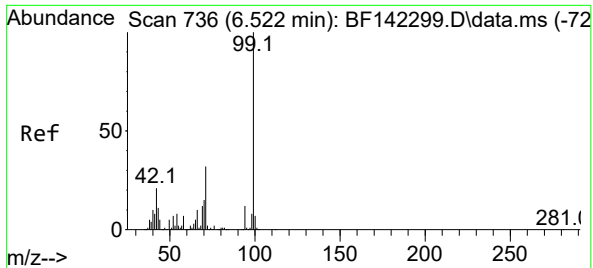
Tgt Ion:152 Resp: 160071
Ion Ratio Lower Upper
152 100
150 157.1 126.6 190.0
115 56.7 47.3 70.9



#5
2-Fluorophenol
Concen: 83.404 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.000 min
Lab File: BF142406.D
Acq: 15 May 2025 22:04

Tgt Ion:112 Resp: 782072
Ion Ratio Lower Upper
112 100
64 59.8 48.9 73.3
63 30.9 25.6 38.4

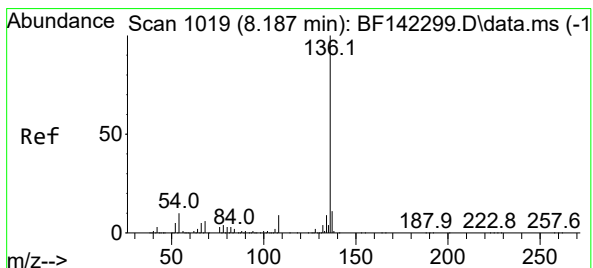
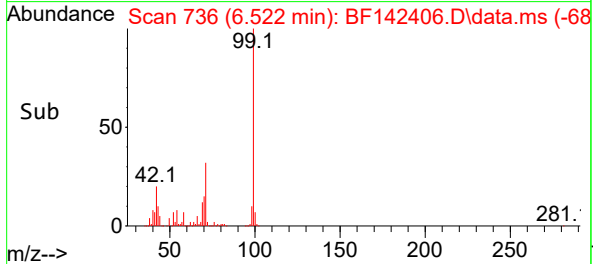
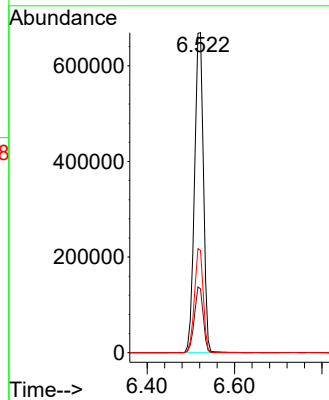
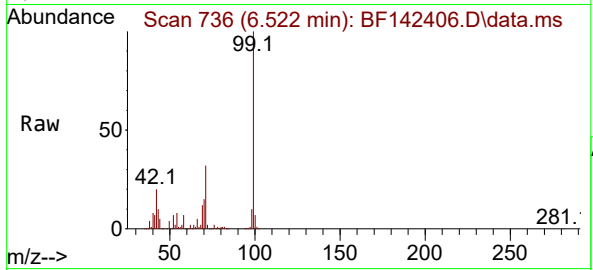




#7
Phenol-d6
Concen: 82.350 ng
RT: 6.522 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF142406.D
Acq: 15 May 2025 22:04

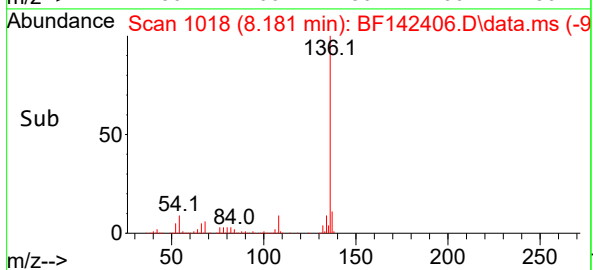
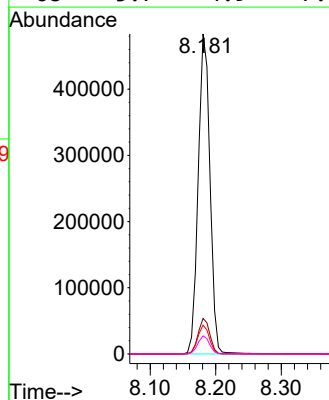
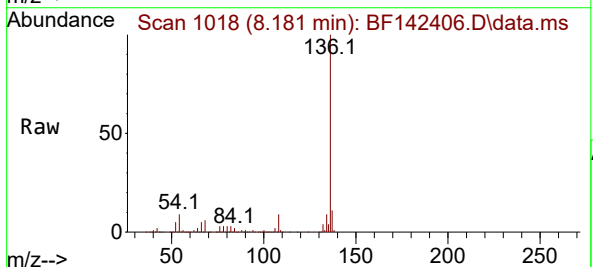
Instrument :
BNA_F
ClientSampleId :
TP-8

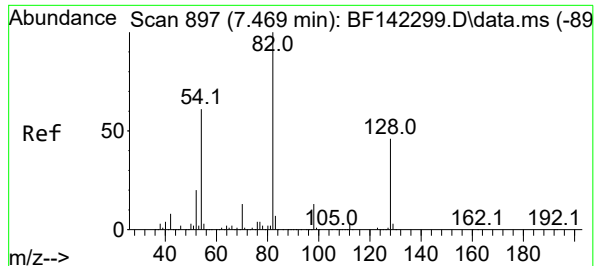
Tgt Ion: 99 Resp: 949734
Ion Ratio Lower Upper
99 100
42 19.9 17.0 25.4
71 31.9 25.8 38.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142406.D
Acq: 15 May 2025 22:04

Tgt Ion: 136 Resp: 605054
Ion Ratio Lower Upper
136 100
137 11.1 8.9 13.3
54 9.0 7.7 11.5
68 5.7 4.9 7.3





#23

Nitrobenzene-d5

Concen: 56.916 ng

RT: 7.457 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF142406.D

Acq: 15 May 2025 22:04

Instrument :

BNA_F

ClientSampleId :

TP-8

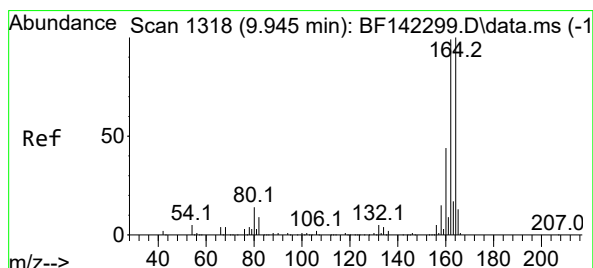
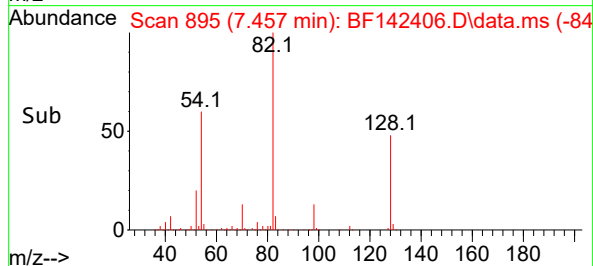
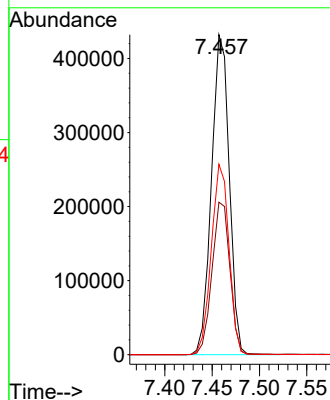
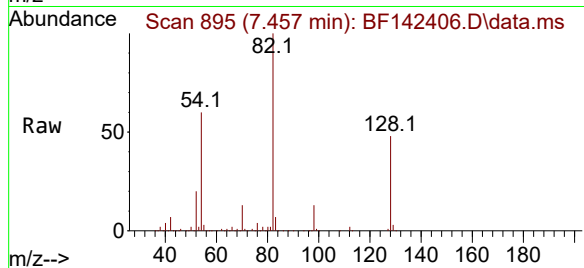
Tgt Ion: 82 Resp: 564669

Ion Ratio Lower Upper

82 100

128 47.6 37.0 55.6

54 59.5 48.6 73.0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.939 min Scan# 1317

Delta R.T. -0.006 min

Lab File: BF142406.D

Acq: 15 May 2025 22:04

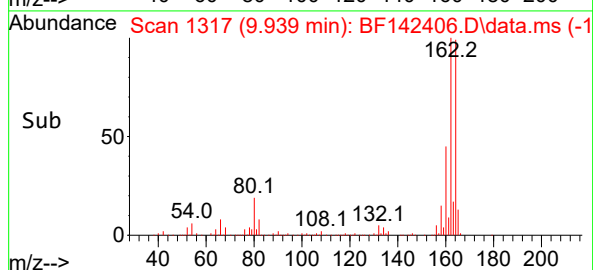
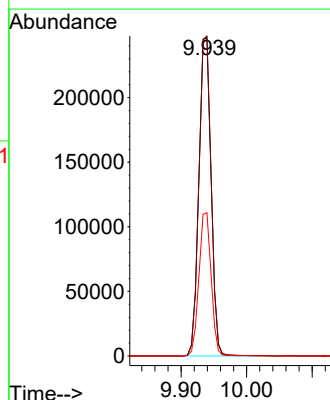
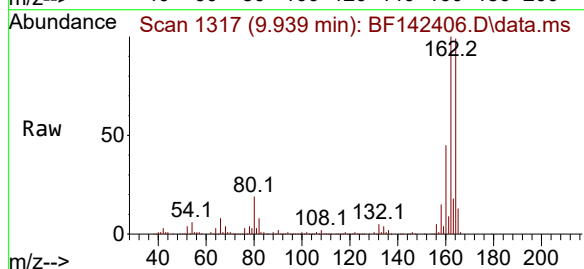
Tgt Ion:164 Resp: 320606

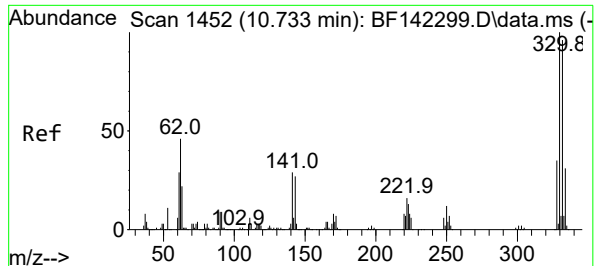
Ion Ratio Lower Upper

164 100

162 100.6 79.2 118.8

160 45.0 35.3 52.9





#42

2,4,6-Tribromophenol

Concen: 91.691 ng

RT: 10.722 min Scan# 1452

Delta R.T. -0.012 min

Lab File: BF142406.D

Acq: 15 May 2025 22:04

Instrument :

BNA_F

ClientSampleId :

TP-8

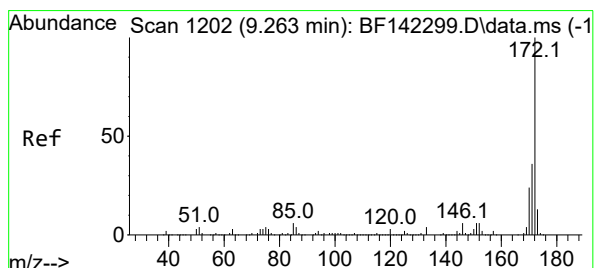
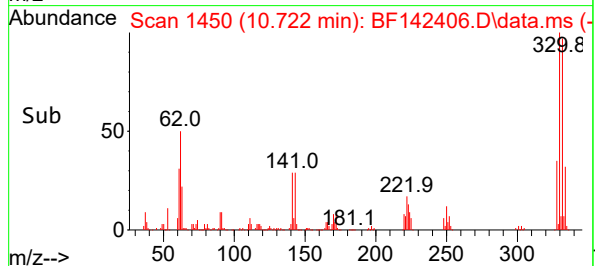
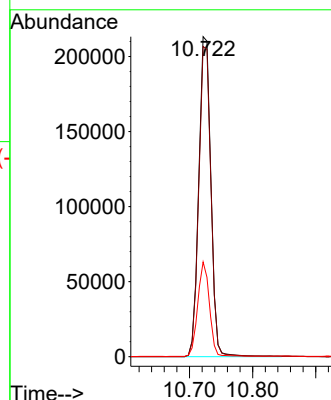
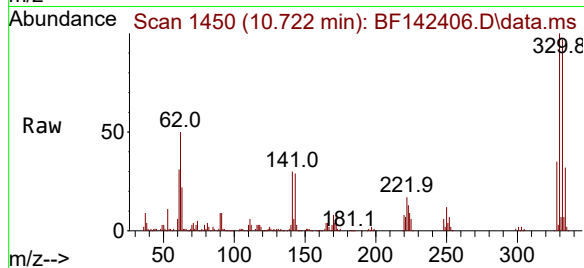
Tgt Ion:330 Resp: 283820

Ion Ratio Lower Upper

330 100

332 96.8 76.8 115.2

141 28.5 24.9 37.3



#45

2-Fluorobiphenyl

Concen: 54.839 ng

RT: 9.257 min Scan# 1201

Delta R.T. -0.006 min

Lab File: BF142406.D

Acq: 15 May 2025 22:04

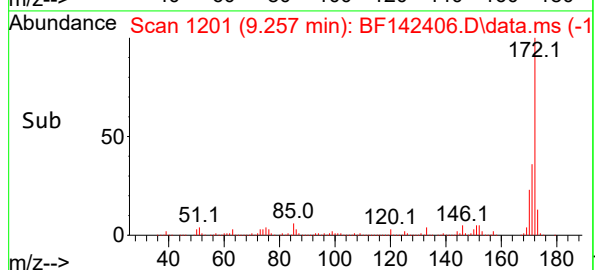
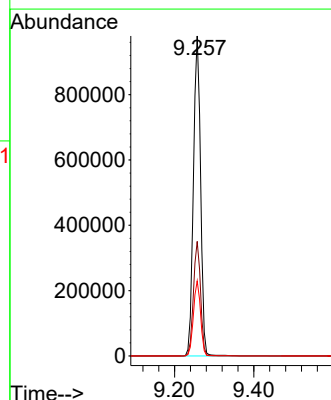
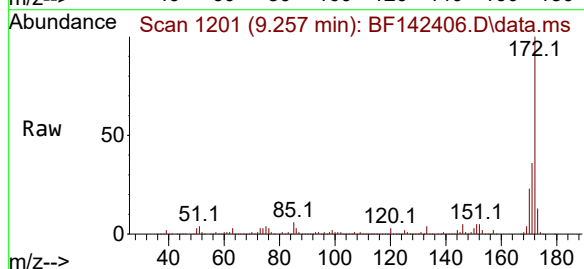
Tgt Ion:172 Resp: 1233046

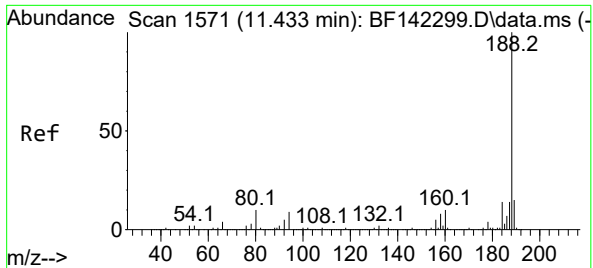
Ion Ratio Lower Upper

172 100

171 35.8 28.6 42.8

170 23.4 19.0 28.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.422 min Scan# 1569

Delta R.T. -0.012 min

Lab File: BF142406.D

Acq: 15 May 2025 22:04

Instrument :

BNA_F

ClientSampleId :

TP-8

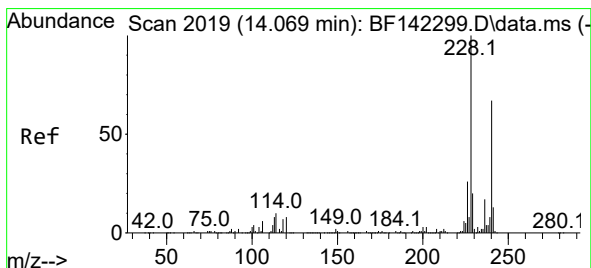
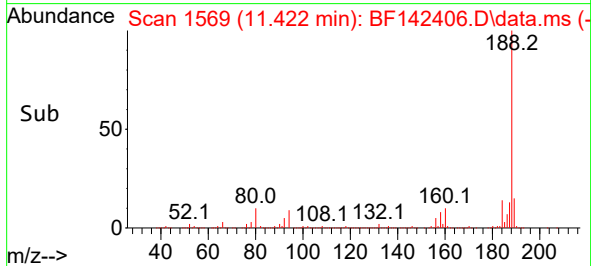
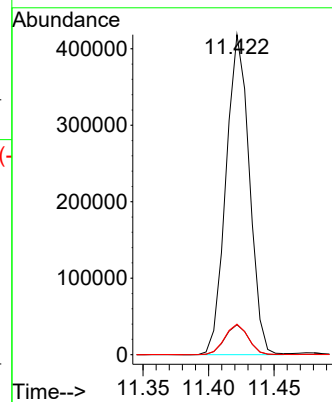
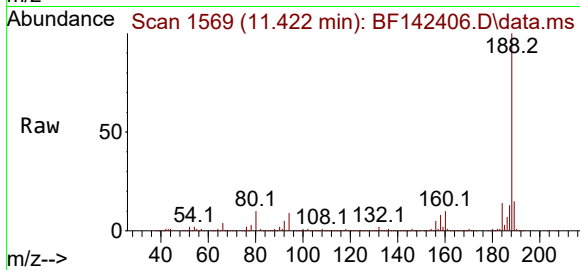
Tgt Ion:188 Resp: 518248

Ion Ratio Lower Upper

188 100

94 9.3 7.5 11.3

80 9.5 7.9 11.9



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.063 min Scan# 2018

Delta R.T. -0.006 min

Lab File: BF142406.D

Acq: 15 May 2025 22:04

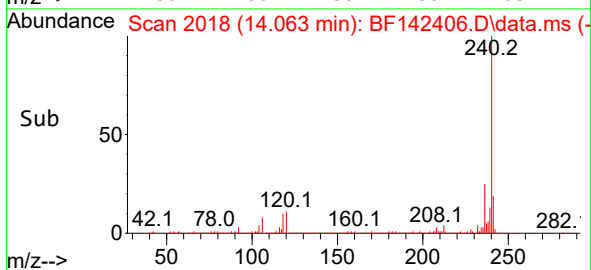
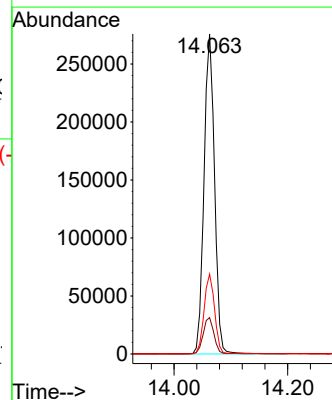
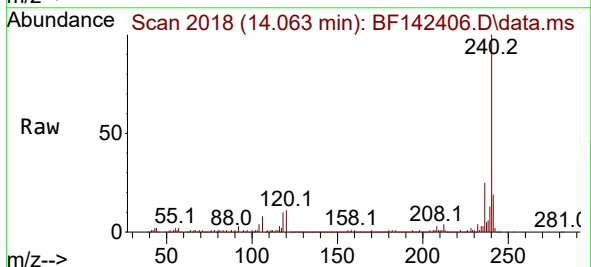
Tgt Ion:240 Resp: 355689

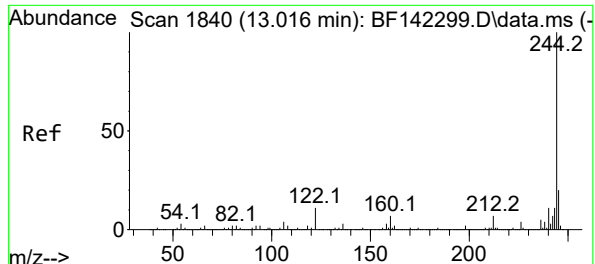
Ion Ratio Lower Upper

240 100

120 11.4 9.7 14.5

236 25.0 20.0 30.0





#79

Terphenyl-d14

Concen: 44.806 ng

RT: 13.010 min Scan# 1840

Delta R.T. -0.006 min

Lab File: BF142406.D

Acq: 15 May 2025 22:04

Instrument :

BNA_F

ClientSampleId :

TP-8

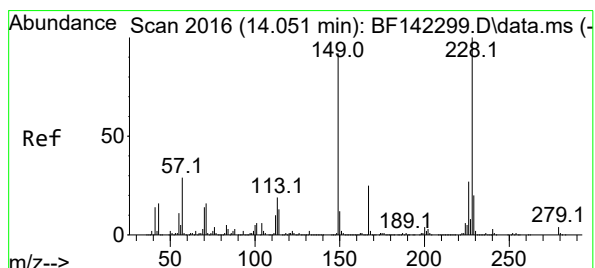
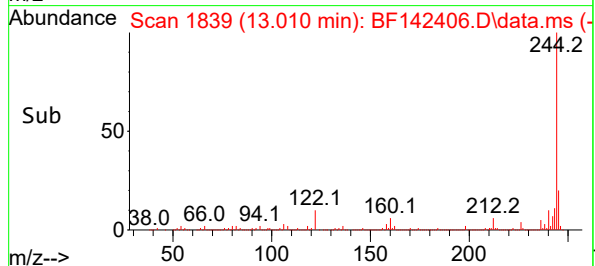
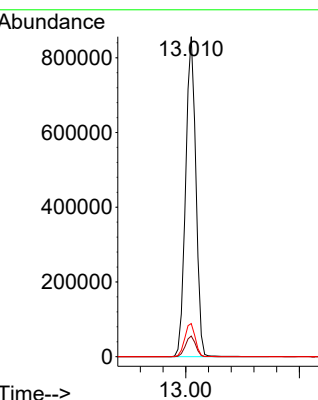
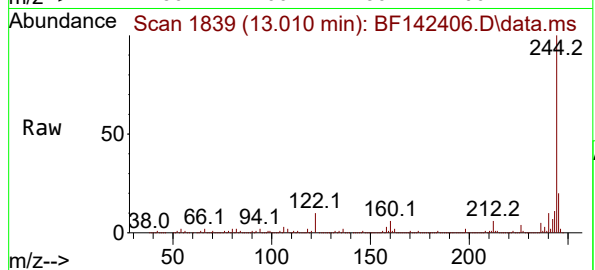
Tgt Ion:244 Resp: 1076746

Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.2

122 10.3 9.0 13.4



#84

Bis(2-ethylhexyl)phthalate

Concen: 4.374 ng

RT: 14.045 min Scan# 2015

Delta R.T. -0.006 min

Lab File: BF142406.D

Acq: 15 May 2025 22:04

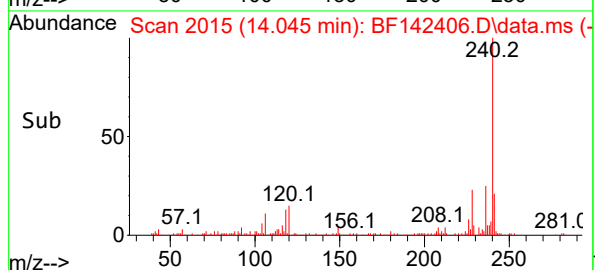
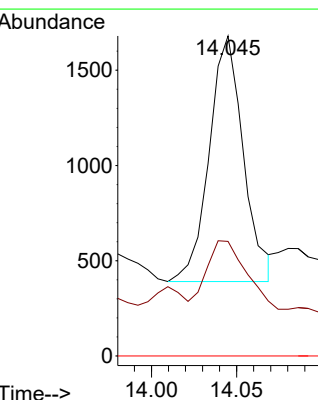
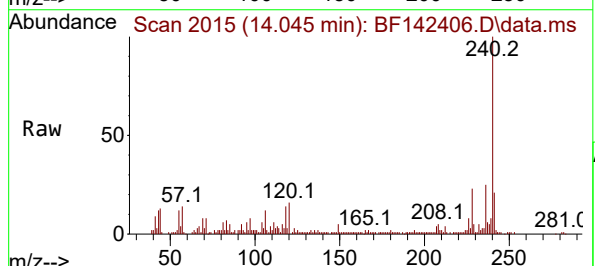
Tgt Ion:149 Resp: 1802

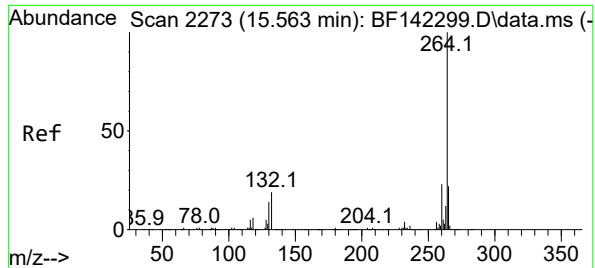
Ion Ratio Lower Upper

149 100

167 35.8 22.0 33.0#

279 0.0 3.0 4.6#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF142406.D

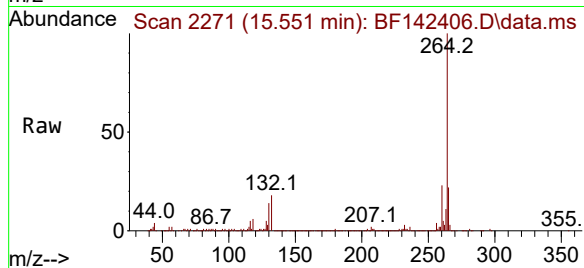
Acq: 15 May 2025 22:04

Instrument :

BNA_F

ClientSampleId :

TP-8



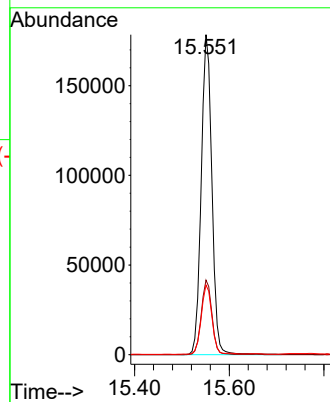
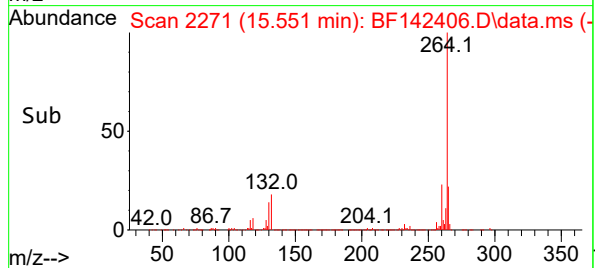
Tgt Ion:264 Resp: 278675

Ion Ratio Lower Upper

264 100

260 23.3 18.6 27.8

265 21.8 17.5 26.3



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142406.D
Acq On : 15 May 2025 22:04
Operator : RC/JU
Sample : Q1982-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-8

A
B
C
D
E
F
G
H
I
J
K

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142406.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.116	488	497	508	rVB	199957	300417	8.67%	1.265%
2	5.510	558	564	570	rBV	1988749	2704855	78.08%	11.393%
3	6.522	729	736	741	rBV	1924882	2733970	78.92%	11.516%
4	6.898	795	800	805	rBV	746541	909961	26.27%	3.833%
5	7.457	889	895	900	rBV	1338636	1752172	50.58%	7.380%
6	7.710	934	938	945	rVB	33095	41728	1.20%	0.176%
7	8.181	1013	1018	1023	rBV	962661	1197631	34.57%	5.044%
8	9.257	1195	1201	1206	rBV	2767234	3464422	100.00%	14.592%
9	9.651	1264	1268	1272	rBV3	23264	34655	1.00%	0.146%
10	9.933	1311	1316	1322	rBV	1029549	1343536	38.78%	5.659%
11	10.586	1422	1427	1432	rBV2	25115	44004	1.27%	0.185%
12	10.645	1433	1437	1445	rVV	164586	219135	6.33%	0.923%
13	10.722	1445	1450	1461	rBV	1561651	2036412	58.78%	8.577%
14	10.851	1468	1472	1480	rVB	33178	51293	1.48%	0.216%
15	11.316	1547	1551	1557	rVB2	45776	67941	1.96%	0.286%
16	11.422	1564	1569	1576	rBV	1011466	1286183	37.13%	5.417%
17	11.651	1604	1608	1616	rBV7	18844	41325	1.19%	0.174%
18	11.945	1653	1658	1670	rBV2	202685	336770	9.72%	1.418%
19	12.198	1698	1701	1707	rVB3	33275	43569	1.26%	0.184%
20	12.633	1772	1775	1780	rVB	54148	69638	2.01%	0.293%
21	12.733	1788	1792	1799	rBV4	31262	65945	1.90%	0.278%
22	12.863	1810	1814	1820	rBV	67542	90430	2.61%	0.381%
23	13.010	1833	1839	1844	rBV	2222874	2819995	81.40%	11.878%
24	13.904	1987	1991	2002	rVB	103025	182752	5.28%	0.770%
25	14.063	2012	2018	2032	rBV	743804	1052136	30.37%	4.432%
26	15.551	2265	2271	2294	rVB	483980	850664	24.55%	3.583%

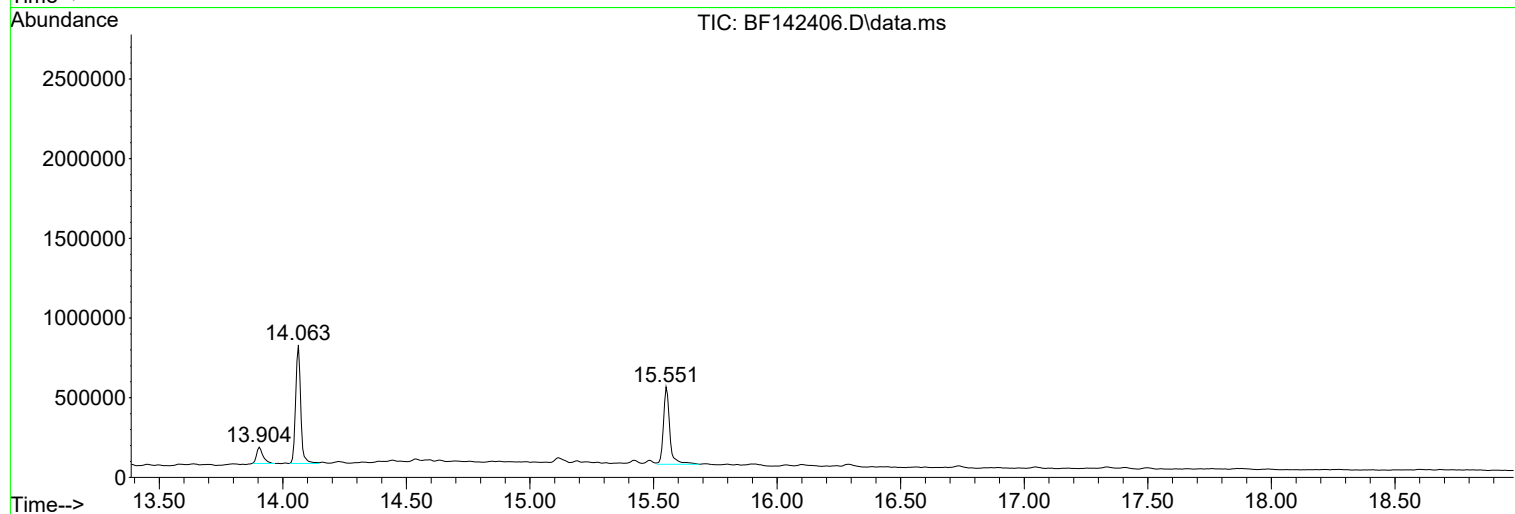
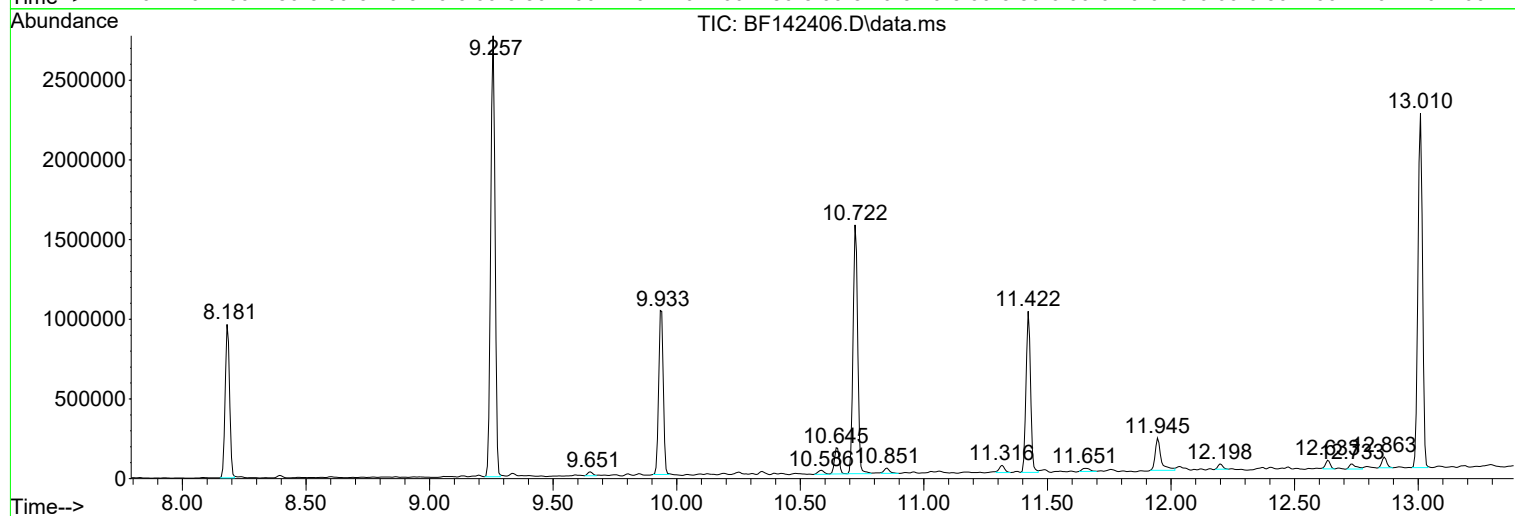
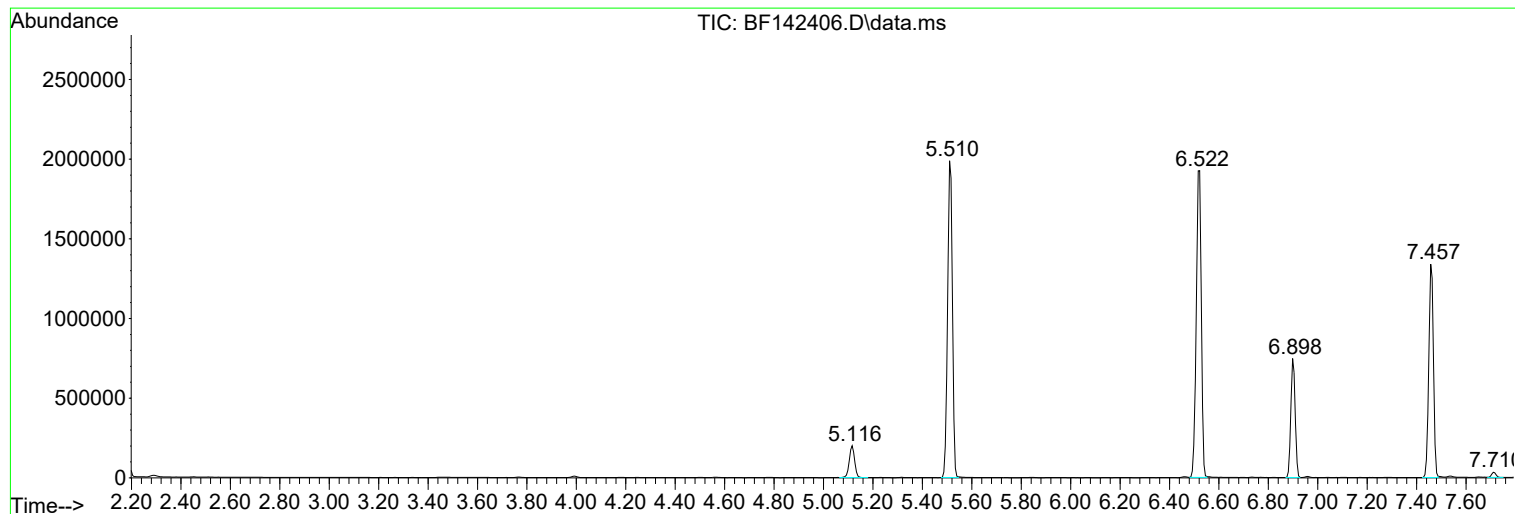
Sum of corrected areas: 23741539

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142406.D
Acq On : 15 May 2025 22:04
Operator : RC/JU
Sample : Q1982-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-8

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.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\BF051525\
Data File : BF142406.D
Acq On : 15 May 2025 22:04
Operator : RC/JU
Sample : Q1982-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-8

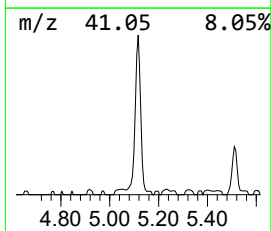
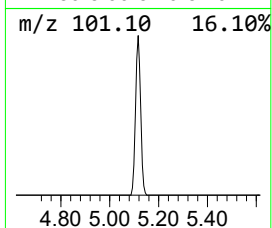
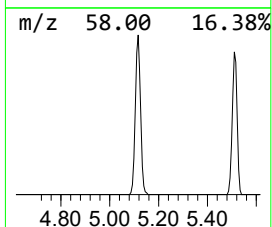
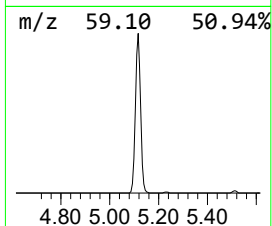
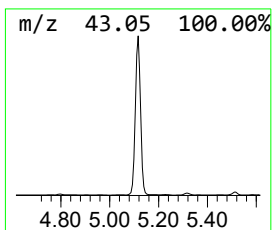
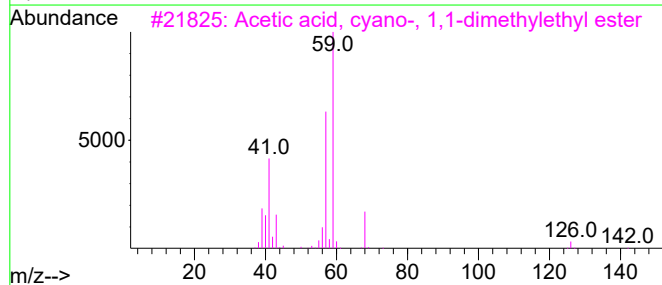
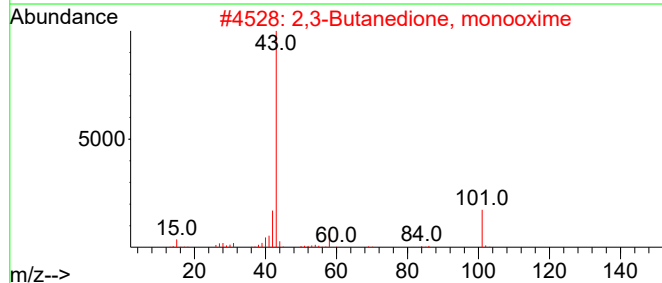
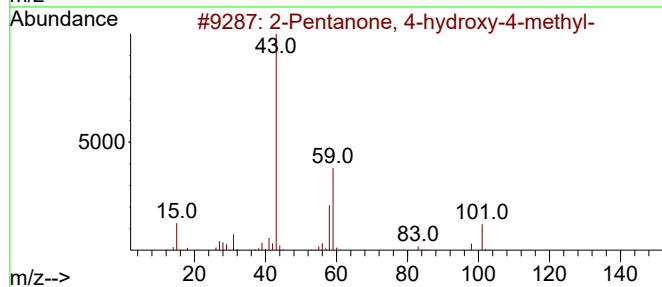
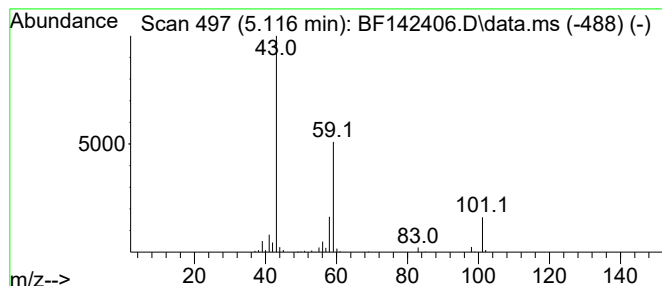
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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	6.60 ng	300417	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	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	27		
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	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	9		



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142406.D
Acq On : 15 May 2025 22:04
Operator : RC/JU
Sample : Q1982-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-8

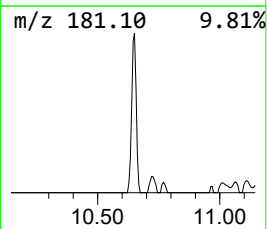
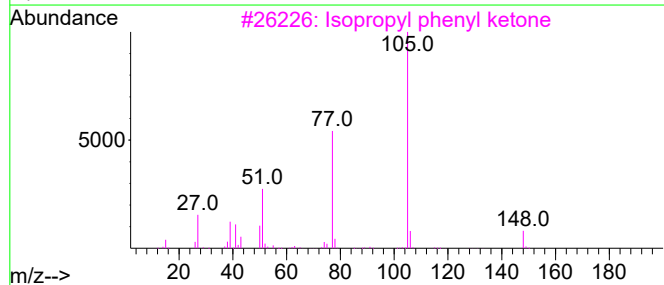
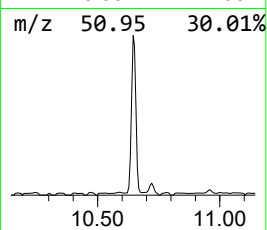
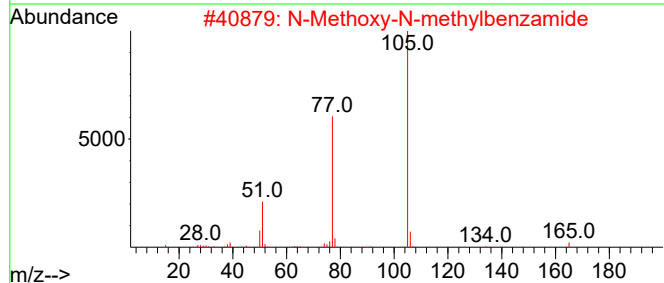
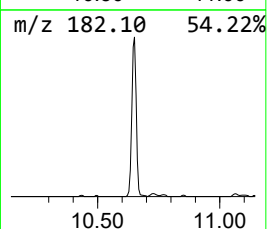
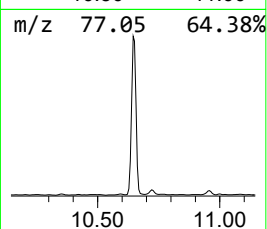
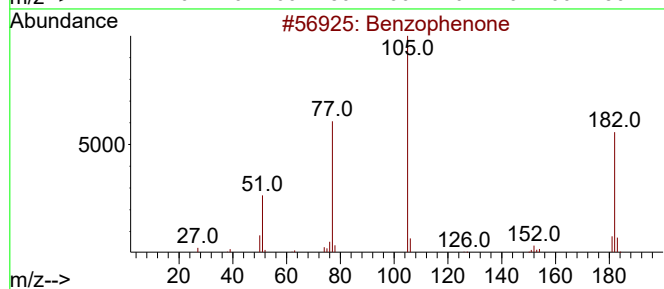
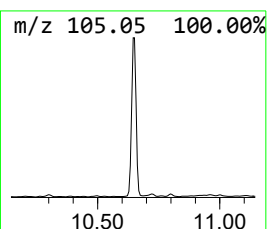
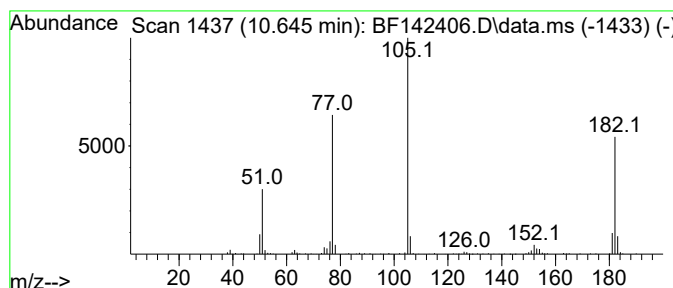
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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	3.26 ng	219135	Acenaphthene-d10	9.939

