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

Hit Summary Sheet
SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								
				0.000				
			Total Svoc :			**0.00**		
			Total Concentration:			**0.00**		

SAMPLE DATA

Raw Data: **BF140084.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-06	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF140084.D	1	10/26/24 12:10	10/28/24 13:51	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	15.5	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	8.40	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	11.3	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.5	U	11.5	100	ug/L
67-72-1	Hexachloroethane	10.1	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	12.7	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	12.7	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	8.90	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.1	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	15.2	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	11.4	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	18.5	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	130		15 (10) - 110 (139)	87%	SPK: 150
13127-88-3	Phenol-d6	120		15 (10) - 110 (134)	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	105		30 (49) - 130 (133)	105%	SPK: 100
321-60-8	2-Fluorobiphenyl	101		30 (52) - 130 (132)	101%	SPK: 100
118-79-6	2,4,6-Tribromophenol	159		15 (44) - 110 (137)	106%	SPK: 150
1718-51-0	Terphenyl-d14	111		30 (48) - 130 (125)	111%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	113000	6.887			
1146-65-2	Naphthalene-d8	439000	8.169			
15067-26-2	Acenaphthene-d10	246000	9.922			
1517-22-2	Phenanthrene-d10	437000	11.41			
1719-03-5	Chrysene-d12	219000	14.045			
1520-96-3	Perylene-d12	258000	15.527			

Raw Data: **BF140084.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-06	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF140084.D	1	10/26/24 12:10	10/28/24 13:51	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Raw Data: **BF140085.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-08	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF140085.D	1	10/26/24 12:10	10/28/24 14:19	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	15.5	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	8.40	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	11.3	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.5	U	11.5	100	ug/L
67-72-1	Hexachloroethane	10.1	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	12.7	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	12.7	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	8.90	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.1	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	15.2	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	11.4	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	18.5	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	121		15 (10) - 110 (139)	81%	SPK: 150
13127-88-3	Phenol-d6	112		15 (10) - 110 (134)	75%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.4		30 (49) - 130 (133)	96%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.8		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	147		15 (44) - 110 (137)	98%	SPK: 150
1718-51-0	Terphenyl-d14	102		30 (48) - 130 (125)	102%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	111000	6.887			
1146-65-2	Naphthalene-d8	442000	8.169			
15067-26-2	Acenaphthene-d10	246000	9.922			
1517-22-2	Phenanthrene-d10	438000	11.41			
1719-03-5	Chrysene-d12	216000	14.045			
1520-96-3	Perylene-d12	231000	15.527			

Raw Data: **BF140085.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1			SDG No.:	P4578
Lab Sample ID:	P4578-08			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
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
BF140085.D	1	10/26/24 12:10	10/28/24 14:19	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Raw Data: **BF140078.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/26/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/26/24
Client Sample ID:	PB164393TB	SDG No.:	P4578
Lab Sample ID:	PB164393TB	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF140078.D	1	10/26/24 12:10	10/28/24 10:58	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	15.5	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	8.40	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	11.3	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.5	U	11.5	100	ug/L
67-72-1	Hexachloroethane	10.1	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	12.7	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	12.7	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	8.90	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	10.1	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	15.2	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	11.4	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	18.5	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	122		15 (10) - 110 (139)	82%	SPK: 150
13127-88-3	Phenol-d6	119		15 (10) - 110 (134)	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.2		30 (49) - 130 (133)	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.9		30 (52) - 130 (132)	88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	137		15 (44) - 110 (137)	91%	SPK: 150
1718-51-0	Terphenyl-d14	88.8		30 (48) - 130 (125)	89%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	128000	6.887			
1146-65-2	Naphthalene-d8	508000	8.169			
15067-26-2	Acenaphthene-d10	289000	9.922			
1517-22-2	Phenanthrene-d10	536000	11.41			
1719-03-5	Chrysene-d12	334000	14.051			
1520-96-3	Perylene-d12	262000	15.527			

Raw Data: **BF140078.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	10/26/24
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	10/26/24
Client Sample ID:	PB164393TB			SDG No.:	P4578
Lab Sample ID:	PB164393TB			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
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
BF140078.D	1	10/26/24 12:10	10/28/24 10:58	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4545-02MS	VNJ-215MS	2-Fluorophenol	150	135	90		15 (10)	110 (139)
		Phenol-d6	150	129	86		15 (10)	110 (134)
		Nitrobenzene-d5	100	103	103		30 (49)	130 (133)
		2-Fluorobiphenyl	100	98.8	99		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	159	106		15 (44)	110 (137)
		Terphenyl-d14	100	105	105		30 (48)	130 (125)
P4545-02MSD	VNJ-215MSD	2-Fluorophenol	150	136	91		15 (10)	110 (139)
		Phenol-d6	150	132	88		15 (10)	110 (134)
		Nitrobenzene-d5	100	105	105		30 (49)	130 (133)
		2-Fluorobiphenyl	100	101	101		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	162	108		15 (44)	110 (137)
		Terphenyl-d14	100	105	105		30 (48)	130 (125)
P4578-06	WB-305-BOT	2-Fluorophenol	150	130	87		15 (10)	110 (139)
		Phenol-d6	150	120	80		15 (10)	110 (134)
		Nitrobenzene-d5	100	105	105		30 (49)	130 (133)
		2-Fluorobiphenyl	100	101	101		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	159	106		15 (44)	110 (137)
		Terphenyl-d14	100	111	111		30 (48)	130 (125)
P4578-08	WB-305-BOT-1	2-Fluorophenol	150	121	81		15 (10)	110 (139)
		Phenol-d6	150	112	75		15 (10)	110 (134)
		Nitrobenzene-d5	100	96.4	96		30 (49)	130 (133)
		2-Fluorobiphenyl	100	93.8	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	147	98		15 (44)	110 (137)
		Terphenyl-d14	100	102	102		30 (48)	130 (125)
PB164393TB	PB164393TB	2-Fluorophenol	150	122	82		15 (10)	110 (139)
		Phenol-d6	150	119	79		15 (10)	110 (134)
		Nitrobenzene-d5	100	92.2	92		30 (49)	130 (133)
		2-Fluorobiphenyl	100	87.9	88		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	137	91		15 (44)	110 (137)
		Terphenyl-d14	100	88.8	89		30 (48)	130 (125)
PB164444BL	PB164444BL	2-Fluorophenol	150	120	80		15 (10)	110 (139)
		Phenol-d6	150	114	76		15 (10)	110 (134)
		Nitrobenzene-d5	100	90.9	91		30 (49)	130 (133)
		2-Fluorobiphenyl	100	87.1	87		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	133	89		15 (44)	110 (137)
		Terphenyl-d14	100	89.1	89		30 (48)	130 (125)
PB164444BS	PB164444BS	2-Fluorophenol	150	120	80		15 (10)	110 (139)
		Phenol-d6	150	118	79		15 (10)	110 (134)
		Nitrobenzene-d5	100	92.6	93		30 (49)	130 (133)
		2-Fluorobiphenyl	100	87.2	87		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	141	94		15 (44)	110 (137)
		Terphenyl-d14	100	95.7	96		30 (48)	130 (125)

( ) = LABORATORY INHOUSE LIMIT

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P4545-02MS		**Client Sample ID: VNJ-215MS**						**DataFile: BF140092.D**			
Pyridine	500	0	230	ug/L	46				20 (10)	160 (109)	
1,4-Dichlorobenzene	500	0	430	ug/L	86				70 (55)	130 (125)	
2-Methylphenol	500	0	490	ug/L	98				70 (37)	130 (126)	
3+4-Methylphenols	500	0	480	ug/L	96				20 (31)	160 (127)	
Hexachloroethane	500	0	420	ug/L	84				20 (49)	160 (110)	
Nitrobenzene	500	0	470	ug/L	94				70 (62)	130 (112)	
Hexachlorobutadiene	500	0	460	ug/L	92				70 (52)	130 (125)	
2,4,6-Trichlorophenol	500	0	550	ug/L	110				70 (78)	130 (112)	
2,4,5-Trichlorophenol	500	0	540	ug/L	108				70 (71)	130 (111)	
2,4-Dinitrotoluene	500	0	600	ug/L	120				70 (50)	130 (142)	
Hexachlorobenzene	500	0	540	ug/L	108				70 (72)	130 (115)	
Pentachlorophenol	1000	0	780	ug/L	78				20 (25)	160 (139)	

( ) = LABORATORY INHOUSE LIMIT

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID: P4545-02MSD		**Client Sample ID: VNJ-215MSD**						**DataFile: BF140093.D**			
Pyridine	500	0	250	ug/L	50		8		20 (10)	160 (109)	20 (20)
1,4-Dichlorobenzene	500	0	440	ug/L	88		2		70 (55)	130 (125)	20 (20)
2-Methylphenol	500	0	500	ug/L	100		2		70 (37)	130 (126)	20 (20)
3+4-Methylphenols	500	0	500	ug/L	100		4		20 (31)	160 (127)	20 (20)
Hexachloroethane	500	0	430	ug/L	86		2		20 (49)	160 (110)	20 (20)
Nitrobenzene	500	0	470	ug/L	94		0		70 (62)	130 (112)	20 (20)
Hexachlorobutadiene	500	0	460	ug/L	92		0		70 (52)	130 (125)	20 (20)
2,4,6-Trichlorophenol	500	0	560	ug/L	112		2		70 (78)	130 (112)	20 (20)
2,4,5-Trichlorophenol	500	0	540	ug/L	108		0		70 (71)	130 (111)	20 (20)
2,4-Dinitrotoluene	500	0	610	ug/L	122		2		70 (50)	130 (142)	20 (20)
Hexachlorobenzene	500	0	560	ug/L	112		4		70 (72)	130 (115)	20 (20)
Pentachlorophenol	1000	0	850	ug/L	85		9		20 (25)	160 (139)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140077.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164444BS	Pyridine	50	38.6	ug/L	77				20 (29)	160 (97)	
	1,4-Dichlorobenzene	50	43.7	ug/L	87				70 (76)	130 (103)	
	2-Methylphenol	50	44.4	ug/L	89				70 (69)	130 (109)	
	3+4-Methylphenols	50	43.0	ug/L	86				20 (67)	160 (106)	
	Hexachloroethane	50	44.2	ug/L	88				20 (76)	160 (118)	
	Nitrobenzene	50	43.5	ug/L	87				70 (58)	130 (106)	
	Hexachlorobutadiene	50	44.9	ug/L	90				70 (69)	130 (101)	
	2,4,6-Trichlorophenol	50	45.9	ug/L	92				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	44.6	ug/L	89				70 (70)	130 (106)	
	2,4-Dinitrotoluene	50	52.4	ug/L	105				70 (60)	130 (115)	
	Hexachlorobenzene	50	45.0	ug/L	90				70 (73)	130 (106)	
	Pentachlorophenol	100	89.7	ug/L	90				20 (47)	160 (114)	

( ) = LABORATORY INHOUSE LIMIT

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164444BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: BF140076.D Lab Sample ID: PB164444BL

Instrument ID: BNA_F Date Extracted: 10/26/2024

Matrix: (soil/water) water Date Analyzed: 10/28/2024

Level: (low/med) LOW Time Analyzed: 10:01

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164393TB	PB164393TB	BF140078.D	10/28/2024
WB-305-BOT	P4578-06	BF140084.D	10/28/2024
WB-305-BOT-1	P4578-08	BF140085.D	10/28/2024
PB164444BS	PB164444BS	BF140077.D	10/28/2024
VNJ-215MS	P4545-02MS	BF140092.D	10/28/2024
VNJ-215MSD	P4545-02MSD	BF140093.D	10/28/2024