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			Isopropyl phenyl ketone	148	C10H12O	000611-70-1	47
4			Ethanedione, diphenyl-	210	C14H10O2	000134-81-6	47
5			Benzoyl isothiocyanate	163	C8H5NOS	000532-55-8	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142406.D
Acq On : 15 May 2025 22:04
Operator : RC/JU
Sample : Q1982-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-8

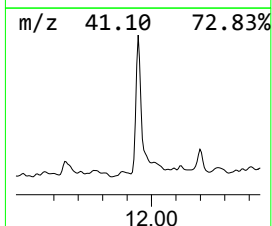
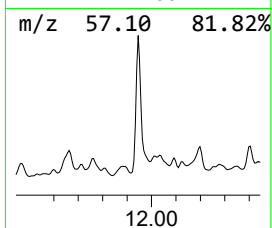
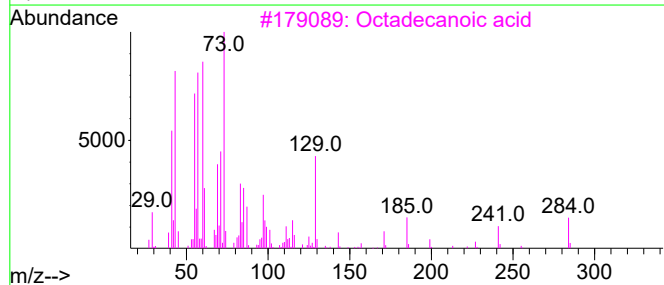
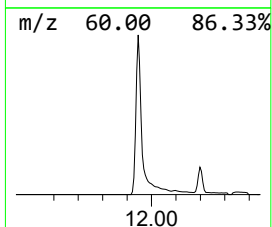
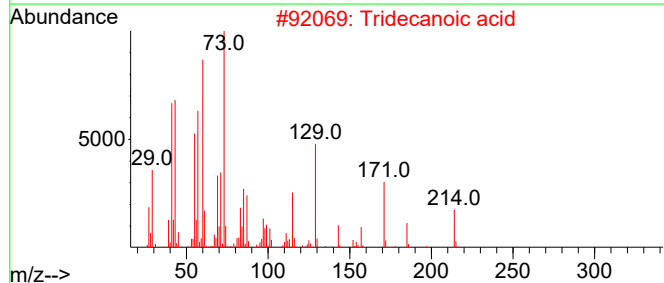
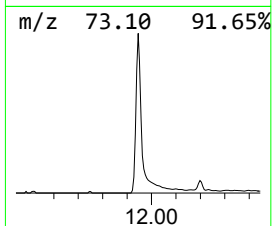
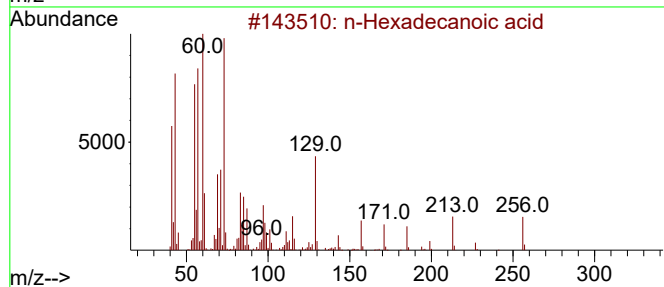
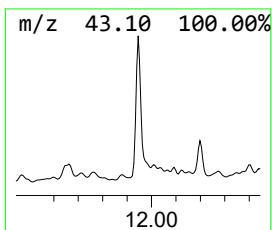
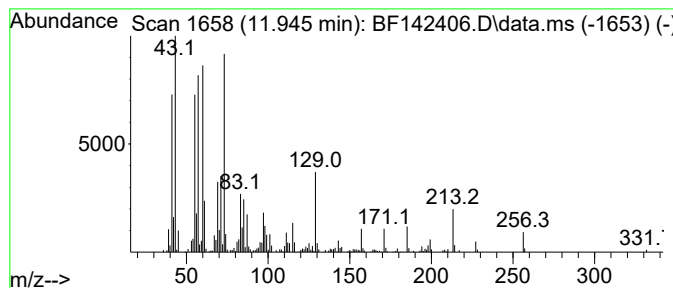
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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	5.24 ng	336770	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	81
5			Undecanoic acid	186	C11H22O2	000112-37-8	62



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142406.D
Acq On : 15 May 2025 22:04
Operator : RC/JU
Sample : Q1982-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-8

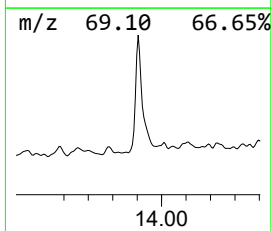
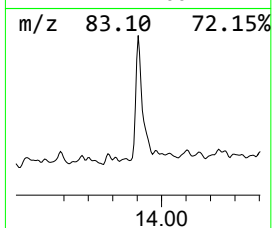
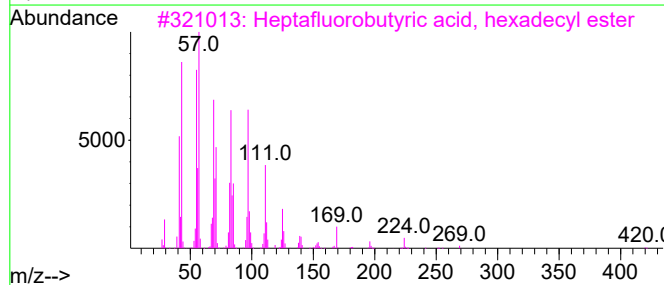
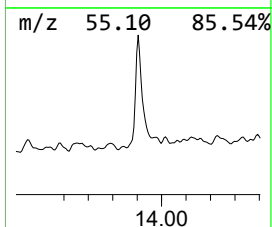
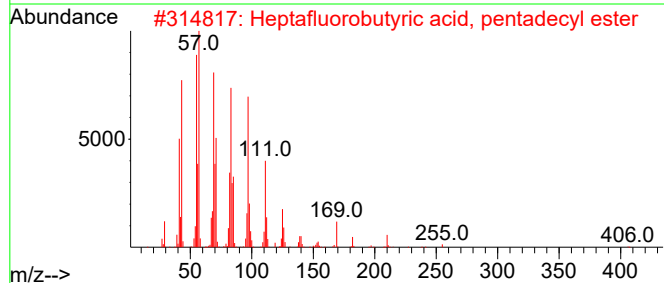
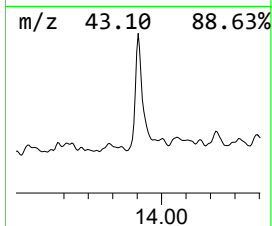
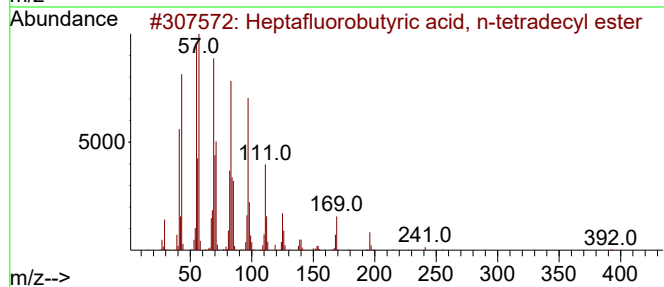
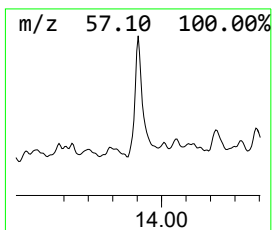
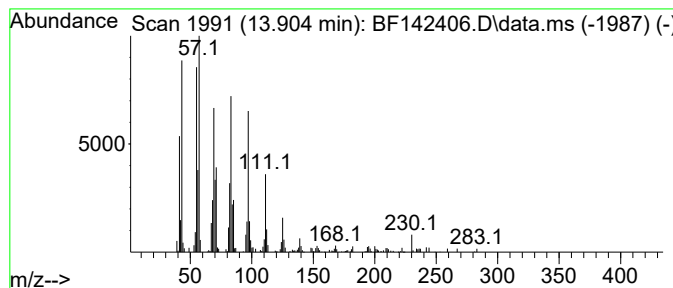
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Heptafluorobutyric acid, n-... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	3.47 ng	182752	Chrysene-d12	14.063

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptafluorobutyric acid, n-tetra...	410	C18H29F7O2	007365-36-8	94
2			Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	94
3			Heptafluorobutyric acid, hexadec...	438	C20H33F7O2	006385-15-5	94
4			Pentafluoropropionic acid, penta...	374	C18H31F5O2	959092-08-1	94
5			1-Heneicosanol	312	C21H44O	015594-90-8	93



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142406.D
Acq On : 15 May 2025 22:04
Operator : RC/JU
Sample : Q1982-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-8

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-...	5.116	6.6	ng	300417	1	6.898	909961	20.0
Benzophenone	10.645	3.3	ng	219135	3	9.939	1343540	20.0
n-Hexadecanoic ...	11.945	5.2	ng	336770	4	11.422	1286180	20.0
Heptafluorobuty...	13.904	3.5	ng	182752	5	14.063	1052140	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024647.D
Acq On : 15 May 2025 21:25
Operator : RC/JU
Sample : Q1982-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-9

Quant Time: May 16 01:18:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

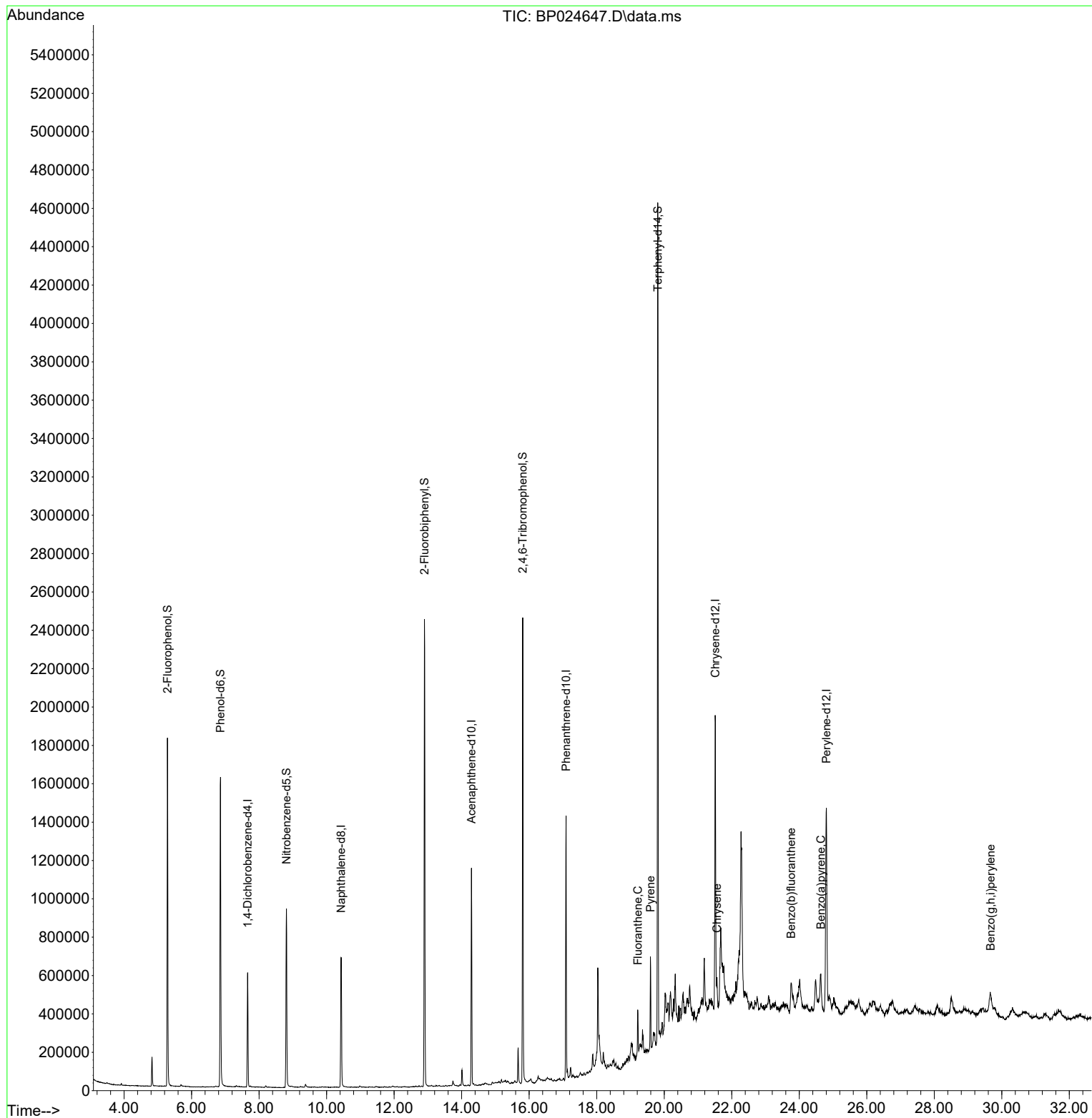
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.663	152	165553	20.000	ng	0.00
21) Naphthalene-d8	10.428	136	643582	20.000	ng	0.00
39) Acenaphthene-d10	14.292	164	391444	20.000	ng	-0.01
64) Phenanthrene-d10	17.092	188	756008	20.000	ng	0.00
76) Chrysene-d12	21.516	240	888340	20.000	ng	0.00
86) Perylene-d12	24.804	264	1083555	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	783475	80.943	ng	0.00
7) Phenol-d6	6.857	99	986855	79.884	ng	0.00
23) Nitrobenzene-d5	8.810	82	566935	44.509	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	511425	77.067	ng	0.00
45) 2-Fluorobiphenyl	12.898	172	1330245	44.522	ng	0.00
79) Terphenyl-d14	19.810	244	2178084	42.042	ng	0.00
Target Compounds						
75) Fluoranthene	19.216	202	139697	2.844	ng	98
78) Pyrene	19.592	202	297430	5.588	ng	98
83) Chrysene	21.563	228	116826m	2.209	ng	
88) Benzo(b)fluoranthene	23.757	252	203807	3.286	ng	97
90) Benzo(a)pyrene	24.639	252	202656	3.402	ng	97
92) Benzo(g,h,i)perylene	29.668	276	182303	2.849	ng	98

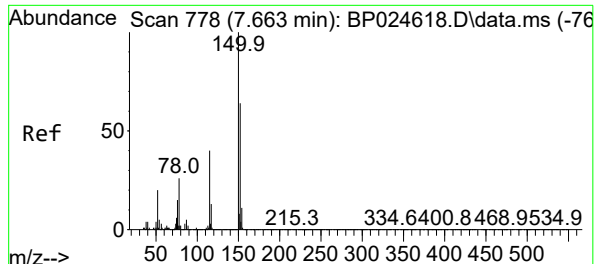
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024647.D
Acq On : 15 May 2025 21:25
Operator : RC/JU
Sample : Q1982-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-9

Quant Time: May 16 01:18:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

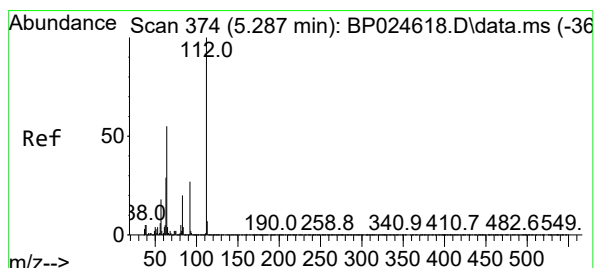
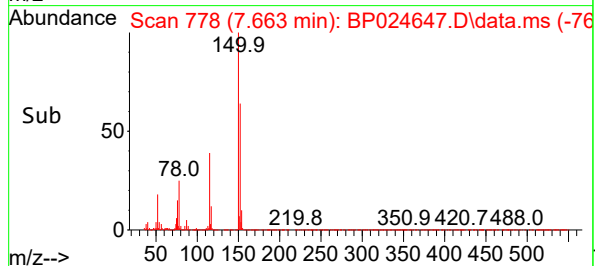
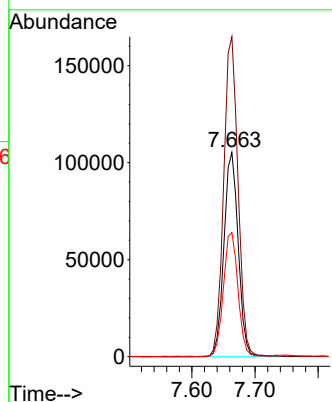
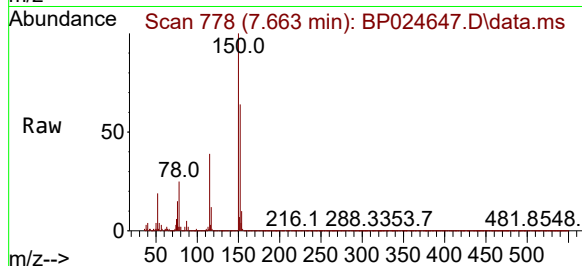




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.663 min Scan# 778
Delta R.T. 0.000 min
Lab File: BP024647.D
Acq: 15 May 2025 21:25

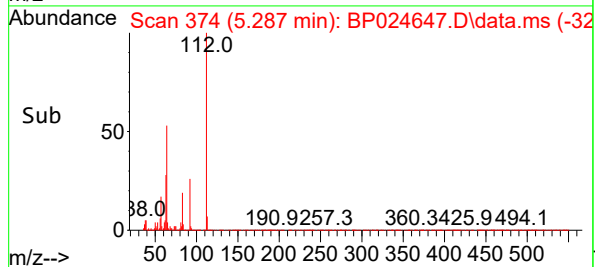
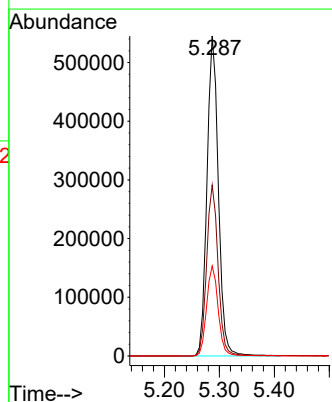
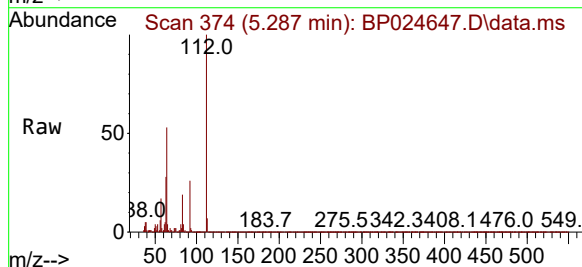
Instrument :
BNA_P
ClientSampleId :
TP-9

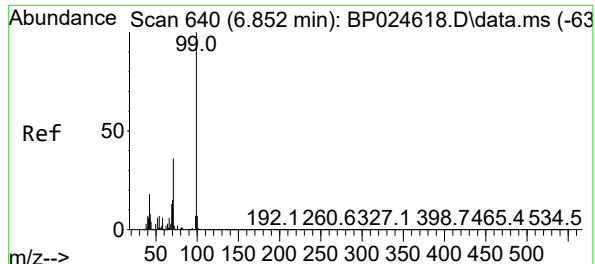
Tgt Ion:152 Resp: 165553
Ion Ratio Lower Upper
152 100
150 156.6 125.9 188.9
115 60.8 50.1 75.1



#5
2-Fluorophenol
Concen: 80.943 ng
RT: 5.287 min Scan# 374
Delta R.T. -0.000 min
Lab File: BP024647.D
Acq: 15 May 2025 21:25

Tgt Ion:112 Resp: 783475
Ion Ratio Lower Upper
112 100
64 53.4 44.1 66.1
63 28.2 23.5 35.3





#7

Phenol-d6

Concen: 79.884 ng

RT: 6.857 min Scan# 64

Delta R.T. 0.006 min

Lab File: BP024647.D

Acq: 15 May 2025 21:25

Instrument :

BNA_P

ClientSampleId :

TP-9

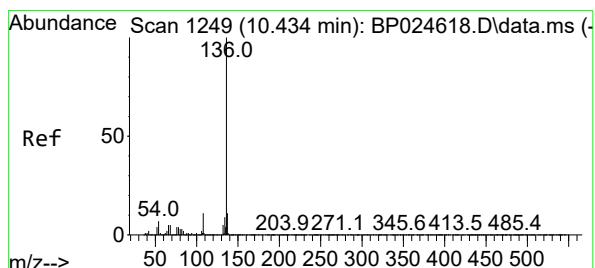
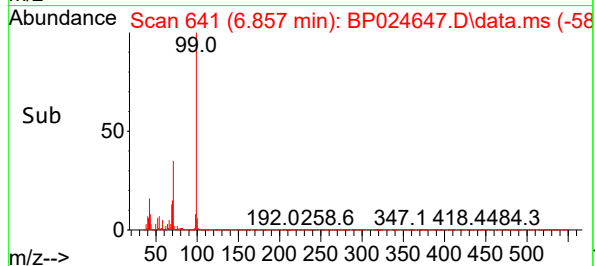
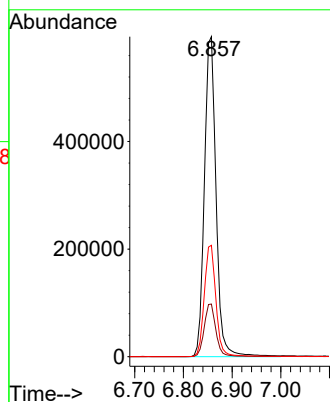
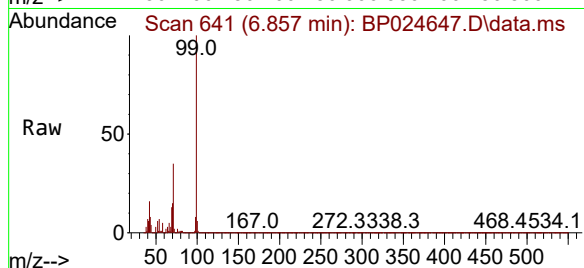
Tgt Ion: 99 Resp: 986855

Ion Ratio Lower Upper

99 100

42 16.5 14.4 21.6

71 34.8 29.2 43.8



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.428 min Scan# 1248

Delta R.T. -0.006 min

Lab File: BP024647.D

Acq: 15 May 2025 21:25

Tgt Ion: 136 Resp: 643582

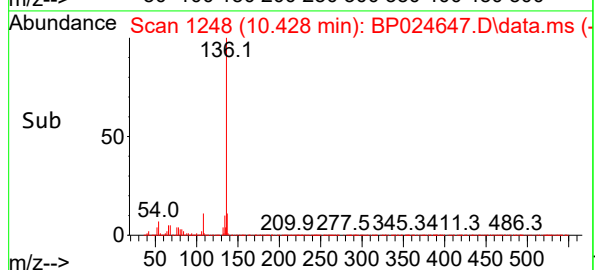
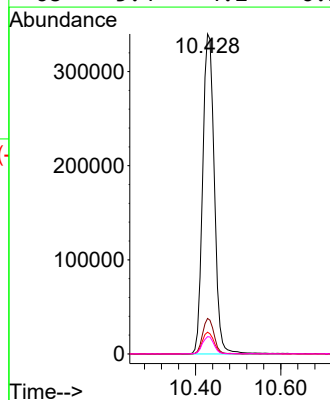
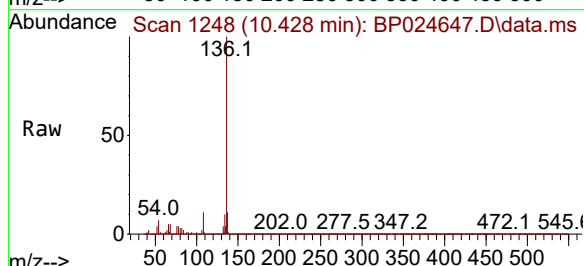
Ion Ratio Lower Upper

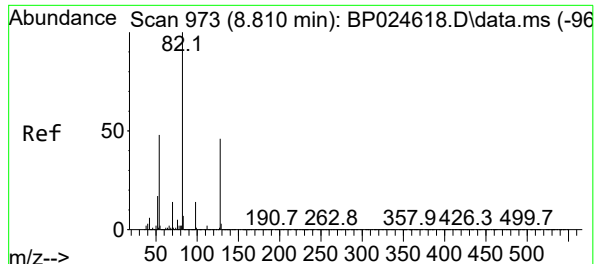
136 100

137 11.1 8.8 13.2

54 6.8 5.5 8.3

68 5.4 4.2 6.2





#23

Nitrobenzene-d5

Concen: 44.509 ng

RT: 8.810 min Scan# 91

Delta R.T. -0.000 min

Lab File: BP024647.D

Acq: 15 May 2025 21:25

Instrument :

BNA_P

ClientSampleId :

TP-9

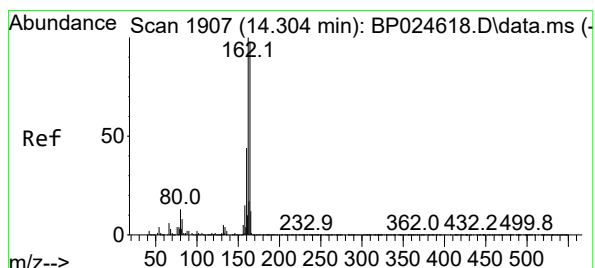
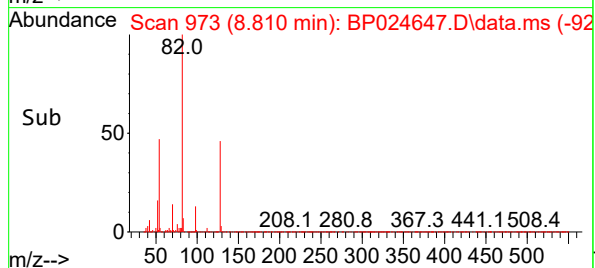
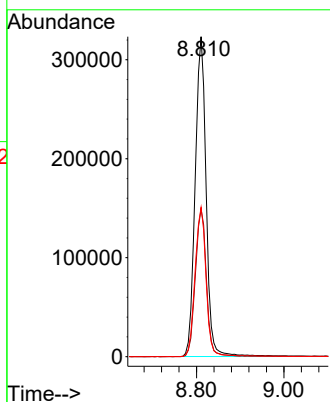
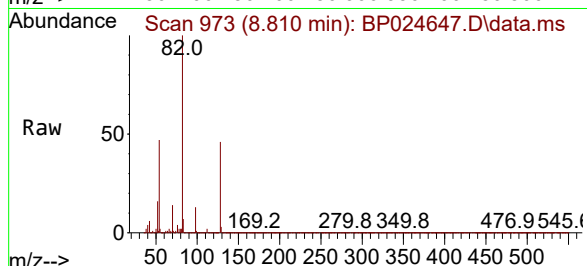
Tgt Ion: 82 Resp: 566935

Ion Ratio Lower Upper

82 100

128 46.1 37.0 55.4

54 46.7 38.7 58.1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.292 min Scan# 1905

Delta R.T. -0.012 min

Lab File: BP024647.D

Acq: 15 May 2025 21:25

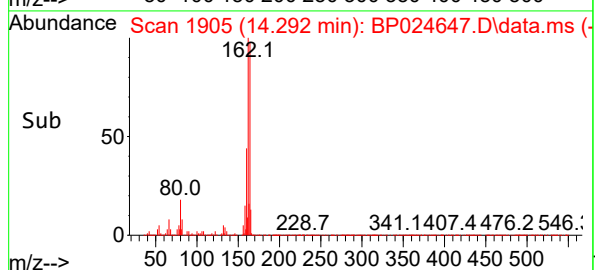
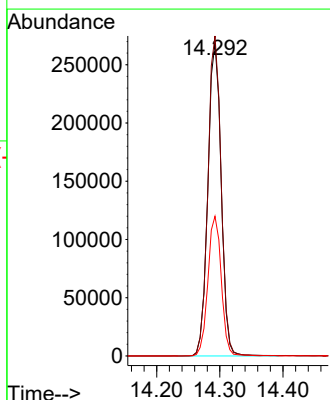
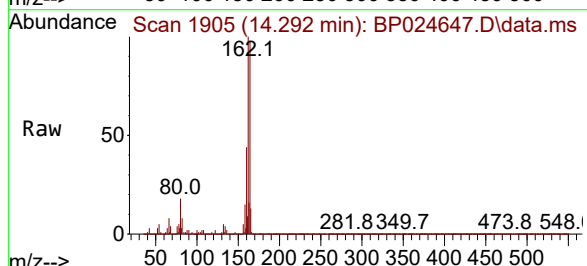
Tgt Ion: 164 Resp: 391444

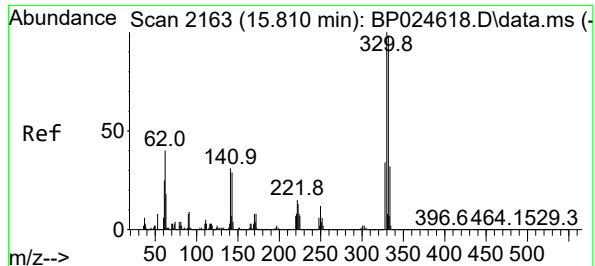
Ion Ratio Lower Upper

164 100

162 102.3 81.8 122.6

160 44.7 36.3 54.5





#42

2,4,6-Tribromophenol

Concen: 77.067 ng

RT: 15.810 min Scan# 2163

Delta R.T. -0.000 min

Lab File: BP024647.D

Acq: 15 May 2025 21:25

Instrument :

BNA_P

ClientSampleId :

TP-9

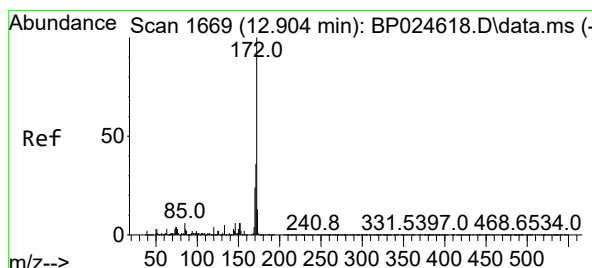
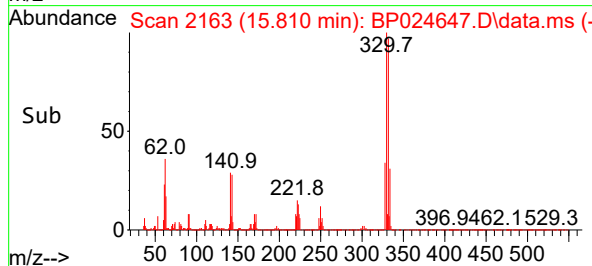
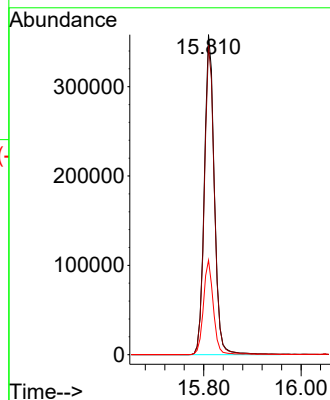
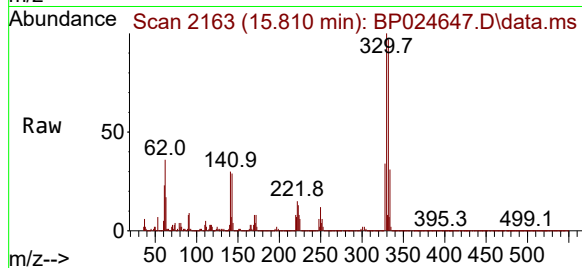
Tgt Ion:330 Resp: 511425

Ion Ratio Lower Upper

330 100

332 96.8 78.2 117.4

141 28.9 24.3 36.5



#45

2-Fluorobiphenyl

Concen: 44.522 ng

RT: 12.898 min Scan# 1668

Delta R.T. -0.006 min

Lab File: BP024647.D

Acq: 15 May 2025 21:25

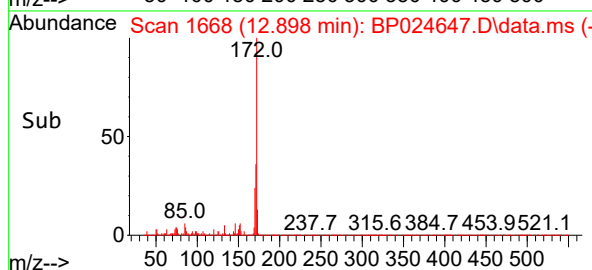
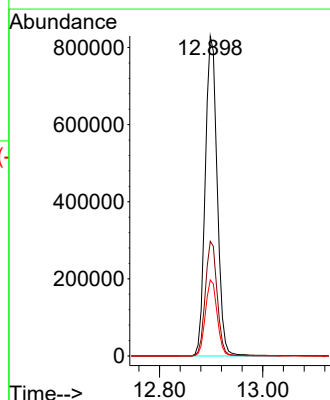
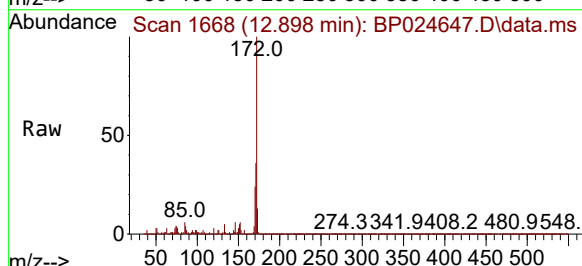
Tgt Ion:172 Resp: 1330245

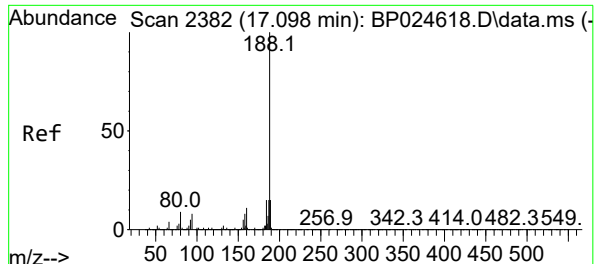
Ion Ratio Lower Upper

172 100

171 35.8 28.8 43.2

170 23.7 18.8 28.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.092 min Scan# 21

Delta R.T. -0.006 min

Lab File: BP024647.D

Acq: 15 May 2025 21:25

Instrument :

BNA_P

ClientSampleId :

TP-9

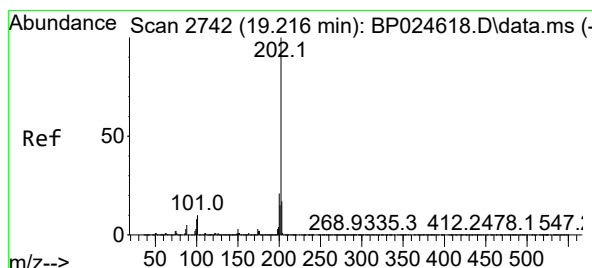
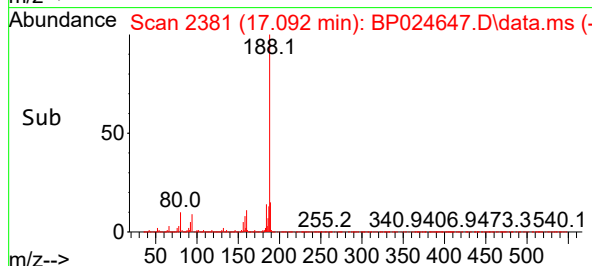
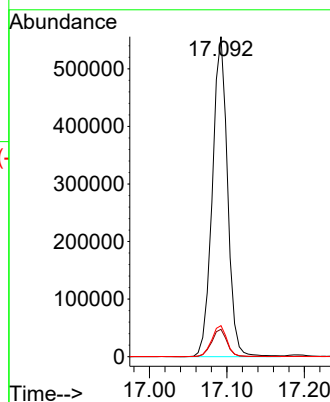
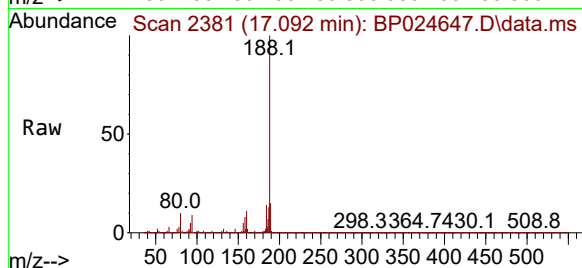
Tgt Ion:188 Resp: 756008

Ion Ratio Lower Upper

188 100

94 8.6 6.5 9.7

80 9.7 7.3 10.9



#75

Fluoranthene

Concen: 2.844 ng

RT: 19.216 min Scan# 2742

Delta R.T. -0.000 min

Lab File: BP024647.D

Acq: 15 May 2025 21:25

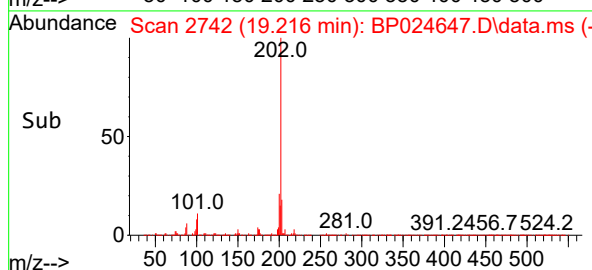
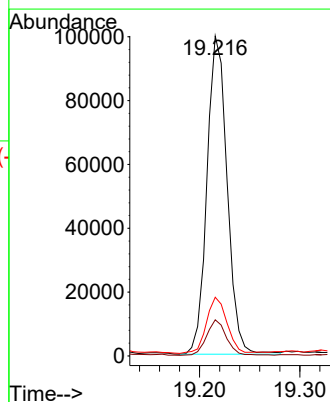
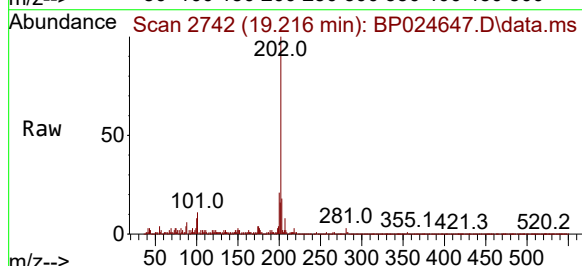
Tgt Ion:202 Resp: 139697

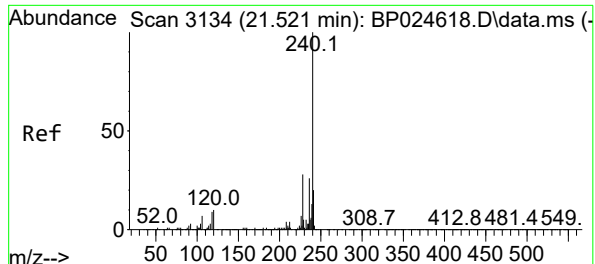
Ion Ratio Lower Upper

202 100

101 11.3 0.0 30.3

203 18.3 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.516 min Scan# 3134

Delta R.T. -0.006 min

Lab File: BP024647.D

Acq: 15 May 2025 21:25

Instrument :

BNA_P

ClientSampleId :

TP-9

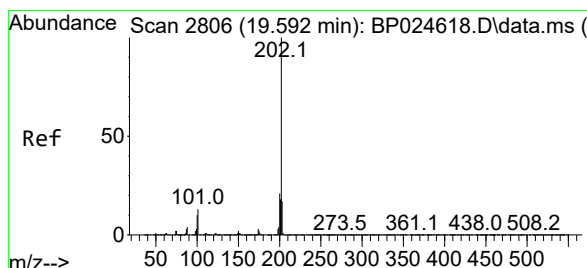
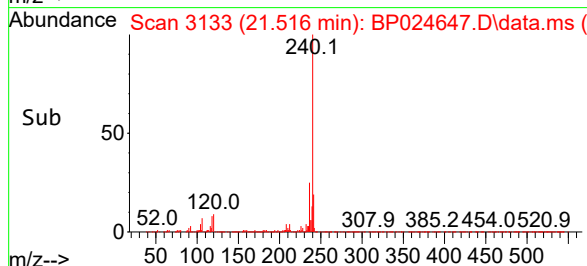
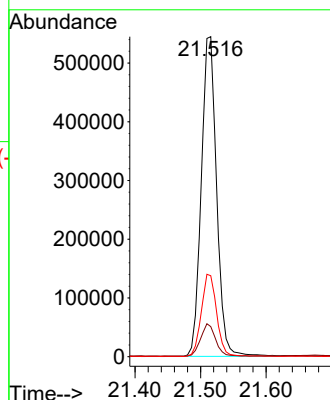
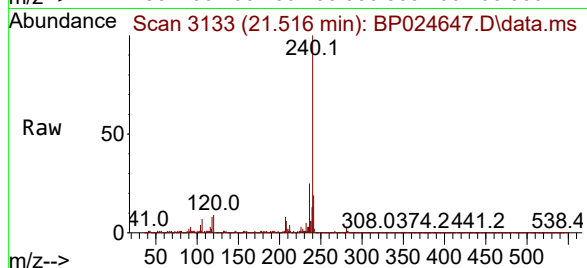
Tgt Ion:240 Resp: 888340

Ion Ratio Lower Upper

240 100

120 9.4 7.8 11.6

236 25.3 20.6 31.0



#78

Pyrene

Concen: 5.588 ng

RT: 19.592 min Scan# 2806

Delta R.T. -0.000 min

Lab File: BP024647.D

Acq: 15 May 2025 21:25

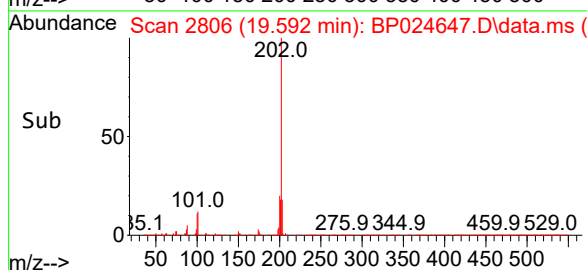
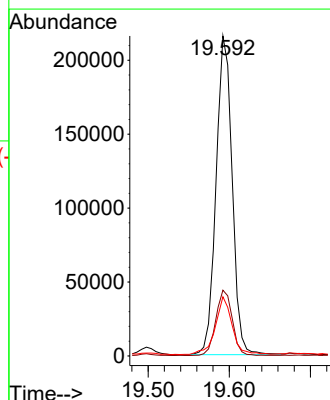
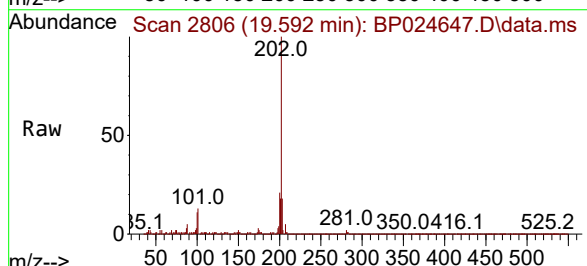
Tgt Ion:202 Resp: 297430

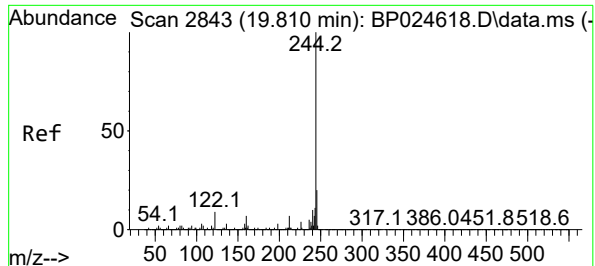
Ion Ratio Lower Upper

202 100

200 20.6 16.9 25.3

203 18.5 13.9 20.9

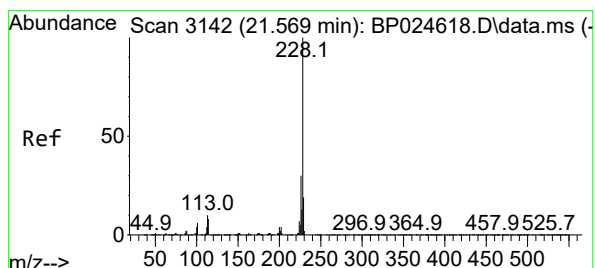
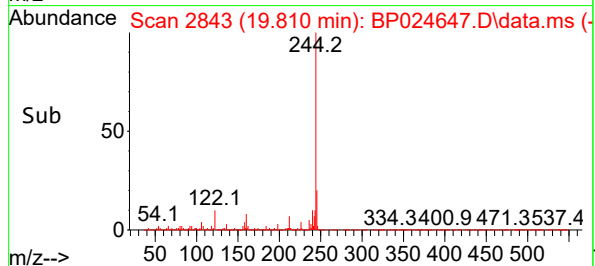
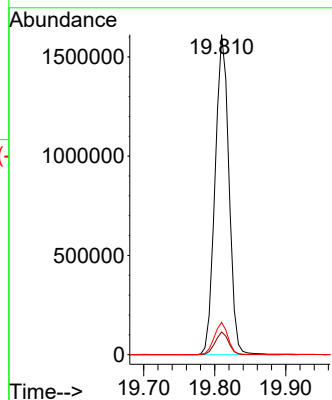
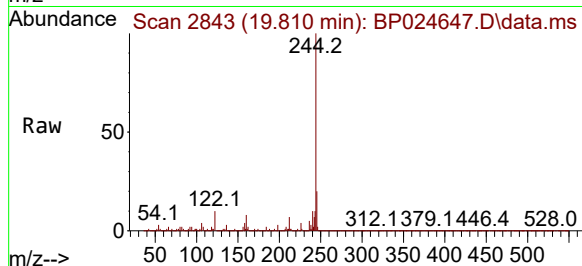




#79
 Terphenyl-d14
 Concen: 42.042 ng
 RT: 19.810 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BP024647.D
 Acq: 15 May 2025 21:25

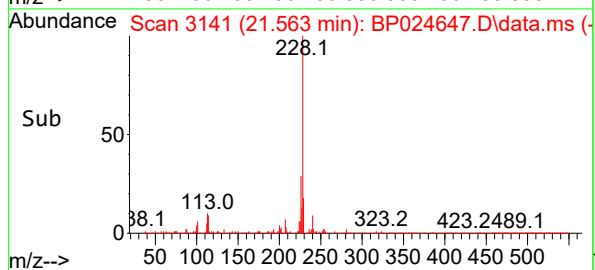
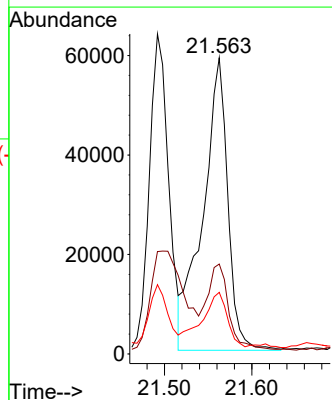
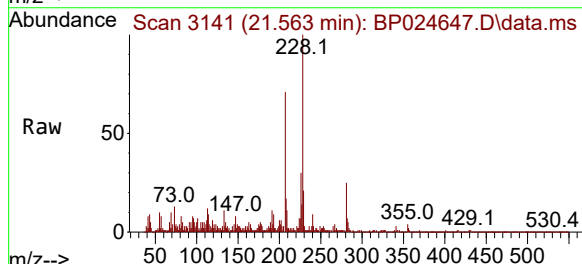
Instrument :
 BNA_P
 ClientSampleId :
 TP-9

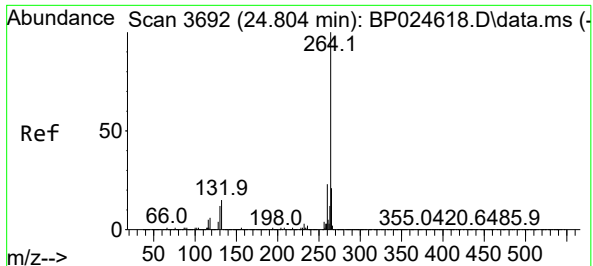
Tgt Ion:244 Resp: 2178084
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.5 8.3
 122 10.1 7.4 11.0



#83
 Chrysene
 Concen: 2.209 ng m
 RT: 21.563 min Scan# 3141
 Delta R.T. -0.006 min
 Lab File: BP024647.D
 Acq: 15 May 2025 21:25

Tgt Ion:228 Resp: 116826
 Ion Ratio Lower Upper
 228 100
 226 30.4 23.9 35.9
 229 20.8 15.5 23.3

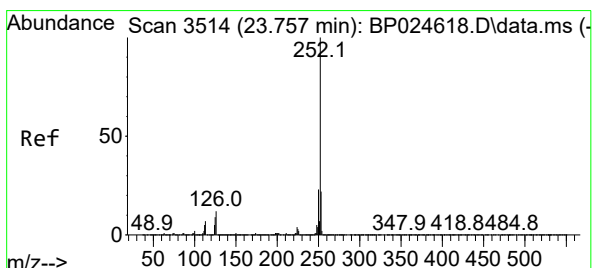
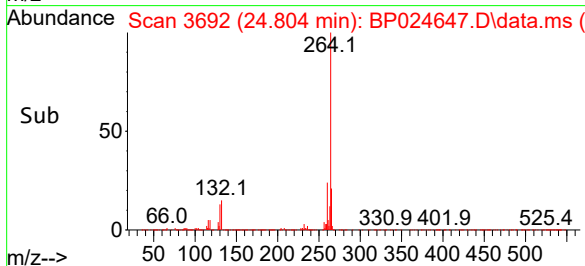
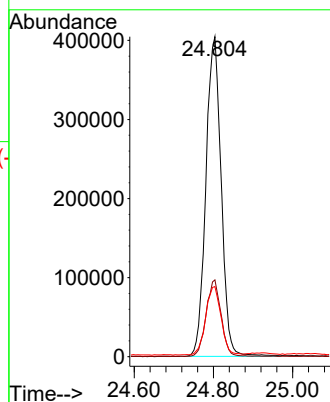
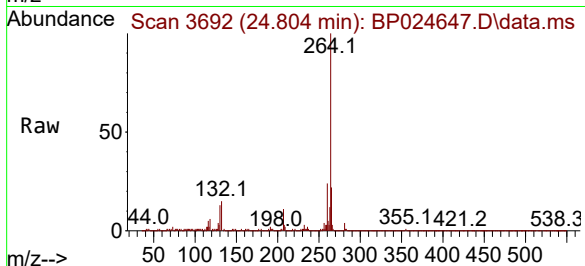




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.804 min Scan# 3692
Delta R.T. -0.000 min
Lab File: BP024647.D
Acq: 15 May 2025 21:25

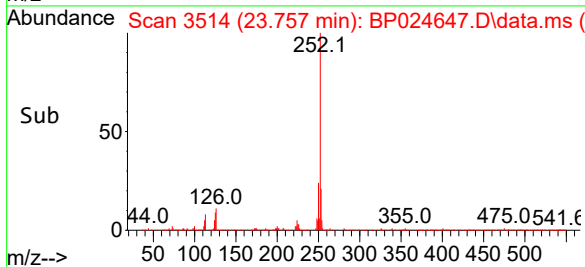
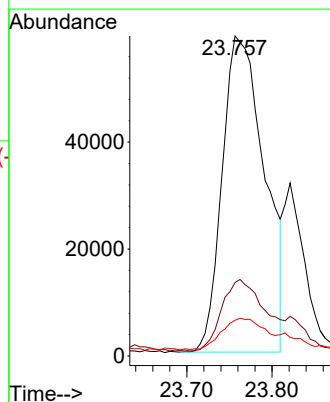
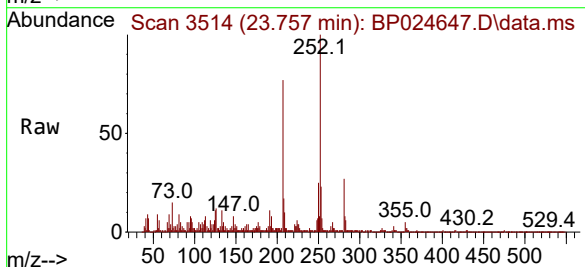
Instrument :
BNA_P
ClientSampleId :
TP-9

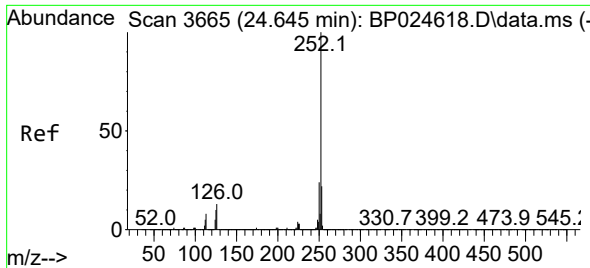
Tgt Ion:264 Resp: 1083555
Ion Ratio Lower Upper
264 100
260 24.0 18.7 28.1
265 21.9 17.0 25.6



#88
Benzo(b)fluoranthene
Concen: 3.286 ng
RT: 23.757 min Scan# 3514
Delta R.T. -0.000 min
Lab File: BP024647.D
Acq: 15 May 2025 21:25

Tgt Ion:252 Resp: 203807
Ion Ratio Lower Upper
252 100
253 23.0 17.7 26.5
125 11.1 7.5 11.3





#90

Benzo(a)pyrene

Concen: 3.402 ng

RT: 24.639 min Scan# 30

Delta R.T. -0.006 min

Lab File: BP024647.D

Acq: 15 May 2025 21:25

Instrument :

BNA_P

ClientSampleId :

TP-9

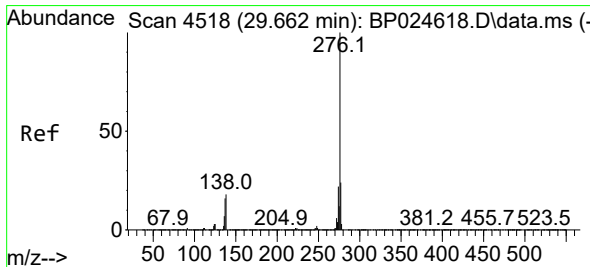
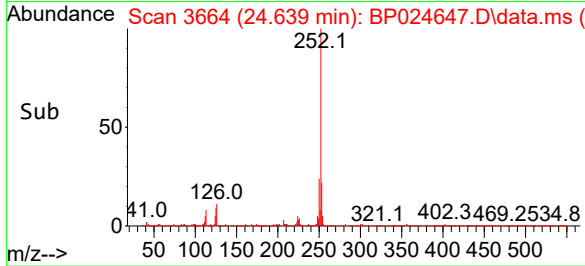
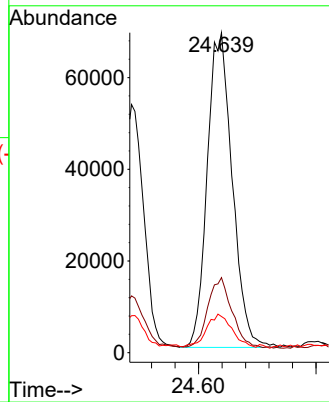
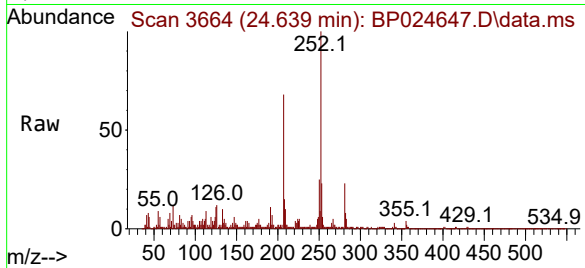
Tgt Ion:252 Resp: 202656

Ion Ratio Lower Upper

252 100

253 23.5 17.7 26.5

125 11.3 8.1 12.1



#92

Benzo(g,h,i)perylene

Concen: 2.849 ng

RT: 29.668 min Scan# 4519

Delta R.T. 0.006 min

Lab File: BP024647.D

Acq: 15 May 2025 21:25

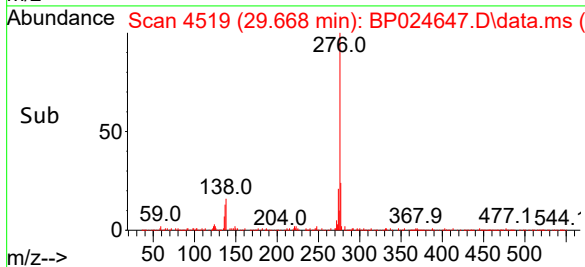
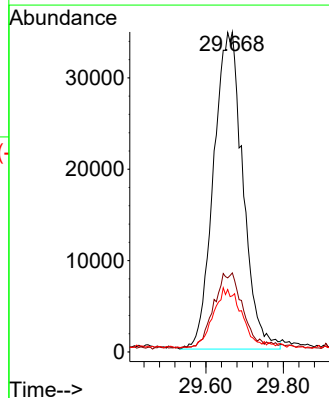
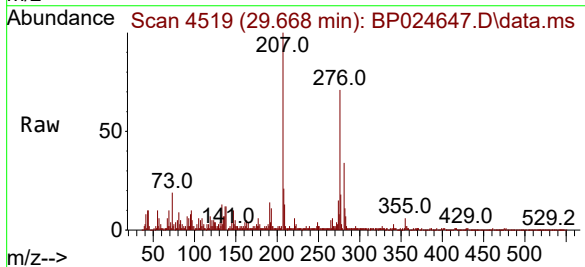
Tgt Ion:276 Resp: 182303

Ion Ratio Lower Upper

276 100

277 24.7 19.0 28.4

138 17.5 14.4 21.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024647.D
Acq On : 15 May 2025 21:25
Operator : RC/JU
Sample : Q1982-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-9

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP024647.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.828	291	296	308	rBV	152331	221666	3.85%	0.602%
2	5.287	368	374	391	rBV	1814276	2608604	45.34%	7.088%
3	6.857	633	641	660	rBV	1613109	2703579	46.99%	7.346%
4	7.663	771	778	787	rBV	596239	952319	16.55%	2.588%
5	8.810	964	973	987	rBV	933266	1645109	28.59%	4.470%
6	10.428	1239	1248	1262	rBV	676921	1300422	22.60%	3.533%
7	12.898	1660	1668	1688	rBV	2438401	3917324	68.09%	10.644%
8	14.010	1852	1857	1870	rVB	82089	140692	2.45%	0.382%
9	14.292	1898	1905	1913	rBV	1132555	1654867	28.76%	4.496%
10	15.675	2134	2140	2154	rVB	186742	290748	5.05%	0.790%
11	15.810	2154	2163	2179	rBV	2429109	3503037	60.89%	9.518%
12	17.092	2374	2381	2386	rBV2	1380414	1901181	33.04%	5.166%
13	17.227	2400	2404	2410	rVB	51847	92992	1.62%	0.253%
14	17.886	2511	2516	2519	rBV2	68912	109100	1.90%	0.296%
15	18.033	2536	2541	2546	rBV	443822	715259	12.43%	1.943%
16	18.198	2565	2569	2573	rBV2	57037	82074	1.43%	0.223%
17	19.216	2738	2742	2747	rBV	226345	316214	5.50%	0.859%
18	19.357	2763	2766	2768	rBV	92507	94710	1.65%	0.257%
19	19.592	2802	2806	2811	rVB	473482	608060	10.57%	1.652%
20	19.810	2838	2843	2849	rBV	4356004	5753424	100.00%	15.633%
21	20.027	2877	2880	2881	rBV	116745	111510	1.94%	0.303%
22	20.327	2926	2931	2937	rVB2	213648	382291	6.64%	1.039%
23	20.757	3001	3004	3011	rVB7	128702	242215	4.21%	0.658%
24	21.186	3072	3077	3088	rVB2	251226	498532	8.66%	1.355%
25	21.510	3126	3132	3139	rBV2	1518788	2714051	47.17%	7.374%
26	21.674	3153	3160	3166	rBV4	330072	894428	15.55%	2.430%
27	22.274	3257	3262	3264	rBV3	545626	815956	14.18%	2.217%
28	24.804	3684	3692	3701	rVB	1006573	2533558	44.04%	6.884%

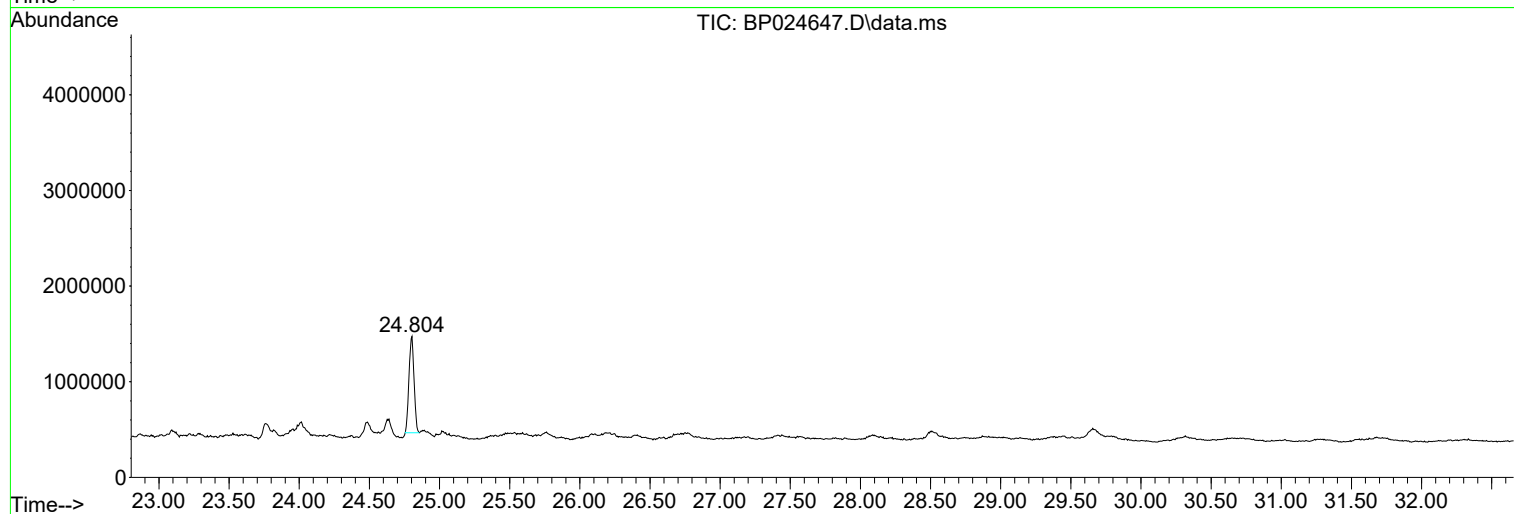
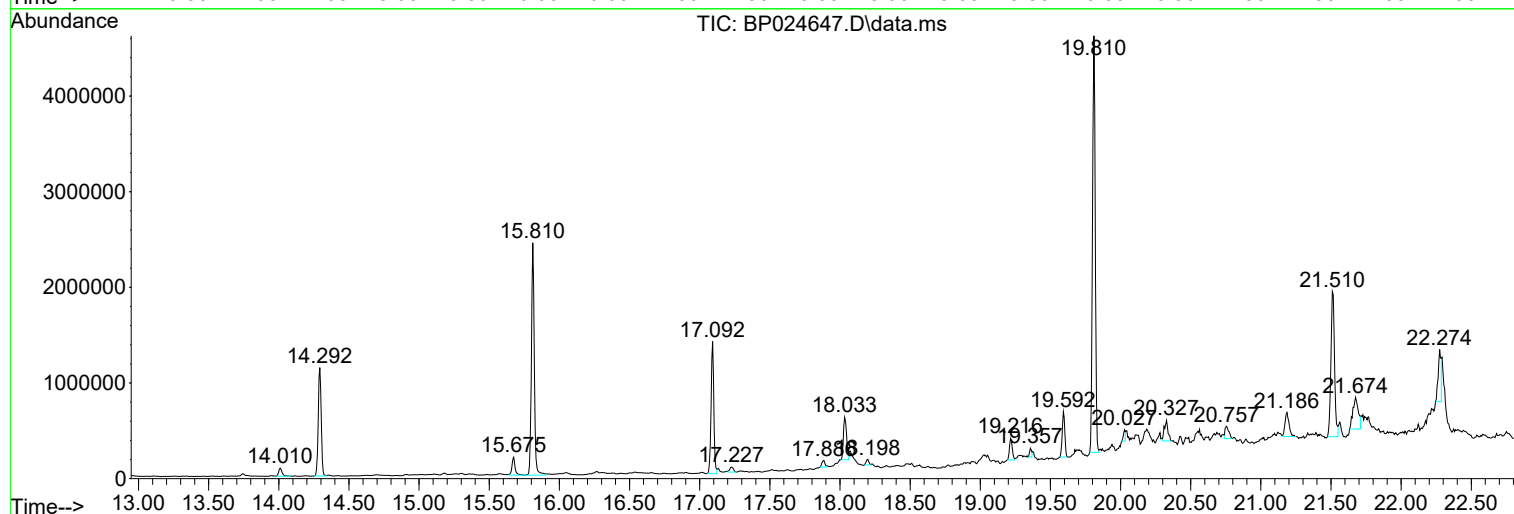
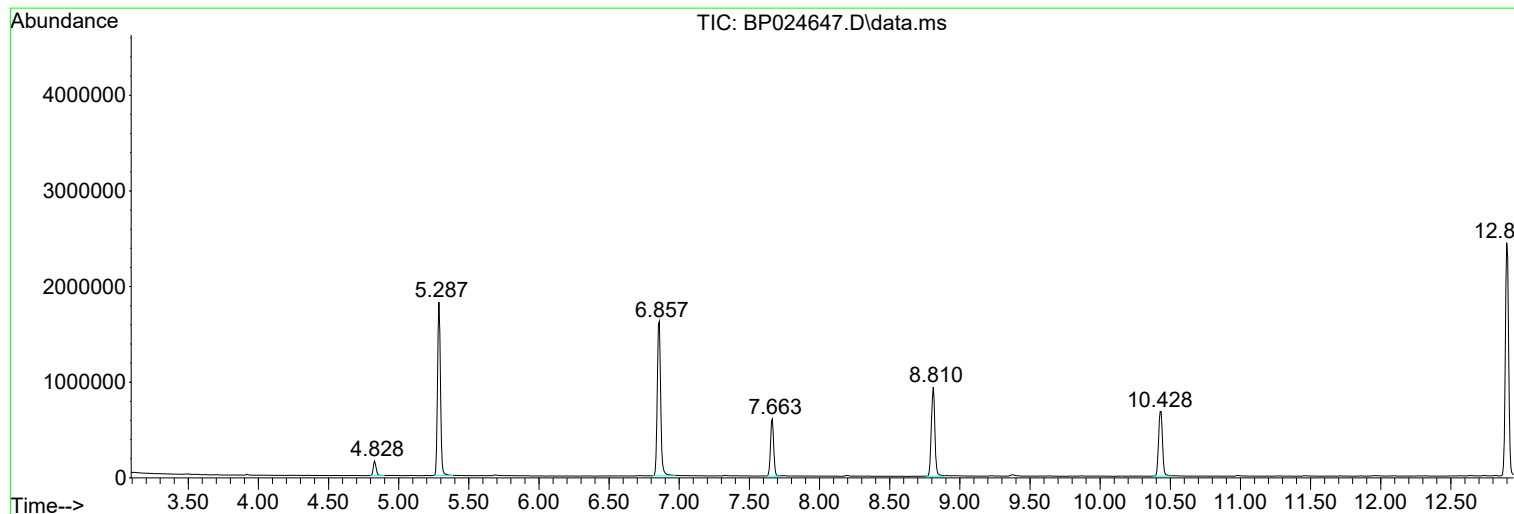
Sum of corrected areas: 36803922

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024647.D
Acq On : 15 May 2025 21:25
Operator : RC/JU
Sample : Q1982-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-9

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.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_P\Data\BP051525\
Data File : BP024647.D
Acq On : 15 May 2025 21:25
Operator : RC/JU
Sample : Q1982-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

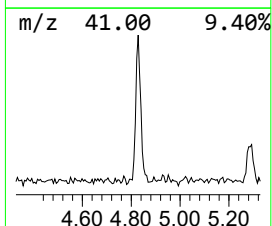
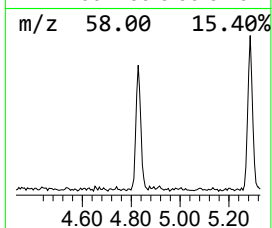
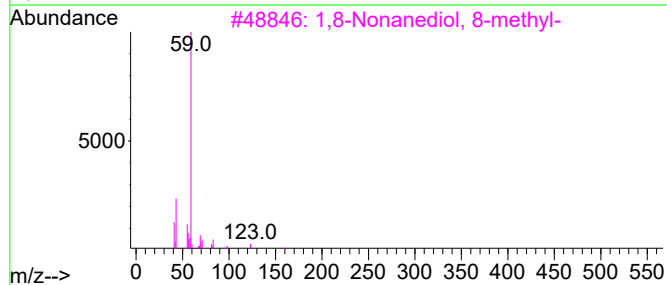
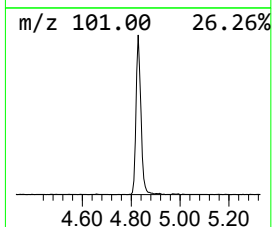
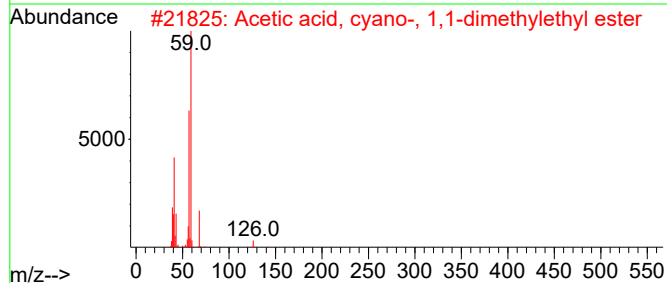
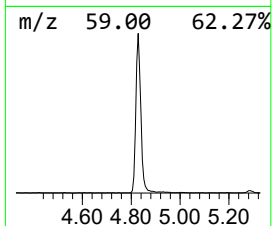
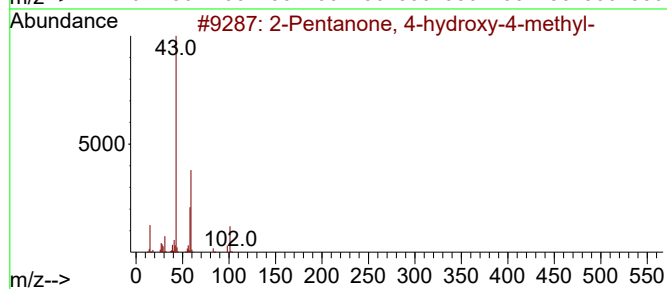
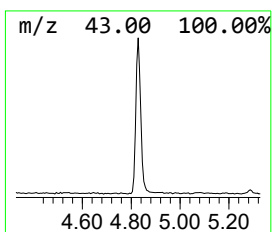
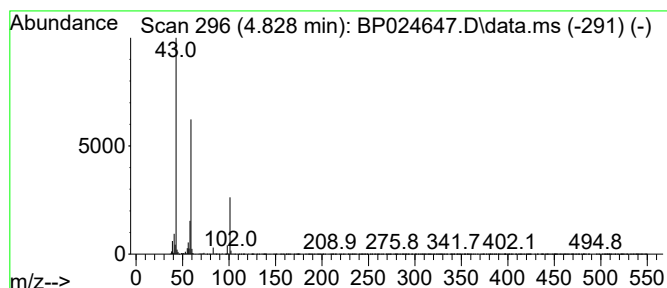
Instrument :
BNA_P
ClientSampleId :
TP-9

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.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 4

R.T.	EstConc	Area	Relative to ISTD			R.T.
4.828	4.66 ng	221666	1,4-Dichlorobenzene-d4			7.663
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-		116	C6H12O2	000123-42-2	64
2	Acetic acid, cyano-, 1,1-dimethy...		141	C7H11NO2	001116-98-9	17
3	1,8-Nonanediol, 8-methyl-		174	C10H22O2	054725-73-4	17
4	1-Propen-2-ol, acetate		100	C5H8O2	000108-22-5	10
5	Butane, 1-ethoxy-		102	C6H14O	000628-81-9	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024647.D
Acq On : 15 May 2025 21:25
Operator : RC/JU
Sample : Q1982-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-9

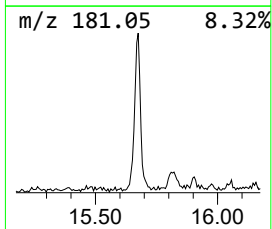
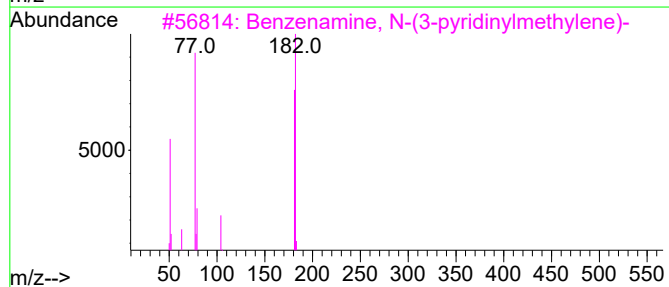
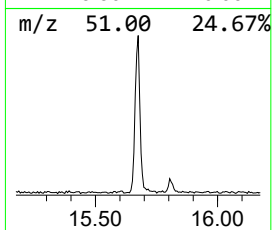
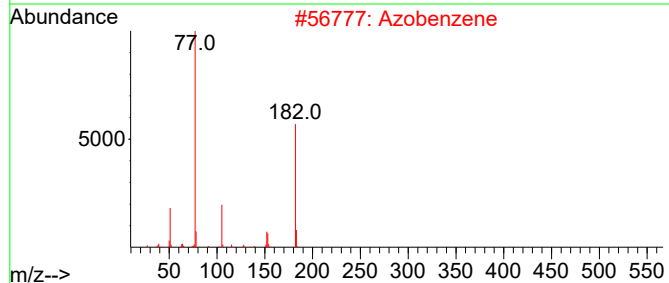
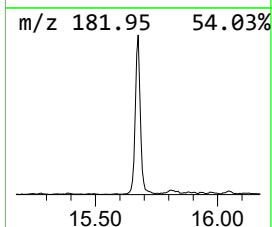
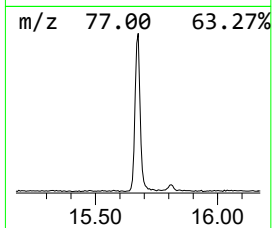
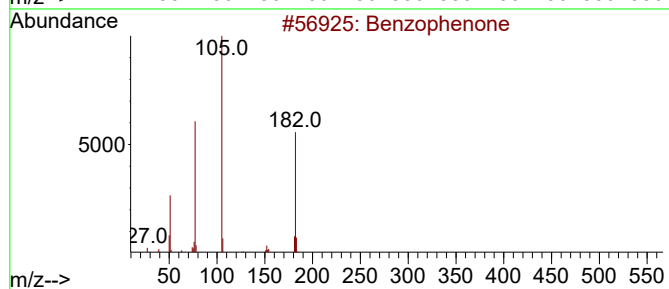
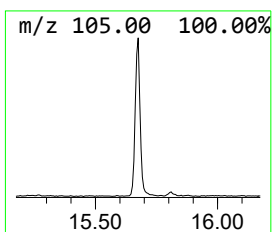
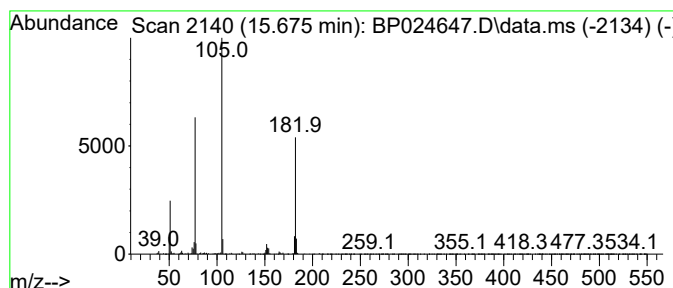
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Benzophenone Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.675	3.51 ng	290748	Acenaphthene-d10	14.292

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			Benzenamine, N-(3-pyridinylmethy...	182	C12H10N2	029722-97-2	45
4			1,2,4-Trioxolane, 3,3,5-triphenyl-	304	C20H16O3	023246-12-0	40
5			Clidinium Bromide	431	C22H26BrNO3	003485-62-9	33



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024647.D
Acq On : 15 May 2025 21:25
Operator : RC/JU
Sample : Q1982-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

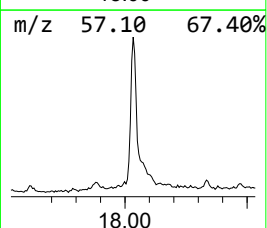
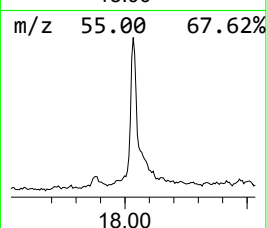
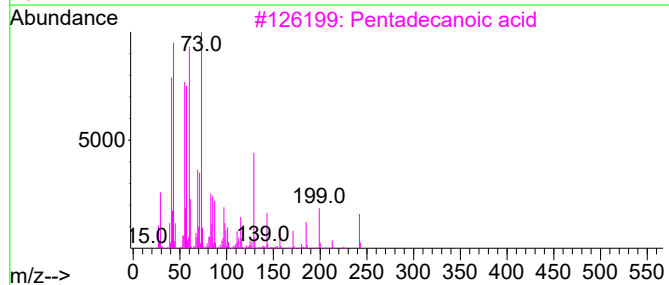
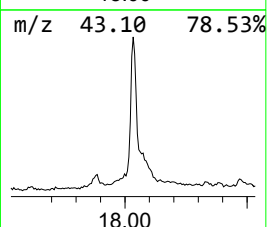
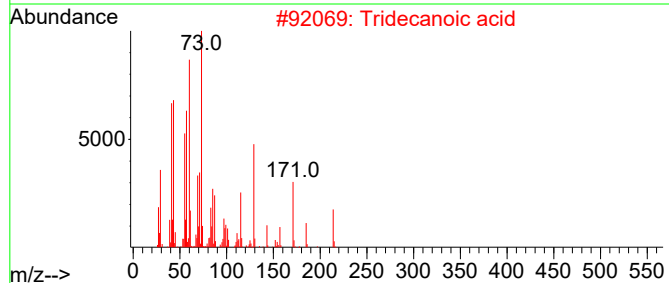
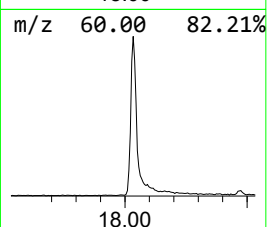
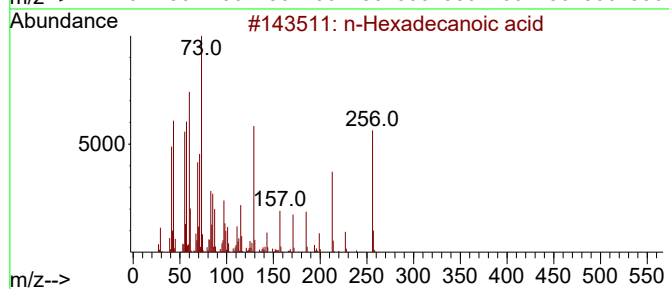
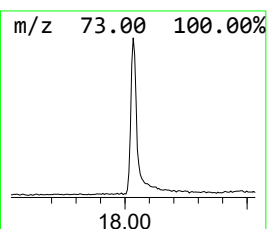
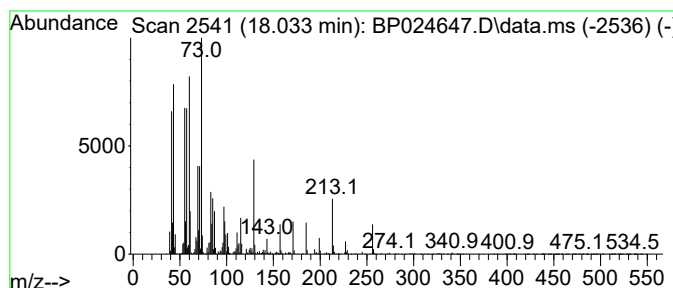
Instrument :
BNA_P
ClientSampleId :
TP-9

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.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.	
18.033	7.52 ng	715259	Phenanthrene-d10		17.092	
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	Octadecanoic acid		284	C18H36O2	000057-11-4	90
5	Undecanoic acid		186	C11H22O2	000112-37-8	83



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024647.D
Acq On : 15 May 2025 21:25
Operator : RC/JU
Sample : Q1982-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

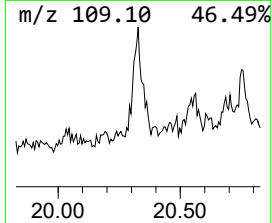
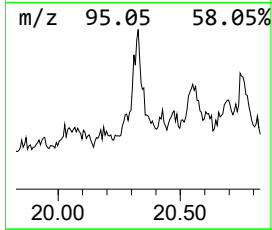
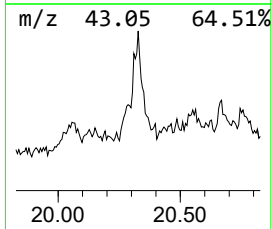
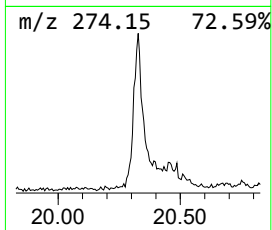
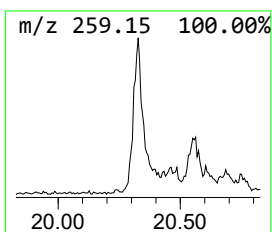
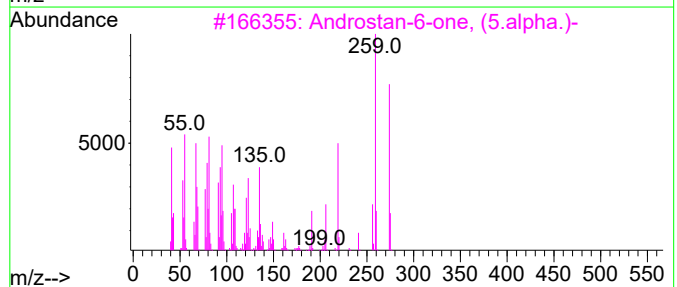
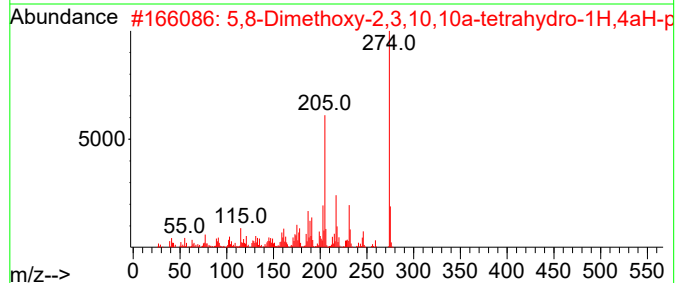
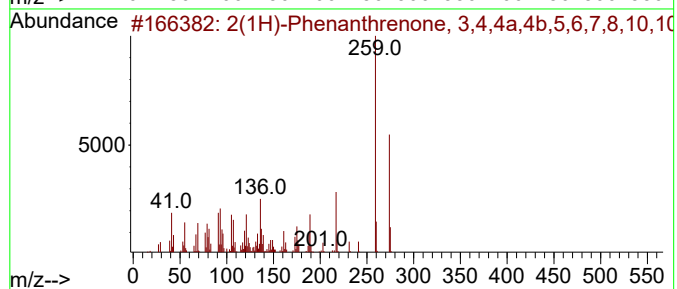
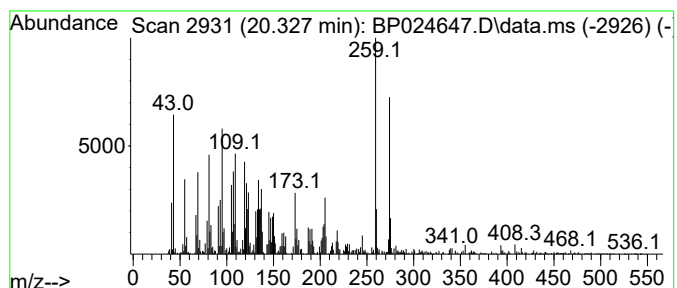
Instrument :
BNA_P
ClientSampleId :
TP-9

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 2(1H)-Phenanthrene, 3,4,4... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.	
20.327	2.82 ng	382291	Chrysene-d12	21.515	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2(1H)-Phenanthrenone, 3,4,4a,4b,...	274	C19H300	007715-44-8	83
2	5,8-Dimethoxy-2,3,10,10a-tetrahy...	274	C16H1804	093240-99-4	56
3	Androstan-6-one, (5.alpha.)-	274	C19H300	003676-06-0	53
4	(3S,6bR,8aR,12bS,14aR)-4,4,6b,8a...	468	C32H5202	1000441-99-4	53
5	D-Homoandrostan-6-one, (5.alpha.,13.a...	274	C20H34	054482-31-4	50



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024647.D
Acq On : 15 May 2025 21:25
Operator : RC/JU
Sample : Q1982-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