COMMENTS:

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4578 SDG NO.: P4578

Lab File ID: BF139843.D DFTPP Injection Date: 10/18/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:22

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	43.8
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	46.9
197	Less than 2.0% of mass 198	0.8
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	26.9
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.9 (19.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF139844.D	10/18/2024	10:27
SSTDICC005	SSTDICC005	BF139845.D	10/18/2024	10:55
SSTDICC010	SSTDICC010	BF139846.D	10/18/2024	11:23
SSTDICC020	SSTDICC020	BF139847.D	10/18/2024	11:52
SSTDICCC040	SSTDICCC040	BF139848.D	10/18/2024	12:20
SSTDICC050	SSTDICC050	BF139849.D	10/18/2024	12:49
SSTDICC060	SSTDICC060	BF139850.D	10/18/2024	13:17
SSTDICC080	SSTDICC080	BF139851.D	10/18/2024	13:46

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4578 SDG NO.: P4578

Lab File ID: BF140074.D DFTPP Injection Date: 10/28/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.1
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	37.2
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	46.3
197	Less than 2.0% of mass 198	0.8
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.8 (18.8) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140075.D	10/28/2024	09:32
PB164444BL	PB164444BL	BF140076.D	10/28/2024	10:01
PB164444BS	PB164444BS	BF140077.D	10/28/2024	10:29
PB164393TB	PB164393TB	BF140078.D	10/28/2024	10:58
WB-305-BOT	P4578-06	BF140084.D	10/28/2024	13:51
WB-305-BOT-1	P4578-08	BF140085.D	10/28/2024	14:19
VNJ-215MS	P4545-02MS	BF140092.D	10/28/2024	17:35
VNJ-215MSD	P4545-02MSD	BF140093.D	10/28/2024	18:03

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/28/2024

Lab File ID: BF140075.D Time Analyzed: 09:32

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	132517	6.892	497360	8.18	274065	9.93
	UPPER LIMIT	265034	7.392	994720	8.675	548130	10.427
	LOWER LIMIT	66258.5	6.392	248680	7.675	137033	9.427
	EPA SAMPLE NO.						
01	PB164444BL	132330	6.89	518019	8.17	298114	9.92
02	PB164444BS	127868	6.89	495282	8.18	281323	9.93
03	PB164393TB	128211	6.89	508163	8.17	288600	9.92
04	VNJ-215MS	113612	6.89	441889	8.17	241647	9.93
05	VNJ-215MSD	111820	6.89	432287	8.17	236921	9.93
06	WB-305-BOT	112580	6.89	438516	8.17	246067	9.92
07	WB-305-BOT-1	111257	6.89	441878	8.17	245603	9.92

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

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

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

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/28/2024

Lab File ID: BF140075.D Time Analyzed: 09:32

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	494703	11.416	250901	14.051	263501	15.527
	UPPER LIMIT	989406	11.916	501802	14.551	527002	16.027
	LOWER LIMIT	247352	10.916	125451	13.551	131751	15.027
	EPA SAMPLE NO.						
01	PB164444BL	550598	11.41	341644	14.05	261224	15.53
02	PB164444BS	511374	11.42	262593	14.05	265684	15.53
03	PB164393TB	536321	11.41	334195	14.05	261975	15.53
04	VNJ-215MS	409717	11.41	203129	14.05	263019	15.53
05	VNJ-215MSD	398949	11.41	204155	14.05	256308	15.53
06	WB-305-BOT	437262	11.41	219498	14.05	258448	15.53
07	WB-305-BOT-1	437798	11.41	215751	14.05	230540	15.53

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

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

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

QC SAMPLE DATA

Raw Data: **BF140076.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164444BL	SDG No.:	P4578
Lab Sample ID:	PB164444BL	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140076.D	1	10/26/24 12:10	10/28/24 10:01	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	1.60	U	1.60	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.84	U	0.84	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.0	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.00	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.50	U	1.50	5.00	ug/L
118-74-1	Hexachlorobenzene	1.10	U	1.10	5.00	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	120		15 (10) - 110 (139)	80%	SPK: 150
13127-88-3	Phenol-d6	114		15 (10) - 110 (134)	76%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.9		30 (49) - 130 (133)	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.1		30 (52) - 130 (132)	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	133		15 (44) - 110 (137)	89%	SPK: 150
1718-51-0	Terphenyl-d14	89.1		30 (48) - 130 (125)	89%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	132000	6.886			
1146-65-2	Naphthalene-d8	518000	8.169			
15067-26-2	Acenaphthene-d10	298000	9.922			
1517-22-2	Phenanthrene-d10	551000	11.41			
1719-03-5	Chrysene-d12	342000	14.045			
1520-96-3	Perylene-d12	261000	15.527			

Raw Data: **BF140076.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	PB164444BL			SDG No.:	P4578
Lab Sample ID:	PB164444BL			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140076.D	1	10/26/24 12:10	10/28/24 10:01	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Raw Data: **BF140077.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164444BS	SDG No.:	P4578
Lab Sample ID:	PB164444BS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140077.D	1	10/26/24 12:10	10/28/24 10:29	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	38.6		1.60	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	43.7		0.84	5.00	ug/L
95-48-7	2-Methylphenol	44.4		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	43.0		1.20	10.0	ug/L
67-72-1	Hexachloroethane	44.2		1.00	5.00	ug/L
98-95-3	Nitrobenzene	43.5		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	44.9		1.30	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	45.9		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	44.6		1.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	52.4		1.50	5.00	ug/L
118-74-1	Hexachlorobenzene	45.0		1.10	5.00	ug/L
87-86-5	Pentachlorophenol	89.7	E	1.90	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	120		15 (10) - 110 (139)	80%	SPK: 150
13127-88-3	Phenol-d6	118		15 (10) - 110 (134)	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.6		30 (49) - 130 (133)	93%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.2		30 (52) - 130 (132)	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	141		15 (44) - 110 (137)	94%	SPK: 150
1718-51-0	Terphenyl-d14	95.7		30 (48) - 130 (125)	96%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	128000	6.887			
1146-65-2	Naphthalene-d8	495000	8.175			
15067-26-2	Acenaphthene-d10	281000	9.928			
1517-22-2	Phenanthrene-d10	511000	11.416			
1719-03-5	Chrysene-d12	263000	14.051			
1520-96-3	Perylene-d12	266000	15.527			

Raw Data: **BF140077.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	PB164444BS			SDG No.:	P4578
Lab Sample ID:	PB164444BS			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140077.D	1	10/26/24 12:10	10/28/24 10:29	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Raw Data: **BF140092.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/24/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/24/24
Client Sample ID:	VNJ-215MS	SDG No.:	P4578
Lab Sample ID:	P4545-02MS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140092.D	1	10/26/24 12:10	10/28/24 17:35	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	230		15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	430		8.40	50.0	ug/L
95-48-7	2-Methylphenol	490		11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	480		11.5	100	ug/L
67-72-1	Hexachloroethane	420		10.1	50.0	ug/L
98-95-3	Nitrobenzene	470		12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	460		12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	550		8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	540		10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	600		15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	540		11.4	50.0	ug/L
87-86-5	Pentachlorophenol	780		18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	135		15 (10) - 110 (139)	90%	SPK: 150
13127-88-3	Phenol-d6	129		15 (10) - 110 (134)	86%	SPK: 150
4165-60-0	Nitrobenzene-d5	103		30 (49) - 130 (133)	103%	SPK: 100
321-60-8	2-Fluorobiphenyl	98.8		30 (52) - 130 (132)	99%	SPK: 100
118-79-6	2,4,6-Tribromophenol	159		15 (44) - 110 (137)	106%	SPK: 150
1718-51-0	Terphenyl-d14	105		30 (48) - 130 (125)	105%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	114000	6.892			
1146-65-2	Naphthalene-d8	442000	8.169			
15067-26-2	Acenaphthene-d10	242000	9.928			
1517-22-2	Phenanthrene-d10	410000	11.41			
1719-03-5	Chrysene-d12	203000	14.051			
1520-96-3	Perylene-d12	263000	15.527			

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

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	10/24/24	
Project:	Amtrak Sawtooth Bridges 2024		Date Received:	10/24/24	
Client Sample ID:	VNJ-215MS		SDG No.:	P4578	
Lab Sample ID:	P4545-02MS		Matrix:	TCLP	
Analytical Method:	SW8270		% Solid:	0	
Sample Wt/Vol:	100 Units:	mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	TCLP BNA	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140092.D	1	10/26/24 12:10	10/28/24 17:35	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Raw Data: **BF140093.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/24/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/24/24
Client Sample ID:	VNJ-215MSD	SDG No.:	P4578
Lab Sample ID:	P4545-02MSD	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140093.D	1	10/26/24 12:10	10/28/24 18:03	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	250		15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	440		8.40	50.0	ug/L
95-48-7	2-Methylphenol	500		11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	500		11.5	100	ug/L
67-72-1	Hexachloroethane	430		10.1	50.0	ug/L
98-95-3	Nitrobenzene	470		12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	460		12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	560		8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	540		10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	610		15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	560		11.4	50.0	ug/L
87-86-5	Pentachlorophenol	850	E	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	136		15 (10) - 110 (139)	91%	SPK: 150
13127-88-3	Phenol-d6	132		15 (10) - 110 (134)	88%	SPK: 150
4165-60-0	Nitrobenzene-d5	105		30 (49) - 130 (133)	105%	SPK: 100
321-60-8	2-Fluorobiphenyl	101		30 (52) - 130 (132)	101%	SPK: 100
118-79-6	2,4,6-Tribromophenol	162		15 (44) - 110 (137)	108%	SPK: 150
1718-51-0	Terphenyl-d14	105		30 (48) - 130 (125)	105%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	112000	6.886			
1146-65-2	Naphthalene-d8	432000	8.169			
15067-26-2	Acenaphthene-d10	237000	9.927			
1517-22-2	Phenanthrene-d10	399000	11.41			
1719-03-5	Chrysene-d12	204000	14.051			
1520-96-3	Perylene-d12	256000	15.527			

Raw Data: **BF140093.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/24/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/24/24
Client Sample ID:	VNJ-215MSD	SDG No.:	P4578
Lab Sample ID:	P4545-02MSD	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140093.D	1	10/26/24 12:10	10/28/24 18:03	PB164444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF139844.D 5 =BF139845.D 10 =BF139846.D 20 =BF139847.D 40 =BF139848.D 50 =BF139849.D 60 =BF139850.D 80 =BF1398
51.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.651	0.625	0.603	0.591	0.571	0.581	0.548	0.596	5.74
3)		Pyridine		1.622	1.570	1.522	1.504	1.386	1.406	1.326	1.476	7.26
4)		n-Nitrosodimet...		0.815	0.800	0.799	0.806	0.782	0.794	0.757	0.793	2.39
5)	S	2-Fluorophenol		1.465	1.398	1.331	1.278	1.179	1.186	1.106	1.278	10.10
6)		Aniline		1.673	1.649	1.618	1.582	1.471	1.479	1.324	1.542	8.05
7)	S	Phenol-d6		1.900	1.818	1.709	1.647	1.538	1.539	1.432	1.655	10.06
8)		2-Chlorophenol		1.503	1.422	1.358	1.310	1.212	1.221	1.116	1.306	10.24
9)		Benzaldehyde			1.137	1.042	0.940	0.873	0.853	0.740	0.931	15.22
10)	C	Phenol		1.952	1.832	1.760	1.712	1.583	1.601	1.502	1.706	9.19
11)		bis(2-Chloroet...		1.470	1.423	1.359	1.294	1.251	1.249	1.183	1.319	7.82
12)		1,3-Dichlorobe...		1.718	1.656	1.544	1.499	1.392	1.391	1.294	1.499	10.19
13)	C	1,4-Dichlorobe...		1.723	1.641	1.558	1.487	1.392	1.391	1.291	1.498	10.19
14)		1,2-Dichlorobe...		1.660	1.579	1.478	1.379	1.273	1.267	1.149	1.398	13.15
15)		Benzyl Alcohol		1.355	1.299	1.257	1.213	1.154	1.146	1.071	1.214	8.07
16)		2,2'-oxybis(1-...		2.524	2.409	2.353	2.255	2.117	2.115	1.964	2.248	8.69
17)		2-Methylphenol		1.264	1.164	1.134	1.114	1.053	1.063	1.004	1.114	7.69
18)		Hexachloroethane		0.583	0.571	0.549	0.541	0.507	0.511	0.477	0.534	7.06
19)	P	n-Nitroso-di-n...	1.105	1.141	1.066	1.025	0.974	0.921	0.927	0.869	1.004	9.63
20)		3+4-Methylphenols		1.678	1.573	1.520	1.418	1.309	1.300	1.173	1.424	12.41
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.578	0.533	0.516	0.481	0.452	0.454	0.414	0.490	11.43
23)	S	Nitrobenzene-d5		0.365	0.365	0.372	0.371	0.354	0.357	0.342	0.361	2.92
24)		Nitrobenzene		0.417	0.402	0.408	0.403	0.383	0.388	0.370	0.396	4.10
25)		Isophorone		0.755	0.709	0.702	0.679	0.652	0.660	0.637	0.685	5.90
26)	C	2-Nitrophenol		0.124	0.137	0.150	0.157	0.158	0.161	0.157	0.149	9.22
27)		2,4-Dimethylph...		0.285	0.259	0.256	0.248	0.237	0.234	0.223	0.249	8.07
28)		bis(2-Chloroet...		0.468	0.440	0.432	0.412	0.394	0.390	0.369	0.415	8.22
29)	C	2,4-Dichloroph...		0.308	0.297	0.293	0.283	0.272	0.274	0.257	0.283	6.17
30)		1,2,4-Trichlor...		0.351	0.331	0.325	0.315	0.298	0.298	0.279	0.314	7.68
31)		Naphthalene		1.209	1.121	1.091	1.023	0.958	0.944	0.875	1.031	11.23
32)		Benzoic acid			0.175	0.207	0.220	0.231	0.235	0.235	0.217	10.69
33)		4-Chloroaniline		0.397	0.382	0.368	0.351	0.332	0.326	0.306	0.352	9.26
34)	C	Hexachlorobuta...		0.224	0.206	0.203	0.197	0.185	0.187	0.177	0.197	7.96
35)		Caprolactam		0.092	0.092	0.092	0.092	0.088	0.088	0.086	0.090	2.85
36)	C	4-Chloro-3-met...		0.341	0.328	0.324	0.315	0.299	0.303	0.287	0.314	6.03
37)		2-Methylnaphth...		0.740	0.689	0.666	0.621	0.587	0.583	0.537	0.632	11.11
38)		1-Methylnaphth...		0.726	0.683	0.655	0.612	0.569	0.567	0.526	0.620	11.55

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.609	0.579	0.562	0.537	0.512	0.506	0.472	0.540	8.72
41)	P	Hexachlorocycl...	0.185	0.193	0.198	0.198	0.186	0.185	0.169	0.188	5.28
42)	S	2,4,6-Tribromo...	0.201	0.196	0.193	0.188	0.179	0.180	0.173	0.187	5.47
43)	C	2,4,6-Trichlor...	0.405	0.382	0.400	0.387	0.363	0.383	0.354	0.382	4.80
44)		2,4,5-Trichlor...	0.426	0.425	0.398	0.401	0.381	0.369	0.359	0.394	6.58
45)	S	2-Fluorobiphenyl	1.512	1.396	1.280	1.162	1.088	1.060	0.973	1.210	16.05
46)		1,1'-Biphenyl	1.640	1.536	1.483	1.379	1.285	1.262	1.161	1.392	12.18
47)		2-Chloronaphth...	1.288	1.225	1.164	1.111	1.048	1.040	0.973	1.121	9.95
48)		2-Nitroaniline	0.299	0.318	0.353	0.365	0.354	0.362	0.349	0.343	7.20
49)		Acenaphthylene	1.854	1.756	1.717	1.615	1.507	1.505	1.394	1.621	10.06
50)		Dimethylphthalate	1.410	1.344	1.283	1.237	1.172	1.163	1.110	1.246	8.60
51)		2,6-Dinitrotol...	0.256	0.266	0.278	0.280	0.273	0.274	0.260	0.270	3.41
52)	C	Acenaphthene	1.200	1.136	1.089	1.044	0.977	0.983	0.913	1.049	9.55
53)		3-Nitroaniline	0.270	0.275	0.296	0.292	0.276	0.282	0.256	0.278	4.84
54)	P	2,4-Dinitrophenol		0.056	0.077	0.101	0.101	0.113	0.112	0.093	23.89
55)		Dibenzofuran	1.767	1.659	1.579	1.486	1.389	1.375	1.278	1.505	11.52
56)	P	4-Nitrophenol	0.187	0.207	0.225	0.232	0.219	0.220	0.208	0.214	6.84
57)		2,4-Dinitrotol...	0.280	0.314	0.337	0.356	0.344	0.351	0.338	0.332	7.94
58)		Fluorene	1.409	1.309	1.201	1.110	1.029	1.021	0.944	1.146	14.68
59)		2,3,4,6-Tetrac...	0.334	0.322	0.326	0.310	0.296	0.293	0.281	0.309	6.33
60)		Diethylphthalate	1.366	1.308	1.267	1.214	1.165	1.161	1.080	1.223	7.99
61)		4-Chlorophenyl...	0.698	0.638	0.617	0.569	0.526	0.520	0.484	0.579	13.14
62)		4-Nitroaniline	0.249	0.259	0.270	0.275	0.263	0.269	0.254	0.263	3.65
63)		Azobenzene	1.459	1.385	1.355	1.306	1.216	1.212	1.143	1.297	8.62
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.055	0.072	0.087	0.090	0.092	0.093	0.082	18.60
66)	c	n-Nitrosodiphe...	0.672	0.641	0.621	0.595	0.568	0.561	0.533	0.599	8.14
67)		4-Bromophenyl-...	0.230	0.217	0.211	0.202	0.197	0.196	0.189	0.206	6.98
68)		Hexachlorobenzene	0.258	0.245	0.237	0.231	0.217	0.221	0.212	0.232	7.20
69)		Atrazine	0.189	0.175	0.156	0.175	0.135	0.153	0.151	0.162	11.36
70)	C	Pentachlorophenol	0.118	0.137	0.148	0.152	0.145	0.144	0.140	0.141	8.04
71)		Phenanthrene	1.121	1.035	0.994	0.933	0.863	0.860	0.807	0.945	11.79
72)		Anthracene	1.082	1.014	0.972	0.913	0.851	0.833	0.787	0.922	11.53
73)		Carbazole	1.002	0.964	0.923	0.846	0.776	0.772	0.717	0.857	12.64
74)		Di-n-butylphth...	1.104	1.071	1.062	1.014	0.923	0.909	0.850	0.990	9.77
75)	C	Fluoranthene	1.149	1.108	1.036	0.943	0.842	0.835	0.772	0.955	15.34
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.457	0.461	0.293	0.366	0.276	0.203	0.246	0.329	30.86
78)		Pyrene	1.892	1.828	1.900	1.805	1.685	1.649	1.496	1.751	8.43
79)	S	Terphenyl-d14	1.381	1.335	1.340	1.244	1.154	1.121	1.018	1.227	10.96
80)		Butylbenzylpht...	0.490	0.513	0.536	0.555	0.535	0.531	0.514	0.525	3.99
81)		Benzo(a)anthra...	1.425	1.355	1.329	1.331	1.267	1.237	1.169	1.302	6.48
82)		3,3'-Dichlorob...	0.368	0.372	0.390	0.387	0.374	0.382	0.384	0.380	2.15
83)		Chrysene	1.325	1.244	1.234	1.167	1.134	1.151	1.101	1.194	6.52
84)		Bis(2-ethylhex...	0.520	0.539	0.577	0.626	0.620	0.626	0.614	0.589	7.48
85)	c	Di-n-octyl pht...		0.786	0.930	1.135	1.182	1.207	1.186	1.071	16.14

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.209	1.261	1.307	1.352	1.299	1.326	1.253	1.287	3.77
88)		Benzo(b)fluora...	1.317	1.240	1.319	1.196	1.105	1.239	1.111	1.218	7.15
89)		Benzo(k)fluora...	1.213	1.177	0.992	1.066	1.030	0.929	0.947	1.051	10.42
90)	C	Benzo(a)pyrene	1.030	1.024	1.018	1.025	0.974	0.999	0.947	1.002	3.12
91)		Dibenzo(a,h)an...	1.021	1.064	1.103	1.120	1.083	1.085	1.036	1.073	3.31
92)		Benzo(g,h,i)pe...	1.030	1.046	1.090	1.128	1.081	1.095	1.035	1.072	3.37

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/28/2024 09:32

Lab File ID: BF140075.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.476	1.412		-4.3	
2-Fluorophenol	1.278	1.198		-6.3	
Phenol-d6	1.655	1.537		-7.1	
1,4-Dichlorobenzene	1.498	1.486		-0.8	20.0
2-Methylphenol	1.114	1.050		-5.7	
3+4-Methylphenols	1.424	1.320		-7.3	
Nitrobenzene-d5	0.361	0.377		4.4	
Hexachloroethane	0.534	0.526		-1.5	
Nitrobenzene	0.396	0.397		0.3	
Hexachlorobutadiene	0.197	0.200		1.5	20.0
2,4,6-Trichlorophenol	0.382	0.375		-1.8	20.0
2-Fluorobiphenyl	1.210	1.195		-1.2	
2,4,5-Trichlorophenol	0.394	0.392		-0.5	
2,4-Dinitrotoluene	0.332	0.382		15.1	
2,4,6-Tribromophenol	0.187	0.197		5.3	
Hexachlorobenzene	0.232	0.233		0.4	
Pentachlorophenol	0.141	0.144		2.1	20.0
Terphenyl-d14	1.227	1.250		1.9	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140084.D
Acq On : 28 Oct 2024 13:51
Operator : RC/JU
Sample : P4578-06
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Quant Time: Oct 28 14:22:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