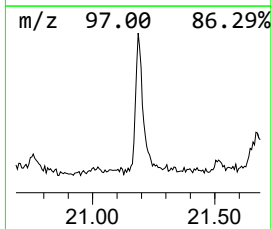
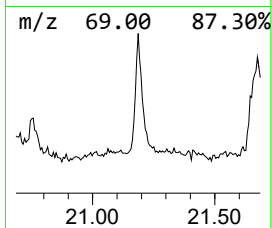
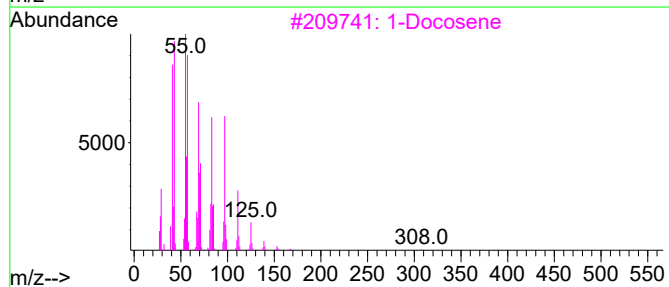
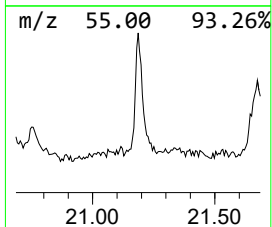
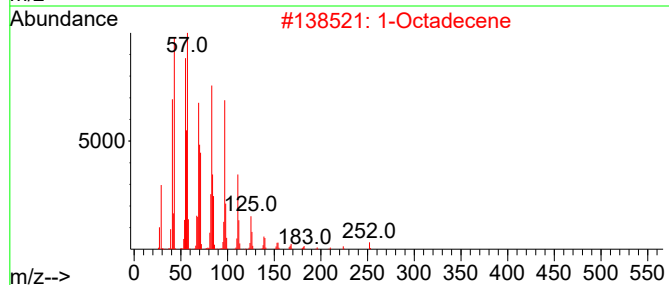
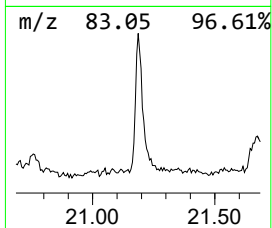
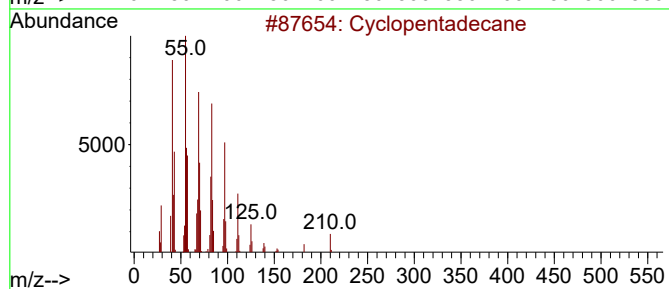
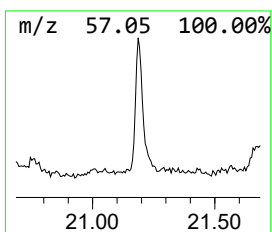
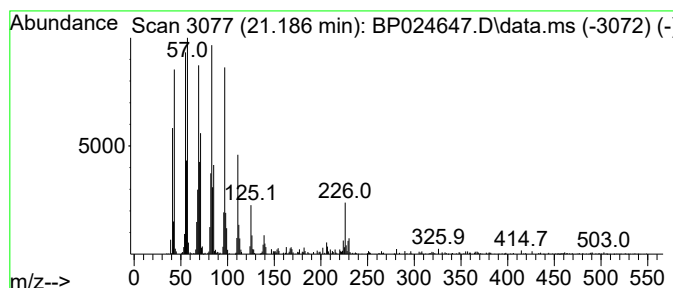
Instrument :
BNA_P
ClientSampleId :
TP-9

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Cyclopentadecane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
21.186	3.67 ng	498532	Chrysene-d12	21.515	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentadecane	210	C15H30	000295-48-7	97
2	1-Octadecene	252	C18H36	000112-88-9	96
3	1-Docosene	308	C22H44	001599-67-3	94
4	1-Tricosene	322	C23H46	018835-32-0	94
5	Cyclohexadecane	224	C16H32	000295-65-8	94



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024647.D
Acq On : 15 May 2025 21:25
Operator : RC/JU
Sample : Q1982-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

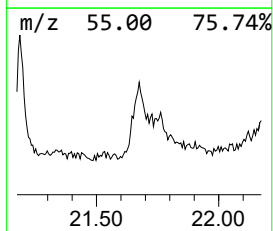
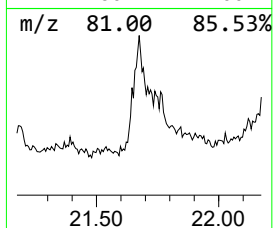
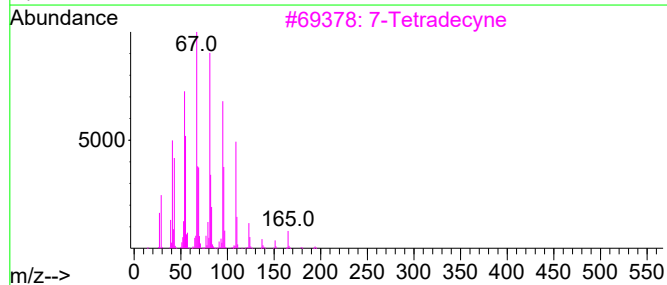
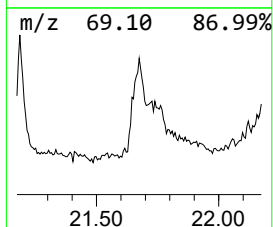
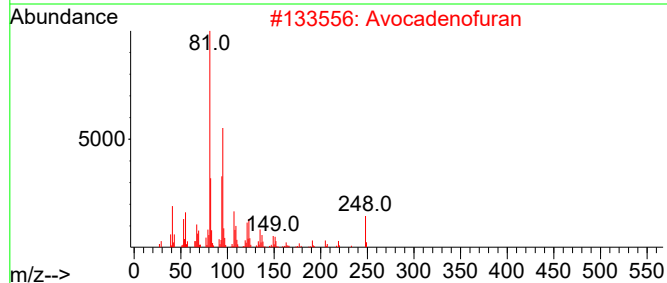
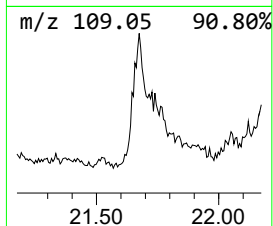
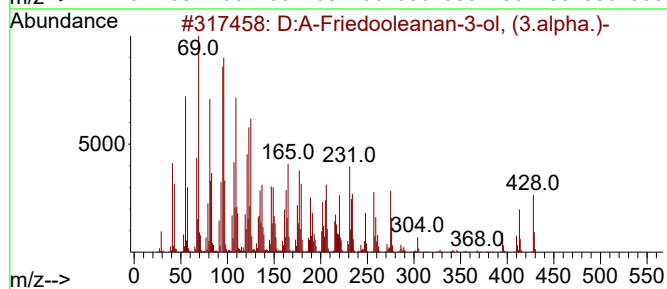
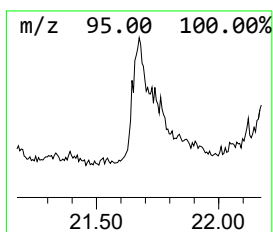
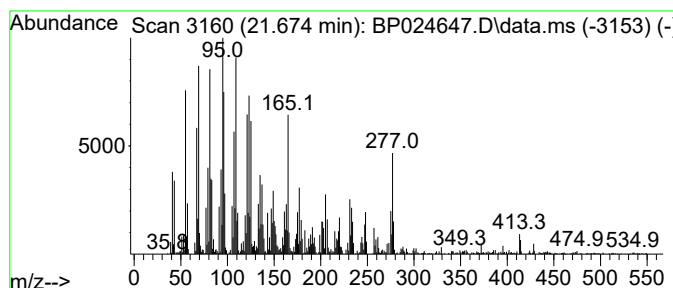
Instrument :
BNA_P
ClientSampleId :
TP-9

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 D:A-Friedooleanan-3-ol, (3.... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
21.674	6.59 ng	894428	Chrysene-d12	21.515	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D:A-Friedooleanan-3-ol, (3.alpha.)-	428	C30H52O	005085-72-3	86
2	Avocadenofuran	248	C17H28O	025346-24-1	55
3	7-Tetradecyne	194	C14H26	035216-11-6	45
4	2-(Benzyloxymethyl)-5-methylfuran	202	C13H14O2	223696-93-3	38
5	Naphthalene, decahydro-1,6-dimet...	278	C20H38	056248-64-7	38



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024647.D
Acq On : 15 May 2025 21:25
Operator : RC/JU
Sample : Q1982-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-9

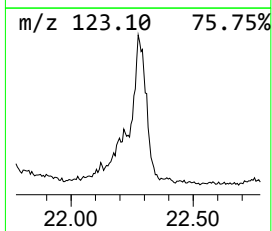
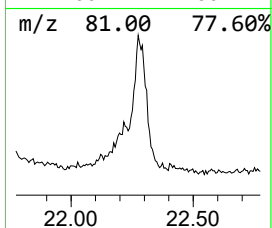
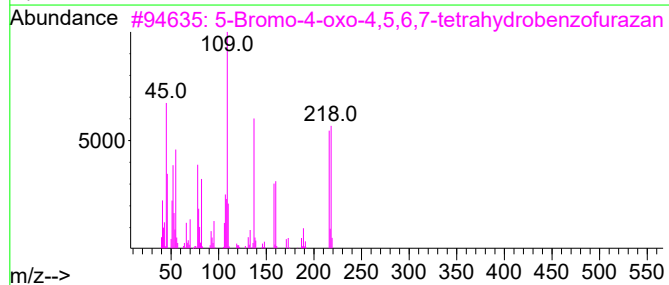
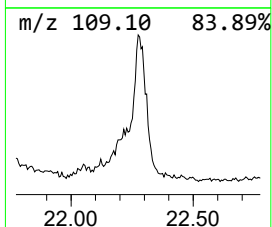
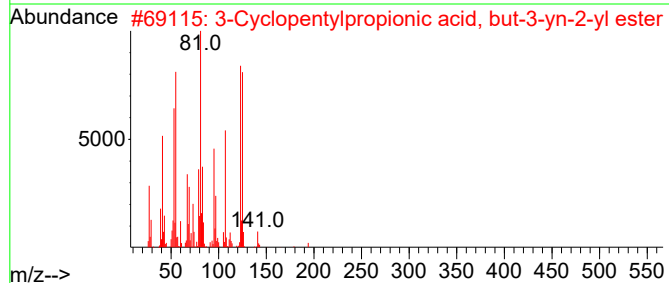
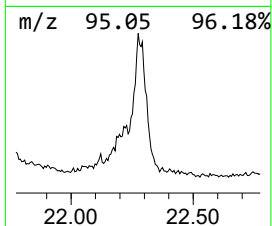
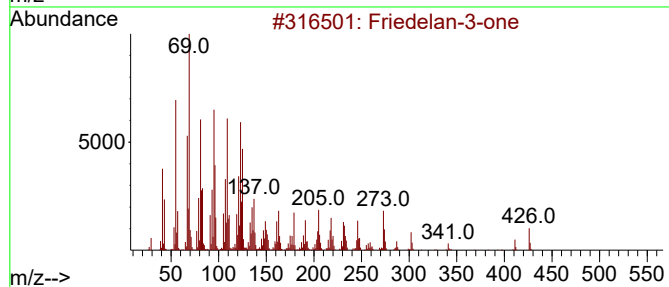
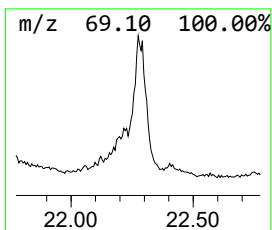
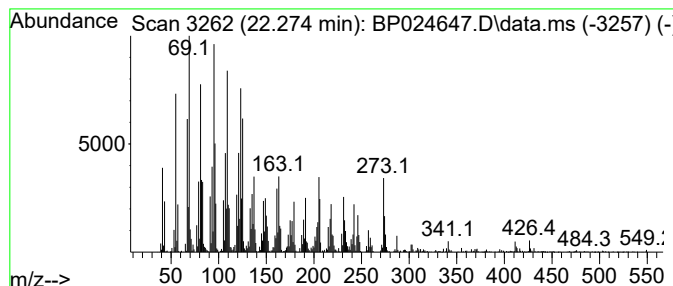
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Friedelan-3-one Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.274	6.01 ng	815956	Chrysene-d12	21.515

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Friedelan-3-one	426	C30H50O	000559-74-0	90
2			3-Cyclopentylpropionic acid, but...	194	C12H18O2	1000292-46-4	60
3			5-Bromo-4-oxo-4,5,6,7-tetrahydro...	216	C6H5BrN2O2	300574-36-1	59
4			Silane, monochloride, methylviny...	218	C10H19ClOSi	1000421-09-7	55
5			1H-Cycloprop[e]azulen-4-ol, deca...	222	C15H26O	000552-02-3	53



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024647.D
Acq On : 15 May 2025 21:25
Operator : RC/JU
Sample : Q1982-08
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-9

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-...	4.828	4.7	ng	221666	1	7.663	952319	20.0
Benzophenone	15.675	3.5	ng	290748	3	14.292	1654870	20.0
n-Hexadecanoic ...	18.033	7.5	ng	715259	4	17.092	1901180	20.0
2(1H)-Phenanthr...	20.327	2.8	ng	382291	5	21.515	2714050	20.0
Cyclopentadecane	21.186	3.7	ng	498532	5	21.515	2714050	20.0
D:A-Friedoolean...	21.674	6.6	ng	894428	5	21.515	2714050	20.0
Friedelan-3-one	22.274	6.0	ng	815956	5	21.515	2714050	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142394.D
Acq On : 15 May 2025 16:10
Operator : RC/JU
Sample : PB167953BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167953BL

Quant Time: May 15 16:28:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	167151	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	651521	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	343903	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	581369	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	340684	20.000	ng	0.00
86) Perylene-d12	15.551	264	283265	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	1185177	121.040	ng	0.01
7) Phenol-d6	6.522	99	1424873	118.316	ng	0.00
23) Nitrobenzene-d5	7.463	82	882042	82.566	ng	0.00
42) 2,4,6-Tribromophenol	10.727	330	438629	132.104	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	1808294	74.975	ng	0.00
79) Terphenyl-d14	13.010	244	1741142	75.644	ng	0.00

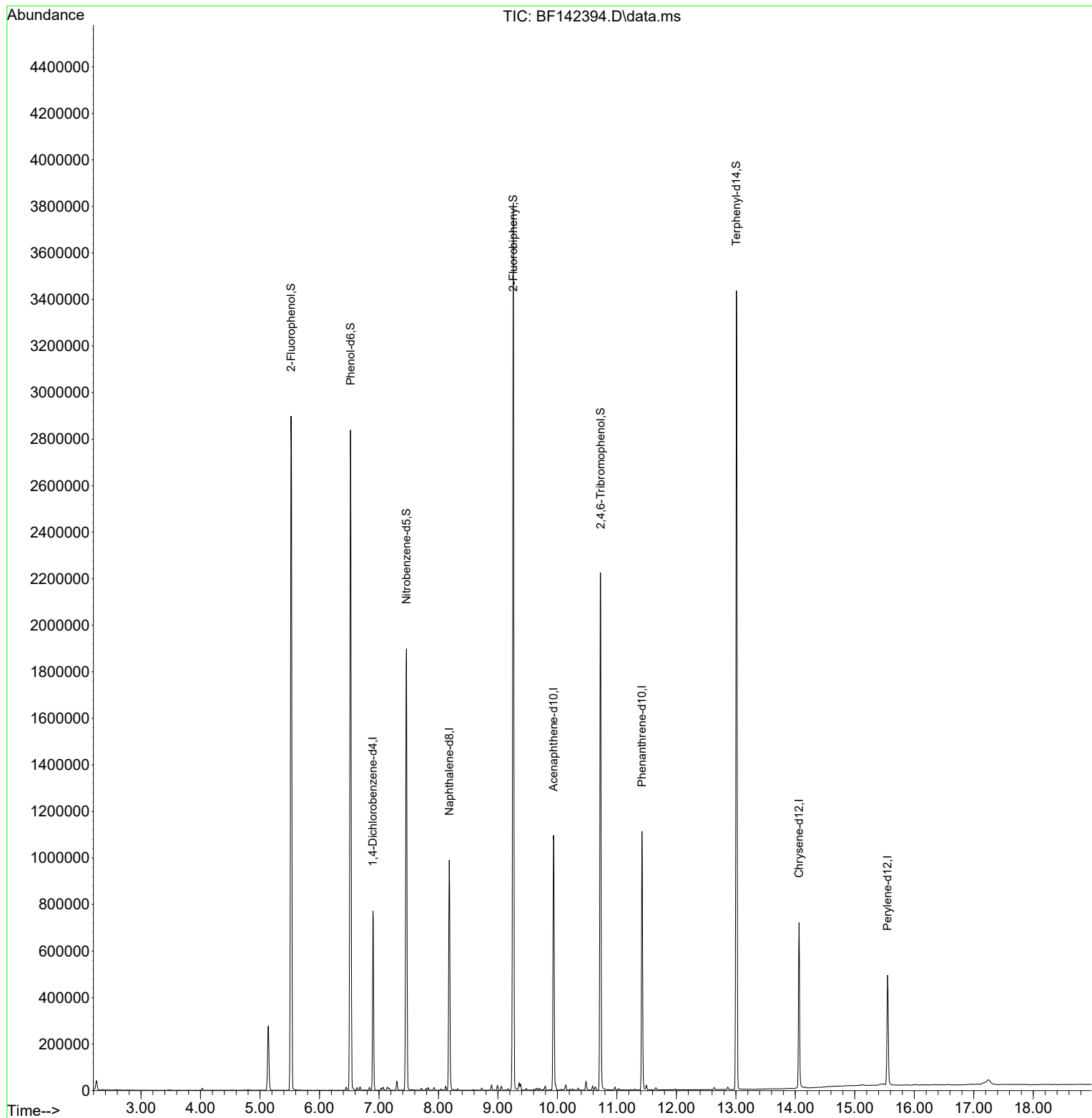
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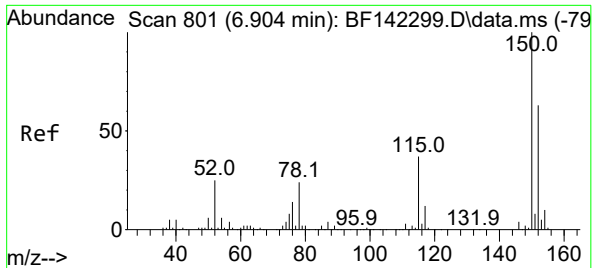
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142394.D
Acq On : 15 May 2025 16:10
Operator : RC/JU
Sample : PB167953BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167953BL

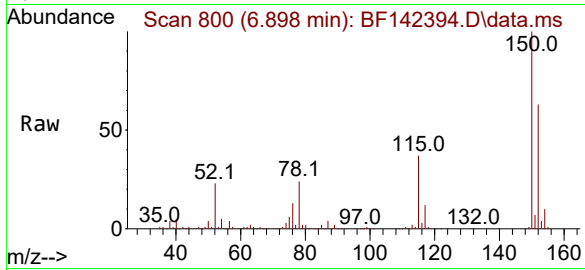
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration



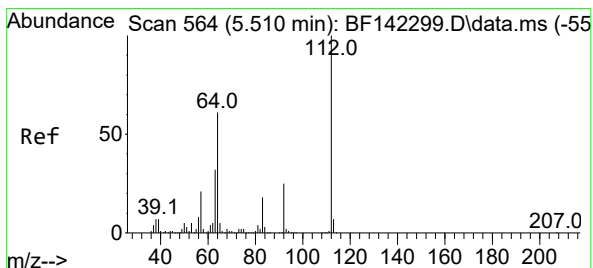
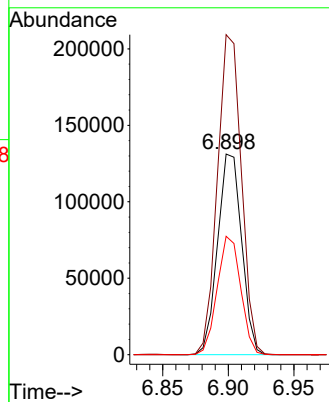
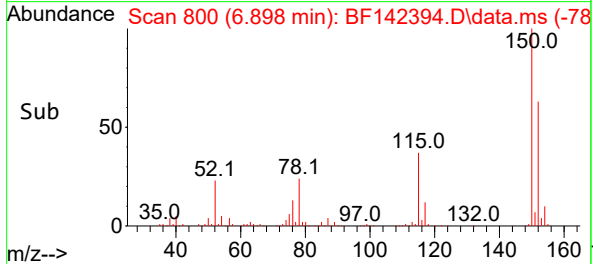


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 801
Delta R.T. -0.006 min
Lab File: BF142394.D
Acq: 15 May 2025 16:10

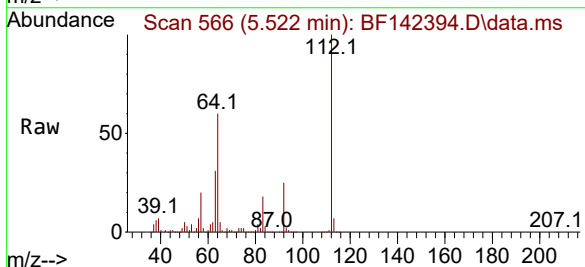
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ClientSampleId :
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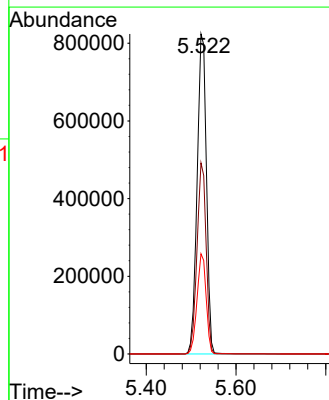
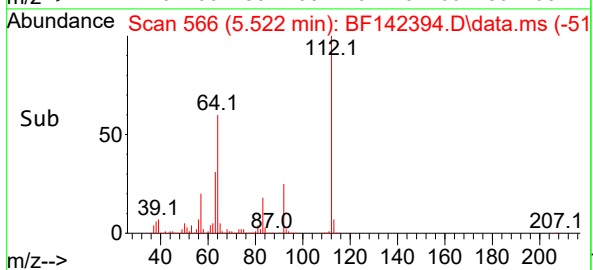
Tgt Ion:152 Resp: 167151
Ion Ratio Lower Upper
152 100
150 159.5 126.6 190.0
115 59.0 47.3 70.9

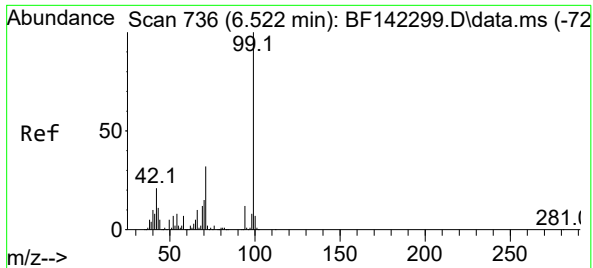


#5
2-Fluorophenol
Concen: 121.040 ng
RT: 5.522 min Scan# 566
Delta R.T. 0.012 min
Lab File: BF142394.D
Acq: 15 May 2025 16:10



Tgt Ion:112 Resp: 1185177
Ion Ratio Lower Upper
112 100
64 59.7 48.9 73.3
63 31.3 25.6 38.4

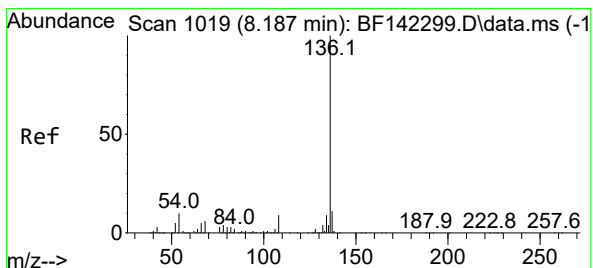
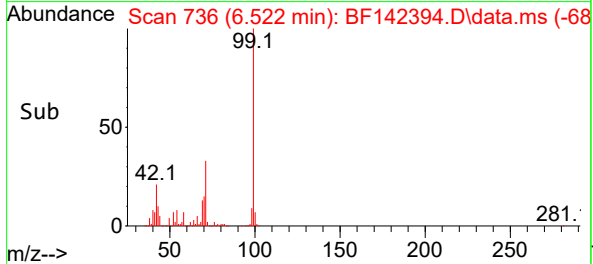
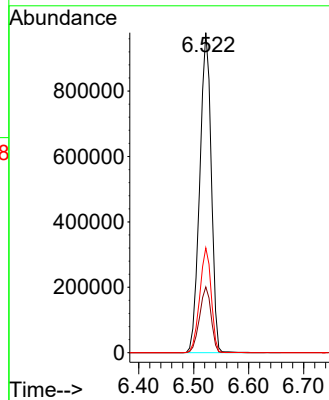
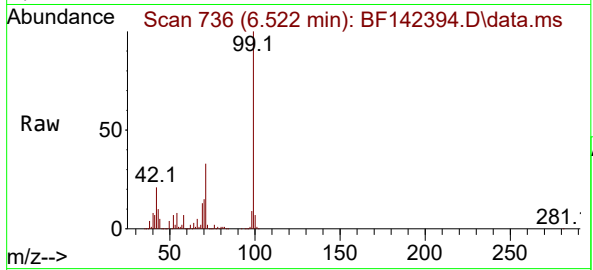




#7
Phenol-d6
Concen: 118.316 ng
RT: 6.522 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF142394.D
Acq: 15 May 2025 16:10

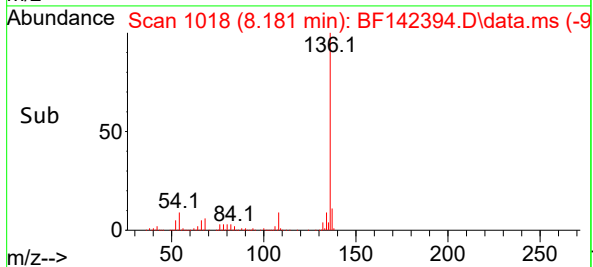
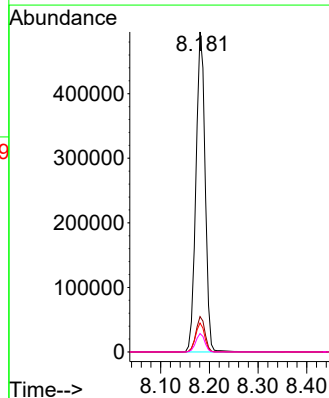
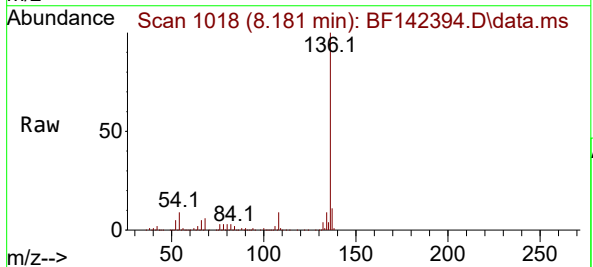
Instrument :
BNA_F
ClientSampleId :
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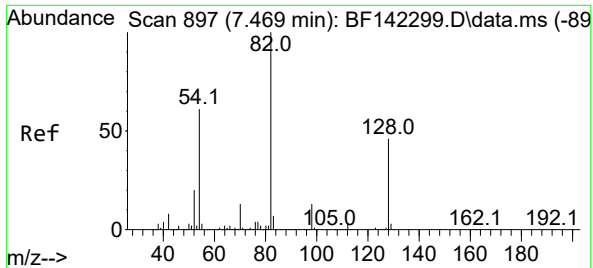
Tgt Ion: 99 Resp: 1424873
Ion Ratio Lower Upper
99 100
42 20.6 17.0 25.4
71 32.8 25.8 38.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142394.D
Acq: 15 May 2025 16:10

Tgt Ion: 136 Resp: 651521
Ion Ratio Lower Upper
136 100
137 11.1 8.9 13.3
54 9.1 7.7 11.5
68 5.8 4.9 7.3





#23

Nitrobenzene-d5

Concen: 82.566 ng

RT: 7.463 min Scan# 897

Delta R.T. -0.006 min

Lab File: BF142394.D

Acq: 15 May 2025 16:10

Instrument :

BNA_F

ClientSampleId :

PB167953BL

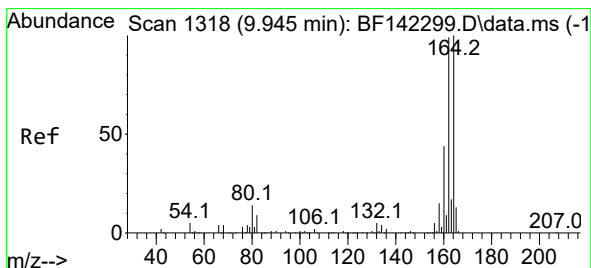
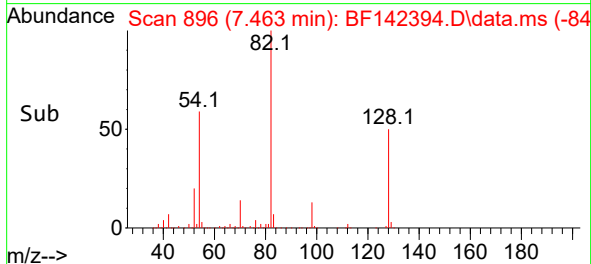
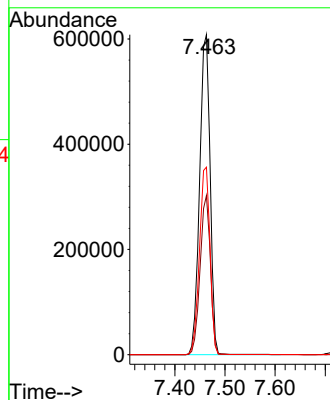
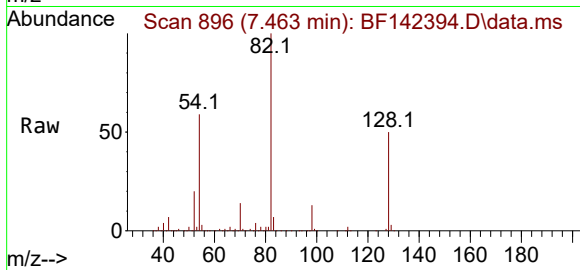
Tgt Ion: 82 Resp: 882042

Ion Ratio Lower Upper

82 100

128 49.7 37.0 55.6

54 58.6 48.6 73.0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.933 min Scan# 1316

Delta R.T. -0.012 min

Lab File: BF142394.D

Acq: 15 May 2025 16:10

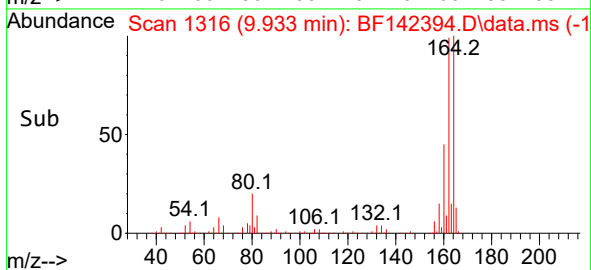
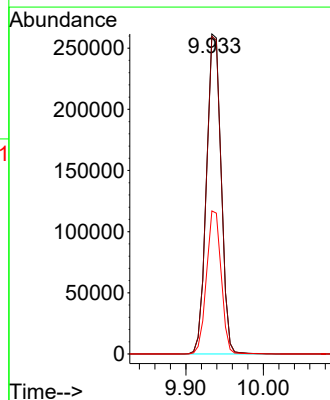
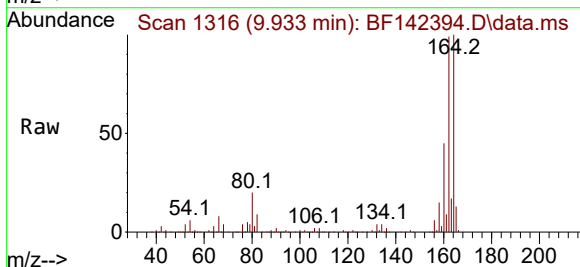
Tgt Ion: 164 Resp: 343903

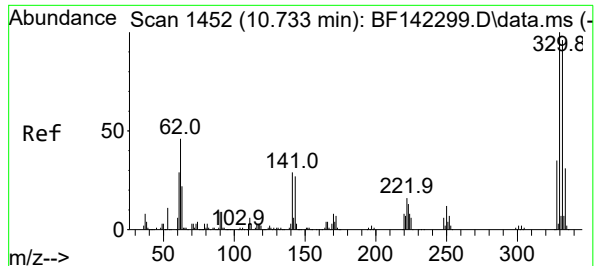
Ion Ratio Lower Upper

164 100

162 99.2 79.2 118.8

160 44.7 35.3 52.9





#42

2,4,6-Tribromophenol

Concen: 132.104 ng

RT: 10.727 min Scan# 1451

Delta R.T. -0.006 min

Lab File: BF142394.D

Acq: 15 May 2025 16:10

Instrument :

BNA_F

ClientSampleId :

PB167953BL

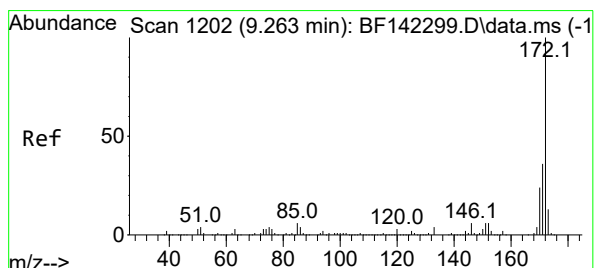
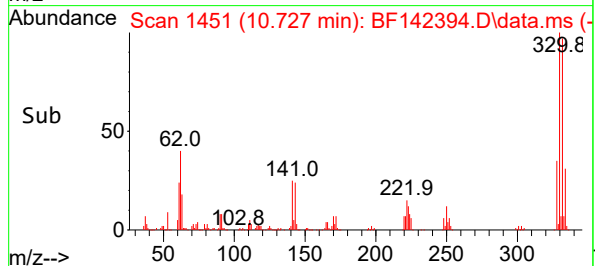
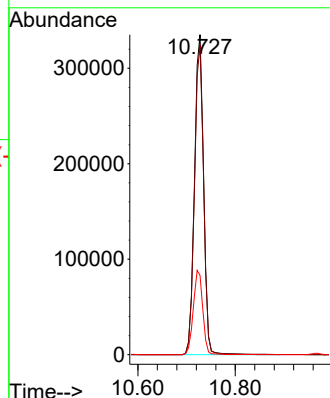
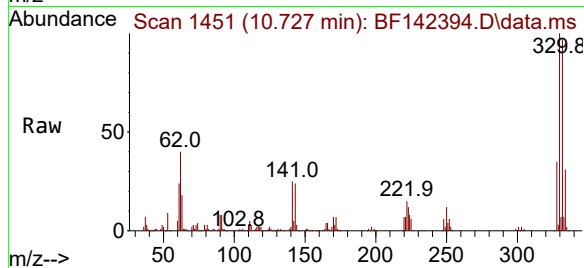
Tgt Ion:330 Resp: 438629

Ion Ratio Lower Upper

330 100

332 96.9 76.8 115.2

141 27.3 24.9 37.3



#45

2-Fluorobiphenyl

Concen: 74.975 ng

RT: 9.257 min Scan# 1201

Delta R.T. -0.006 min

Lab File: BF142394.D

Acq: 15 May 2025 16:10

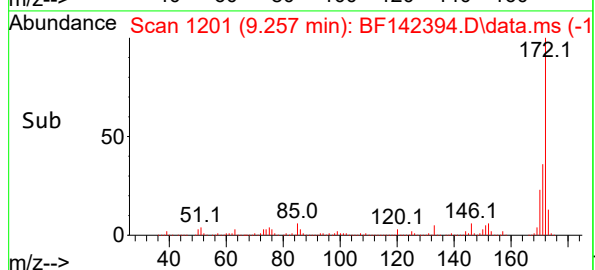
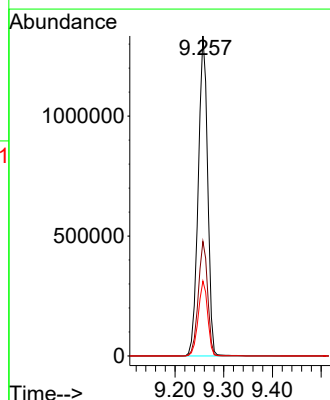
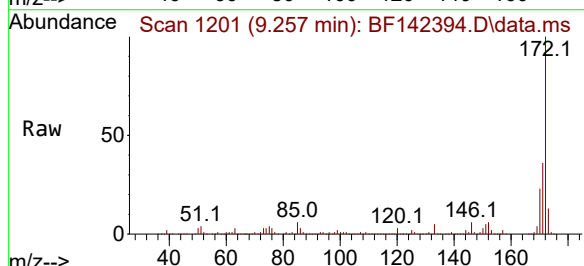
Tgt Ion:172 Resp: 1808294

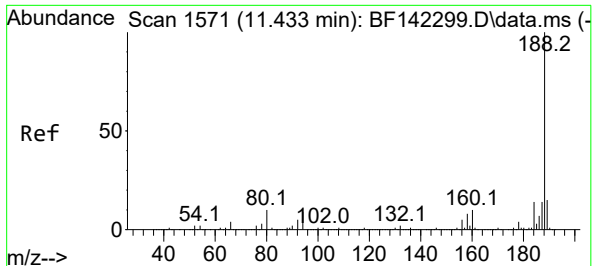
Ion Ratio Lower Upper

172 100

171 35.8 28.6 42.8

170 23.4 19.0 28.4

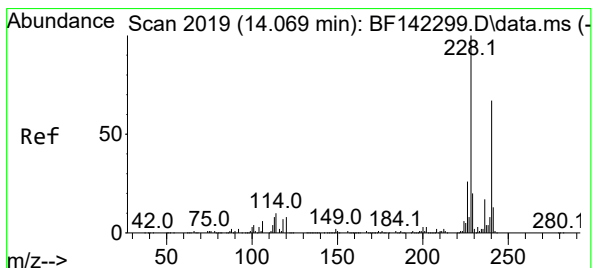
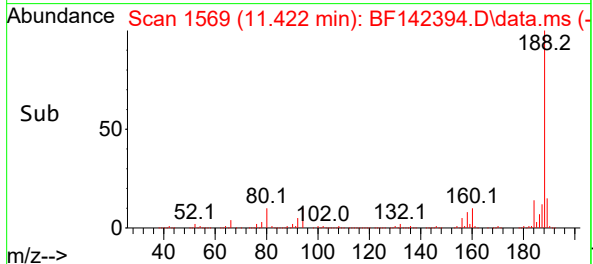
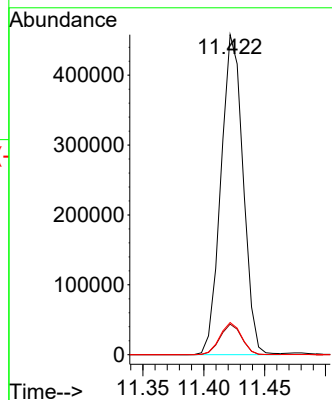
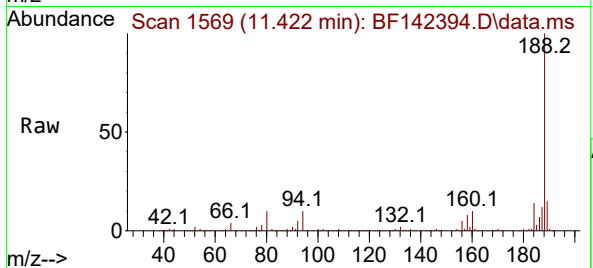




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1569
Delta R.T. -0.012 min
Lab File: BF142394.D
Acq: 15 May 2025 16:10

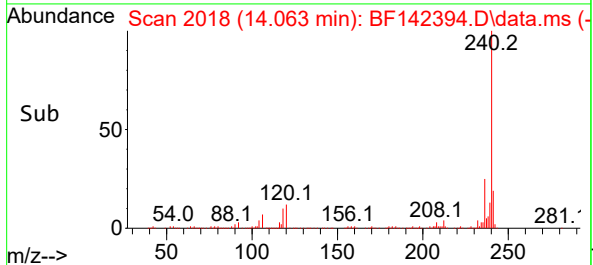
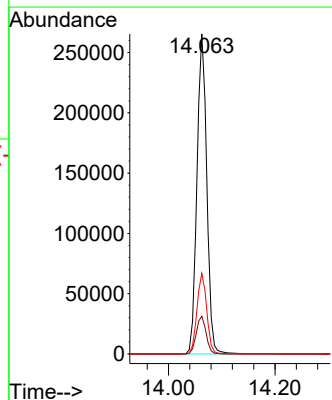
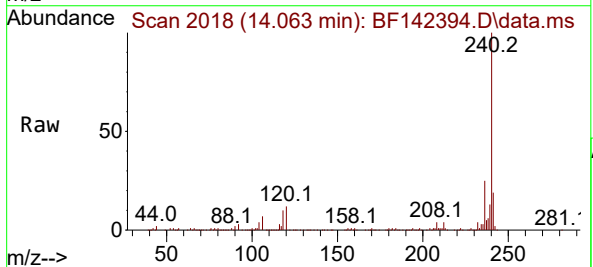
Instrument :
BNA_F
ClientSampleId :
PB167953BL

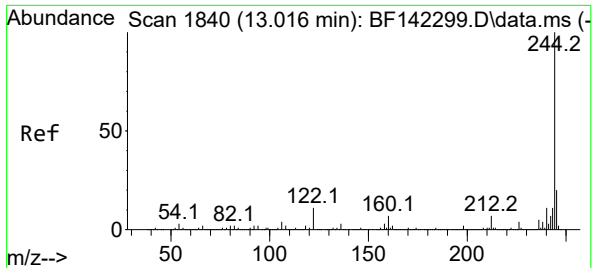
Tgt Ion:188 Resp: 581369
Ion Ratio Lower Upper
188 100
94 9.6 7.5 11.3
80 10.1 7.9 11.9



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.006 min
Lab File: BF142394.D
Acq: 15 May 2025 16:10

Tgt Ion:240 Resp: 340684
Ion Ratio Lower Upper
240 100
120 11.8 9.7 14.5
236 25.2 20.0 30.0





#79

Terphenyl-d14

Concen: 75.644 ng

RT: 13.010 min Scan# 1839

Delta R.T. -0.006 min

Lab File: BF142394.D

Acq: 15 May 2025 16:10

Instrument :

BNA_F

ClientSampleId :

PB167953BL

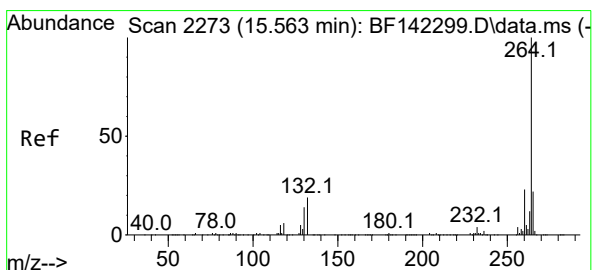
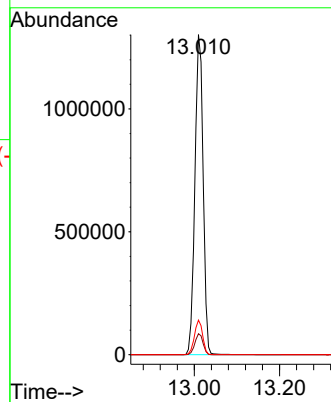
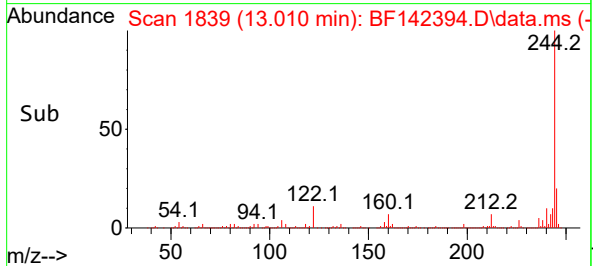
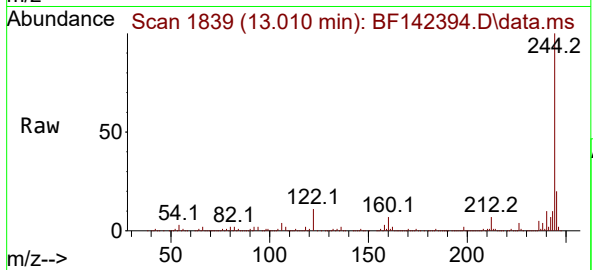
Tgt Ion:244 Resp: 1741142

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.2

122 10.8 9.0 13.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 2271

Delta R.T. -0.012 min

Lab File: BF142394.D

Acq: 15 May 2025 16:10

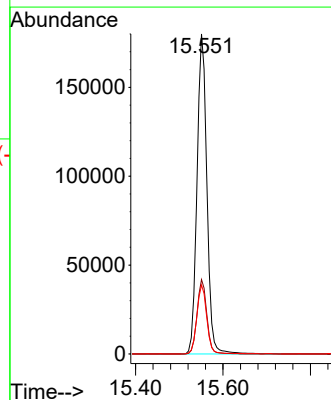
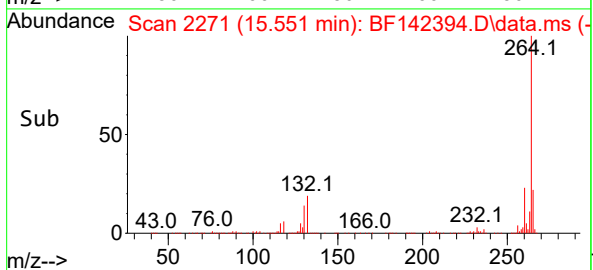
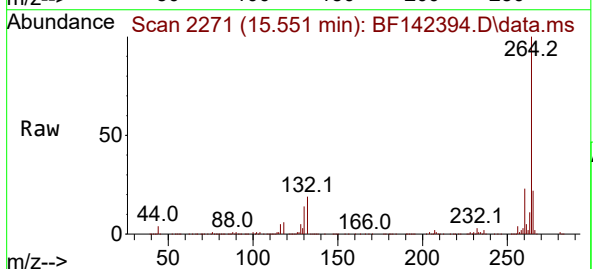
Tgt Ion:264 Resp: 283265

Ion Ratio Lower Upper

264 100

260 23.2 18.6 27.8

265 21.5 17.5 26.3



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142394.D
Acq On : 15 May 2025 16:10
Operator : RC/JU
Sample : PB167953BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167953BL

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Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142394.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.252	3	10	17	rVB	39905	68812	1.35%	0.221%
2	5.140	493	501	511	rVB	276806	460850	9.05%	1.479%
3	5.522	559	566	572	rBV	2897316	4109379	80.71%	13.187%
4	6.522	729	736	741	rBV	2837527	4135768	81.22%	13.272%
5	6.898	795	800	808	rBV	771539	984056	19.33%	3.158%
6	7.298	863	868	876	rBV	37906	52266	1.03%	0.168%
7	7.463	889	896	901	rBV	1896056	2748694	53.98%	8.821%
8	8.181	1012	1018	1030	rBV	989680	1320148	25.93%	4.237%
9	9.257	1194	1201	1206	rBV	3809371	5091745	100.00%	16.340%
10	9.933	1311	1316	1321	rBV	1093822	1436726	28.22%	4.611%
11	10.480	1404	1409	1420	rBV2	36991	51855	1.02%	0.166%
12	10.722	1444	1450	1467	rBV	2222801	3066389	60.22%	9.840%
13	11.422	1564	1569	1577	rBV	1111118	1429258	28.07%	4.587%
14	13.010	1833	1839	1845	rBV	3432781	4547695	89.32%	14.594%
15	14.063	2012	2018	2030	rBV	709575	928731	18.24%	2.980%
16	15.551	2265	2271	2283	rBV	471168	728806	14.31%	2.339%

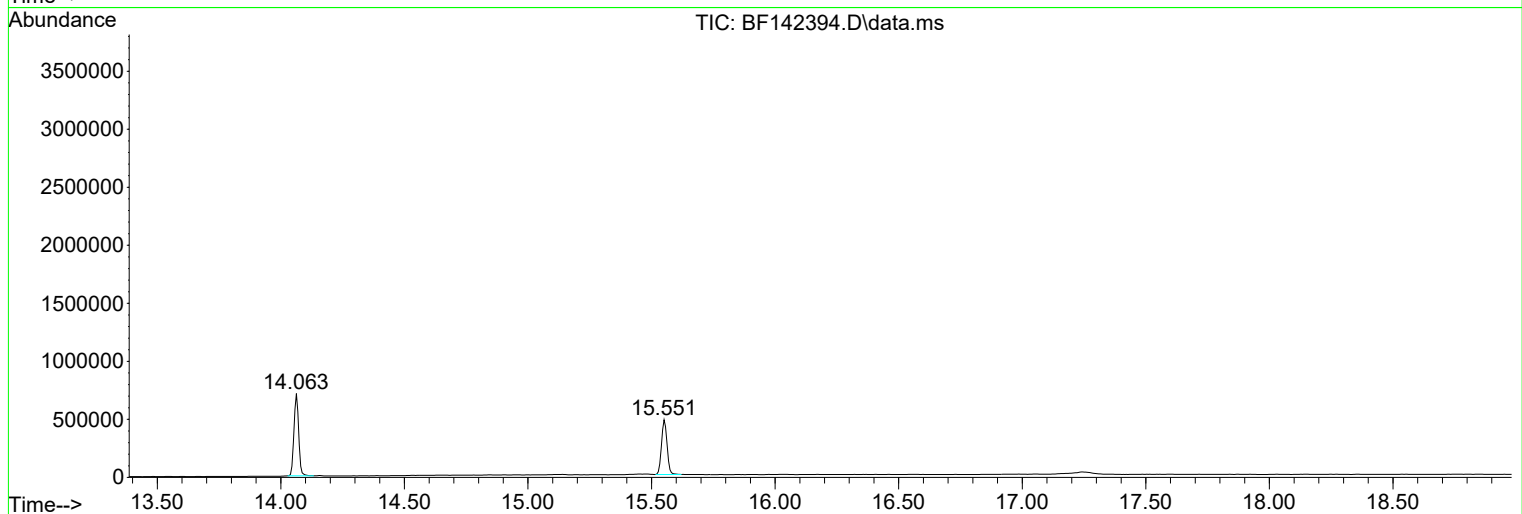
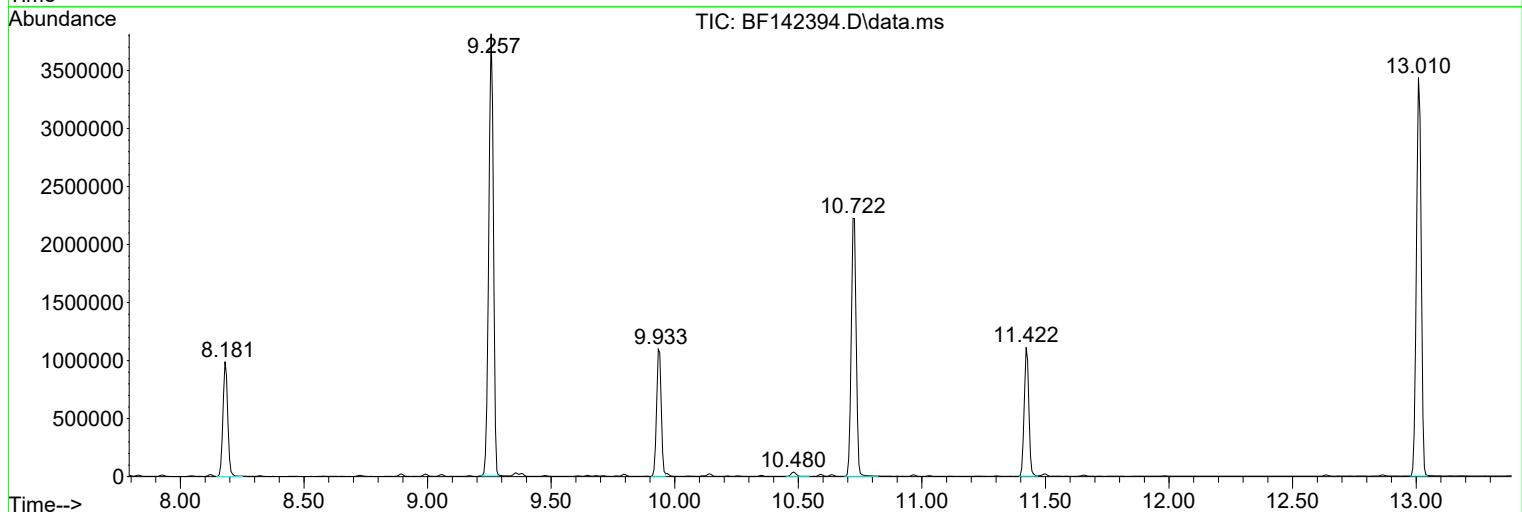
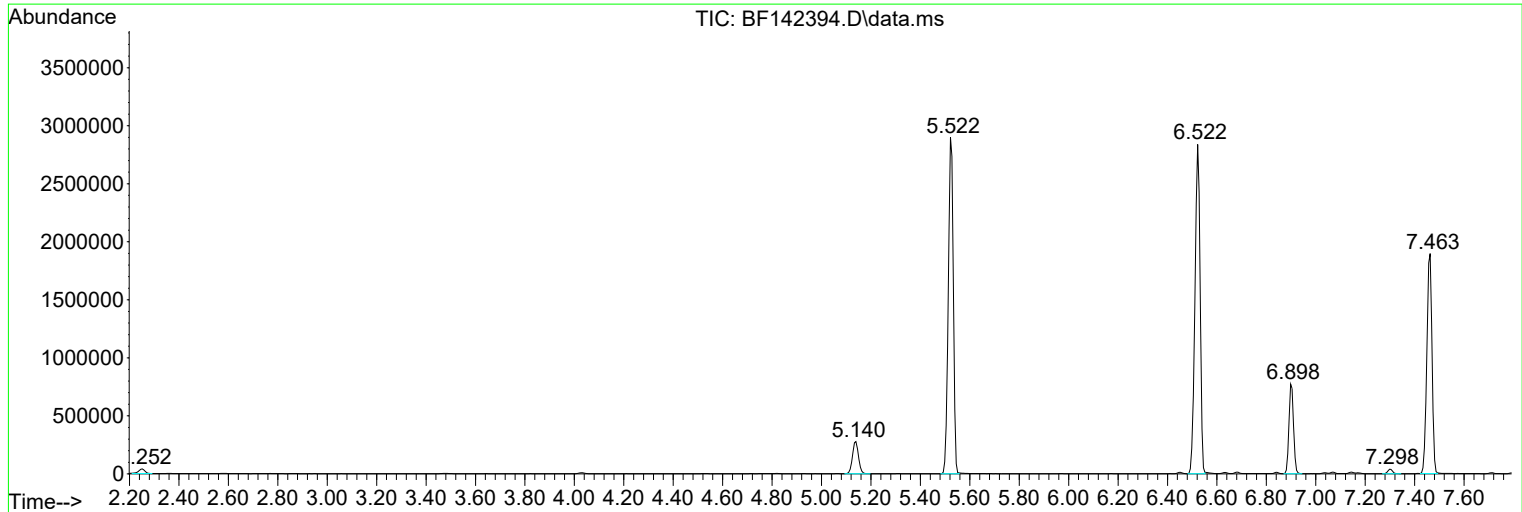
Sum of corrected areas: 31161178

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142394.D
Acq On : 15 May 2025 16:10
Operator : RC/JU
Sample : PB167953BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167953BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142394.D
Acq On : 15 May 2025 16:10
Operator : RC/JU
Sample : PB167953BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

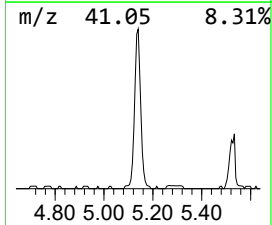
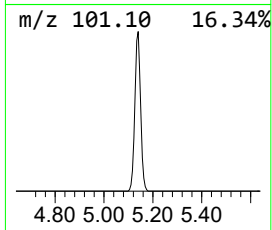
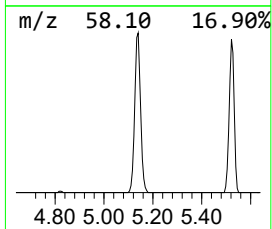
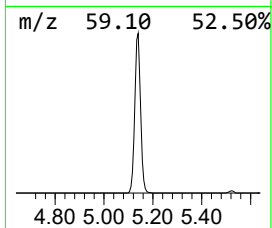
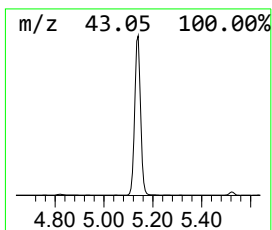
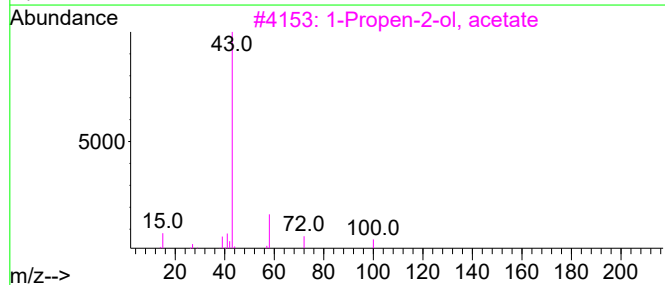
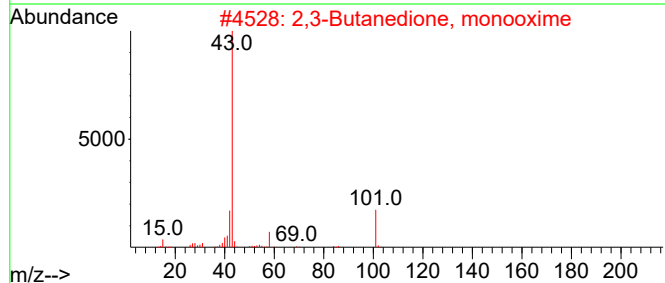
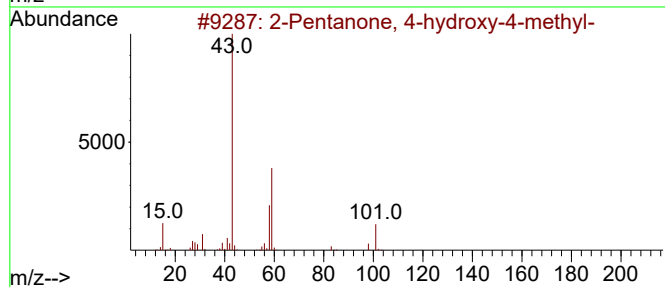
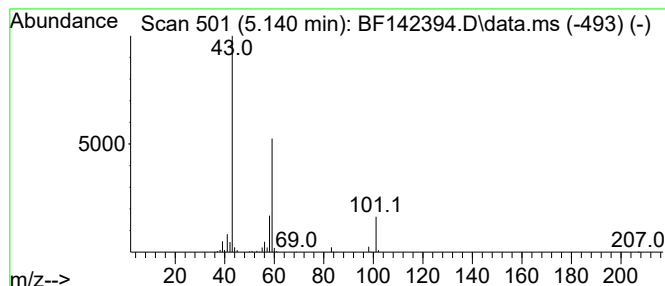
Instrument :
BNA_F
ClientSampleId :
PB167953BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.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.
5.140	9.37 ng	460850	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	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16	
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12	
4	3-Hydroxy-3-methyl-2-butanone	102	C5H10O2	000115-22-0	9	
5	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	9	



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
Data File : BF142394.D
Acq On : 15 May 2025 16:10
Operator : RC/JU
Sample : PB167953BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB167953BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.140	9.4	ng	460850	1	6.898	984056	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024635.D
Acq On : 15 May 2025 13:05
Operator : RC/JU
Sample : PB167973BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167973BL

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Quant Time: May 15 13:42:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.658	152	146276	20.000	ng	0.00
21) Naphthalene-d8	10.434	136	564318	20.000	ng	0.00
39) Acenaphthene-d10	14.293	164	357828	20.000	ng	-0.01
64) Phenanthrene-d10	17.087	188	764705	20.000	ng	-0.01
76) Chrysene-d12	21.516	240	884123	20.000	ng	0.00
86) Perylene-d12	24.804	264	966019	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	1227824	143.566	ng	0.00
7) Phenol-d6	6.852	99	1498528	137.290	ng	0.00
23) Nitrobenzene-d5	8.811	82	916951	82.100	ng	0.00
42) 2,4,6-Tribromophenol	15.804	330	871050	143.590	ng	0.00
45) 2-Fluorobiphenyl	12.904	172	2149900	78.715	ng	0.00
79) Terphenyl-d14	19.816	244	4357069	84.502	ng	0.00

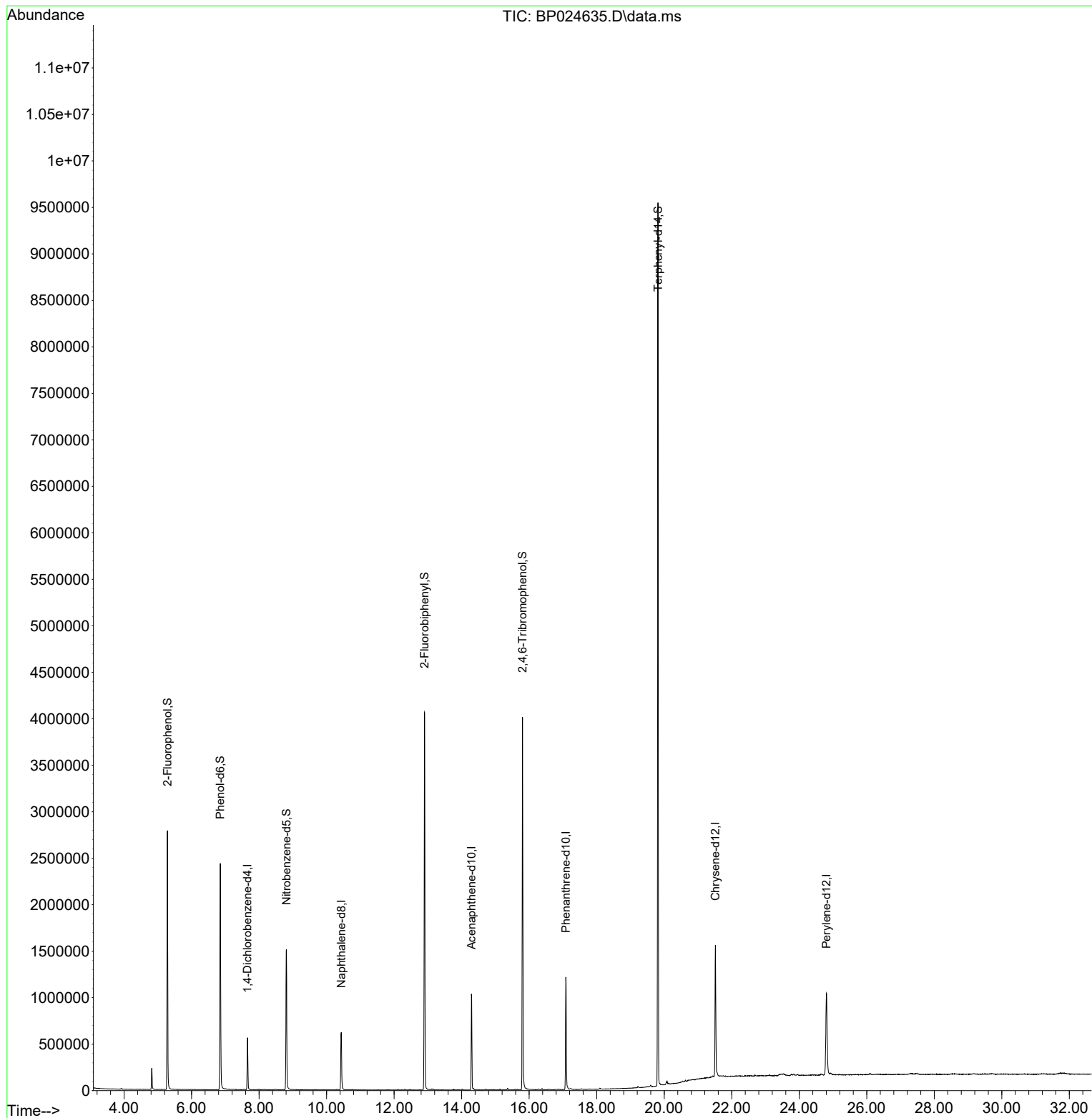
Target Compounds	Qvalue

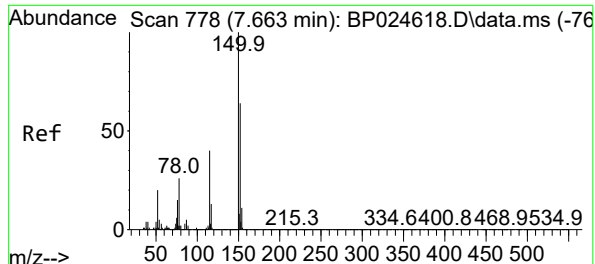
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024635.D
Acq On : 15 May 2025 13:05
Operator : RC/JU
Sample : PB167973BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167973BL

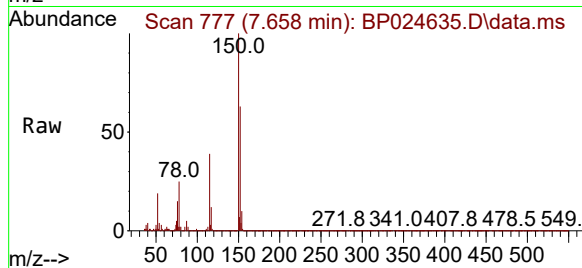
Quant Time: May 15 13:42:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



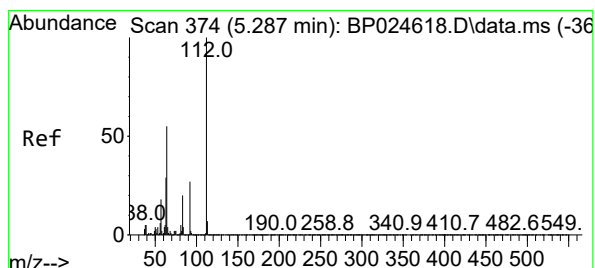
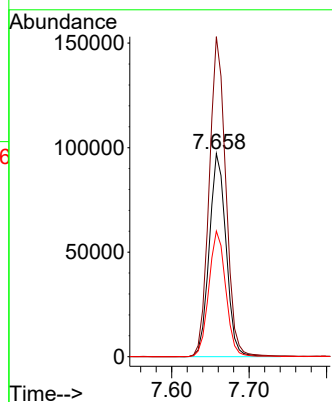
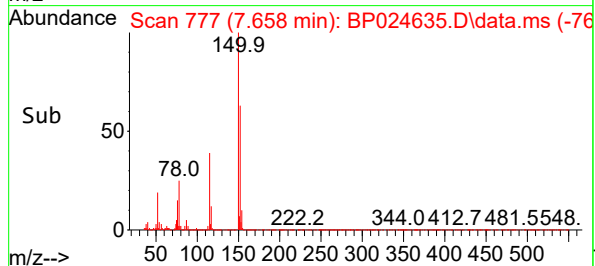


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.658 min Scan# 71
Delta R.T. -0.005 min
Lab File: BP024635.D
Acq: 15 May 2025 13:05

Instrument :
BNA_P
ClientSampleId :
PB167973BL

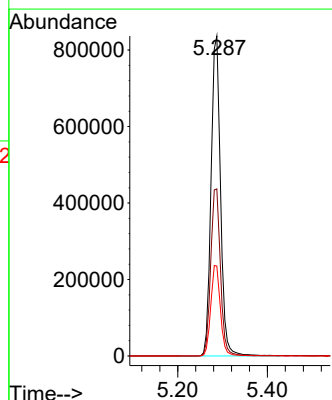
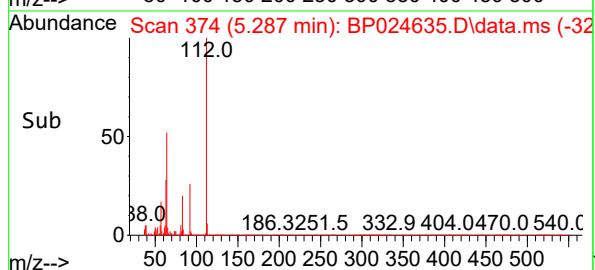
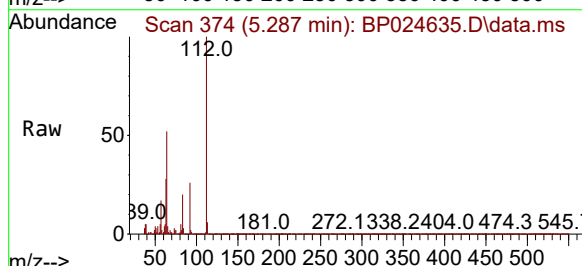


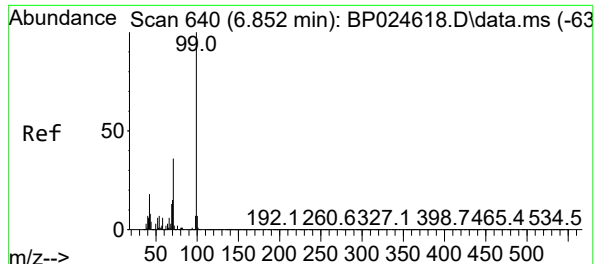
Tgt Ion:152 Resp: 146276
Ion Ratio Lower Upper
152 100
150 157.7 125.9 188.9
115 61.9 50.1 75.1



#5
2-Fluorophenol
Concen: 143.566 ng
RT: 5.287 min Scan# 374
Delta R.T. 0.000 min
Lab File: BP024635.D
Acq: 15 May 2025 13:05

Tgt Ion:112 Resp: 1227824
Ion Ratio Lower Upper
112 100
64 52.2 44.1 66.1
63 28.1 23.5 35.3

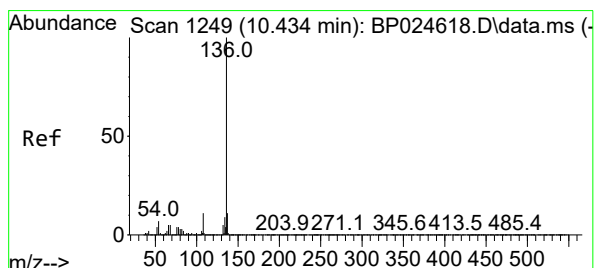
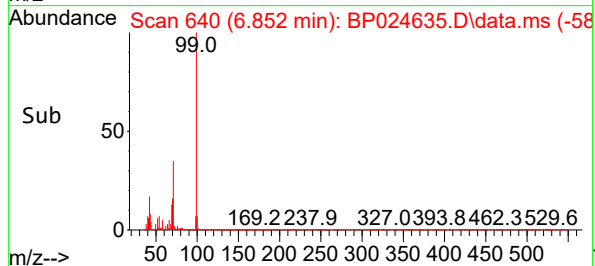
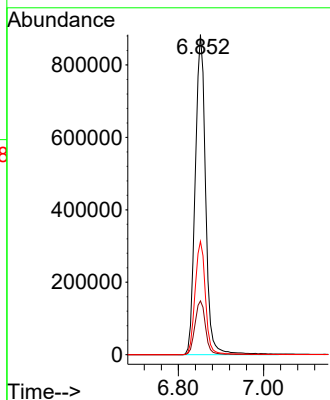
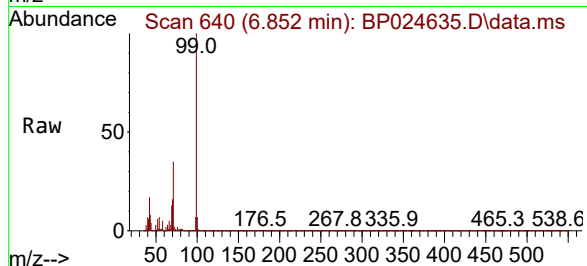




#7
Phenol-d6
Concen: 137.290 ng
RT: 6.852 min Scan# 640
Delta R.T. 0.000 min
Lab File: BP024635.D
Acq: 15 May 2025 13:05

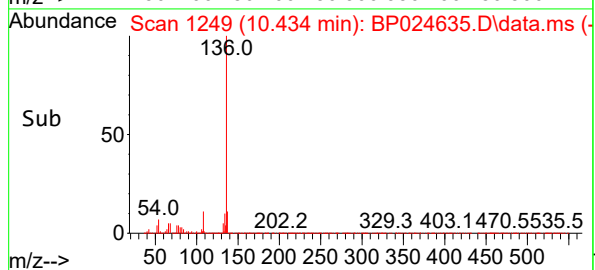
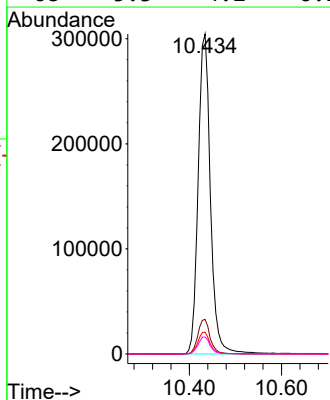
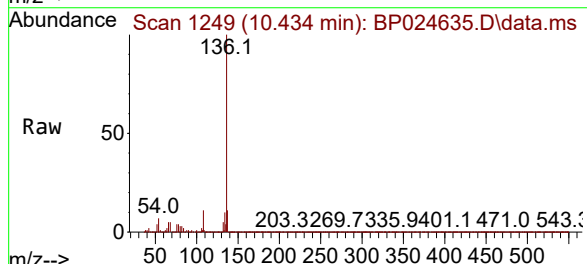
Instrument :
BNA_P
ClientSampleId :
PB167973BL

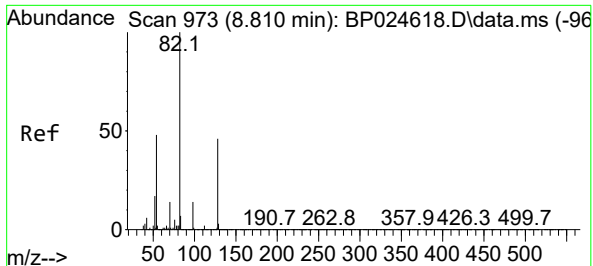
Tgt Ion: 99 Resp: 1498528
Ion Ratio Lower Upper
99 100
42 16.8 14.4 21.6
71 35.4 29.2 43.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.434 min Scan# 1249
Delta R.T. -0.000 min
Lab File: BP024635.D
Acq: 15 May 2025 13:05

Tgt Ion:136 Resp: 564318
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 6.8 5.5 8.3
68 5.3 4.2 6.2





#23

Nitrobenzene-d5

Concen: 82.100 ng

RT: 8.811 min Scan# 91

Delta R.T. 0.000 min

Lab File: BP024635.D

Acq: 15 May 2025 13:05

Instrument :

BNA_P

ClientSampleId :

PB167973BL

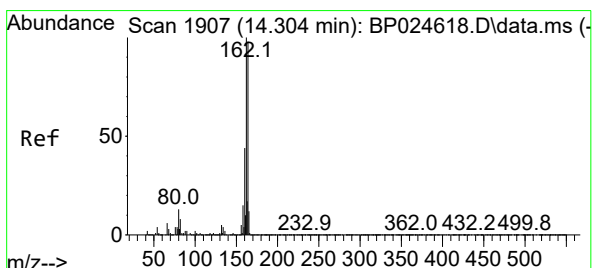
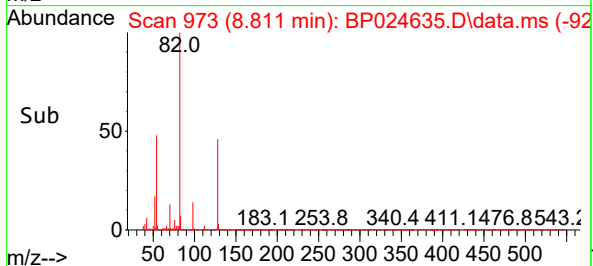
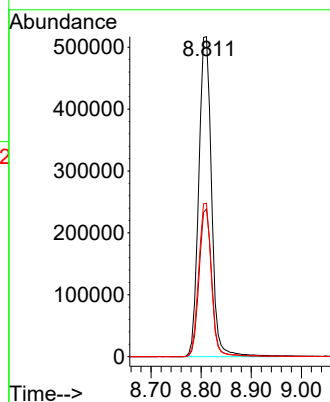
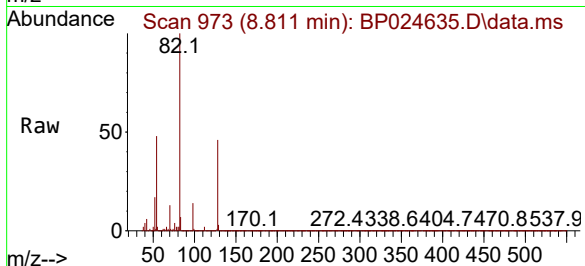
Tgt Ion: 82 Resp: 916951

Ion Ratio Lower Upper

82 100

128 46.2 37.0 55.4

54 47.9 38.7 58.1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.293 min Scan# 1905

Delta R.T. -0.012 min

Lab File: BP024635.D

Acq: 15 May 2025 13:05

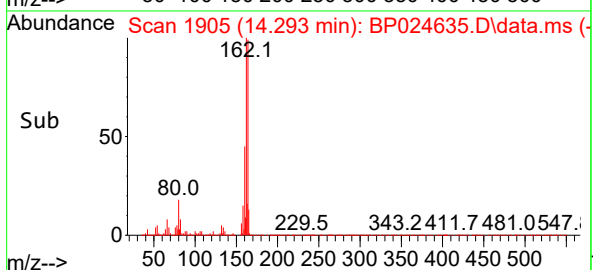
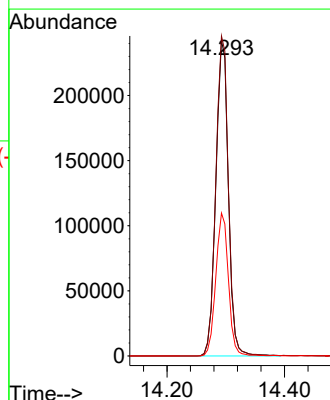
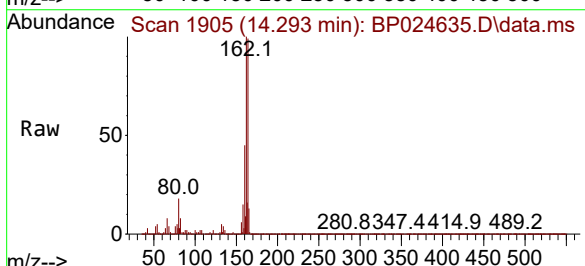
Tgt Ion:164 Resp: 357828

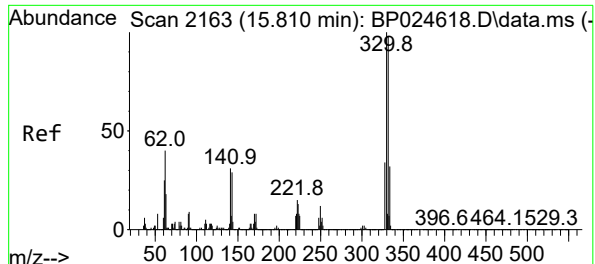
Ion Ratio Lower Upper

164 100

162 101.3 81.8 122.6

160 45.2 36.3 54.5





#42

2,4,6-Tribromophenol

Concen: 143.590 ng

RT: 15.804 min Scan# 2163

Delta R.T. -0.006 min

Lab File: BP024635.D

Acq: 15 May 2025 13:05

Instrument :

BNA_P

ClientSampleId :

PB167973BL

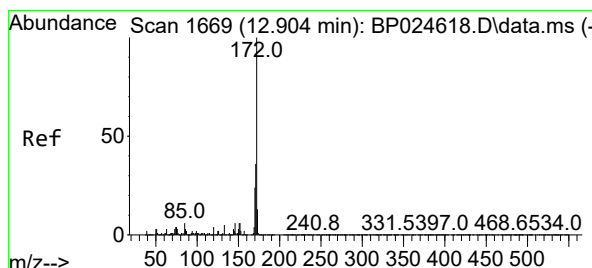
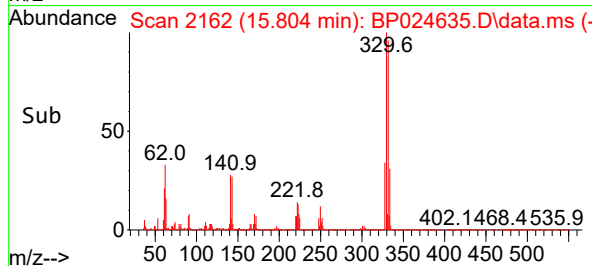
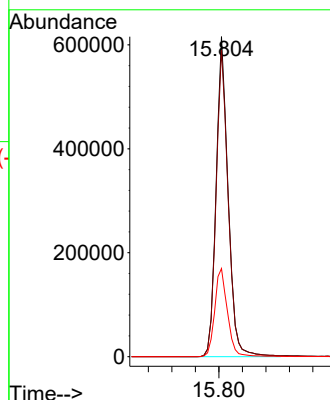
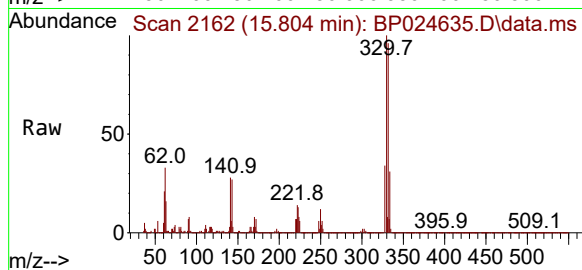
Tgt Ion:330 Resp: 871050

Ion Ratio Lower Upper

330 100

332 97.6 78.2 117.4

141 29.3 24.3 36.5



#45

2-Fluorobiphenyl

Concen: 78.715 ng

RT: 12.904 min Scan# 1669

Delta R.T. 0.000 min

Lab File: BP024635.D

Acq: 15 May 2025 13:05

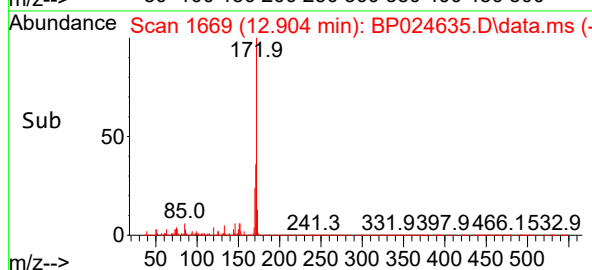
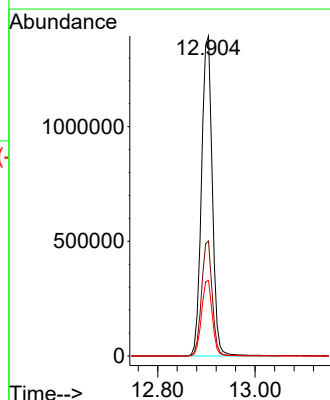
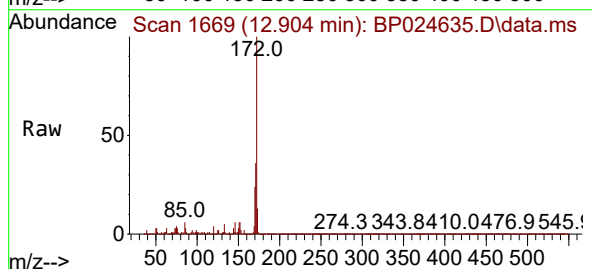
Tgt Ion:172 Resp: 2149900

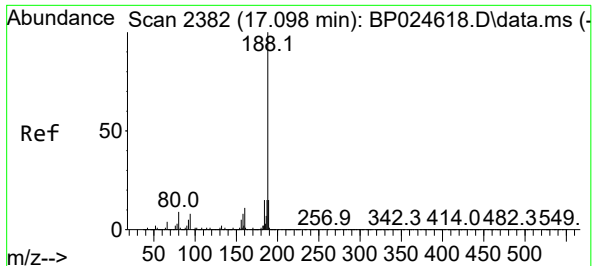
Ion Ratio Lower Upper

172 100

171 35.9 28.8 43.2

170 23.7 18.8 28.2

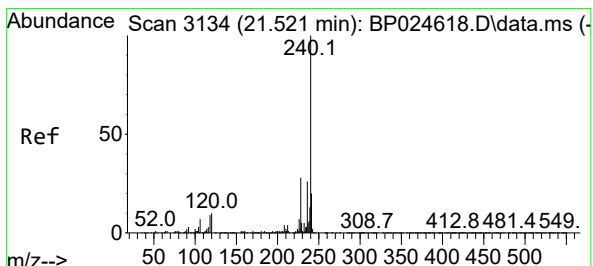
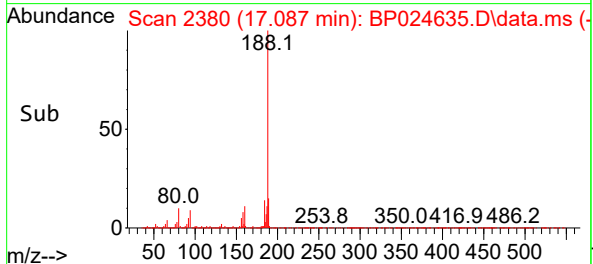
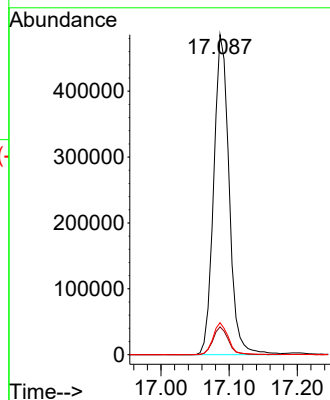
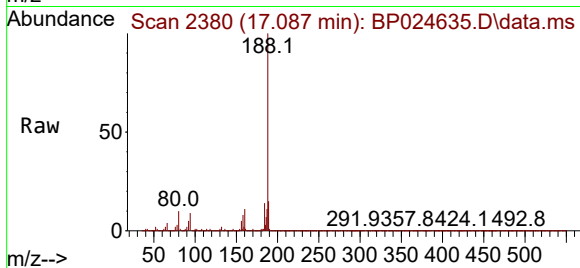




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.087 min Scan# 21
Delta R.T. -0.012 min
Lab File: BP024635.D
Acq: 15 May 2025 13:05