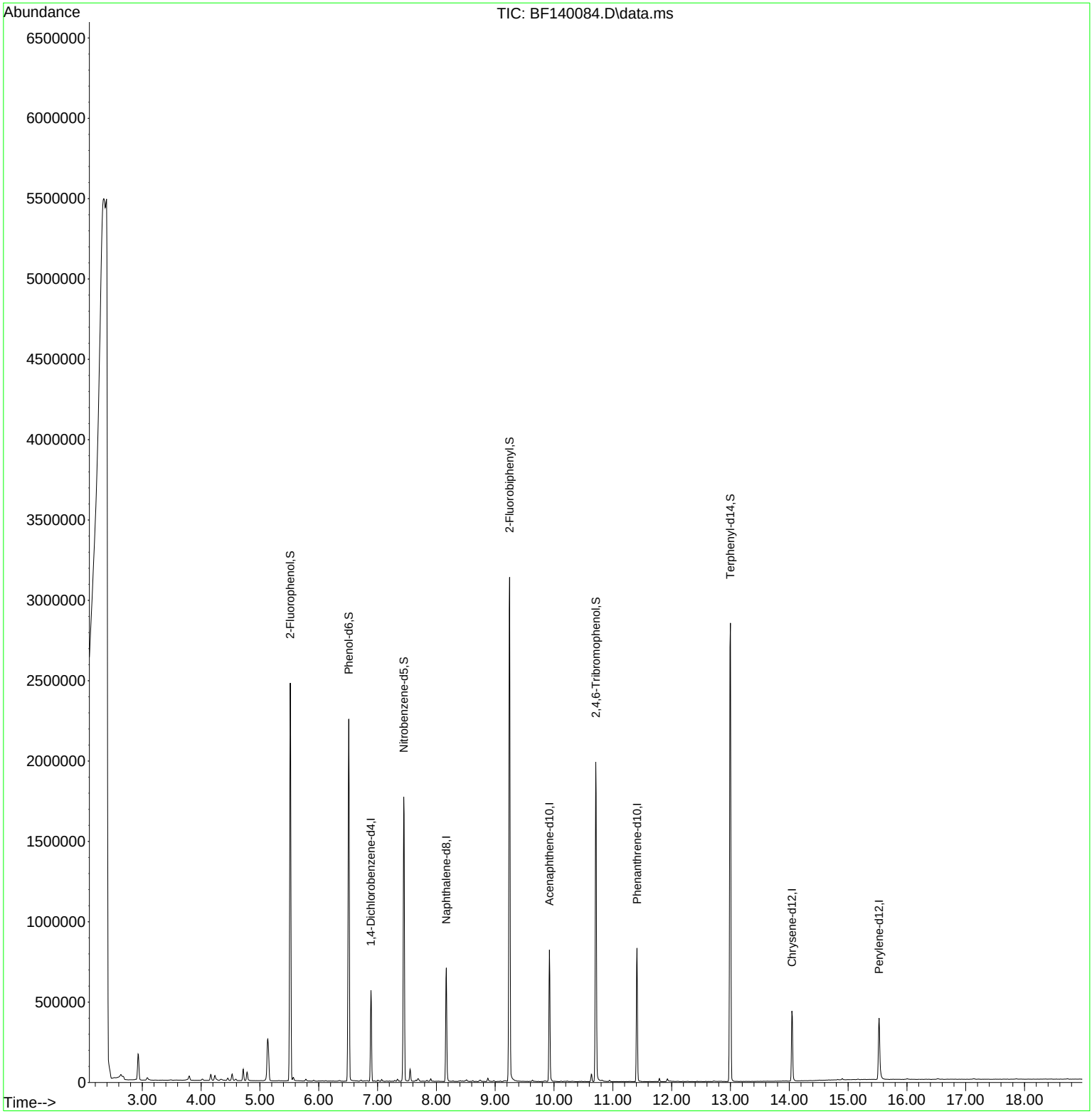
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	112580	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	438516	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	246067	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	437262	20.000	ng	0.00
76) Chrysene-d12	14.045	240	219498	20.000	ng	0.00
86) Perylene-d12	15.527	264	258448	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	938458	130.498	ng	0.02
7) Phenol-d6	6.510	99	1115782	119.796	ng	0.00
23) Nitrobenzene-d5	7.445	82	834614	105.486	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	367109	159.499	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1500601	100.787	ng	0.00
79) Terphenyl-d14	12.998	244	1489277	110.559	ng	0.00
Target Compounds						Qvalue

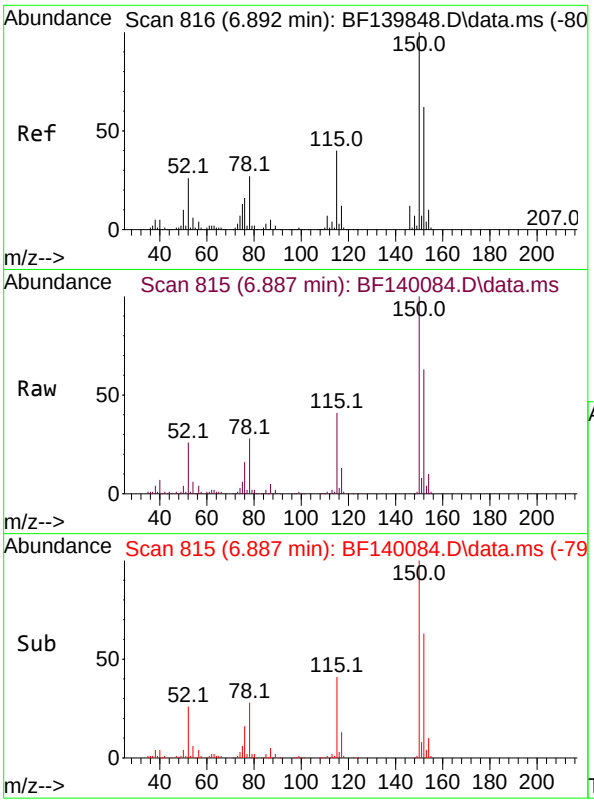
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140084.D
Acq On : 28 Oct 2024 13:51
Operator : RC/JU
Sample : P4578-06
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Quant Time: Oct 28 14:22:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



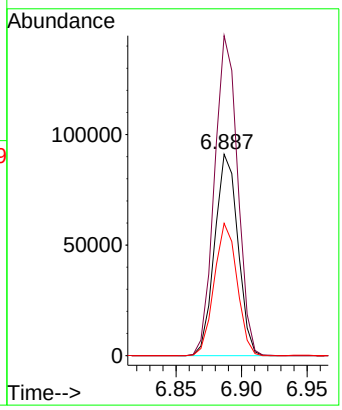


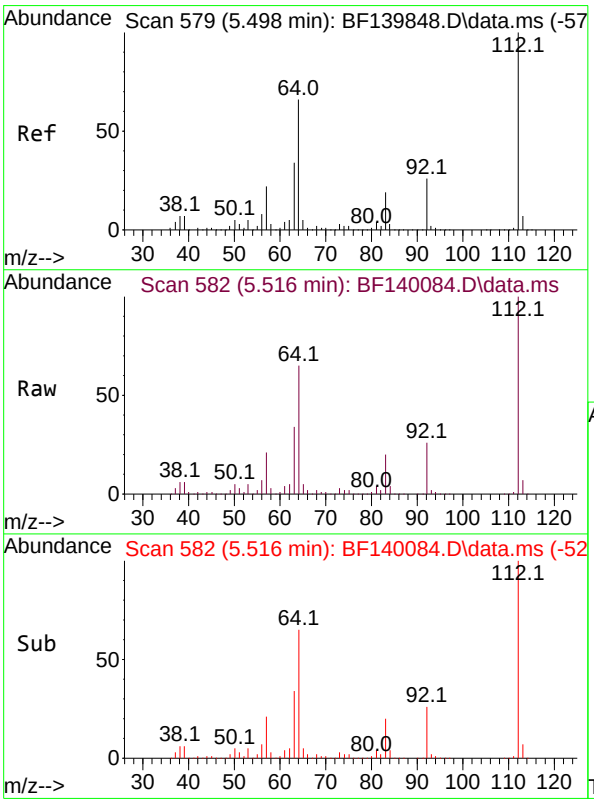
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 81
Delta R.T. -0.005 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion:152 Resp: 112580

Ion	Ratio	Lower	Upper
152	100		
150	159.0	130.2	195.2
115	65.7	51.4	77.2

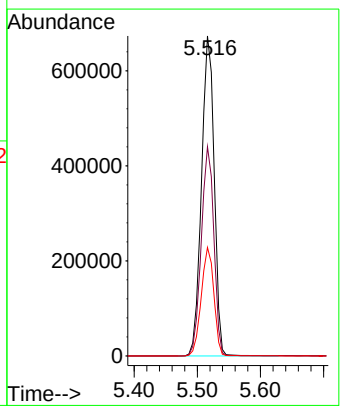


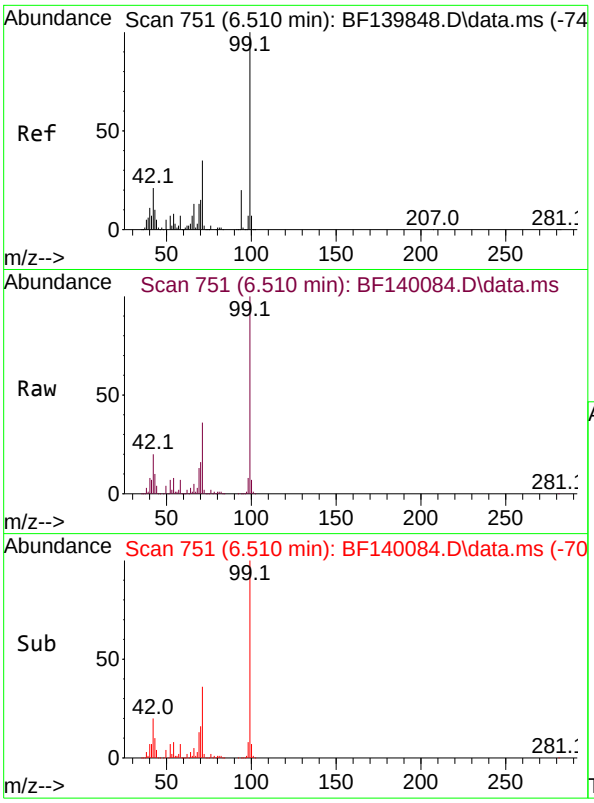


#5
2-Fluorophenol
Concen: 130.498 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Tgt Ion:112 Resp: 938458

Ion	Ratio	Lower	Upper
112	100		
64	65.4	53.0	79.6
63	33.9	27.0	40.4



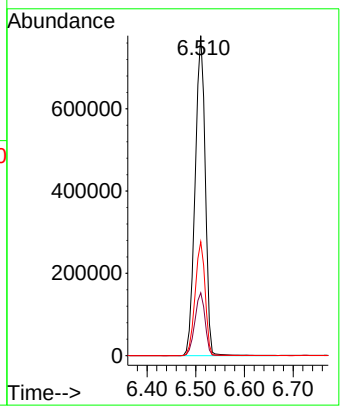


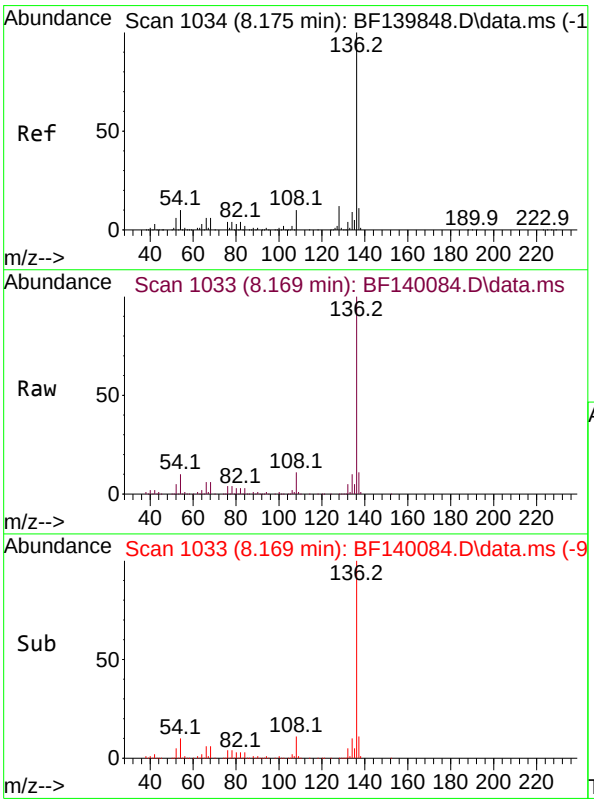
#7
Phenol-d6
Concen: 119.796 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion: 99 Resp: 1115782