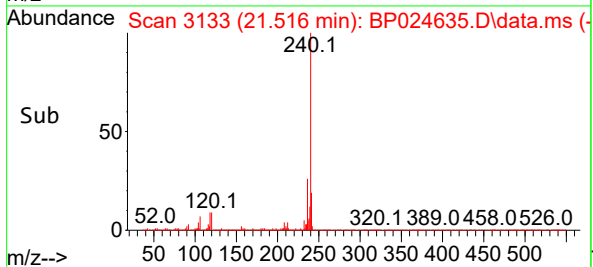
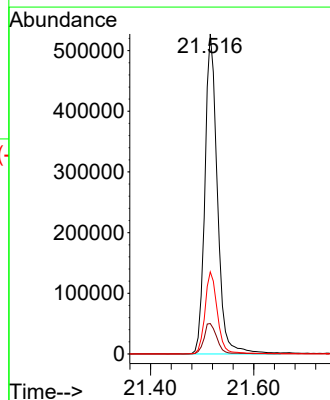
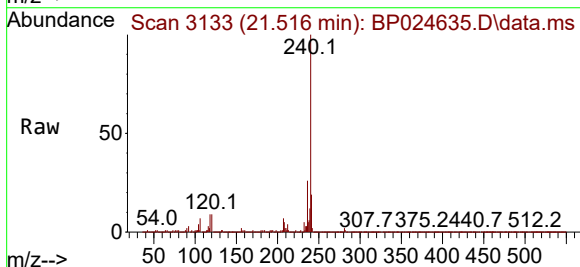
Instrument :
BNA_P
ClientSampleId :
PB167973BL

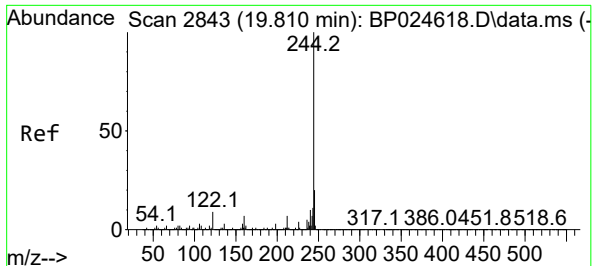
Tgt Ion:188 Resp: 764705
Ion Ratio Lower Upper
188 100
94 8.7 6.5 9.7
80 10.0 7.3 10.9



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.516 min Scan# 3133
Delta R.T. -0.006 min
Lab File: BP024635.D
Acq: 15 May 2025 13:05

Tgt Ion:240 Resp: 884123
Ion Ratio Lower Upper
240 100
120 9.5 7.8 11.6
236 25.6 20.6 31.0

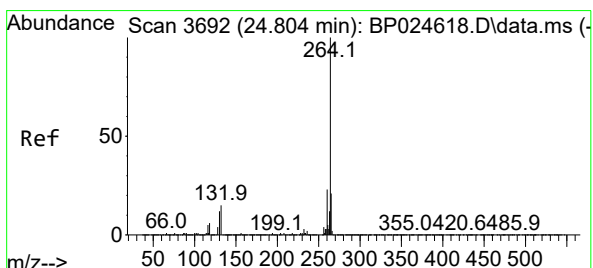
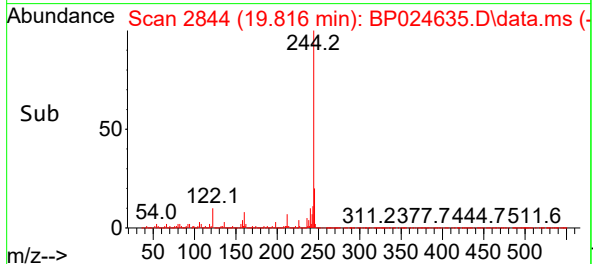
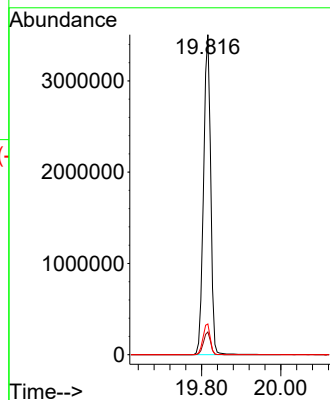
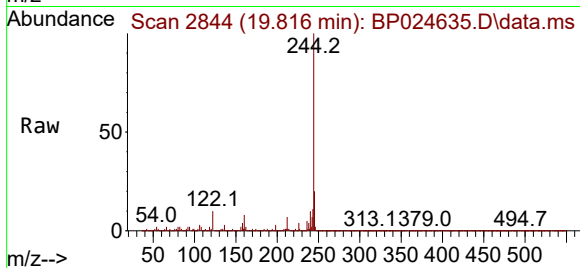




#79
 Terphenyl-d14
 Concen: 84.502 ng
 RT: 19.816 min Scan# 2844
 Delta R.T. 0.006 min
 Lab File: BP024635.D
 Acq: 15 May 2025 13:05

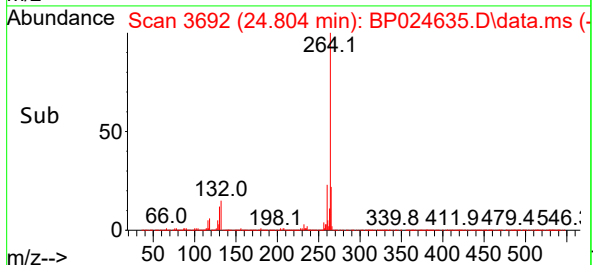
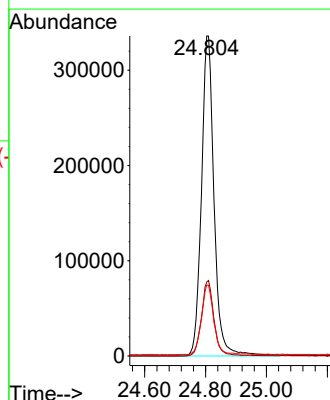
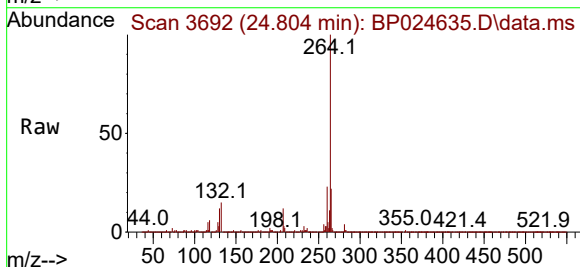
Instrument :
 BNA_P
 ClientSampleId :
 PB167973BL

Tgt Ion:244 Resp: 4357069
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.5 8.3
 122 9.6 7.4 11.0



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 24.804 min Scan# 3692
 Delta R.T. 0.000 min
 Lab File: BP024635.D
 Acq: 15 May 2025 13:05

Tgt Ion:264 Resp: 966019
 Ion Ratio Lower Upper
 264 100
 260 23.1 18.7 28.1
 265 22.2 17.0 25.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024635.D
Acq On : 15 May 2025 13:05
Operator : RC/JU
Sample : PB167973BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167973BL

A
B
C
D
E
F
G
H
I
J
K

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP024635.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.823	290	295	313	rVB	228383	326896	2.78%	0.716%
2	5.287	367	374	390	rBV	2784562	4125597	35.10%	9.034%
3	6.852	632	640	663	rBV	2434729	4195894	35.70%	9.188%
4	7.658	770	777	788	rBV	559157	856077	7.28%	1.875%
5	8.811	964	973	995	rBV	1509171	2681055	22.81%	5.871%
6	10.434	1241	1249	1268	rBV	618499	1151578	9.80%	2.522%
7	12.899	1656	1668	1685	rBV	4060800	6343788	53.98%	13.892%
8	14.293	1897	1905	1913	rBV	1032771	1540089	13.10%	3.372%
9	15.804	2154	2162	2187	rBV	4009623	5965235	50.76%	13.063%
10	17.087	2373	2380	2397	rBV2	1210781	1972012	16.78%	4.318%
11	19.816	2838	2844	2853	rBV	9495789	11752174	100.00%	25.735%
12	21.516	3127	3133	3155	rBV2	1407261	2408127	20.49%	5.273%
13	24.804	3684	3692	3708	rVB	866007	2347927	19.98%	5.141%

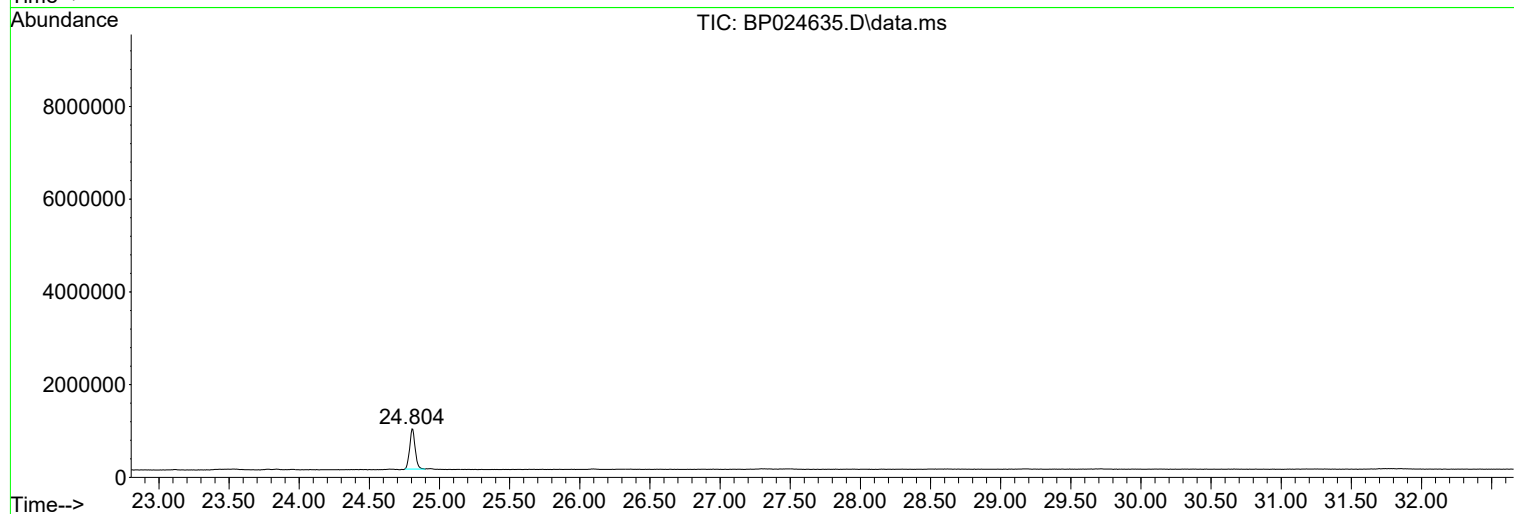
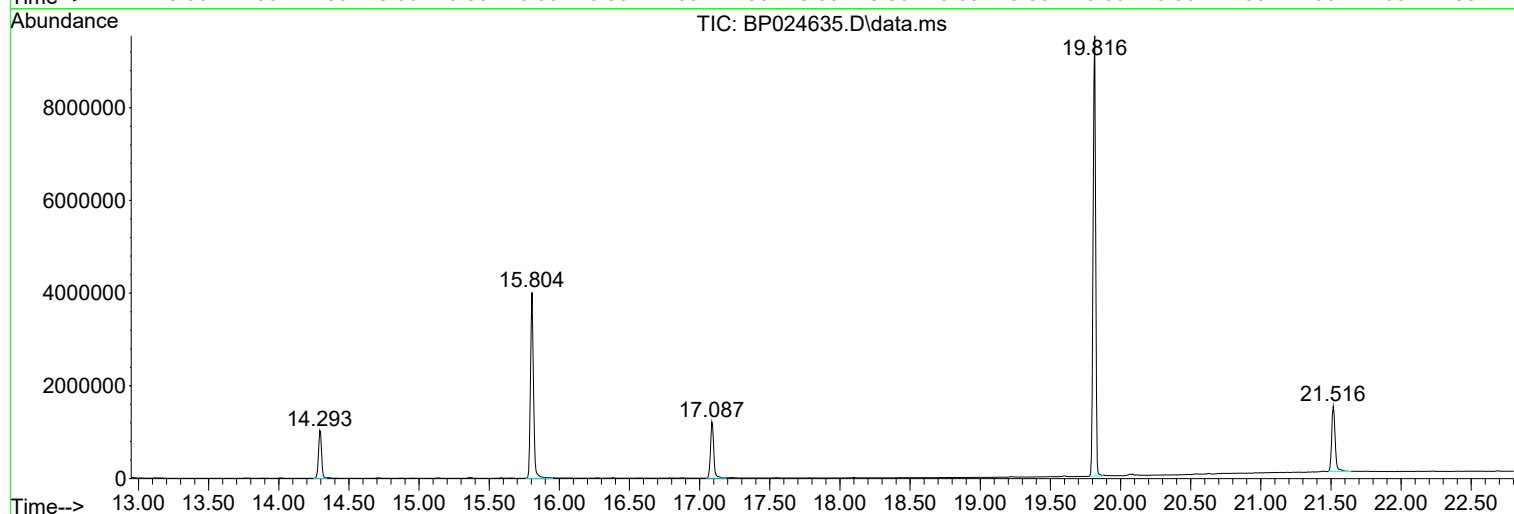
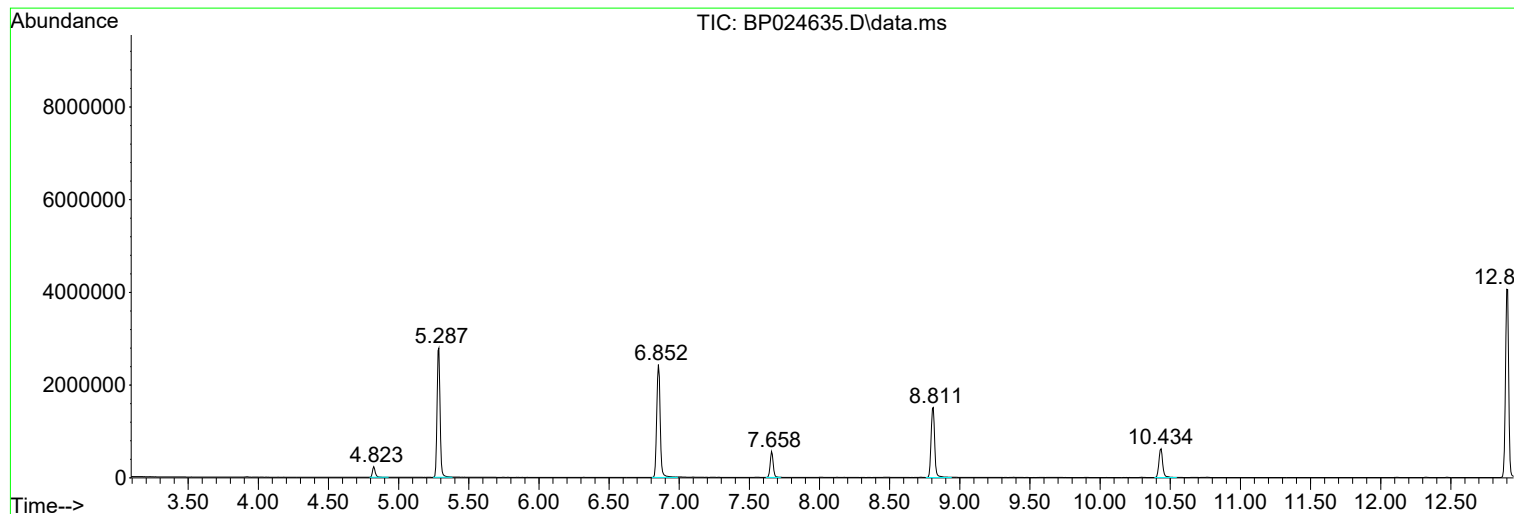
Sum of corrected areas: 45666449

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024635.D
Acq On : 15 May 2025 13:05
Operator : RC/JU
Sample : PB167973BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167973BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.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_P\Data\BP051525\
Data File : BP024635.D
Acq On : 15 May 2025 13:05
Operator : RC/JU
Sample : PB167973BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167973BL

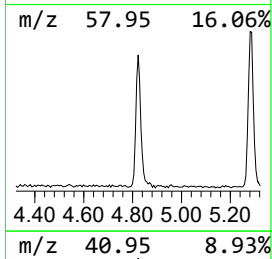
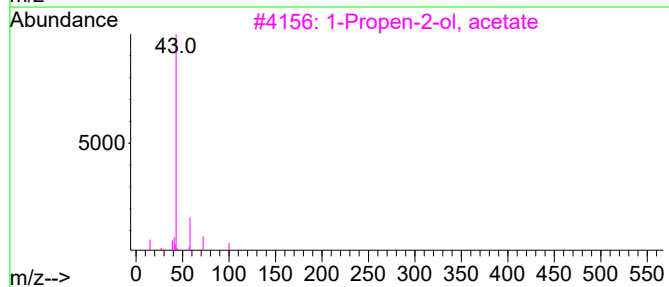
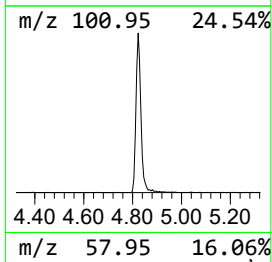
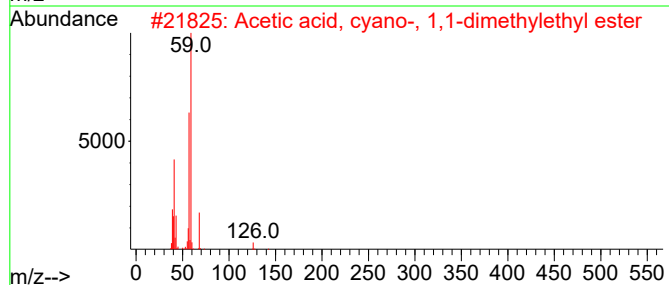
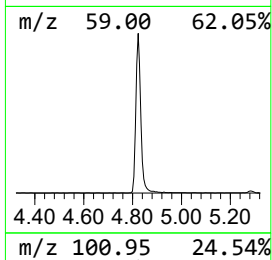
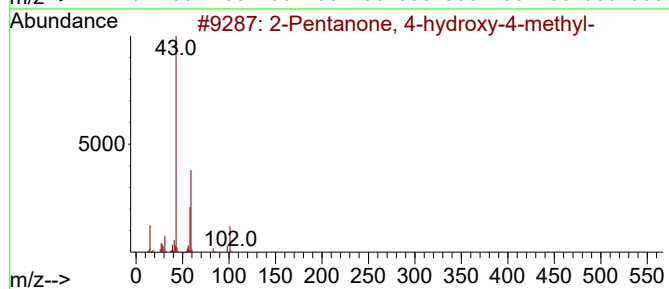
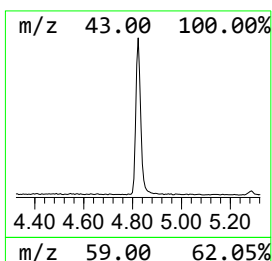
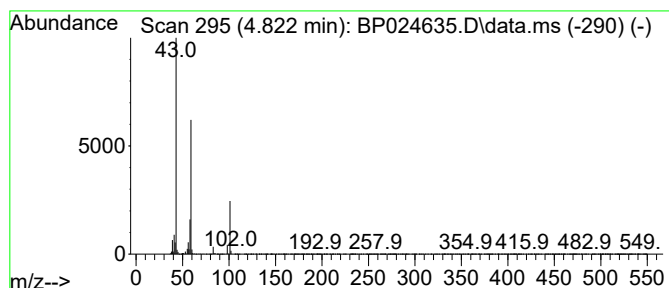
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.822	7.64 ng	326896	1,4-Dichlorobenzene-d4	7.658

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64		
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	12		
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10		
4	Acetone	58	C3H6O	000067-64-1	10		
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9		



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024635.D
Acq On : 15 May 2025 13:05
Operator : RC/JU
Sample : PB167973BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167973BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-...	4.822	7.6	ng	326896	1	7.658	856077	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051625\
 Data File : BF142419.D
 Acq On : 16 May 2025 11:13
 Operator : RC/JU
 Sample : PB167953BS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

PB167953BS

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/19/2025

Supervised By :Jagrut Upadhyay 05/19/2025

Quant Time: May 16 12:00:53 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon May 05 18:41:44 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	173630	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	675385	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	366566	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	630880	20.000	ng	0.00
76) Chrysene-d12	14.068	240	344356	20.000	ng	0.00
86) Perylene-d12	15.556	264	359523	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.534	112	1229627	120.893	ng	0.02
7) Phenol-d6	6.534	99	1504472	120.264	ng	0.01
23) Nitrobenzene-d5	7.469	82	920178	83.092	ng	0.00
42) 2,4,6-Tribromophenol	10.733	330	500490	141.416	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	1886869	73.396	ng	0.00
79) Terphenyl-d14	13.015	244	1810242	77.808	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.787	88	149707	32.685	ng	99
3) Pyridine	3.540	79	418415	38.909	ng	98
4) n-Nitrosodimethylamine	3.493	42	243472	38.956	ng	96
6) Aniline	6.569	93	532865	43.427	ng	100
8) 2-Chlorophenol	6.686	128	497688	45.790	ng	98
9) Benzaldehyde	6.457	77	296741	40.529	ng	98
10) Phenol	6.545	94	599488	45.208	ng	92
11) bis(2-Chloroethyl)ether	6.639	93	463806	35.468	ng	98
12) 1,3-Dichlorobenzene	6.845	146	522493	42.019	ng	99
13) 1,4-Dichlorobenzene	6.922	146	523852	41.958	ng	99
14) 1,2-Dichlorobenzene	7.075	146	508687	42.447	ng	99
15) Benzyl Alcohol	7.045	79	398510	49.196	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.175	45	769769	39.419	ng	97
17) 2-Methylphenol	7.157	107	386045	43.871	ng	98
18) Hexachloroethane	7.416	117	182804	44.006	ng	98
19) n-Nitroso-di-n-propyla...	7.316	70	327048	42.265	ng	99
20) 3+4-Methylphenols	7.304	107	473450	43.110	ng	93
22) Acetophenone	7.316	105	629352	41.910	ng	99
24) Nitrobenzene	7.486	77	479320	45.917	ng	96
25) Isophorone	7.728	82	899135	42.876	ng	99
26) 2-Nitrophenol	7.804	139	270822	53.328	ng	97
27) 2,4-Dimethylphenol	7.839	122	463175	43.930	ng	100
28) bis(2-Chloroethoxy)met...	7.933	93	559083	41.461	ng	100
29) 2,4-Dichlorophenol	8.045	162	420197	46.877	ng	98
30) 1,2,4-Trichlorobenzene	8.128	180	438894	43.506	ng	99
31) Naphthalene	8.210	128	1391457	42.509	ng	100
32) Benzoic acid	7.957	122	326773	55.302	ng	99
33) 4-Chloroaniline	8.257	127	106321m	7.960	ng	
34) Hexachlorobutadiene	8.322	225	265544	44.453	ng	98
35) Caprolactam	8.627	113	131445m	50.315	ng	
36) 4-Chloro-3-methylphenol	8.733	107	425708	45.687	ng	99
37) 2-Methylnaphthalene	8.898	142	875467	43.042	ng	99
38) 1-Methylnaphthalene	8.998	142	899635	42.437	ng	99
40) 1,2,4,5-Tetrachloroben...	9.069	216	437922	42.775	ng	99
41) Hexachlorocyclopentadiene	9.051	237	602706	95.256	ng	100
43) 2,4,6-Trichlorophenol	9.175	196	307305	47.587	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051625\
 Data File : BF142419.D
 Acq On : 16 May 2025 11:13
 Operator : RC/JU
 Sample : PB167953BS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PB167953BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/19/2025
 Supervised By :Jagrut Upadhyay 05/19/2025

Quant Time: May 16 12:00:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

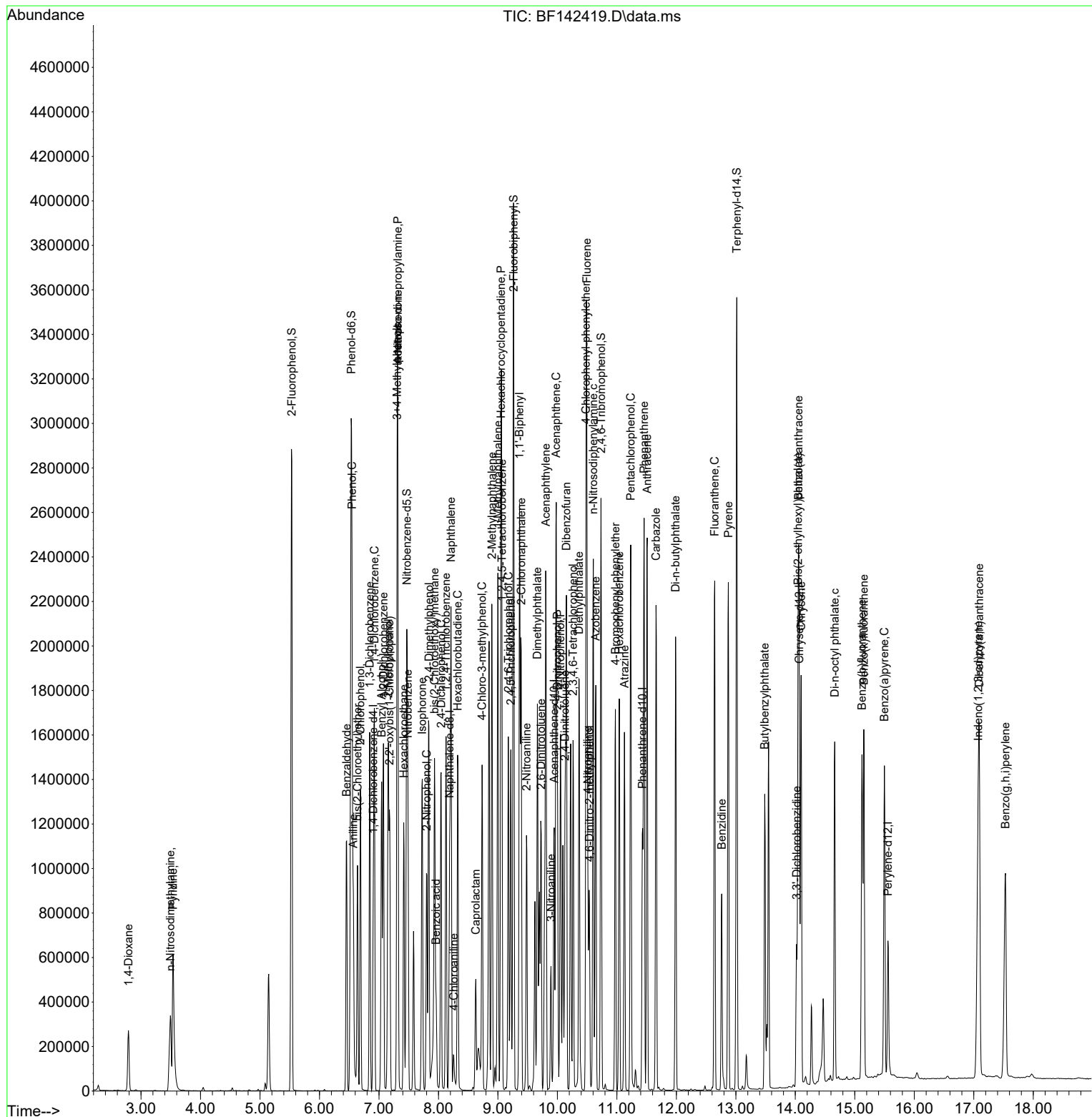
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.216	196	324851	47.278	ng	98
46) 1,1'-Biphenyl	9.363	154	1183448	42.106	ng	99
47) 2-Chloronaphthalene	9.392	162	877304	41.973	ng	100
48) 2-Nitroaniline	9.480	65	268263	50.072	ng	95
49) Acenaphthylene	9.804	152	1477785	42.263	ng	99
50) Dimethylphthalate	9.663	163	1045636	44.423	ng	100
51) 2,6-Dinitrotoluene	9.727	165	230545	52.326	ng	88
52) Acenaphthene	9.980	154	1008110	47.949	ng	100
53) 3-Nitroaniline	9.892	138	130548	25.264	ng	94
54) 2,4-Dinitrophenol	9.998	184	286628	120.101	ng	# 1
55) Dibenzofuran	10.151	168	1299450	41.879	ng	99
56) 4-Nitrophenol	10.051	139	402874	103.592	ng	99
57) 2,4-Dinitrotoluene	10.127	165	319356	56.507	ng	96
58) Fluorene	10.492	166	992432	41.911	ng	98
59) 2,3,4,6-Tetrachlorophenol	10.263	232	277612	48.943	ng	99
60) Diethylphthalate	10.363	149	1022998	43.520	ng	100
61) 4-Chlorophenyl-phenyle...	10.480	204	488271	42.740	ng	98
62) 4-Nitroaniline	10.510	138	238941	58.343	ng	98
63) Azobenzene	10.645	77	919836	40.950	ng	97
65) 4,6-Dinitro-2-methylph...	10.539	198	175242	57.854	ng	92
66) n-Nitrosodiphenylamine	10.604	169	881615	41.995	ng	100
67) 4-Bromophenyl-phenylether	10.974	248	313229	43.808	ng	96
68) Hexachlorobenzene	11.039	284	350738	44.596	ng	97
69) Atrazine	11.127	200	274407	49.587	ng	100
70) Pentachlorophenol	11.233	266	429460	103.798	ng	97
71) Phenanthrene	11.457	178	1395824	42.209	ng	100
72) Anthracene	11.510	178	1431099	42.118	ng	100
73) Carbazole	11.657	167	1297202	42.553	ng	100
74) Di-n-butylphthalate	11.986	149	1470098	45.861	ng	100
75) Fluoranthene	12.645	202	1396620	42.249	ng	98
77) Benzidine	12.763	184	498548	79.667	ng	98
78) Pyrene	12.874	202	1375854	44.888	ng	100
80) Butylbenzylphthalate	13.486	149	437060	48.795	ng	99
81) Benzo(a)anthracene	14.057	228	1033001	46.321	ng	100
82) 3,3'-Dichlorobenzidine	14.021	252	193172	37.248	ng	98
83) Chrysene	14.098	228	890087	42.874	ng	100
84) Bis(2-ethylhexyl)phtha...	14.045	149	568724	48.750	ng	99
85) Di-n-octyl phthalate	14.662	149	1044545	49.451	ng	97
87) Indeno(1,2,3-cd)pyrene	17.074	276	1142274	45.673	ng	99
88) Benzo(b)fluoranthene	15.121	252	1019606	46.825	ng	99
89) Benzo(k)fluoranthene	15.151	252	811185	40.708	ng	99
90) Benzo(a)pyrene	15.498	252	894628	45.849	ng	99
91) Dibenzo(a,h)anthracene	17.092	278	930090	45.015	ng	98
92) Benzo(g,h,i)perylene	17.533	276	912878	44.516	ng	96

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

Instrument :
BNA_F
ClientSampleId :
PB167953BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/19/2025
Supervised By :Jagrut Upadhyay 05/19/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
 Data File : BP024636.D
 Acq On : 15 May 2025 13:53
 Operator : RC/JU
 Sample : PB167973BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 PB167973BS

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Quant Time: May 15 14:53:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.646	152	131081	20.000	ng	-0.02
21) Naphthalene-d8	10.422	136	537517	20.000	ng	-0.01
39) Acenaphthene-d10	14.298	164	347277	20.000	ng	0.00
64) Phenanthrene-d10	17.098	188	706031	20.000	ng	0.00
76) Chrysene-d12	21.533	240	796554	20.000	ng	0.01
86) Perylene-d12	24.827	264	897451	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.275	112	1028325	134.178	ng	-0.01
7) Phenol-d6	6.840	99	1300659	132.975	ng	-0.01
23) Nitrobenzene-d5	8.799	82	806449	75.806	ng	-0.01
42) 2,4,6-Tribromophenol	15.816	330	789015	134.019	ng	0.00
45) 2-Fluorobiphenyl	12.904	172	1973979	74.470	ng	0.00
79) Terphenyl-d14	19.827	244	3529175	75.970	ng	0.02
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.216	88	121131	33.659	ng	98
3) Pyridine	3.605	79	290510	36.406	ng	97
4) n-Nitrosodimethylamine	3.516	42	145603	41.331	ng	94
6) Aniline	6.987	93	371995	29.457	ng	99
8) 2-Chlorophenol	7.228	128	398786	45.837	ng	99
9) Benzaldehyde	6.799	77	230797	36.451	ng	95
10) Phenol	6.869	94	467973	46.355	ng	100
11) bis(2-Chloroethyl)ether	7.081	93	326477	39.356	ng	98
12) 1,3-Dichlorobenzene	7.540	146	410853	41.046	ng	99
13) 1,4-Dichlorobenzene	7.681	146	413519	41.075	ng	99
14) 1,2-Dichlorobenzene	7.999	146	399364	40.711	ng	100
15) Benzyl Alcohol	7.893	79	332118	44.682	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.163	45	395746	39.836	ng	99
17) 2-Methylphenol	8.099	107	329941	45.567	ng	98
18) Hexachloroethane	8.710	117	157764	40.894	ng	96
19) n-Nitroso-di-n-propyla...	8.452	70	270905	40.039	ng	99
20) 3+4-Methylphenols	8.422	107	451573	45.848	ng	99
22) Acetophenone	8.463	105	567593	42.273	ng	100
24) Nitrobenzene	8.840	77	404402	43.197	ng	99
25) Isophorone	9.357	82	767868	41.611	ng	99
26) 2-Nitrophenol	9.540	139	212672	46.359	ng	97
27) 2,4-Dimethylphenol	9.610	122	380304	47.020	ng	99
28) bis(2-Chloroethoxy)met...	9.840	93	467255	42.382	ng	99
29) 2,4-Dichlorophenol	10.087	162	382143	48.756	ng	98
30) 1,2,4-Trichlorobenzene	10.287	180	381129	43.151	ng	98
31) Naphthalene	10.475	128	1179733	42.353	ng	99
32) Benzoic acid	9.775	122	262342	46.811	ng	99
33) 4-Chloroaniline	10.593	127	215778	19.197	ng	100
34) Hexachlorobutadiene	10.757	225	244032	42.650	ng	98
35) Caprolactam	11.381	113	128809	45.423	ng	97
36) 4-Chloro-3-methylphenol	11.728	107	416701	43.596	ng	100
37) 2-Methylnaphthalene	12.087	142	759040	42.084	ng	99
38) 1-Methylnaphthalene	12.310	142	813878	42.174	ng	100
40) 1,2,4,5-Tetrachloroben...	12.463	216	439636	43.595	ng	99
41) Hexachlorocyclopentadiene	12.440	237	618099	101.081	ng	97
43) 2,4,6-Trichlorophenol	12.710	196	317048	48.539	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
 Data File : BP024636.D
 Acq On : 15 May 2025 13:53
 Operator : RC/JU
 Sample : PB167973BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 PB167973BS

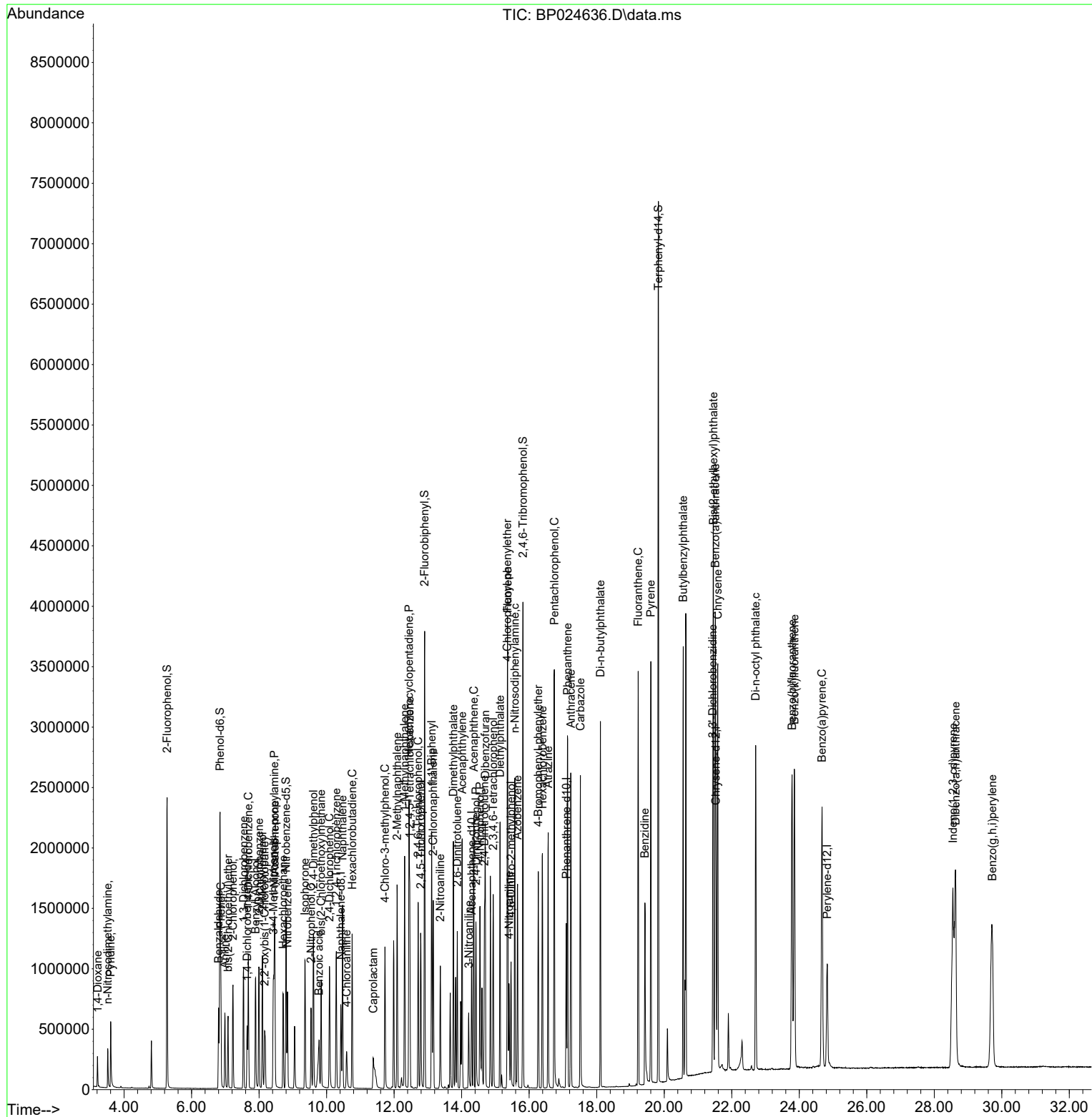
Quant Time: May 15 14:53:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.787	196	355418	48.883	ng	98
46) 1,1'-Biphenyl	13.110	154	1087547	42.370	ng	99
47) 2-Chloronaphthalene	13.157	162	830827	42.452	ng	100
48) 2-Nitroaniline	13.369	65	261668	45.161	ng	98
49) Acenaphthylene	14.016	152	1399482	42.731	ng	100
50) Dimethylphthalate	13.757	163	1142335	43.156	ng	100
51) 2,6-Dinitrotoluene	13.869	165	252742	45.211	ng	97
52) Acenaphthene	14.363	154	813698	43.217	ng	99
53) 3-Nitroaniline	14.210	138	171345	30.018	ng	98
54) 2,4-Dinitrophenol	14.428	184	327717	91.929	ng	97
55) Dibenzofuran	14.698	168	1314124	43.757	ng	99
56) 4-Nitrophenol	14.545	139	454745	91.385	ng	98
57) 2,4-Dinitrotoluene	14.675	165	364632	46.266	ng	98
58) Fluorene	15.363	166	1086996	44.389	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.934	232	316831	46.974	ng	100
60) Diethylphthalate	15.139	149	1184435	44.273	ng	99
61) 4-Chlorophenyl-phenyle...	15.351	204	542996	44.463	ng	98
62) 4-Nitroaniline	15.404	138	262574	47.641	ng	98
63) Azobenzene	15.657	77	1009501	44.109	ng	98
65) 4,6-Dinitro-2-methylph...	15.463	198	216160	47.398	ng	99
66) n-Nitrosodiphenylamine	15.575	169	961865	44.353	ng	99
67) 4-Bromophenyl-phenylether	16.269	248	372135	44.731	ng	99
68) Hexachlorobenzene	16.392	284	458305	43.353	ng	100
69) Atrazine	16.563	200	368913	46.419	ng	99
70) Pentachlorophenol	16.745	266	625082	105.335	ng	98
71) Phenanthrene	17.139	178	1720387	43.832	ng	100
72) Anthracene	17.233	178	1747224	44.246	ng	99
73) Carbazole	17.516	167	1617275	45.249	ng	100
74) Di-n-butylphthalate	18.110	149	2121998	46.164	ng	99
75) Fluoranthene	19.227	202	2040733	44.480	ng	100
77) Benzidine	19.427	184	994653	45.847	ng	99
78) Pyrene	19.604	202	2127702	44.580	ng	100
80) Butylbenzylphthalate	20.563	149	1012695	47.709	ng	97
81) Benzo(a)anthracene	21.516	228	2231437	44.614	ng	100
82) 3,3'-Dichlorobenzidine	21.439	252	558851	30.082	ng	99
83) Chrysene	21.586	228	2076892	43.804	ng	100
84) Bis(2-ethylhexyl)phtha...	21.457	149	1465106	46.960	ng	99
85) Di-n-octyl phthalate	22.710	149	2468875	48.391	ng	100
87) Indeno(1,2,3-cd)pyrene	28.550	276	3039943m	46.398	ng	
88) Benzo(b)fluoranthene	23.786	252	2337855	45.511	ng	99
89) Benzo(k)fluoranthene	23.857	252	2439419	46.086	ng	100
90) Benzo(a)pyrene	24.674	252	2298890	46.597	ng	99
91) Dibenzo(a,h)anthracene	28.627	278	2519774	47.273	ng	99
92) Benzo(g,h,i)perylene	29.715	276	2499215	47.150	ng	99

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

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Quant Time: May 15 14:53:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
 Data File : BF142366.D
 Acq On : 14 May 2025 15:20
 Operator : RC/JU
 Sample : Q1982-03MS
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-3MS

Quant Time: May 14 15:47:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	155049	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	631761	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	370580	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	711855	20.000	ng	0.00
76) Chrysene-d12	14.068	240	525246	20.000	ng	0.00
86) Perylene-d12	15.557	264	490879	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	692630	76.258	ng	0.00
7) Phenol-d6	6.522	99	882025	78.956	ng	0.00
23) Nitrobenzene-d5	7.463	82	520318	50.229	ng	0.00
42) 2,4,6-Tribromophenol	10.727	330	331293	92.595	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	1192392	45.880	ng	0.00
79) Terphenyl-d14	13.010	244	1573866	44.350	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.675	88	141291	34.544	ng	100
3) Pyridine	3.440	79	385286	40.122	ng	98
4) n-Nitrosodimethylamine	3.387	42	225025	40.319	ng	98
6) Aniline	6.563	93	599443	54.708	ng	98
8) 2-Chlorophenol	6.681	128	441735	45.512	ng	99
9) Benzaldehyde	6.451	77	266588	40.774	ng	100
10) Phenol	6.534	94	576407	48.677	ng	98
11) bis(2-Chloroethyl)ether	6.634	93	408748	35.004	ng	97
12) 1,3-Dichlorobenzene	6.839	146	464430	41.825	ng	99
13) 1,4-Dichlorobenzene	6.916	146	465991	41.797	ng	100
14) 1,2-Dichlorobenzene	7.069	146	451963	42.234	ng	99
15) Benzyl Alcohol	7.039	79	356796	49.324	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.175	45	713977	40.944	ng	100
17) 2-Methylphenol	7.145	107	351851	44.777	ng	99
18) Hexachloroethane	7.416	117	161853	43.632	ng	99
19) n-Nitroso-di-n-propyla...	7.310	70	298725	43.231	ng	99
20) 3+4-Methylphenols	7.298	107	448388	45.721	ng	99
22) Acetophenone	7.310	105	581115	41.370	ng	100
24) Nitrobenzene	7.481	77	441270	45.191	ng	98
25) Isophorone	7.722	82	845033	43.079	ng	100
26) 2-Nitrophenol	7.798	139	230474	48.886	ng	100
27) 2,4-Dimethylphenol	7.834	122	433405	43.945	ng	100
28) bis(2-Chloroethoxy)met...	7.934	93	522841	41.451	ng	99
29) 2,4-Dichlorophenol	8.039	162	387626	46.229	ng	98
30) 1,2,4-Trichlorobenzene	8.122	180	391460	41.484	ng	99
31) Naphthalene	8.210	128	1287929	42.063	ng	99
32) Benzoic acid	7.939	122	305779m	55.318	ng	
33) 4-Chloroaniline	8.251	127	217014	17.370	ng	99
34) Hexachlorobutadiene	8.322	225	234355	41.941	ng	99
35) Caprolactam	8.616	113	141799m	58.026	ng	
36) 4-Chloro-3-methylphenol	8.728	107	417111	47.855	ng	100
37) 2-Methylnaphthalene	8.898	142	823265	43.271	ng	98
38) 1-Methylnaphthalene	8.998	142	854916	43.112	ng	99
40) 1,2,4,5-Tetrachloroben...	9.063	216	408491	39.468	ng	99
41) Hexachlorocyclopentadiene	9.051	237	541888	84.716	ng	100
43) 2,4,6-Trichlorophenol	9.169	196	294187	45.063	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
 Data File : BF142366.D
 Acq On : 14 May 2025 15:20
 Operator : RC/JU
 Sample : Q1982-03MS
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-3MS

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Quant Time: May 14 15:47:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	321618	46.301	ng	98
46) 1,1'-Biphenyl	9.363	154	1158375	40.768	ng	99
47) 2-Chloronaphthalene	9.386	162	851834	40.313	ng	99
48) 2-Nitroaniline	9.480	65	274081	50.603	ng	91
49) Acenaphthylene	9.804	152	1497053	42.351	ng	100
50) Dimethylphthalate	9.663	163	1072664	45.078	ng	100
51) 2,6-Dinitrotoluene	9.722	165	236587	53.116	ng	90
52) Acenaphthene	9.975	154	1006646	47.361	ng	100
53) 3-Nitroaniline	9.886	138	199348	38.161	ng	97
54) 2,4-Dinitrophenol	9.992	184	286965	119.014	ng	# 3
55) Dibenzofuran	10.145	168	1332401	42.476	ng	99
56) 4-Nitrophenol	10.045	139	472127	120.085	ng	96
57) 2,4-Dinitrotoluene	10.122	165	335471	58.716	ng	98
58) Fluorene	10.492	166	1031269	43.079	ng	98
59) 2,3,4,6-Tetrachlorophenol	10.263	232	294911	51.430	ng	97
60) Diethylphthalate	10.363	149	1111846	46.787	ng	99
61) 4-Chlorophenyl-phenyle...	10.480	204	499460	43.246	ng	99
62) 4-Nitroaniline	10.504	138	275293	66.491	ng	99
63) Azobenzene	10.639	77	1067468	47.008	ng	98
65) 4,6-Dinitro-2-methylph...	10.527	198	182251	53.887	ng	99
66) n-Nitrosodiphenylamine	10.598	169	957255	40.411	ng	99
67) 4-Bromophenyl-phenylether	10.969	248	332268	41.185	ng	99
68) Hexachlorobenzene	11.033	284	375399	42.302	ng	98
69) Atrazine	11.127	200	315199	50.479	ng	99
70) Pentachlorophenol	11.227	266	477233	102.224	ng	98
71) Phenanthrene	11.451	178	1558066	41.756	ng	100
72) Anthracene	11.504	178	1581175	41.241	ng	100
73) Carbazole	11.657	167	1524800	44.329	ng	100
74) Di-n-butylphthalate	11.986	149	1876651	51.885	ng	100
75) Fluoranthene	12.639	202	1740035	46.650	ng	99
77) Benzidine	12.763	184	1084279	113.594	ng	98
78) Pyrene	12.868	202	1750839	37.450	ng	100
80) Butylbenzylphthalate	13.486	149	763189	55.331	ng	98
81) Benzo(a)anthracene	14.057	228	1482251	43.576	ng	98
82) 3,3'-Dichlorobenzidine	14.021	252	294906	37.281	ng	99
83) Chrysene	14.098	228	1295990	40.927	ng	98
84) Bis(2-ethylhexyl)phtha...	14.045	149	1043286	57.772	ng	100
85) Di-n-octyl phthalate	14.662	149	1689536	51.966	ng	97
87) Indeno(1,2,3-cd)pyrene	17.068	276	1251333	36.645	ng	100
88) Benzo(b)fluoranthene	15.121	252	1425761	47.956	ng	99
89) Benzo(k)fluoranthene	15.151	252	1127681	41.448	ng	100
90) Benzo(a)pyrene	15.498	252	1206289	45.278	ng	99
91) Dibenzo(a,h)anthracene	17.086	278	1024841	36.328	ng	99
92) Benzo(g,h,i)perylene	17.521	276	953165	34.043	ng	98

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

Instrument :
BNA_F
ClientSampleId :
TP-3MS

- A
- B
- C
- D
- E
- F
- G
- H
- I
- J
- K



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
 Data File : BP024638.D
 Acq On : 15 May 2025 15:18
 Operator : RC/JU
 Sample : Q2010-02MS
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 TP-13MS

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Quant Time: May 15 15:48:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.658	152	165529	20.000	ng	0.00
21) Naphthalene-d8	10.428	136	634360	20.000	ng	0.00
39) Acenaphthene-d10	14.298	164	378565	20.000	ng	0.00
64) Phenanthrene-d10	17.098	188	753325	20.000	ng	0.00
76) Chrysene-d12	21.527	240	842505	20.000	ng	0.00
86) Perylene-d12	24.798	264	953147	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	856774	88.528	ng	0.00
7) Phenol-d6	6.852	99	1057784	85.639	ng	0.00
23) Nitrobenzene-d5	8.810	82	638968	50.893	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	562674	87.674	ng	0.00
45) 2-Fluorobiphenyl	12.899	172	1470035	50.874	ng	0.00
79) Terphenyl-d14	19.816	244	2392705	48.697	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.228	88	169804	37.365	ng	99
3) Pyridine	3.623	79	411638	40.850	ng	99
4) n-Nitrosodimethylamine	3.534	42	193142	43.416	ng	97
6) Aniline	6.999	93	561977	35.240	ng	100
8) 2-Chlorophenol	7.234	128	509228	46.350	ng	99
9) Benzaldehyde	6.816	77	316969	39.642	ng	99
10) Phenol	6.881	94	593400	46.547	ng	100
11) bis(2-Chloroethyl)ether	7.093	93	436677	41.686	ng	99
12) 1,3-Dichlorobenzene	7.552	146	547308	43.299	ng	98
13) 1,4-Dichlorobenzene	7.693	146	552518	43.461	ng	99
14) 1,2-Dichlorobenzene	8.005	146	528682	42.677	ng	99
15) Benzyl Alcohol	7.905	79	419911	44.736	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.187	45	507352	40.442	ng	99
17) 2-Methylphenol	8.111	107	404526	44.241	ng	98
18) Hexachloroethane	8.722	117	197785	40.599	ng	98
19) n-Nitroso-di-n-propyla...	8.463	70	296270	34.675	ng	97
20) 3+4-Methylphenols	8.434	107	498876	40.109	ng	100
22) Acetophenone	8.475	105	654869	41.327	ng	98
24) Nitrobenzene	8.852	77	501541	45.394	ng	96
25) Isophorone	9.375	82	937975	43.069	ng	99
26) 2-Nitrophenol	9.557	139	270894	50.036	ng	99
27) 2,4-Dimethylphenol	9.622	122	450968	47.245	ng	99
28) bis(2-Chloroethoxy)met...	9.852	93	571836	43.950	ng	99
29) 2,4-Dichlorophenol	10.087	162	448301	48.465	ng	97
30) 1,2,4-Trichlorobenzene	10.299	180	474967	45.566	ng	98
31) Naphthalene	10.481	128	1469571	44.704	ng	100
32) Benzoic acid	9.793	122	336377	50.212	ng	98
33) 4-Chloroaniline	10.599	127	373803	28.179	ng	98
34) Hexachlorobutadiene	10.763	225	309121	45.778	ng	96
35) Caprolactam	11.387	113	157614	47.096	ng	99
36) 4-Chloro-3-methylphenol	11.734	107	516210	45.762	ng	99
37) 2-Methylnaphthalene	12.093	142	926779	43.540	ng	99
38) 1-Methylnaphthalene	12.310	142	972826	42.714	ng	100
40) 1,2,4,5-Tetrachloroben...	12.469	216	524927	47.751	ng	99
41) Hexachlorocyclopentadiene	12.446	237	756205	113.445	ng	96
43) 2,4,6-Trichlorophenol	12.716	196	368341	51.731	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
 Data File : BP024638.D
 Acq On : 15 May 2025 15:18
 Operator : RC/JU
 Sample : Q2010-02MS
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 TP-13MS

Quant Time: May 15 15:48:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.793	196	403367	50.893	ng	98
46) 1,1'-Biphenyl	13.116	154	1301925	46.530	ng	100
47) 2-Chloronaphthalene	13.157	162	993000	46.545	ng	99
48) 2-Nitroaniline	13.375	65	311778	49.362	ng	97
49) Acenaphthylene	14.016	152	1622957	45.458	ng	99
50) Dimethylphthalate	13.757	163	1296579	44.935	ng	100
51) 2,6-Dinitrotoluene	13.869	165	284162	46.631	ng	98
52) Acenaphthene	14.363	154	929691	45.296	ng	99
53) 3-Nitroaniline	14.210	138	212436	34.141	ng	99
54) 2,4-Dinitrophenol	14.428	184	374950	96.168	ng	97
55) Dibenzofuran	14.704	168	1491506	45.559	ng	98
56) 4-Nitrophenol	14.545	139	528415	97.134	ng	99
57) 2,4-Dinitrotoluene	14.681	165	411100	47.851	ng	98
58) Fluorene	15.363	166	1230074	46.080	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.940	232	358164	48.714	ng	99
60) Diethylphthalate	15.134	149	1329786	45.598	ng	99
61) 4-Chlorophenyl-phenyle...	15.363	204	608237	45.689	ng	99
62) 4-Nitroaniline	15.392	138	301420	50.169	ng	98
63) Azobenzene	15.657	77	1250868	50.138	ng	99
65) 4,6-Dinitro-2-methylph...	15.451	198	242947	49.928	ng	98
66) n-Nitrosodiphenylamine	15.581	169	1074572	46.440	ng	100
67) 4-Bromophenyl-phenylether	16.269	248	414519	46.697	ng	98
68) Hexachlorobenzene	16.387	284	510643	45.271	ng	98
69) Atrazine	16.563	200	406566	47.945	ng	99
70) Pentachlorophenol	16.745	266	695823	109.894	ng	99
71) Phenanthrene	17.145	178	1893808	45.222	ng	100
72) Anthracene	17.234	178	1971542	46.792	ng	99
73) Carbazole	17.516	167	1837012	48.170	ng	99
74) Di-n-butylphthalate	18.098	149	2364678	48.214	ng	99
75) Fluoranthene	19.222	202	2288323	46.745	ng	99
77) Benzidine	19.428	184	1224992	53.385	ng	100
78) Pyrene	19.598	202	2380843	47.163	ng	100
80) Butylbenzylphthalate	20.551	149	1148313	51.148	ng	93
81) Benzo(a)anthracene	21.504	228	2459103	46.484	ng	99
82) 3,3'-Dichlorobenzidine	21.427	252	645946	32.874	ng	99
83) Chrysene	21.575	228	2300052	45.864	ng	100
84) Bis(2-ethylhexyl)phtha...	21.439	149	1659519	50.290	ng	100
85) Di-n-octyl phthalate	22.692	149	2851767	52.847	ng	99
87) Indeno(1,2,3-cd)pyrene	28.533	276	3290454	47.287	ng	98
88) Benzo(b)fluoranthene	23.769	252	2609378	47.829	ng	100
89) Benzo(k)fluoranthene	23.839	252	2568026	45.681	ng	99
90) Benzo(a)pyrene	24.651	252	2461650	46.981	ng	99
91) Dibenzo(a,h)anthracene	28.604	278	2694828	47.603	ng	98
92) Benzo(g,h,i)perylene	29.686	276	2668855	47.408	ng	99

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

Instrument :
BNA_P
ClientSampleId :
TP-13MS

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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
 Data File : BF142367.D
 Acq On : 14 May 2025 15:48
 Operator : RC/JU
 Sample : Q1982-03MSD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-3MSD

Quant Time: May 14 16:18:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	163411	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	663275	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	383694	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	695642	20.000	ng	0.00
76) Chrysene-d12	14.068	240	504507	20.000	ng	0.00
86) Perylene-d12	15.557	264	463876	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	727810	76.031	ng	0.00
7) Phenol-d6	6.522	99	917285	77.911	ng	0.00
23) Nitrobenzene-d5	7.463	82	543317	49.957	ng	0.00
42) 2,4,6-Tribromophenol	10.727	330	329981	89.076	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	1223365	45.462	ng	0.00
79) Terphenyl-d14	13.010	244	1503921	44.122	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.687	88	147968	34.326	ng	99
3) Pyridine	3.451	79	404047	39.923	ng	98
4) n-Nitrosodimethylamine	3.404	42	233999	39.781	ng	96
6) Aniline	6.563	93	610214	52.841	ng	99
8) 2-Chlorophenol	6.681	128	464357	45.395	ng	98
9) Benzaldehyde	6.445	77	279913	40.621	ng	99
10) Phenol	6.534	94	592200	47.452	ng	98
11) bis(2-Chloroethyl)ether	6.634	93	427498	34.736	ng	97
12) 1,3-Dichlorobenzene	6.839	146	482962	41.269	ng	98
13) 1,4-Dichlorobenzene	6.916	146	490447	41.739	ng	99
14) 1,2-Dichlorobenzene	7.069	146	475638	42.172	ng	99
15) Benzyl Alcohol	7.039	79	372562	48.868	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.175	45	750259	40.823	ng	100
17) 2-Methylphenol	7.145	107	366691	44.277	ng	100
18) Hexachloroethane	7.416	117	170553	43.625	ng	99
19) n-Nitroso-di-n-propyla...	7.310	70	312261	42.877	ng	99
20) 3+4-Methylphenols	7.298	107	461691	44.669	ng	95
22) Acetophenone	7.310	105	599580	40.656	ng	99
24) Nitrobenzene	7.481	77	460221	44.892	ng	98
25) Isophorone	7.722	82	870718	42.279	ng	100
26) 2-Nitrophenol	7.798	139	241919	48.876	ng	99
27) 2,4-Dimethylphenol	7.833	122	447816	43.249	ng	99
28) bis(2-Chloroethoxy)met...	7.934	93	545344	41.181	ng	99
29) 2,4-Dichlorophenol	8.039	162	404695	45.972	ng	98
30) 1,2,4-Trichlorobenzene	8.122	180	413037	41.691	ng	99
31) Naphthalene	8.204	128	1348598	41.952	ng	100
32) Benzoic acid	7.939	122	301339	52.709	ng	99
33) 4-Chloroaniline	8.251	127	254396	19.394	ng	99
34) Hexachlorobutadiene	8.322	225	246231	41.973	ng	99
35) Caprolactam	8.616	113	140852m	54.900	ng	
36) 4-Chloro-3-methylphenol	8.728	107	424687	46.409	ng	99
37) 2-Methylnaphthalene	8.898	142	860980	43.103	ng	99
38) 1-Methylnaphthalene	8.998	142	882557	42.391	ng	99
40) 1,2,4,5-Tetrachloroben...	9.063	216	420929	39.280	ng	99
41) Hexachlorocyclopentadiene	9.051	237	575524	86.900	ng	99
43) 2,4,6-Trichlorophenol	9.169	196	304019	44.977	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
 Data File : BF142367.D
 Acq On : 14 May 2025 15:48
 Operator : RC/JU
 Sample : Q1982-03MSD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-3MSD

Quant Time: May 14 16:18:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

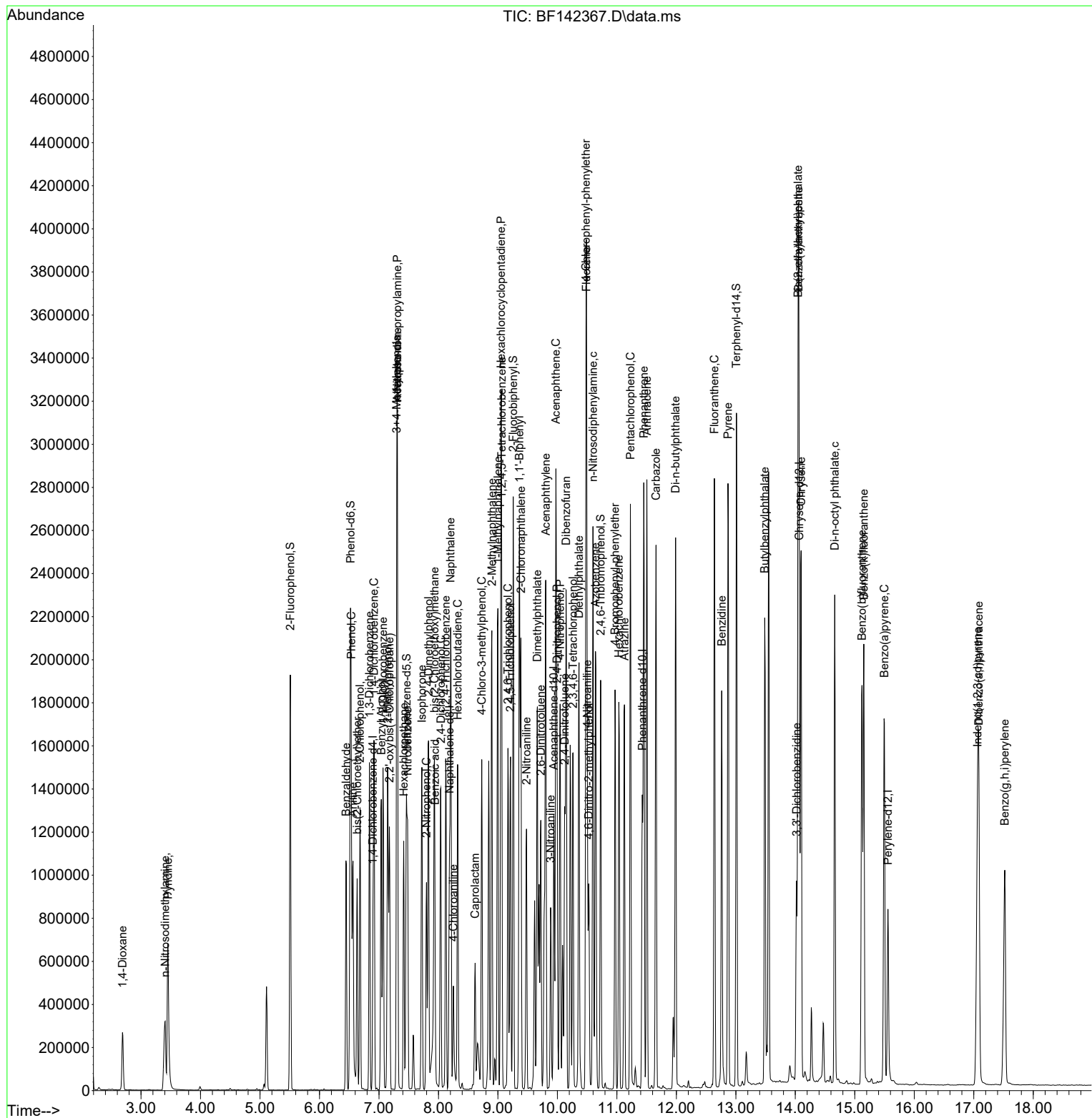
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	329488	45.813	ng	99
46) 1,1'-Biphenyl	9.363	154	1179021	40.076	ng	99
47) 2-Chloronaphthalene	9.386	162	876771	40.075	ng	99
48) 2-Nitroaniline	9.480	65	278721	49.701	ng	93
49) Acenaphthylene	9.804	152	1503613	41.083	ng	100
50) Dimethylphthalate	9.663	163	1087910	44.156	ng	100
51) 2,6-Dinitrotoluene	9.722	165	235845	51.140	ng	91
52) Acenaphthene	9.975	154	1015493	46.144	ng	99
53) 3-Nitroaniline	9.886	138	197625	36.538	ng	95
54) 2,4-Dinitrophenol	9.992	184	287471	115.398	ng	# 3
55) Dibenzofuran	10.145	168	1338806	41.222	ng	99
56) 4-Nitrophenol	10.045	139	457871	112.478	ng	96
57) 2,4-Dinitrotoluene	10.122	165	336965	56.961	ng	96
58) Fluorene	10.486	166	1029226	41.525	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.263	232	285508	48.088	ng	98
60) Diethylphthalate	10.363	149	1099801	44.698	ng	99
61) 4-Chlorophenyl-phenyle...	10.480	204	505137	42.242	ng	100
62) 4-Nitroaniline	10.504	138	266492	62.165	ng	99
63) Azobenzene	10.639	77	1047634	44.557	ng	98
65) 4,6-Dinitro-2-methylph...	10.527	198	177334	53.686	ng	99
66) n-Nitrosodiphenylamine	10.598	169	943012	40.738	ng	100
67) 4-Bromophenyl-phenylether	10.969	248	331117	41.999	ng	99
68) Hexachlorobenzene	11.033	284	363982	41.971	ng	98
69) Atrazine	11.127	200	311861	51.109	ng	100
70) Pentachlorophenol	11.227	266	460619	100.965	ng	98
71) Phenanthrene	11.451	178	1517989	41.630	ng	100
72) Anthracene	11.504	178	1560663	41.655	ng	100
73) Carbazole	11.657	167	1466489	43.628	ng	100
74) Di-n-butylphthalate	11.986	149	1809368	51.191	ng	100
75) Fluoranthene	12.639	202	1657698	45.479	ng	100
77) Benzidine	12.763	184	1021921	111.462	ng	98
78) Pyrene	12.868	202	1674701	37.293	ng	100
80) Butylbenzylphthalate	13.486	149	716198	54.143	ng	99
81) Benzo(a)anthracene	14.057	228	1348952	41.287	ng	100
82) 3,3'-Dichlorobenzidine	14.021	252	288195	37.931	ng	98
83) Chrysene	14.098	228	1288523	42.364	ng	99
84) Bis(2-ethylhexyl)phtha...	14.045	149	983412	56.774	ng	100
85) Di-n-octyl phthalate	14.662	149	1530562	49.457	ng	97
87) Indeno(1,2,3-cd)pyrene	17.062	276	1201187	37.225	ng	99
88) Benzo(b)fluoranthene	15.121	252	1206700	42.951	ng	99
89) Benzo(k)fluoranthene	15.151	252	1158689	45.067	ng	100
90) Benzo(a)pyrene	15.498	252	1117294	44.379	ng	99
91) Dibenzo(a,h)anthracene	17.086	278	992131	37.216	ng	98
92) Benzo(g,h,i)perylene	17.521	276	924006	34.922	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051425\
Data File : BF142367.D
Acq On : 14 May 2025 15:48
Operator : RC/JU
Sample : Q1982-03MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-3MSD

Quant Time: May 14 16:18:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
 Data File : BP024639.D
 Acq On : 15 May 2025 15:59
 Operator : RC/JU
 Sample : Q2010-02MSD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 TP-13MSD

Quant Time: May 15 16:30:47 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.657	152	159501	20.000	ng	0.00
21) Naphthalene-d8	10.428	136	628820	20.000	ng	0.00
39) Acenaphthene-d10	14.298	164	375530	20.000	ng	0.00
64) Phenanthrene-d10	17.104	188	726778	20.000	ng	0.00
76) Chrysene-d12	21.527	240	785534	20.000	ng	0.00
86) Perylene-d12	24.798	264	909133	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	842673	90.362	ng	0.00
7) Phenol-d6	6.852	99	1048617	88.105	ng	0.00
23) Nitrobenzene-d5	8.810	82	651986	52.388	ng	0.00
42) 2,4,6-Tribromophenol	15.828	330	550955	86.542	ng	0.02
45) 2-Fluorobiphenyl	12.904	172	1458091	50.869	ng	0.00
79) Terphenyl-d14	19.821	244	2280930	49.789	ng	0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.228	88	165000	37.680	ng	99
3) Pyridine	3.616	79	403411	41.547	ng	98
4) n-Nitrosodimethylamine	3.534	42	186147	43.425	ng	97
6) Aniline	6.999	93	560425	36.471	ng	99
8) 2-Chlorophenol	7.240	128	504222	47.629	ng	99
9) Benzaldehyde	6.816	77	308327	40.019	ng	99
10) Phenol	6.881	94	590851	48.098	ng	98
11) bis(2-Chloroethyl)ether	7.093	93	429994	42.599	ng	99
12) 1,3-Dichlorobenzene	7.552	146	535369	43.956	ng	99
13) 1,4-Dichlorobenzene	7.693	146	543293	44.350	ng	99
14) 1,2-Dichlorobenzene	8.004	146	521355	43.677	ng	99
15) Benzyl Alcohol	7.904	79	417550	46.166	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.181	45	507595	41.990	ng	98
17) 2-Methylphenol	8.110	107	400289	45.432	ng	99
18) Hexachloroethane	8.722	117	205990	43.881	ng	96
19) n-Nitroso-di-n-propyla...	8.457	70	334353	40.611	ng	99
20) 3+4-Methylphenols	8.434	107	542791	45.290	ng	97
22) Acetophenone	8.475	105	708122	45.082	ng	98
24) Nitrobenzene	8.851	77	500401	45.690	ng	97
25) Isophorone	9.375	82	946143	43.827	ng	100
26) 2-Nitrophenol	9.551	139	268593	50.048	ng	98
27) 2,4-Dimethylphenol	9.622	122	454005	47.982	ng	100
28) bis(2-Chloroethoxy)met...	9.846	93	576552	44.702	ng	99
29) 2,4-Dichlorophenol	10.087	162	451816	49.275	ng	97
30) 1,2,4-Trichlorobenzene	10.293	180	477127	46.177	ng	97
31) Naphthalene	10.475	128	1467759	45.043	ng	100
32) Benzoic acid	9.787	122	322696	48.835	ng	99
33) 4-Chloroaniline	10.598	127	377895	28.739	ng	99
34) Hexachlorobutadiene	10.757	225	305965	45.710	ng	96
35) Caprolactam	11.381	113	152861m	46.078	ng	
36) 4-Chloro-3-methylphenol	11.734	107	518151	46.339	ng	100
37) 2-Methylnaphthalene	12.092	142	937935	44.452	ng	99
38) 1-Methylnaphthalene	12.316	142	959403	42.496	ng	99
40) 1,2,4,5-Tetrachloroben...	12.469	216	526111	48.245	ng	99
41) Hexachlorocyclopentadiene	12.445	237	753385	113.935	ng	98
43) 2,4,6-Trichlorophenol	12.710	196	366355	51.868	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
 Data File : BP024639.D
 Acq On : 15 May 2025 15:59
 Operator : RC/JU
 Sample : Q2010-02MSD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 TP-13MSD

Quant Time: May 15 16:30:47 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

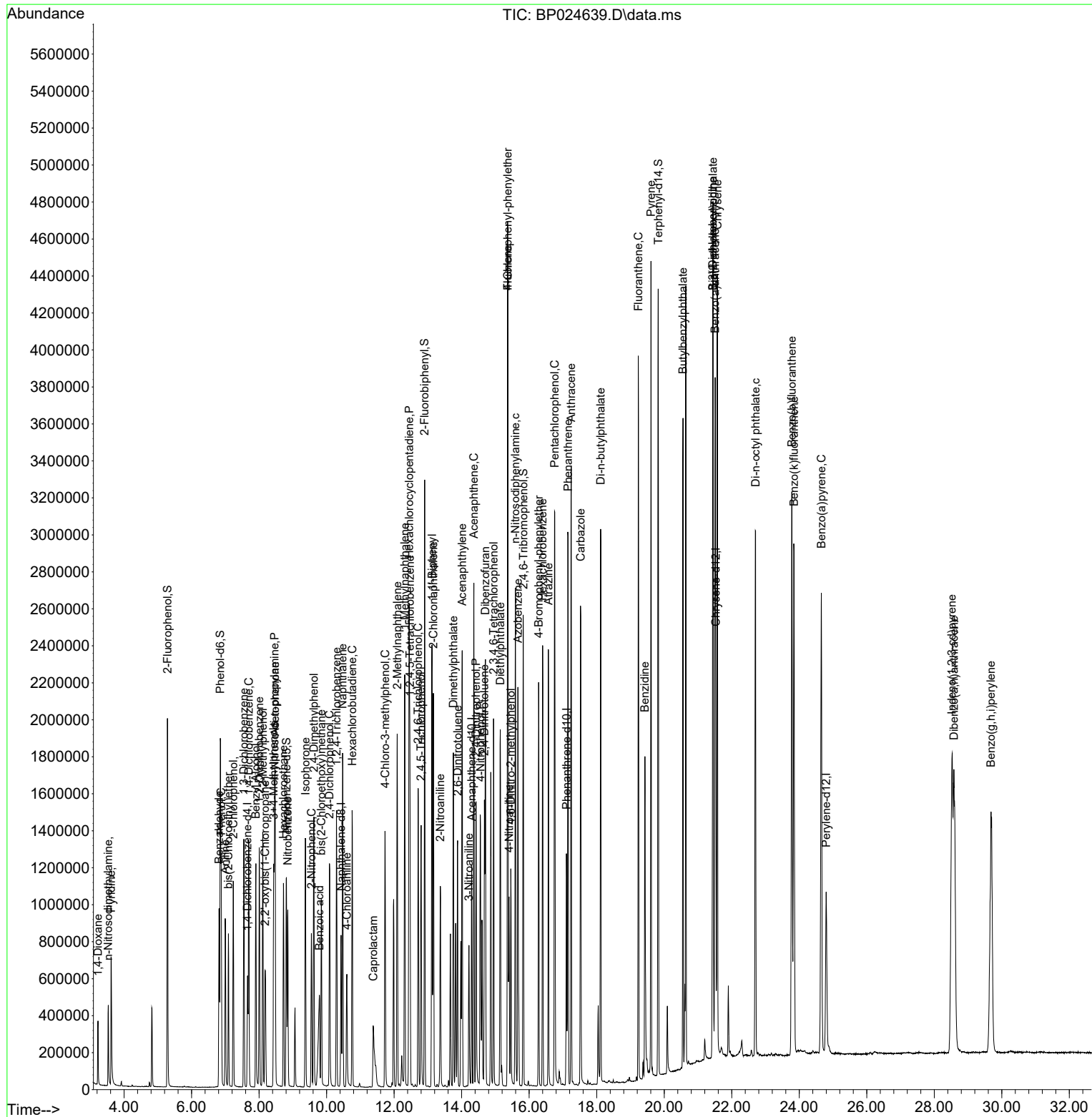
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.798	196	400383	50.924	ng	98
46) 1,1'-Biphenyl	13.122	154	1303750	46.972	ng	100
47) 2-Chloronaphthalene	13.163	162	996633	47.093	ng	100
48) 2-Nitroaniline	13.369	65	310532	49.562	ng	99
49) Acenaphthylene	14.016	152	1622651	45.817	ng	100
50) Dimethylphthalate	13.757	163	1292316	45.149	ng	100
51) 2,6-Dinitrotoluene	13.881	165	279686	46.267	ng	98
52) Acenaphthene	14.363	154	927052	45.533	ng	99
53) 3-Nitroaniline	14.216	138	207346	33.592	ng	97
54) 2,4-Dinitrophenol	14.428	184	370998	95.940	ng	98
55) Dibenzofuran	14.704	168	1468896	45.231	ng	98
56) 4-Nitrophenol	14.557	139	516252	95.730	ng	98
57) 2,4-Dinitrotoluene	14.675	165	401464	47.107	ng	99
58) Fluorene	15.363	166	1214988	45.883	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.945	232	353018	48.402	ng	99
60) Diethylphthalate	15.145	149	1325337	45.812	ng	100
61) 4-Chlorophenyl-phenyle...	15.363	204	601374	45.538	ng	99
62) 4-Nitroaniline	15.404	138	294125	49.350	ng	99
63) Azobenzene	15.669	77	1233658	49.848	ng	97
65) 4,6-Dinitro-2-methylph...	15.457	198	237337	50.556	ng	98
66) n-Nitrosodiphenylamine	15.592	169	1052029	47.126	ng	99
67) 4-Bromophenyl-phenylether	16.280	248	408770	47.731	ng	98
68) Hexachlorobenzene	16.398	284	508136	46.695	ng	99
69) Atrazine	16.569	200	389218	47.576	ng	98
70) Pentachlorophenol	16.757	266	671128	109.866	ng	99
71) Phenanthrene	17.151	178	1855042	45.914	ng	100
72) Anthracene	17.245	178	1890233	46.501	ng	100
73) Carbazole	17.522	167	1770616	48.125	ng	100
74) Di-n-butylphthalate	18.116	149	2304897	48.711	ng	99
75) Fluoranthene	19.233	202	2177024	46.096	ng	100
77) Benzidine	19.427	184	1216882	56.878	ng	99
78) Pyrene	19.610	202	2253283	47.874	ng	100
80) Butylbenzylphthalate	20.557	149	1060952	50.684	ng	96
81) Benzo(a)anthracene	21.510	228	2338691	47.414	ng	99
82) 3,3'-Dichlorobenzidine	21.439	252	622869	33.999	ng	100
83) Chrysene	21.574	228	2179347	46.609	ng	100
84) Bis(2-ethylhexyl)phtha...	21.445	149	1512698	49.165	ng	100
85) Di-n-octyl phthalate	22.704	149	2553144	50.745	ng	100
87) Indeno(1,2,3-cd)pyrene	28.521	276	3226858	48.618	ng	# 85
88) Benzo(b)fluoranthene	23.780	252	2476684	47.594	ng	100
89) Benzo(k)fluoranthene	23.845	252	2478499	46.222	ng	99
90) Benzo(a)pyrene	24.657	252	2397923	47.980	ng	99
91) Dibenzo(a,h)anthracene	28.586	278	2621583	48.552	ng	100
92) Benzo(g,h,i)perylene	29.680	276	2625102	48.888	ng	100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024639.D
Acq On : 15 May 2025 15:59
Operator : RC/JU
Sample : Q2010-02MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Quant Time: May 15 16:30:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	bf050525	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BF142296.D	4-Chloroaniline	Rahul	5/6/2025 9:54:09 AM	Jagrut	5/6/2025 10:53:06 AM	Peak Integrated by Software
SSTDICC005	BF142296.D	bis(2-Chloroethyl)ether	Rahul	5/6/2025 9:54:09 AM	Jagrut	5/6/2025 10:53:06 AM	Peak Integrated by Software
SSTDICC005	BF142296.D	Pyridine	Rahul	5/6/2025 9:54:09 AM	Jagrut	5/6/2025 10:53:06 AM	Peak Integrated by Software
SSTDICC010	BF142297.D	4-Chloroaniline	Rahul	5/6/2025 9:54:13 AM	Jagrut	5/6/2025 10:53:10 AM	Peak Integrated by Software
SSTDICC010	BF142297.D	Benzoic acid	Rahul	5/6/2025 9:54:13 AM	Jagrut	5/6/2025 10:53:10 AM	Peak Integrated by Software
SSTDICC010	BF142297.D	bis(2-Chloroethyl)ether	Rahul	5/6/2025 9:54:13 AM	Jagrut	5/6/2025 10:53:10 AM	Peak Integrated by Software
SSTDICC020	BF142298.D	4-Chloroaniline	Rahul	5/6/2025 9:54:17 AM	Jagrut	5/6/2025 10:53:16 AM	Peak Integrated by Software
SSTDICC020	BF142298.D	Benzoic acid	Rahul	5/6/2025 9:54:17 AM	Jagrut	5/6/2025 10:53:16 AM	Peak Integrated by Software
SSTDICCC040	BF142299.D	4-Chloroaniline	Rahul	5/6/2025 9:54:21 AM	Jagrut	5/6/2025 10:53:20 AM	Peak Integrated by Software
SSTDICCC040	BF142299.D	bis(2-Chloroethyl)ether	Rahul	5/6/2025 9:54:21 AM	Jagrut	5/6/2025 10:53:20 AM	Peak Integrated by Software
SSTDICCC040	BF142299.D	Phenol	Rahul	5/6/2025 9:54:21 AM	Jagrut	5/6/2025 10:53:20 AM	Peak Integrated by Software
SSTDICC050	BF142300.D	4-Chloroaniline	Rahul	5/6/2025 9:54:25 AM	Jagrut	5/6/2025 10:53:28 AM	Peak Integrated by Software
SSTDICC050	BF142300.D	Benzoic acid	Rahul	5/6/2025 9:54:25 AM	Jagrut	5/6/2025 10:53:28 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	bf050525	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC050	BF142300.D	bis(2-Chloroethyl)ether	Rahul	5/6/2025 9:54:25 AM	Jagrut	5/6/2025 10:53:28 AM	Peak Integrated by Software
SSTDICC050	BF142300.D	Phenol	Rahul	5/6/2025 9:54:25 AM	Jagrut	5/6/2025 10:53:28 AM	Peak Integrated by Software
SSTDICC060	BF142301.D	4-Chloroaniline	Rahul	5/6/2025 9:54:28 AM	Jagrut	5/6/2025 10:53:32 AM	Peak Integrated by Software
SSTDICC060	BF142301.D	Benzoic acid	Rahul	5/6/2025 9:54:28 AM	Jagrut	5/6/2025 10:53:32 AM	Peak Integrated by Software
SSTDICC060	BF142301.D	bis(2-Chloroethyl)ether	Rahul	5/6/2025 9:54:28 AM	Jagrut	5/6/2025 10:53:32 AM	Peak Integrated by Software
SSTDICC060	BF142301.D	Phenol	Rahul	5/6/2025 9:54:28 AM	Jagrut	5/6/2025 10:53:32 AM	Peak Integrated by Software
SSTDICC080	BF142302.D	4-Chloroaniline	Rahul	5/6/2025 9:54:34 AM	Jagrut	5/6/2025 10:53:38 AM	Peak Integrated by Software
SSTDICC080	BF142302.D	Benzoic acid	Rahul	5/6/2025 9:54:34 AM	Jagrut	5/6/2025 10:53:38 AM	Peak Integrated by Software
SSTDICC080	BF142302.D	bis(2-Chloroethyl)ether	Rahul	5/6/2025 9:54:34 AM	Jagrut	5/6/2025 10:53:38 AM	Peak Integrated by Software
SSTDICC080	BF142302.D	Caprolactam	Rahul	5/6/2025 9:54:34 AM	Jagrut	5/6/2025 10:53:38 AM	Peak Integrated by Software
SSTDICC080	BF142302.D	Phenol	Rahul	5/6/2025 9:54:34 AM	Jagrut	5/6/2025 10:53:38 AM	Peak Integrated by Software
SSTDICV040	BF142303.D	4-Chloroaniline	Rahul	5/6/2025 9:54:37 AM	Jagrut	5/6/2025 10:53:42 AM	Peak Integrated by Software
SSTDICV040	BF142303.D	Benzoic acid	Rahul	5/6/2025 9:54:37 AM	Jagrut	5/6/2025 10:53:42 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

bf050525

Instrument

BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICV040	BF142303.D	bis(2-Chloroethyl)ether	Rahul	5/6/2025 9:54:37 AM	Jagrut	5/6/2025 10:53:42 AM	Peak Integrated by Software
SSTDICV040	BF142303.D	Phenol	Rahul	5/6/2025 9:54:37 AM	Jagrut	5/6/2025 10:53:42 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

bf051425

Instrument

BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF142360.D	4-Chloroaniline	Rahul	5/15/2025 9:03:38 AM	Jagrut	5/15/2025 3:44:44 PM	Peak Integrated by Software
Q1982-03MS	BF142366.D	Benzoic acid	Rahul	5/15/2025 9:03:43 AM	Jagrut	5/15/2025 3:44:51 PM	Peak Integrated by Software
Q1982-03MS	BF142366.D	Caprolactam	Rahul	5/15/2025 9:03:43 AM	Jagrut	5/15/2025 3:44:51 PM	Peak Integrated by Software
Q1982-03MSD	BF142367.D	Caprolactam	Rahul	5/15/2025 9:03:47 AM	Jagrut	5/15/2025 3:45:02 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	BF051525	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF142384.D	4-Chloroaniline	Rahul	5/16/2025 12:18:47 PM	Jagrut	5/16/2025 5:46:51 PM	Peak Integrated by Software
Q1982-04	BF142413.D	Benzo(b)fluoranthene	Rahul	5/16/2025 12:19:22 PM	Jagrut	5/16/2025 5:48:01 PM	Peak Integrated by Software
Q1982-04	BF142413.D	Benzo(k)fluoranthene	Rahul	5/16/2025 12:19:22 PM	Jagrut	5/16/2025 5:48:01 PM	Peak Integrated by Software
Q1982-04	BF142413.D	Indeno(1,2,3-cd)pyrene	Rahul	5/16/2025 12:19:22 PM	Jagrut	5/16/2025 5:48:01 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

BF051625

Instrument

BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF142416.D	4-Chloroaniline	Rahul	5/19/2025 1:41:33 PM	Jagrut	5/19/2025 5:03:57 PM	Peak Integrated by Software
PB167953BS	BF142419.D	4-Chloroaniline	Rahul	5/19/2025 1:41:39 PM	Jagrut	5/19/2025 5:04:02 PM	Peak Integrated by Software
PB167953BS	BF142419.D	Caprolactam	Rahul	5/19/2025 1:41:39 PM	Jagrut	5/19/2025 5:04:02 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	BP051325	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BP024615.D	4-Nitroaniline	Rahul	5/14/2025 2:19:40 PM	Jagrut	5/14/2025 5:15:55 PM	Peak Integrated by Software
SSTDICC005	BP024615.D	Benzaldehyde	Rahul	5/14/2025 2:19:40 PM	Jagrut	5/14/2025 5:15:55 PM	Peak Integrated by Software
SSTDICC005	BP024615.D	Caprolactam	Rahul	5/14/2025 2:19:40 PM	Jagrut	5/14/2025 5:15:55 PM	Peak Integrated by Software
SSTDICC010	BP024616.D	4-Nitroaniline	Rahul	5/14/2025 2:19:43 PM	Jagrut	5/14/2025 5:16:07 PM	Peak Integrated by Software
SSTDICC010	BP024616.D	Benzaldehyde	Rahul	5/14/2025 2:19:43 PM	Jagrut	5/14/2025 5:16:07 PM	Peak Integrated by Software
SSTDICC010	BP024616.D	Benzidine	Rahul	5/14/2025 2:19:43 PM	Jagrut	5/14/2025 5:16:07 PM	Peak Integrated by Software
SSTDICC010	BP024616.D	Benzoic acid	Rahul	5/14/2025 2:19:43 PM	Jagrut	5/14/2025 5:16:07 PM	Peak Integrated by Software
SSTDICC010	BP024616.D	Caprolactam	Rahul	5/14/2025 2:19:43 PM	Jagrut	5/14/2025 5:16:07 PM	Peak Integrated by Software
SSTDICC010	BP024616.D	Pentachlorophenol	Rahul	5/14/2025 2:19:43 PM	Jagrut	5/14/2025 5:16:07 PM	Peak Integrated by Software
SSTDICC020	BP024617.D	Benzaldehyde	Rahul	5/14/2025 2:19:45 PM	Jagrut	5/14/2025 5:16:09 PM	Peak Integrated by Software
SSTDICC020	BP024617.D	Benzoic acid	Rahul	5/14/2025 2:19:45 PM	Jagrut	5/14/2025 5:16:09 PM	Peak Integrated by Software
SSTDICC020	BP024617.D	Indeno(1,2,3-cd)pyrene	Rahul	5/14/2025 2:19:45 PM	Jagrut	5/14/2025 5:16:09 PM	Peak Integrated by Software
SSTDICCC040	BP024618.D	Benzaldehyde	Rahul	5/14/2025 2:19:48 PM	Jagrut	5/14/2025 5:16:12 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