Ion	Ratio	Lower	Upper
99	100		
42	19.6	16.7	25.1
71	35.6	27.7	41.5

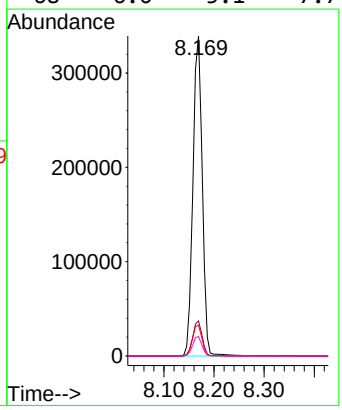


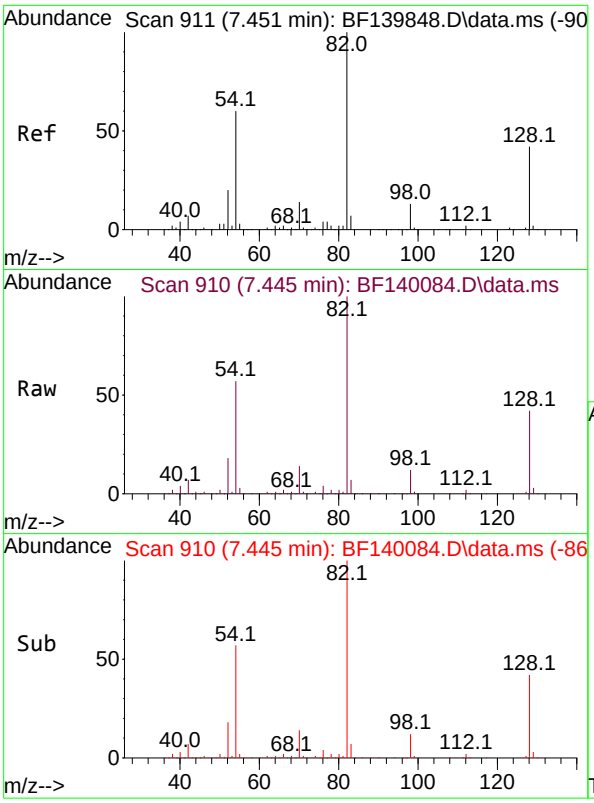


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Tgt Ion:136 Resp: 438516

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	9.6	8.4	12.6
68	6.0	5.1	7.7



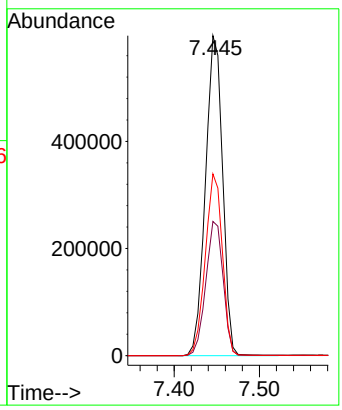


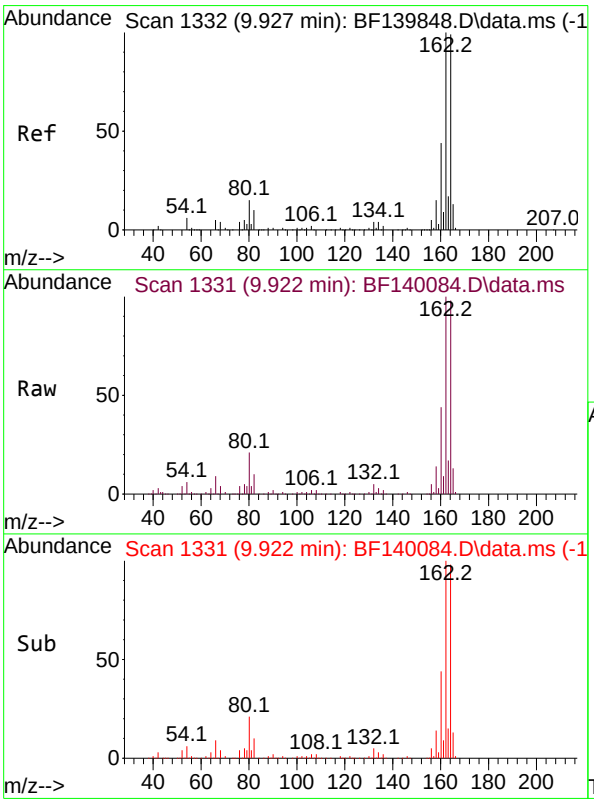
#23
Nitrobenzene-d5
Concen: 105.486 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion: 82 Resp: 834614

Ion	Ratio	Lower	Upper
82	100		
128	41.9	33.4	50.0
54	56.8	47.8	71.8

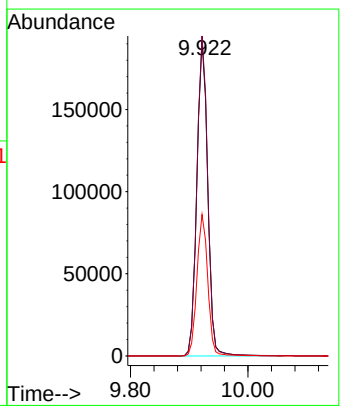


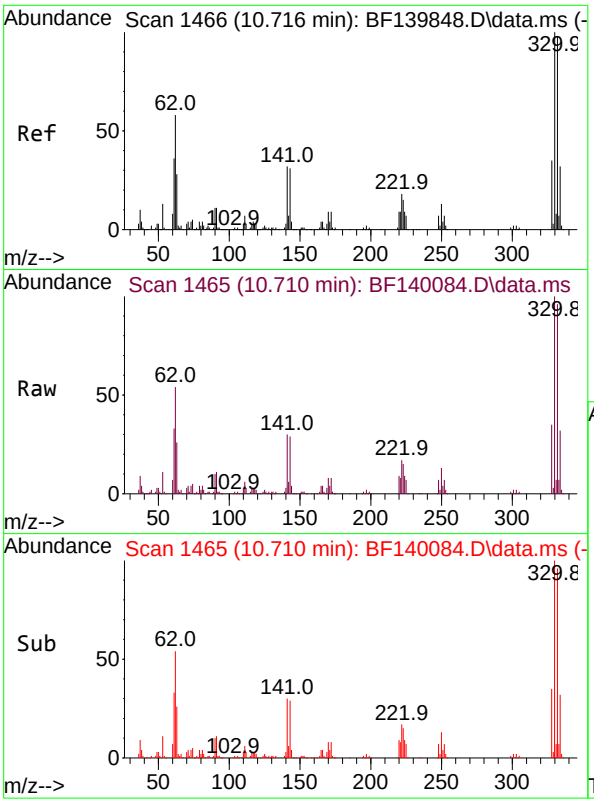


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Tgt Ion:164 Resp: 246067

Ion	Ratio	Lower	Upper
164	100		
162	101.7	81.0	121.4
160	44.9	35.4	53.0



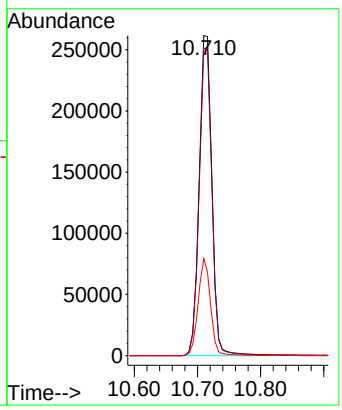


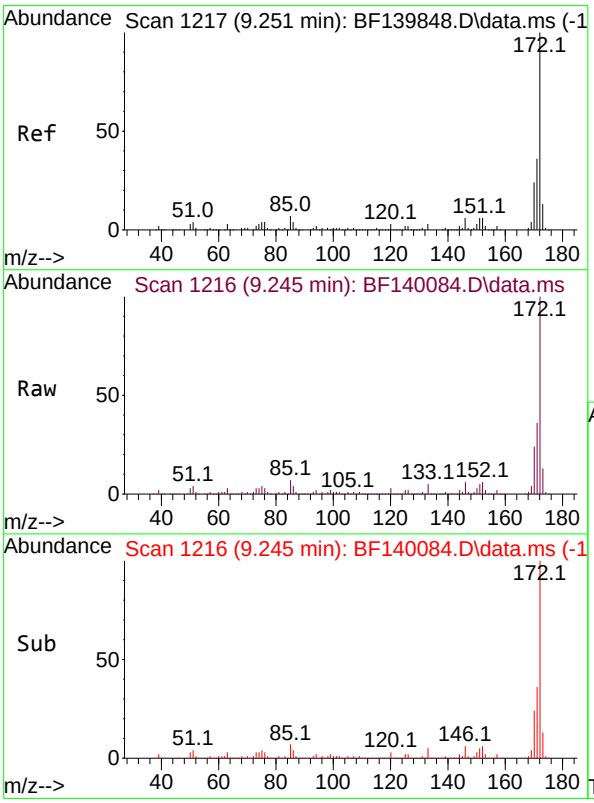
#42
2,4,6-Tribromophenol
Concen: 159.499 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion:330 Resp: 367109

Ion	Ratio	Lower	Upper
330	100		
332	96.4	78.1	117.1
141	29.4	26.6	39.8

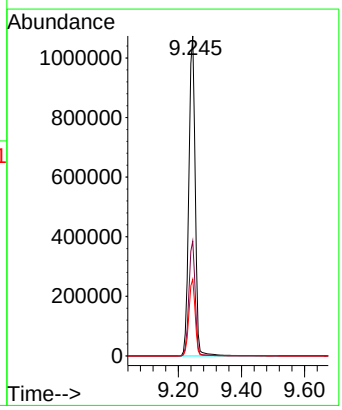


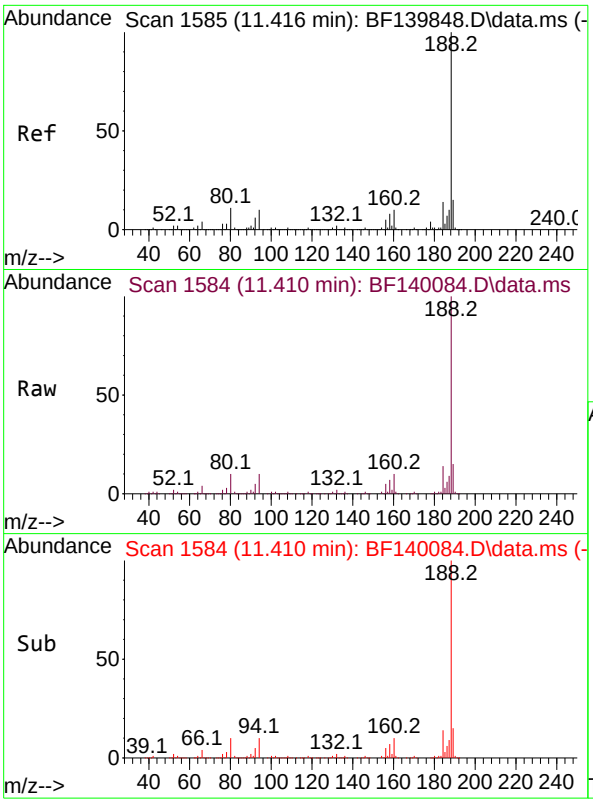


#45
2-Fluorobiphenyl
Concen: 100.787 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Tgt Ion:172 Resp: 1500601

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	43.0
170	23.9	19.1	28.7



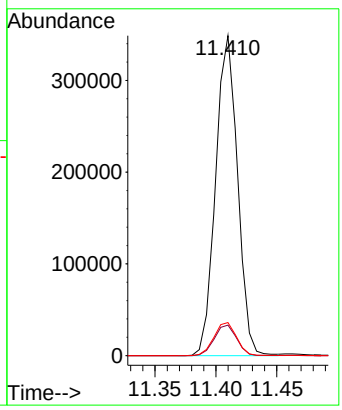


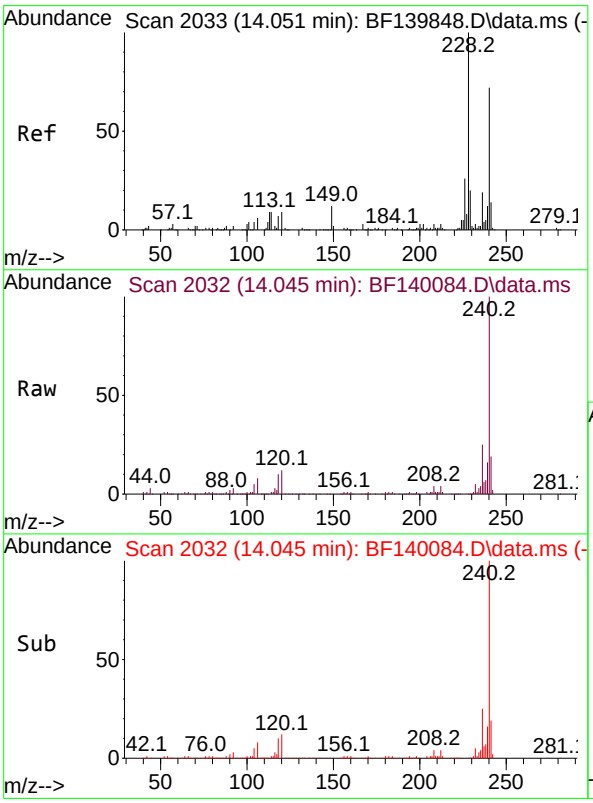
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion:188 Resp: 437262

Ion	Ratio	Lower	Upper
188	100		
94	9.5	7.9	11.9
80	10.3	9.0	13.4

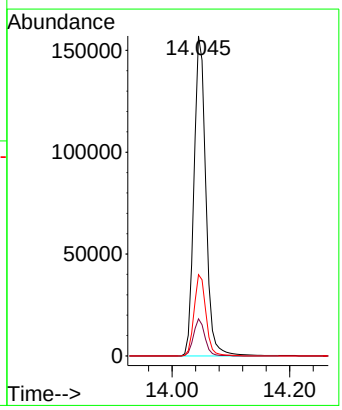


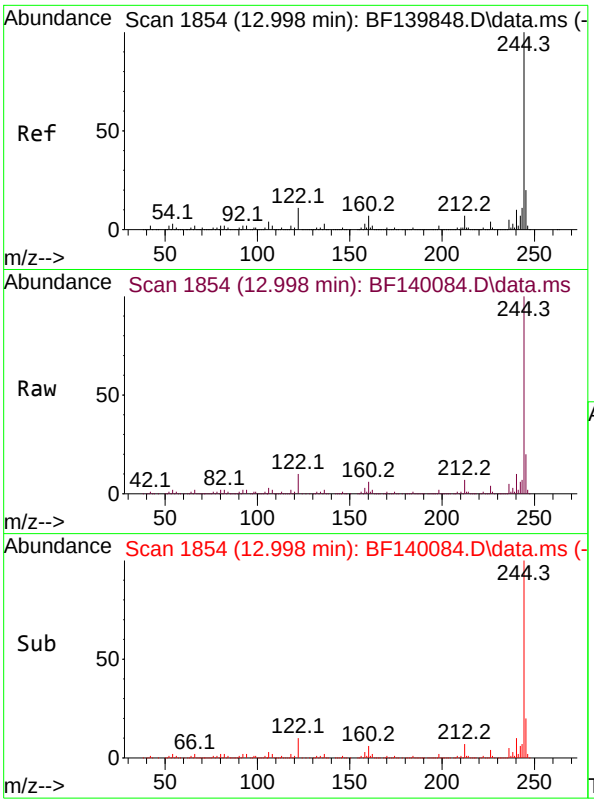


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Tgt Ion:240 Resp: 219498

Ion	Ratio	Lower	Upper
240	100		
120	11.6	9.4	14.2
236	25.4	20.9	31.3



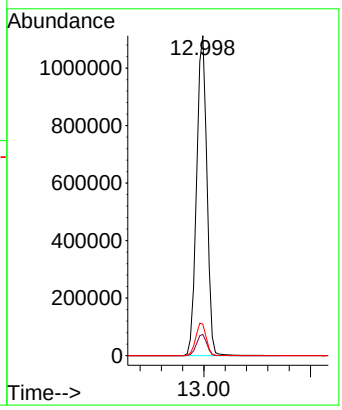


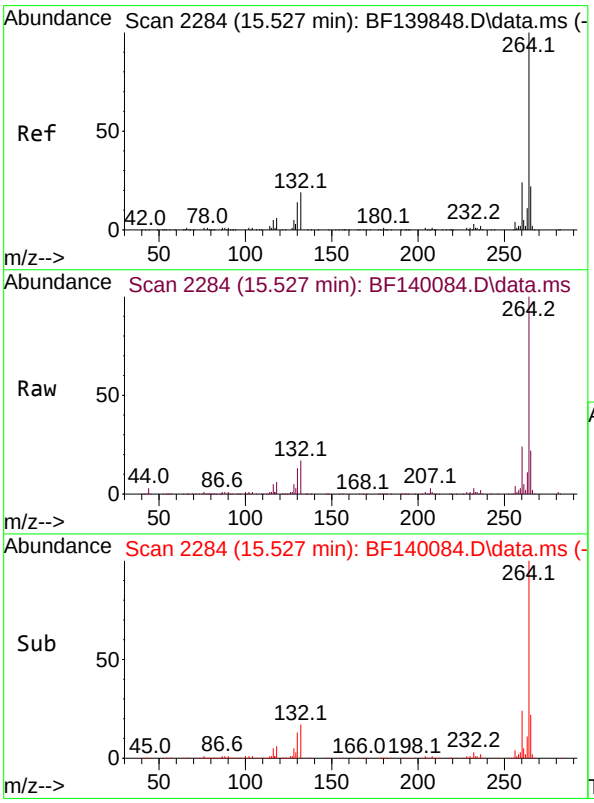
#79
Terphenyl-d14
Concen: 110.559 ng
RT: 12.998 min Scan# 18
Delta R.T. 0.000 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion:244 Resp: 1489277

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.7	8.5
122	9.8	8.6	13.0

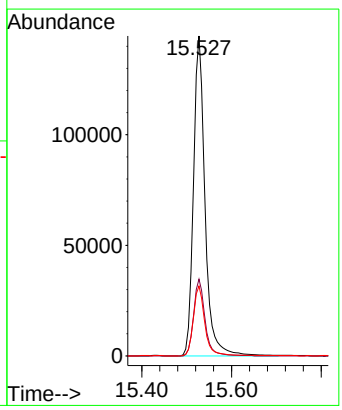




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF140084.D
Acq: 28 Oct 2024 13:51

Tgt Ion:264 Resp: 258448

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.4	29.2
265	21.8	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140085.D
Acq On : 28 Oct 2024 14:19
Operator : RC/JU
Sample : P4578-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Quant Time: Oct 28 14:45:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

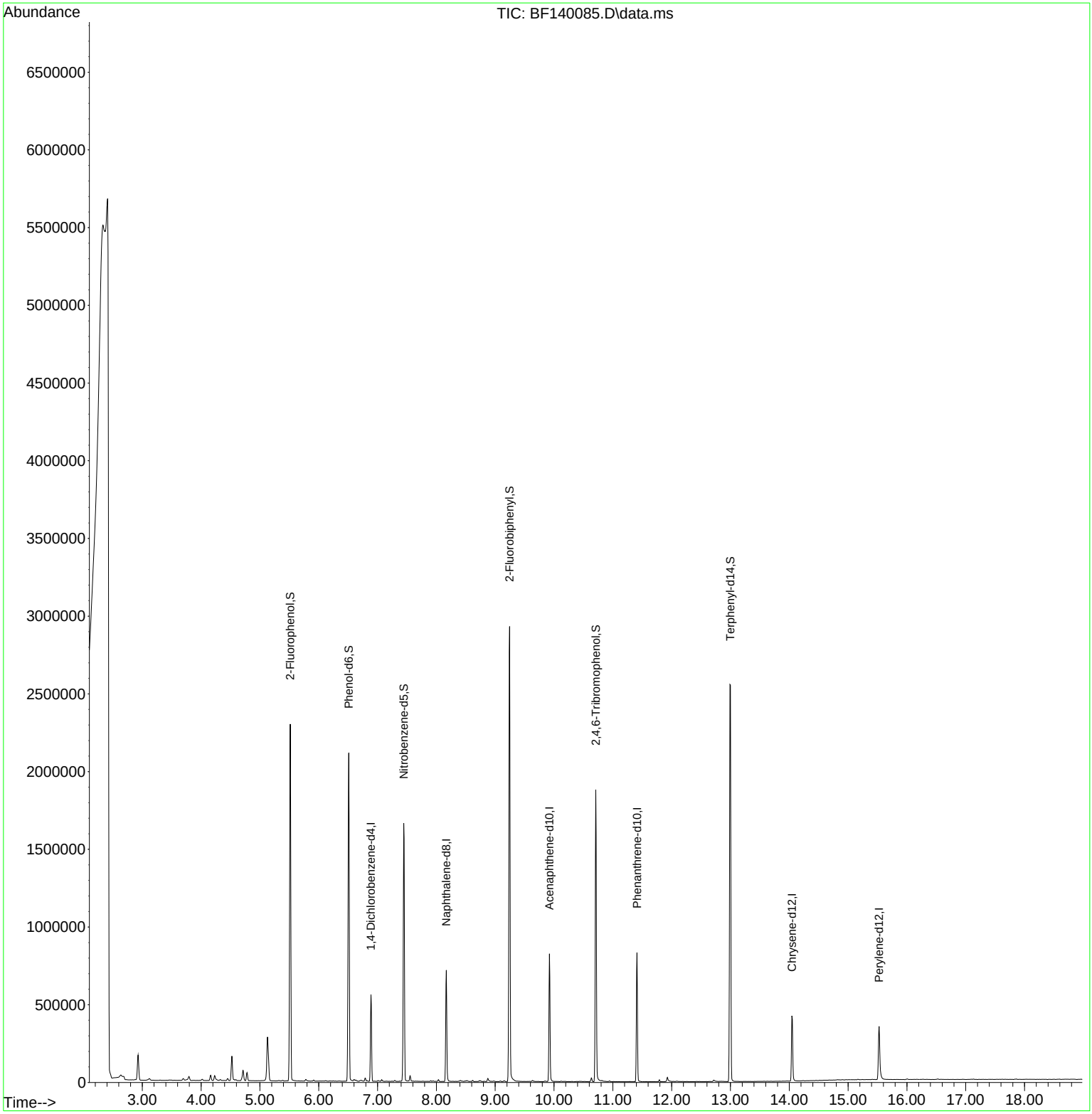
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	111257	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	441878	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	245603	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	437798	20.000	ng	0.00
76) Chrysene-d12	14.045	240	215751	20.000	ng	0.00
86) Perylene-d12	15.527	264	230540	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	863113	121.448	ng	0.02
7) Phenol-d6	6.510	99	1033565	112.289	ng	0.00
23) Nitrobenzene-d5	7.445	82	768626	96.407	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	338552	147.370	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1393721	93.785	ng	0.00
79) Terphenyl-d14	12.998	244	1353675	102.238	ng	0.00
Target Compounds						Qvalue