BP051325

Instrument

BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICCC040	BP024618.D	Benzoic acid	Rahul	5/14/2025 2:19:48 PM	Jagrut	5/14/2025 5:16:12 PM	Peak Integrated by Software
SSTDICCC080	BP024621.D	Indeno(1,2,3-cd)pyrene	Rahul	5/14/2025 2:19:51 PM	Jagrut	5/14/2025 5:16:14 PM	Peak Integrated by Software
SSTDICV040	BP024622.D	Indeno(1,2,3-cd)pyrene	Rahul	5/14/2025 2:19:57 PM	Jagrut	5/14/2025 5:16:17 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	BP051525	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB167973BS	BP024636.D	Indeno(1,2,3-cd)pyrene	Rahul	5/16/2025 1:10:20 PM	Jagrut	5/16/2025 5:49:16 PM	Peak Integrated by Software
Q2010-02MSD	BP024639.D	Caprolactam	Rahul	5/16/2025 1:10:23 PM	Jagrut	5/16/2025 5:49:19 PM	Peak Integrated by Software
Q1982-08	BP024647.D	Chrysene	Rahul	5/16/2025 1:10:29 PM	Jagrut	5/16/2025 5:49:24 PM	Peak Integrated by Software

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QCBatch ID # BF050525

Review By	Rahul	Review On	5/6/2025 9:56:17 AM
Supervise By	Jagrut	Supervise On	5/6/2025 10:53:56 AM
SubDirectory	BF050525	HP Acquire Method	BNA_F
		HP Processing Method	bf050525
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791		
CCC	SP6787		
Internal Standard/PEM	S12662,10ul/1000ul sample		
ICV/I.BLK	SP6770		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142294.D	05 May 2025 13:24	RC/JU	Ok
2	SSTDICC2.5	BF142295.D	05 May 2025 13:54	RC/JU	Ok
3	SSTDICC005	BF142296.D	05 May 2025 14:23	RC/JU	Ok,M
4	SSTDICC010	BF142297.D	05 May 2025 14:52	RC/JU	Ok,M
5	SSTDICC020	BF142298.D	05 May 2025 15:21	RC/JU	Ok,M
6	SSTDICCC040	BF142299.D	05 May 2025 15:50	RC/JU	Ok,M
7	SSTDICC050	BF142300.D	05 May 2025 16:18	RC/JU	Ok,M
8	SSTDICC060	BF142301.D	05 May 2025 16:47	RC/JU	Ok,M
9	SSTDICC080	BF142302.D	05 May 2025 17:15	RC/JU	Ok,M
10	SSTDICV040	BF142303.D	05 May 2025 18:13	RC/JU	Ok,M
11	PB167836BL	BF142304.D	05 May 2025 18:41	RC/JU	Not Ok

M : Manual Integration

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF051425

Review By	Rahul	Review On	5/15/2025 9:21:42 AM
Supervise By	Jagrut	Supervise On	5/15/2025 3:45:47 PM
SubDirectory	BF051425	HP Acquire Method	BNA_F
		HP Processing Method	bf050525
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791		
CCC	SP6787		
Internal Standard/PEM	S12664,10ul/1000ul sample		
ICV/I.BLK	SP6770		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142359.D	14 May 2025 11:22	RC/JU	Ok
2	SSTDCCC040	BF142360.D	14 May 2025 12:19	RC/JU	Ok,M
3	PB167929BL	BF142361.D	14 May 2025 12:51	RC/JU	Ok
4	PB167929BS	BF142362.D	14 May 2025 13:20	RC/JU	Ok,M
5	Q2004-01	BF142363.D	14 May 2025 13:54	RC/JU	Ok
6	Q1982-01	BF142364.D	14 May 2025 14:23	RC/JU	Ok
7	Q1982-03	BF142365.D	14 May 2025 14:51	RC/JU	Ok
8	Q1982-03MS	BF142366.D	14 May 2025 15:20	RC/JU	Ok,M
9	Q1982-03MSD	BF142367.D	14 May 2025 15:48	RC/JU	Ok,M
10	Q2014-03	BF142368.D	14 May 2025 16:17	RC/JU	Ok
11	Q2004-03	BF142369.D	14 May 2025 16:46	RC/JU	Ok
12	Q2017-04	BF142370.D	14 May 2025 17:15	RC/JU	Ok
13	Q2001-03	BF142371.D	14 May 2025 17:44	RC/JU	Ok
14	Q2001-03MS	BF142372.D	14 May 2025 18:12	RC/JU	Ok,M
15	Q2001-03MSD	BF142373.D	14 May 2025 18:41	RC/JU	Ok,M
16	Q2001-07	BF142374.D	14 May 2025 19:10	RC/JU	Ok
17	Q2001-11	BF142375.D	14 May 2025 19:39	RC/JU	Ok
18	Q2001-15	BF142376.D	14 May 2025 20:08	RC/JU	Ok
19	Q2017-08	BF142377.D	14 May 2025 20:37	RC/JU	Ok
20	Q1982-02	BF142378.D	14 May 2025 21:06	RC/JU	Ok
21	Q2004-09	BF142379.D	14 May 2025 21:35	RC/JU	Ok

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF051425

Review By	Rahul	Review On	5/15/2025 9:21:42 AM		
Supervise By	Jagrut	Supervise On	5/15/2025 3:45:47 PM		
SubDirectory	BF051425	HP Acquire Method	BNA_F	HP Processing Method	bf050525
STD. NAME		STD REF.#			
Tune/Reschk		SP6757			
Initial Calibration Stds		SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791			
CCC		SP6787			
Internal Standard/PEM		S12664,10ul/1000ul sample			
ICV/I.BLK		SP6770			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q2017-01	BF142380.D	14 May 2025 22:03	RC/JU	Ok
23	Q2017-05	BF142381.D	14 May 2025 22:32	RC/JU	Ok
24	Q2005-01	BF142382.D	14 May 2025 23:00	RC/JU	Ok,M

M : Manual Integration

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF051525

Review By	Rahul	Review On	5/16/2025 2:19:49 PM
Supervise By	Jagrut	Supervise On	5/16/2025 5:48:19 PM
SubDirectory	BF051525	HP Acquire Method	BNA_F
		HP Processing Method	bf050525
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791		
CCC	SP6787		
Internal Standard/PEM	S12664,10ul/1000ul sample		
ICV/I.BLK	SP6770		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142383.D	15 May 2025 09:09	RC/JU	Ok
2	SSTDCCC040	BF142384.D	15 May 2025 10:08	RC/JU	Ok,M
3	PB167951BL	BF142385.D	15 May 2025 10:37	RC/JU	Ok
4	PB167951BS	BF142386.D	15 May 2025 11:06	RC/JU	Ok,M
5	Q1985-01	BF142387.D	15 May 2025 11:49	RC/JU	Ok
6	Q1993-02MS	BF142388.D	15 May 2025 12:18	RC/JU	Ok,M
7	Q1993-03MSD	BF142389.D	15 May 2025 12:47	RC/JU	Ok,M
8	Q1983-07	BF142390.D	15 May 2025 13:24	RC/JU	Ok,M
9	SSTDCCC040	BF142391.D	15 May 2025 13:58	RC/JU	Ok
10	DFTPP	BF142392.D	15 May 2025 14:27	RC/JU	Ok
11	SSTDCCC040	BF142393.D	15 May 2025 15:41	RC/JU	Ok
12	PB167953BL	BF142394.D	15 May 2025 16:10	RC/JU	Ok
13	Q2023-01	BF142395.D	15 May 2025 16:43	RC/JU	Ok
14	Q2022-01	BF142396.D	15 May 2025 17:12	RC/JU	Ok
15	Q2010-03	BF142397.D	15 May 2025 17:42	RC/JU	Ok
16	Q2010-04	BF142398.D	15 May 2025 18:11	RC/JU	Ok
17	Q1982-06	BF142399.D	15 May 2025 18:40	RC/JU	Ok
18	Q2022-04	BF142400.D	15 May 2025 19:09	RC/JU	Ok
19	Q2022-04MS	BF142401.D	15 May 2025 19:38	RC/JU	Ok,M
20	Q2022-04MSD	BF142402.D	15 May 2025 20:07	RC/JU	Ok,M
21	Q2014-05	BF142403.D	15 May 2025 20:36	RC/JU	Ok

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF051525

Review By	Rahul	Review On	5/16/2025 2:19:49 PM
Supervise By	Jagrut	Supervise On	5/16/2025 5:48:19 PM
SubDirectory	BF051525	HP Acquire Method	BNA_F
		HP Processing Method	bf050525
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791		
CCC	SP6787		
Internal Standard/PEM	S12664,10ul/1000ul sample		
ICV/I.BLK	SP6770		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q2022-02	BF142404.D	15 May 2025 21:05	RC/JU	Ok,M
23	Q2019-01	BF142405.D	15 May 2025 21:34	RC/JU	Ok
24	Q1982-07	BF142406.D	15 May 2025 22:04	RC/JU	Ok
25	Q2038-01	BF142407.D	15 May 2025 22:33	RC/JU	Dilution
26	Q1982-05	BF142408.D	15 May 2025 23:01	RC/JU	Ok
27	Q2014-01	BF142409.D	15 May 2025 23:31	RC/JU	Ok
28	Q2020-01	BF142410.D	15 May 2025 23:59	RC/JU	Ok
29	Q2024-01	BF142411.D	16 May 2025 00:28	RC/JU	Ok,M
30	Q2010-01	BF142412.D	16 May 2025 00:58	RC/JU	Ok,M
31	Q1982-04	BF142413.D	16 May 2025 01:27	RC/JU	Ok,M
32	Q2039-01	BF142414.D	16 May 2025 01:56	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF051625

Review By	Rahul	Review On	5/19/2025 1:42:48 PM		
Supervise By	Jagrut	Supervise On	5/19/2025 5:04:42 PM		
SubDirectory	BF051625	HP Acquire Method	BNA_F	HP Processing Method	bf050525
STD. NAME		STD REF.#			
Tune/Reschk	SP6757				
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791				
CCC	SP6787				
Internal Standard/PEM	S12664,10ul/1000ul sample				
ICV/I.BLK	SP6770				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142415.D	16 May 2025 09:16	RC/JU	Ok
2	SSTDCCC040	BF142416.D	16 May 2025 09:45	RC/JU	Ok,M
3	PB168000BL	BF142417.D	16 May 2025 10:14	RC/JU	Ok
4	PB168000BS	BF142418.D	16 May 2025 10:43	RC/JU	Ok,M
5	PB167953BS	BF142419.D	16 May 2025 11:13	RC/JU	Ok,M
6	PB167970BL	BF142420.D	16 May 2025 11:42	RC/JU	Ok
7	PB167970BS	BF142421.D	16 May 2025 12:11	RC/JU	Ok,M
8	PB167943TB	BF142422.D	16 May 2025 12:40	RC/JU	Ok
9	Q2048-01	BF142423.D	16 May 2025 13:19	RC/JU	ReRun
10	Q2048-13	BF142424.D	16 May 2025 13:48	RC/JU	Ok
11	Q2048-05	BF142425.D	16 May 2025 14:17	RC/JU	Ok
12	Q2048-09	BF142426.D	16 May 2025 14:46	RC/JU	Ok
13	Q2034-01	BF142427.D	16 May 2025 15:16	RC/JU	Ok
14	Q2034-01MS	BF142428.D	16 May 2025 15:46	RC/JU	Ok
15	Q2034-01MSD	BF142429.D	16 May 2025 16:15	RC/JU	Ok
16	Q2038-01DL	BF142430.D	16 May 2025 16:44	RC/JU	Ok,M
17	Q2034-05	BF142431.D	16 May 2025 17:14	RC/JU	Ok,M
18	Q2034-17	BF142432.D	16 May 2025 17:43	RC/JU	Ok,M
19	Q2034-21	BF142433.D	16 May 2025 18:13	RC/JU	Ok,M
20	Q2034-09	BF142434.D	16 May 2025 18:42	RC/JU	Ok,M
21	Q2034-13	BF142435.D	16 May 2025 19:11	RC/JU	Ok

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF051625

Review By	Rahul	Review On	5/19/2025 1:42:48 PM		
Supervise By	Jagrut	Supervise On	5/19/2025 5:04:42 PM		
SubDirectory	BF051625	HP Acquire Method	BNA_F	HP Processing Method	bf050525
STD. NAME		STD REF.#			
Tune/Reschk		SP6757			
Initial Calibration Stds		SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791			
CCC		SP6787			
Internal Standard/PEM		S12664,10ul/1000ul sample			
ICV/I.BLK		SP6770			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q2055-01	BF142436.D	16 May 2025 19:40	RC/JU	Ok,M
23	Q2047-01	BF142437.D	16 May 2025 20:09	RC/JU	ReRun
24	Q2043-01	BF142438.D	16 May 2025 20:38	RC/JU	Ok,M
25	Q2043-03	BF142439.D	16 May 2025 21:08	RC/JU	Ok,M

M : Manual Integration

Instrument ID: **BNA_P**

Daily Analysis Runlog For Sequence/QC Batch ID # BP051325

Review By	Rahul	Review On	5/14/2025 2:20:20 PM		
Supervise By	Jagrut	Supervise On	5/14/2025 5:16:42 PM		
SubDirectory	BP051325	HP Acquire Method	BNA_P	HP Processing Method	bp051325
STD. NAME		STD REF.#			
Tune/Reschk		SP6757			
Initial Calibration Stds		SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791			
CCC		SP6787			
Internal Standard/PEM		S12664,10ul/1000ul sample			
ICV/I.BLK		SP6770			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP024613.D	13 May 2025 10:00	RC/JU	Ok
2	SSTDICC2.5	BP024614.D	13 May 2025 10:41	RC/JU	Ok
3	SSTDICC005	BP024615.D	13 May 2025 11:22	RC/JU	Ok,M
4	SSTDICC010	BP024616.D	13 May 2025 12:03	RC/JU	Ok,M
5	SSTDICC020	BP024617.D	13 May 2025 12:43	RC/JU	Ok,M
6	SSTDICCC040	BP024618.D	13 May 2025 13:24	RC/JU	Ok,M
7	SSTDICC050	BP024619.D	13 May 2025 14:05	RC/JU	Ok
8	SSTDICC060	BP024620.D	13 May 2025 14:45	RC/JU	Ok
9	SSTDICC080	BP024621.D	13 May 2025 15:26	RC/JU	Ok,M
10	SSTDICV040	BP024622.D	13 May 2025 17:01	RC/JU	Ok,M
11	PB167917TB	BP024623.D	13 May 2025 18:23	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_P**

Daily Analysis Runlog For Sequence/QC Batch ID # BP051525

Review By	Rahul	Review On	5/16/2025 2:18:41 PM
Supervise By	Jagrut	Supervise On	5/16/2025 5:49:55 PM
SubDirectory	BP051525	HP Acquire Method	BNA_P
		HP Processing Method	BP051325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791		
CCC	SP6787		
Internal Standard/PEM	S12664,10ul/1000ul sample		
ICV/I.BLK	SP6770		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP024633.D	15 May 2025 11:44	RC/JU	Ok
2	SSTDCCC040	BP024634.D	15 May 2025 12:25	RC/JU	Ok
3	PB167973BL	BP024635.D	15 May 2025 13:05	RC/JU	Ok
4	PB167973BS	BP024636.D	15 May 2025 13:53	RC/JU	Ok,M
5	Q2010-02	BP024637.D	15 May 2025 14:38	RC/JU	Ok
6	Q2010-02MS	BP024638.D	15 May 2025 15:18	RC/JU	Ok
7	Q2010-02MSD	BP024639.D	15 May 2025 15:59	RC/JU	Ok,M
8	Q1984-01	BP024640.D	15 May 2025 16:40	RC/JU	Ok
9	Q1984-03	BP024641.D	15 May 2025 17:21	RC/JU	ReRun
10	Q1984-05	BP024642.D	15 May 2025 18:01	RC/JU	Ok
11	Q1984-09	BP024643.D	15 May 2025 18:42	RC/JU	ReRun
12	Q1984-11	BP024644.D	15 May 2025 19:23	RC/JU	Ok
13	Q1984-13	BP024645.D	15 May 2025 20:04	RC/JU	ReRun
14	Q1984-15	BP024646.D	15 May 2025 20:45	RC/JU	Ok
15	Q1982-08	BP024647.D	15 May 2025 21:25	RC/JU	Ok,M
16	Q1984-07	BP024648.D	15 May 2025 22:06	RC/JU	Ok
17	SSTDCCC040	BP024649.D	15 May 2025 23:28	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF050525

Review By	Rahul	Review On	5/6/2025 9:56:17 AM
Supervise By	Jagrut	Supervise On	5/6/2025 10:53:56 AM
SubDirectory	BF050525	HP Acquire Method	BNA_F
		HP Processing Method	bf050525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12662,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142294.D	05 May 2025 13:24		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF142295.D	05 May 2025 13:54		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF142296.D	05 May 2025 14:23	Compound#32-54-65-77-85 removed from 5 ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BF142297.D	05 May 2025 14:52		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF142298.D	05 May 2025 15:21		RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF142299.D	05 May 2025 15:50	Compound#26-54-65-80-84-85 kept on LR & #32 kept on QR	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BF142300.D	05 May 2025 16:18		RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BF142301.D	05 May 2025 16:47		RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BF142302.D	05 May 2025 17:15	Compound#9 removed from 80 ppm	RC/JU	Ok,M
10	SSTDICV040	ICVBF050525	BF142303.D	05 May 2025 18:13		RC/JU	Ok,M
11	PB167836BL	PB167836BL	BF142304.D	05 May 2025 18:41	Analyzed for contamination check.	RC/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF051425

Review By	Rahul	Review On	5/15/2025 9:21:42 AM		
Supervise By	Jagrut	Supervise On	5/15/2025 3:45:47 PM		
SubDirectory	BF051425	HP Acquire Method	BNA_F	HP Processing Method	bf050525
STD. NAME		STD REF.#			
Tune/Reschk		SP6757			
Initial Calibration Stds		SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791			
CCC		SP6787			
Internal Standard/PEM		S12664,10ul/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	BF142359.D	14 May 2025 11:22		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142360.D	14 May 2025 12:19		RC/JU	Ok,M
3	PB167929BL	PB167929BL	BF142361.D	14 May 2025 12:51		RC/JU	Ok
4	PB167929BS	PB167929BS	BF142362.D	14 May 2025 13:20		RC/JU	Ok,M
5	Q2004-01	VNJ-220	BF142363.D	14 May 2025 13:54		RC/JU	Ok
6	Q1982-01	TP-1	BF142364.D	14 May 2025 14:23		RC/JU	Ok
7	Q1982-03	TP-3	BF142365.D	14 May 2025 14:51		RC/JU	Ok
8	Q1982-03MS	TP-3MS	BF142366.D	14 May 2025 15:20		RC/JU	Ok,M
9	Q1982-03MSD	TP-3MSD	BF142367.D	14 May 2025 15:48		RC/JU	Ok,M
10	Q2014-03	MOO-25-0145	BF142368.D	14 May 2025 16:17		RC/JU	Ok
11	Q2004-03	2811	BF142369.D	14 May 2025 16:46		RC/JU	Ok
12	Q2017-04	MH-I	BF142370.D	14 May 2025 17:15		RC/JU	Ok
13	Q2001-03	WC-A4-03-C	BF142371.D	14 May 2025 17:44		RC/JU	Ok
14	Q2001-03MS	WC-A4-03-CMS	BF142372.D	14 May 2025 18:12		RC/JU	Ok,M
15	Q2001-03MSD	WC-A4-03-CMSD	BF142373.D	14 May 2025 18:41		RC/JU	Ok,M
16	Q2001-07	WC-A1-05-C	BF142374.D	14 May 2025 19:10		RC/JU	Ok
17	Q2001-11	WC-A1-06-C	BF142375.D	14 May 2025 19:39		RC/JU	Ok
18	Q2001-15	WC-A1-07-C	BF142376.D	14 May 2025 20:08		RC/JU	Ok

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF051425

Review By	Rahul	Review On	5/15/2025 9:21:42 AM		
Supervise By	Jagrut	Supervise On	5/15/2025 3:45:47 PM		
SubDirectory	BF051425	HP Acquire Method	BNA_F	HP Processing Method	bf050525
STD. NAME	STD REF.#				
Tune/Reschk	SP6757				
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791				
CCC	SP6787				
Internal Standard/PEM	S12664,10ul/1000ul sample				
ICV/I.BLK	SP6770				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q2017-08	MH-J	BF142377.D	14 May 2025 20:37		RC/JU	Ok
20	Q1982-02	TP-2B	BF142378.D	14 May 2025 21:06		RC/JU	Ok
21	Q2004-09	SOIL-STOCK	BF142379.D	14 May 2025 21:35		RC/JU	Ok
22	Q2017-01	MH-I	BF142380.D	14 May 2025 22:03		RC/JU	Ok
23	Q2017-05	MH-J	BF142381.D	14 May 2025 22:32		RC/JU	Ok
24	Q2005-01	252806	BF142382.D	14 May 2025 23:00	Internal Standard Fail	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF051525

Review By	Rahul	Review On	5/16/2025 2:19:49 PM		
Supervise By	Jagrut	Supervise On	5/16/2025 5:48:19 PM		
SubDirectory	BF051525	HP Acquire Method	BNA_F	HP Processing Method	bf050525
STD. NAME		STD REF.#			
Tune/Reschk		SP6757			
Initial Calibration Stds		SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791			
CCC		SP6787			
Internal Standard/PEM		S12664,10ul/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	BF142383.D	15 May 2025 09:09		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142384.D	15 May 2025 10:08		RC/JU	Ok,M
3	PB167951BL	PB167951BL	BF142385.D	15 May 2025 10:37		RC/JU	Ok
4	PB167951BS	PB167951BS	BF142386.D	15 May 2025 11:06		RC/JU	Ok,M
5	Q1985-01	RW8-BW-20250507	BF142387.D	15 May 2025 11:49		RC/JU	Ok
6	Q1993-02MS	MW-3-20250508MS	BF142388.D	15 May 2025 12:18		RC/JU	Ok,M
7	Q1993-03MSD	MW-3-20250508MSD	BF142389.D	15 May 2025 12:47		RC/JU	Ok,M
8	Q1983-07	OR-636-COMP-02	BF142390.D	15 May 2025 13:24		RC/JU	Ok,M
9	SSTDCCC040	SSTDCCC040EC	BF142391.D	15 May 2025 13:58		RC/JU	Ok
10	DFTPP	DFTPP	BF142392.D	15 May 2025 14:27		RC/JU	Ok
11	SSTDCCC040	SSTDCCC040	BF142393.D	15 May 2025 15:41		RC/JU	Ok
12	PB167953BL	PB167953BL	BF142394.D	15 May 2025 16:10		RC/JU	Ok
13	Q2023-01	HEATER-PAD	BF142395.D	15 May 2025 16:43		RC/JU	Ok
14	Q2022-01	336	BF142396.D	15 May 2025 17:12		RC/JU	Ok
15	Q2010-03	TP-14	BF142397.D	15 May 2025 17:42		RC/JU	Ok
16	Q2010-04	TP-17	BF142398.D	15 May 2025 18:11		RC/JU	Ok
17	Q1982-06	TP-6	BF142399.D	15 May 2025 18:40		RC/JU	Ok
18	Q2022-04	COMP-2	BF142400.D	15 May 2025 19:09		RC/JU	Ok

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF051525

Review By	Rahul	Review On	5/16/2025 2:19:49 PM		
Supervise By	Jagrut	Supervise On	5/16/2025 5:48:19 PM		
SubDirectory	BF051525	HP Acquire Method	BNA_F	HP Processing Method	bf050525
STD. NAME	STD REF.#				
Tune/Reschk	SP6757				
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791				
CCC	SP6787				
Internal Standard/PEM	S12664,10ul/1000ul sample				
ICV/I.BLK	SP6770				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q2022-04MS	COMP-2MS	BF142401.D	15 May 2025 19:38		RC/JU	Ok,M
20	Q2022-04MSD	COMP-2MSD	BF142402.D	15 May 2025 20:07		RC/JU	Ok,M
21	Q2014-05	MOO-25-0148	BF142403.D	15 May 2025 20:36		RC/JU	Ok
22	Q2022-02	COMP-1	BF142404.D	15 May 2025 21:05		RC/JU	Ok,M
23	Q2019-01	MH-K	BF142405.D	15 May 2025 21:34		RC/JU	Ok
24	Q1982-07	TP-8	BF142406.D	15 May 2025 22:04		RC/JU	Ok
25	Q2038-01	72-11991	BF142407.D	15 May 2025 22:33	Need 5X Dilution	RC/JU	Dilution
26	Q1982-05	TP-5	BF142408.D	15 May 2025 23:01		RC/JU	Ok
27	Q2014-01	MOO-25-0134	BF142409.D	15 May 2025 23:31	Internal Standard Fail	RC/JU	Ok
28	Q2020-01	TP-A	BF142410.D	15 May 2025 23:59		RC/JU	Ok
29	Q2024-01	PL-02-051325	BF142411.D	16 May 2025 00:28		RC/JU	Ok,M
30	Q2010-01	TP-10	BF142412.D	16 May 2025 00:58		RC/JU	Ok,M
31	Q1982-04	TP-4	BF142413.D	16 May 2025 01:27		RC/JU	Ok,M
32	Q2039-01	TR-05-05142025	BF142414.D	16 May 2025 01:56		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF051625

Review By	Rahul	Review On	5/19/2025 1:42:48 PM		
Supervise By	Jagrut	Supervise On	5/19/2025 5:04:42 PM		
SubDirectory	BF051625	HP Acquire Method	BNA_F	HP Processing Method	bf050525
STD. NAME		STD REF.#			
Tune/Reschk	SP6757				
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791				
CCC	SP6787				
Internal Standard/PEM	S12664,10ul/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	BF142415.D	16 May 2025 09:16		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142416.D	16 May 2025 09:45		RC/JU	Ok,M
3	PB168000BL	PB168000BL	BF142417.D	16 May 2025 10:14		RC/JU	Ok
4	PB168000BS	PB168000BS	BF142418.D	16 May 2025 10:43		RC/JU	Ok,M
5	PB167953BS	PB167953BS	BF142419.D	16 May 2025 11:13		RC/JU	Ok,M
6	PB167970BL	PB167970BL	BF142420.D	16 May 2025 11:42		RC/JU	Ok
7	PB167970BS	PB167970BS	BF142421.D	16 May 2025 12:11		RC/JU	Ok,M
8	PB167943TB	PB167943TB	BF142422.D	16 May 2025 12:40		RC/JU	Ok
9	Q2048-01	L2-WC-1	BF142423.D	16 May 2025 13:19	Internal Standard Fail	RC/JU	ReRun
10	Q2048-13	L2-WC-4	BF142424.D	16 May 2025 13:48		RC/JU	Ok
11	Q2048-05	L2-WC-2	BF142425.D	16 May 2025 14:17		RC/JU	Ok
12	Q2048-09	L2-WC-3	BF142426.D	16 May 2025 14:46		RC/JU	Ok
13	Q2034-01	L3-WC-1	BF142427.D	16 May 2025 15:16		RC/JU	Ok
14	Q2034-01MS	L3-WC-1MS	BF142428.D	16 May 2025 15:46		RC/JU	Ok
15	Q2034-01MSD	L3-WC-1MSD	BF142429.D	16 May 2025 16:15		RC/JU	Ok
16	Q2038-01DL	72-11991DL	BF142430.D	16 May 2025 16:44		RC/JU	Ok,M
17	Q2034-05	L3-WC-2	BF142431.D	16 May 2025 17:14		RC/JU	Ok,M
18	Q2034-17	L3-WC-5	BF142432.D	16 May 2025 17:43		RC/JU	Ok,M

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF051625

Review By	Rahul	Review On	5/19/2025 1:42:48 PM		
Supervise By	Jagrut	Supervise On	5/19/2025 5:04:42 PM		
SubDirectory	BF051625	HP Acquire Method	BNA_F	HP Processing Method	bf050525
STD. NAME	STD REF.#				
Tune/Reschk	SP6757				
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791				
CCC	SP6787				
Internal Standard/PEM	S12664,10ul/1000ul sample				
ICV/I.BLK	SP6770				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q2034-21	L3-WC-6	BF142433.D	16 May 2025 18:13		RC/JU	Ok,M
20	Q2034-09	L3-WC-3	BF142434.D	16 May 2025 18:42		RC/JU	Ok,M
21	Q2034-13	L3-WC-4	BF142435.D	16 May 2025 19:11		RC/JU	Ok
22	Q2055-01	OR-02-051525	BF142436.D	16 May 2025 19:40		RC/JU	Ok,M
23	Q2047-01	SU-04-051425	BF142437.D	16 May 2025 20:09	Internal Standard Fail	RC/JU	ReRun
24	Q2043-01	281	BF142438.D	16 May 2025 20:38	Internal Standard Fail	RC/JU	Ok,M
25	Q2043-03	72-12000	BF142439.D	16 May 2025 21:08	Internal Standard Fail	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QC Batch ID # BP051325

Review By	Rahul	Review On	5/14/2025 2:20:20 PM
Supervise By	Jagrut	Supervise On	5/14/2025 5:16:42 PM
SubDirectory	BP051325	HP Acquire Method	BNA_P
		HP Processing Method	bp051325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12664,10ul/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	BP024613.D	13 May 2025 10:00		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BP024614.D	13 May 2025 10:41		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BP024615.D	13 May 2025 11:22	Compound#32-54-56-65-77 removed from 5 ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BP024616.D	13 May 2025 12:03		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BP024617.D	13 May 2025 12:43		RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BP024618.D	13 May 2025 13:24	Compound#32-54-56 Kept on LR	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BP024619.D	13 May 2025 14:05		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BP024620.D	13 May 2025 14:45		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BP024621.D	13 May 2025 15:26		RC/JU	Ok,M
10	SSTDICV040	ICVBP051325	BP024622.D	13 May 2025 17:01		RC/JU	Ok,M
11	PB167917TB	PB167917TB	BP024623.D	13 May 2025 18:23		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QC Batch ID # BP051525

Review By	Rahul	Review On	5/16/2025 2:18:41 PM		
Supervise By	Jagrut	Supervise On	5/16/2025 5:49:55 PM		
SubDirectory	BP051525	HP Acquire Method	BNA_P	HP Processing Method	BP051325
STD. NAME		STD REF.#			
Tune/Reschk		SP6757			
Initial Calibration Stds		SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791			
CCC		SP6787			
Internal Standard/PEM		S12664,10ul/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	BP024633.D	15 May 2025 11:44		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BP024634.D	15 May 2025 12:25		RC/JU	Ok
3	PB167973BL	PB167973BL	BP024635.D	15 May 2025 13:05		RC/JU	Ok
4	PB167973BS	PB167973BS	BP024636.D	15 May 2025 13:53		RC/JU	Ok,M
5	Q2010-02	TP-13	BP024637.D	15 May 2025 14:38		RC/JU	Ok
6	Q2010-02MS	TP-13MS	BP024638.D	15 May 2025 15:18		RC/JU	Ok
7	Q2010-02MSD	TP-13MSD	BP024639.D	15 May 2025 15:59		RC/JU	Ok,M
8	Q1984-01	OU4-PCS-TC-33-05072	BP024640.D	15 May 2025 16:40		RC/JU	Ok
9	Q1984-03	OU4-PCS-TC-34-05072	BP024641.D	15 May 2025 17:21	Surrogate Fail - RE EXTRACTION.	RC/JU	ReRun
10	Q1984-05	OU4-PCS-TC-35-05072	BP024642.D	15 May 2025 18:01		RC/JU	Ok
11	Q1984-09	OU4-TS-25-050725	BP024643.D	15 May 2025 18:42	Surrogate Fail - RE EXTRACTION.	RC/JU	ReRun
12	Q1984-11	OU4-TS-26-050725	BP024644.D	15 May 2025 19:23		RC/JU	Ok
13	Q1984-13	OU4-TS-27-050725	BP024645.D	15 May 2025 20:04	Surrogate Fail - RE EXTRACTION.	RC/JU	ReRun
14	Q1984-15	OU4-TS-28-050725	BP024646.D	15 May 2025 20:45		RC/JU	Ok
15	Q1982-08	TP-9	BP024647.D	15 May 2025 21:25		RC/JU	Ok,M
16	Q1984-07	OU4-TS-24-050725	BP024648.D	15 May 2025 22:06		RC/JU	Ok
17	SSTDCCC040	SSTDCCC040EC	BP024649.D	15 May 2025 23:28		RC/JU	Ok

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QC Batch ID # BP051525

Review By	Rahul	Review On	5/16/2025 2:18:41 PM		
Supervise By	Jagrut	Supervise On	5/16/2025 5:49:55 PM		
SubDirectory	BP051525	HP Acquire Method	BNA_P	HP Processing Method	BP051325
STD. NAME	STD REF.#				
Tune/Reschk	SP6757				
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791				
CCC	SP6787				
Internal Standard/PEM	S12664,10ul/1000ul sample				
ICV/I.BLK	SP6770				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

M : Manual Integration

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SOP ID:	M3541-ASE Extraction-14		
Clean Up SOP #:	N/A	Extraction Start Date :	05/12/2025
Matrix :	Solid	Extraction Start Time :	09:38
Weigh By:	EH	Extraction By:	RJ
Balance check:	RJ	Filter By:	RJ
Balance ID:	EX-SC-2	pH Meter ID:	N/A
pH Strip Lot#:	N/A	Hood ID:	3,7
Extraction Method:	☐ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet		
Extraction End Date :	05/12/2025		
Extraction End Time :	13:10		
Concentration By:	EH		
Supervisor By :	RUPESH		

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	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	EP2611
Sand	N/A	EP2865
Methylene Chloride	N/A	E3930
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
5/12/25	RS (Ext-96)	Rc/svoc
13:15	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 05/12/2025

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167953BL	SBLK953	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			U1-1
PB167953BS	SLCS953	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1			2
Q1982-01	TP-1	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		3
Q1982-02	TP-2B	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		4
Q1982-03	TP-3	SVOC-TCL BNA -20	30.09	N/A	ritesh	Evelyn	1	E		5
Q1982-03MS	TP-3MS	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		6
Q1982-03MS D	TP-3MSD	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		U2-1
Q1982-04	TP-4	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		2
Q1982-05	TP-5	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1	E		3
Q1982-06	TP-6	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		4
Q1982-07	TP-8	SVOC-TCL BNA -20	30.09	N/A	ritesh	Evelyn	1	E		5
Q2002-01	EO-02-05092025	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	E		6
Q2004-01	VNJ-220	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		U3-1
Q2004-03	2811	SVOC-TCL BNA -20	50.09	N/A	ritesh	Evelyn	1	E		2
Q2004-05	R0202	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E		3
Q2004-07	205510	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	E		4
Q2004-09	SOIL-STOCK	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	E		5
Q2004-11	STONE-STOCK	SVOC-TCL BNA -20	50.01	N/A	ritesh	Evelyn	1	E		6
Q2007-01	OR-636-COMP-10	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		U6-1
Q2007-07	OR-636-COMP-11	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	E		2
Q2007-13	OR-636-COMP-12	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	E		3
Q2007-19	OR-636-COMP-13	SVOC-TCL BNA -20	50.08	N/A	ritesh	Evelyn	1	E		4
Q2007-25	OR-636-COMP-14	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		5
Q2007-31	OR-636-COMP-15	SVOC-TCL BNA -20	50.01	N/A	ritesh	Evelyn	1	E		6

* Extracts relinquished on the same date as received.

RS
5/12

169957
9:59:19

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2004

WorkList ID : 189442

Department : Extraction

Date : 05-12-2025 09:11:49

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1982-01	TP-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/07/2025	8270E
Q1982-02	TP-2B	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/07/2025	8270E
Q1982-03	TP-3	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/07/2025	8270E
Q1982-04	TP-4	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/07/2025	8270E
Q1982-05	TP-5	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/07/2025	8270E
Q1982-06	TP-6	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/07/2025	8270E
Q1982-07	TP-8	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/07/2025	8270E
Q2002-01	EO-02-05092025	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	L41	05/09/2025	8270E
Q2004-01	VNJ-220	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/09/2025	8270E
Q2004-03	2811	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/09/2025	8270E
Q2004-05	R0202	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/09/2025	8270E
Q2004-07	205510	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/09/2025	8270E
Q2004-09	SOIL-STOCK	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/09/2025	8270E
Q2004-11	STONE-STOCK	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/09/2025	8270E
Q2007-01	OR-636-COMP-10	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/09/2025	8270E
Q2007-07	OR-636-COMP-11	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/09/2025	8270E
Q2007-13	OR-636-COMP-12	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/09/2025	8270E
Q2007-19	OR-636-COMP-13	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/09/2025	8270E
Q2007-25	OR-636-COMP-14	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/09/2025	8270E
Q2007-31	OR-636-COMP-15	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/09/2025	8270E

23/5716

Date/Time 5/12/25 9:35
Raw Sample Received by: RJ (Ext-64)
Raw Sample Relinquished by: [Signature]

Date/Time 5/12/25 10:15
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: RJ (Ext-64)

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Solid

Welgh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 05/13/2025

Extraction Start Time : 09:05

Extraction End Date : 05/13/2025

Extraction End Time : 12:25

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: ☐ Separatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet

Standard 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	EP2611
Sand	N/A	EP2865
Methylene Chloride	N/A	E3930
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210443. Q2014-05 used Limited volume as sample is small particles oily.

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
5/13/25	RS (B4-604)	RC/svoc
12:30	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 05/13/2025

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167973BL	SBLK973	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			U6-1
PB167973BS	SLCS973	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			2
Q1982-08	TP-9	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		3
Q1984-01	OU4-PCS-TC-33-050725	SVOCMS Group3	30.03	N/A	ritesh	Evelyn	1	E		4
Q1984-03	OU4-PCS-TC-34-050725	SVOCMS Group3	30.04	N/A	ritesh	Evelyn	1	E		5
Q1984-05	OU4-PCS-TC-35-050725	SVOCMS Group3	30.05	N/A	ritesh	Evelyn	1	E		6
Q1984-07	OU4-TS-24-050725	SVOCMS Group3	30.01	N/A	ritesh	Evelyn	1	E		U1-1
Q1984-09	OU4-TS-25-050725	SVOCMS Group3	30.06	N/A	ritesh	Evelyn	1	E		2
Q1984-11	OU4-TS-26-050725	SVOCMS Group3	30.04	N/A	ritesh	Evelyn	1	E		3
Q1984-13	OU4-TS-27-050725	SVOCMS Group3	30.02	N/A	ritesh	Evelyn	1	E		4
Q1984-15	OU4-TS-28-050725	SVOCMS Group3	30.03	N/A	ritesh	Evelyn	1	E		5
Q2010-01	TP-10	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		6
Q2010-02	TP-13	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		U2-1
Q2010-02MS	TP-13MS	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		2
Q2010-02MS D	TP-13MSD	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1	E		3
Q2010-03	TP-14	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		4
Q2010-04	TP-17	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	E		5
Q2014-01	MOO-25-0134	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E	Small Particles	6
Q2014-03	MOO-25-0145	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E	Small Particles	U3-1
Q2014-05	MOO-25-0148	SVOC-TCL BNA -20	10.03	N/A	ritesh	Evelyn	2	E	Small Particles	2
Q2017-01	MH-I	SVOC-TCL BNA -20	50.01	N/A	ritesh	Evelyn	1	E		3
Q2017-05	MH-J	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	A		4

* Extracts relinquished on the same date as received.

16473
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WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2010BN WorkList ID : 189476 Department : Extraction Date : 05-13-2025 08:45:20

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1982-08	TP-9	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/07/2025	8270E
Q1984-01	OU4-PCS-TC-33-050725	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L41	05/07/2025	8270E
Q1984-03	OU4-PCS-TC-34-050725	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L41	05/07/2025	8270E
Q1984-05	OU4-PCS-TC-35-050725	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L41	05/07/2025	8270E
Q1984-07	OU4-TS-24-050725	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L41	05/07/2025	8270E
Q1984-09	OU4-TS-25-050725	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L41	05/07/2025	8270E
Q1984-11	OU4-TS-26-050725	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L41	05/07/2025	8270E
Q1984-13	OU4-TS-27-050725	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L41	05/07/2025	8270E
Q1984-15	OU4-TS-28-050725	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L41	05/07/2025	8270E
Q2010-01	TP-10	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L51	05/08/2025	8270E
Q2010-02	TP-13	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L51	05/08/2025	8270E
Q2010-03	TP-14	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L51	05/08/2025	8270E
Q2010-04	TP-17	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L51	05/08/2025	8270E
Q2014-01	MOO-25-0134	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/12/2025	8270E
Q2014-03	MOO-25-0145	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/12/2025	8270E
Q2014-05	MOO-25-0148	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/12/2025	8270E
Q2017-01	MH-I	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/12/2025	8270E
Q2017-05	MH-J	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/12/2025	8270E

Date/Time 05/13/25 9:00
Raw Sample Received by: RJ (EXT-146b)
Raw Sample Relinquished by: CP gm

Date/Time 05/13/25 9:35
Raw Sample Received by: CP gm
Raw Sample Relinquished by: RJ (EXT-146b)

LAB CHRONICLE

OrderID:	Q1982	OrderDate:	5/7/2025 3:20:42 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
Q1982-01	TP-1	SOIL	SVOC-TCL BNA -20	8270E	05/06/25	05/12/25	05/14/25	05/07/25
Q1982-02	TP-2B	SOIL	SVOC-TCL BNA -20	8270E	05/06/25	05/12/25	05/14/25	05/07/25
Q1982-03	TP-3	SOIL	SVOC-TCL BNA -20	8270E	05/06/25	05/12/25	05/14/25	05/07/25
Q1982-04	TP-4	SOIL	SVOC-TCL BNA -20	8270E	05/07/25	05/12/25	05/16/25	05/07/25
Q1982-05	TP-5	SOIL	SVOC-TCL BNA -20	8270E	05/07/25	05/12/25	05/15/25	05/07/25
Q1982-06	TP-6	SOIL	SVOC-TCL BNA -20	8270E	05/07/25	05/12/25	05/15/25	05/07/25
Q1982-07	TP-8	SOIL	SVOC-TCL BNA -20	8270E	05/07/25	05/12/25	05/15/25	05/07/25
Q1982-08	TP-9	SOIL	SVOC-TCL BNA -20	8270E	05/07/25	05/13/25	05/15/25	05/07/25