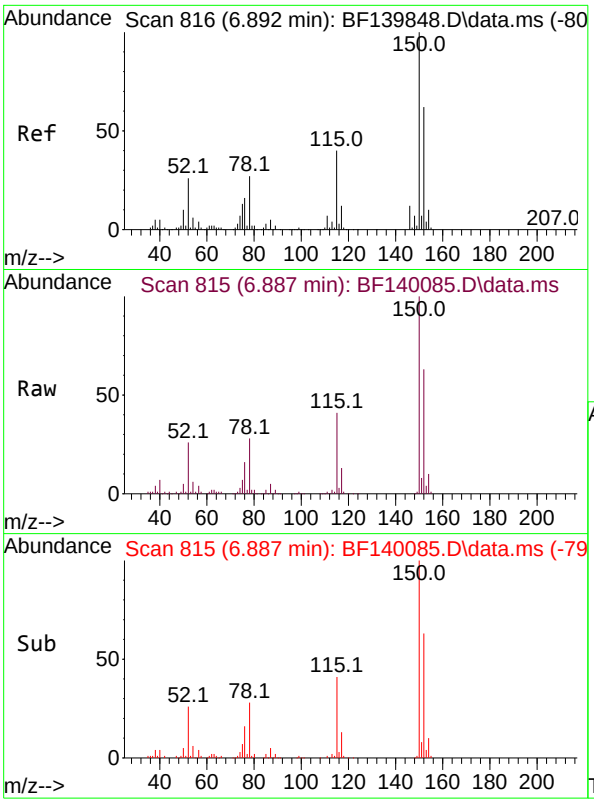
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140085.D
Acq On : 28 Oct 2024 14:19
Operator : RC/JU
Sample : P4578-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Quant Time: Oct 28 14:45:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



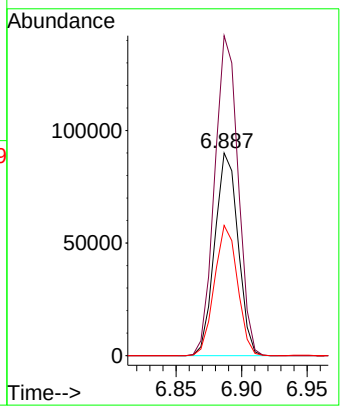


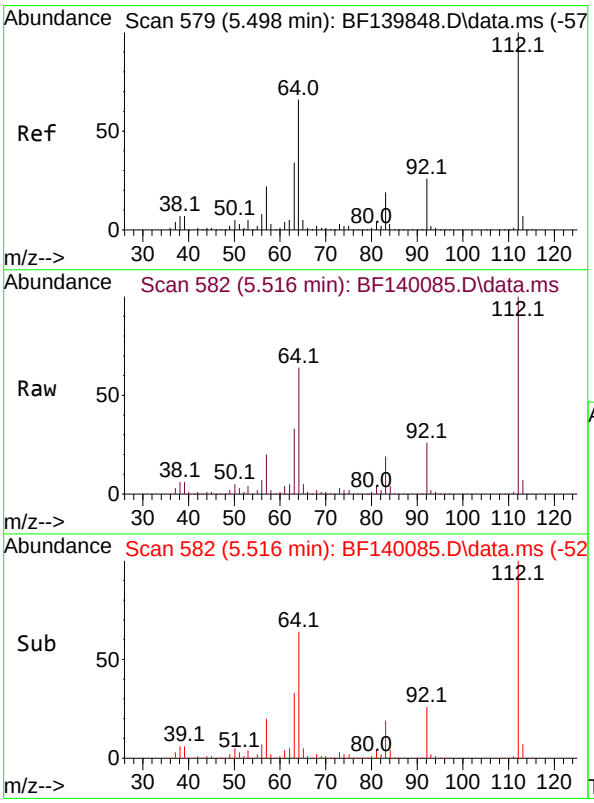
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 81
Delta R.T. -0.005 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion:152 Resp: 111257

Ion	Ratio	Lower	Upper
152	100		
150	157.9	130.2	195.2
115	64.3	51.4	77.2

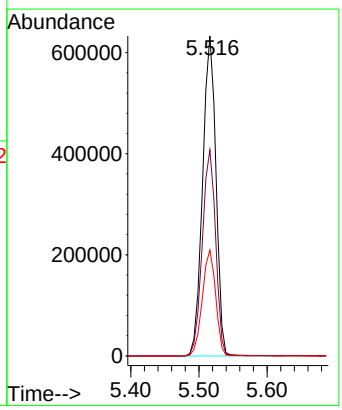


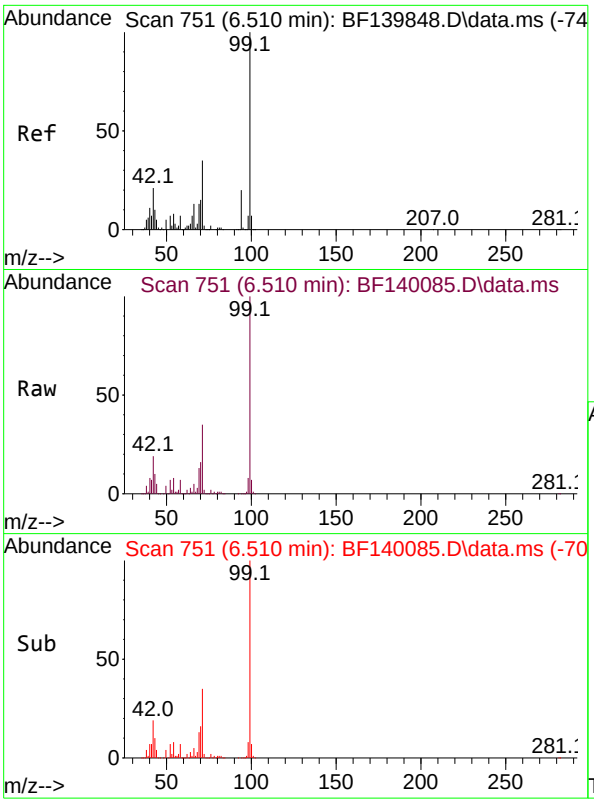


#5
2-Fluorophenol
Concen: 121.448 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Tgt Ion:112 Resp: 863113

Ion	Ratio	Lower	Upper
112	100		
64	64.4	53.0	79.6
63	33.1	27.0	40.4



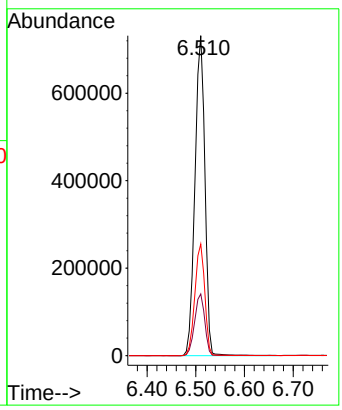


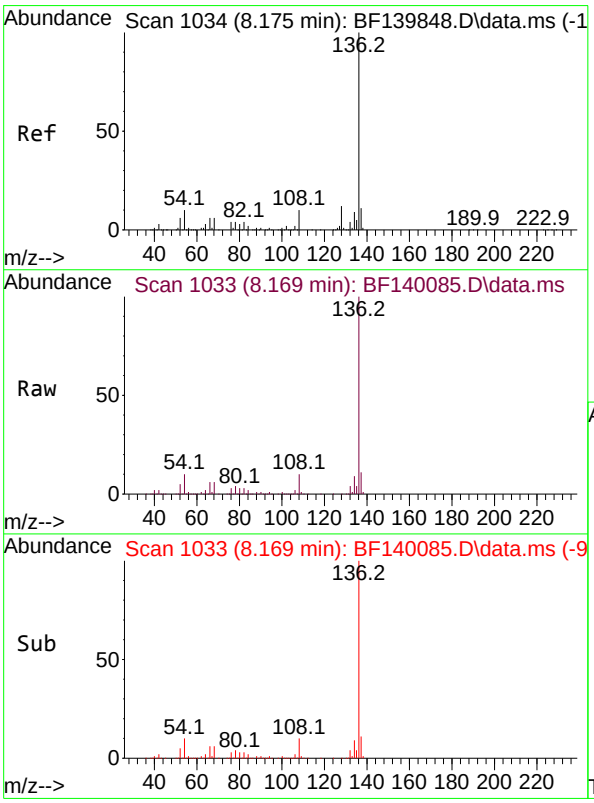
#7
Phenol-d6
Concen: 112.289 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion: 99 Resp: 1033565

Ion	Ratio	Lower	Upper
99	100		
42	19.3	16.7	25.1
71	34.9	27.7	41.5

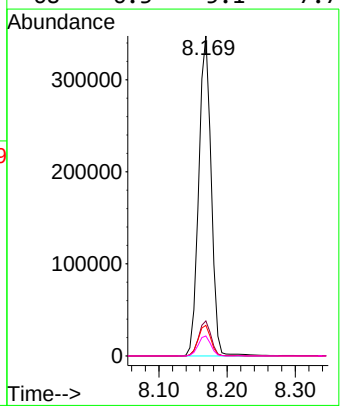


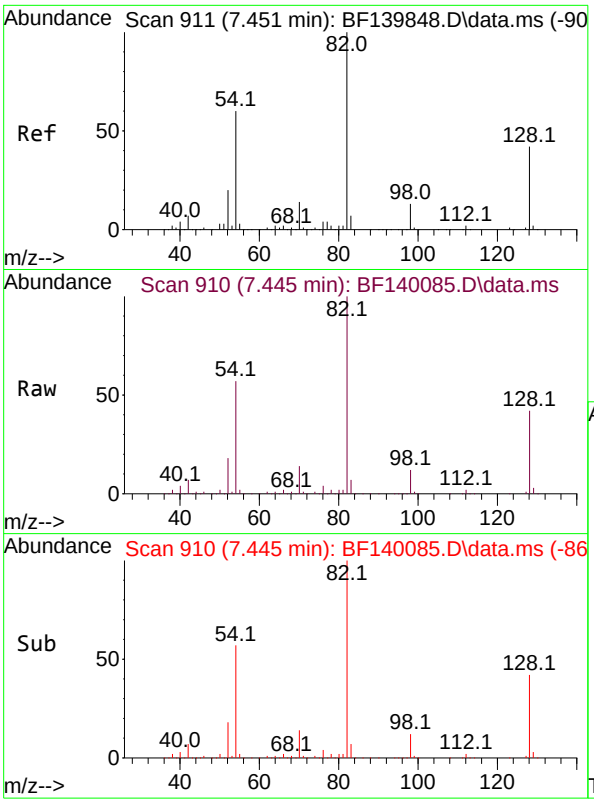


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Tgt Ion:136 Resp: 441878

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	9.5	8.4	12.6
68	6.3	5.1	7.7



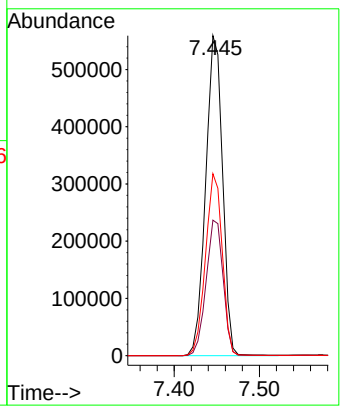


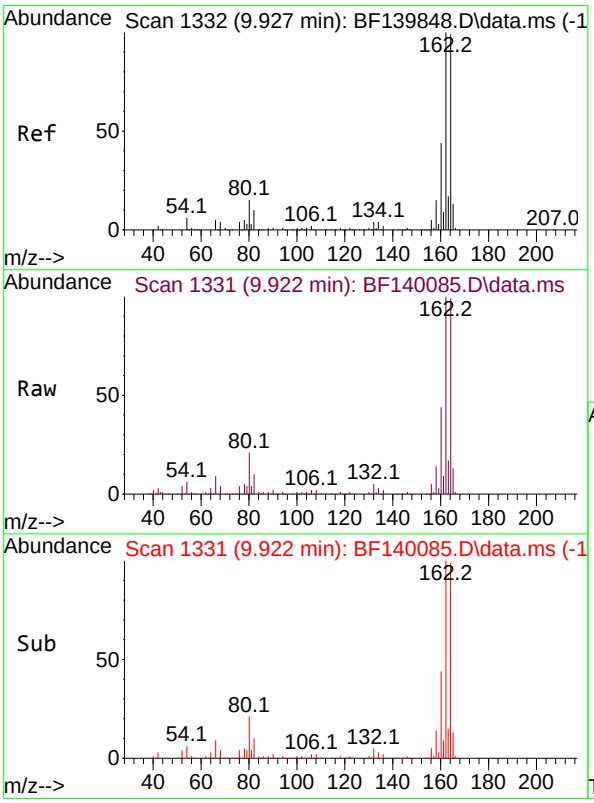
#23
Nitrobenzene-d5
Concen: 96.407 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion: 82 Resp: 768626

Ion	Ratio	Lower	Upper
82	100		
128	42.3	33.4	50.0
54	56.8	47.8	71.8

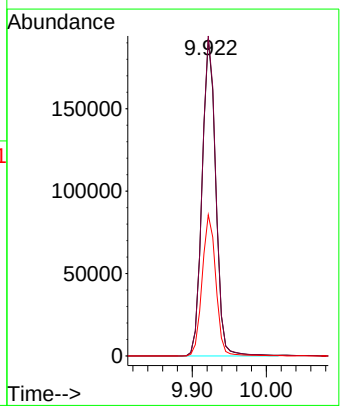


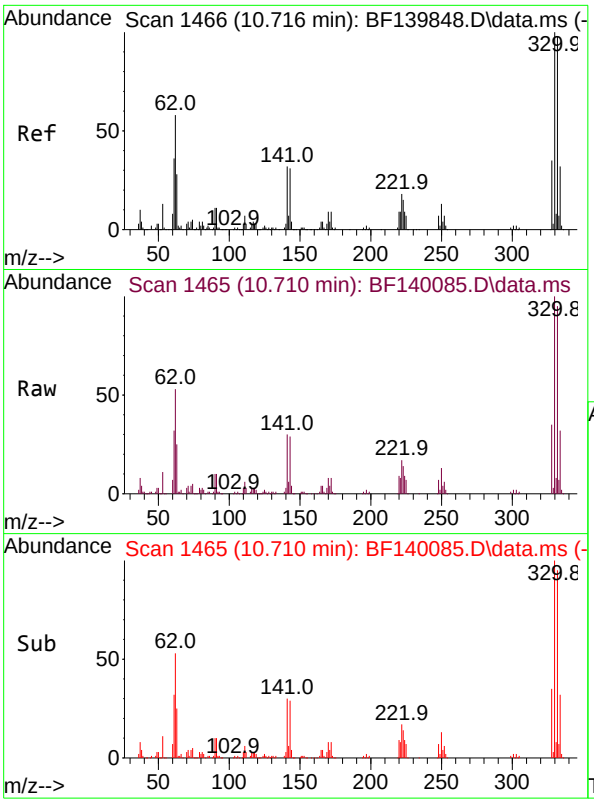


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Tgt Ion:164 Resp: 245603

Ion	Ratio	Lower	Upper
164	100		
162	100.9	81.0	121.4
160	44.5	35.4	53.0



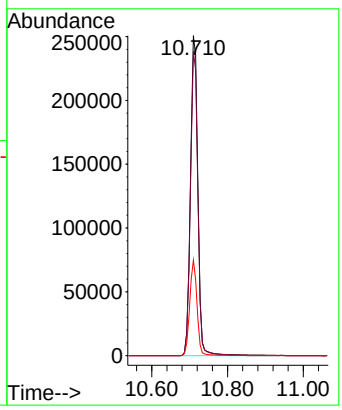


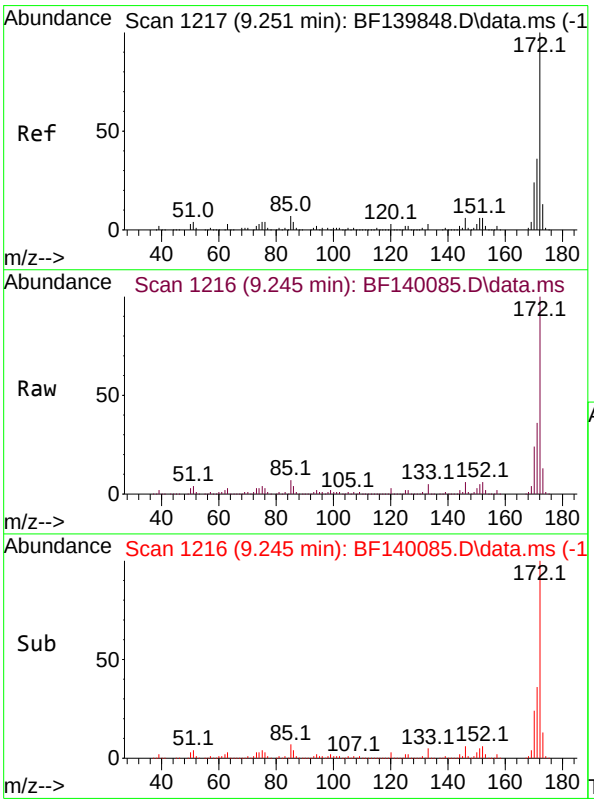
#42
2,4,6-Tribromophenol
Concen: 147.370 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion:330 Resp: 338552

Ion	Ratio	Lower	Upper
330	100		
332	94.9	78.1	117.1
141	29.4	26.6	39.8

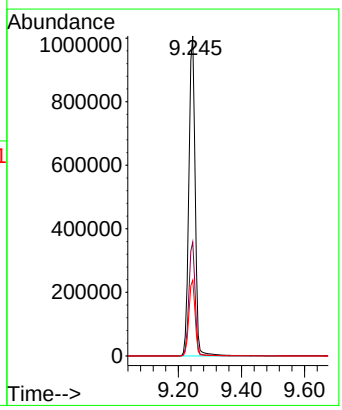


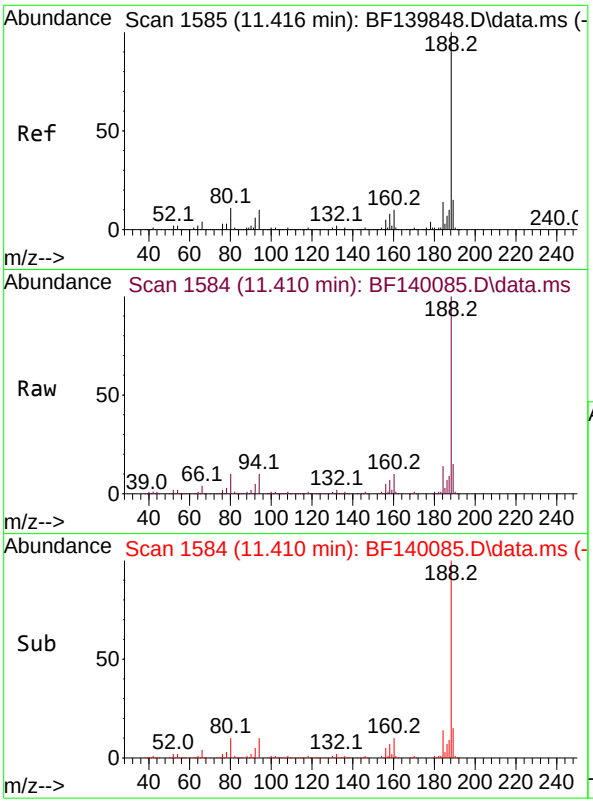


#45
2-Fluorobiphenyl
Concen: 93.785 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Tgt Ion:172 Resp: 1393721

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.6	43.0
170	23.7	19.1	28.7



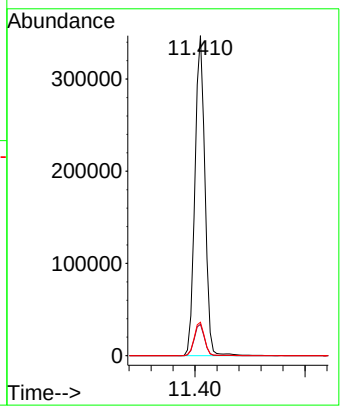


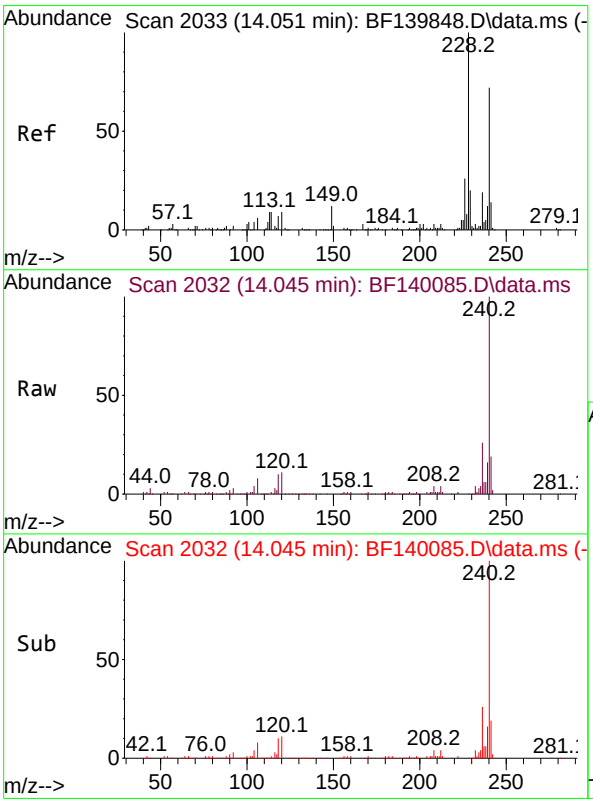
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion:188 Resp: 437798

Ion	Ratio	Lower	Upper
188	100		
94	9.8	7.9	11.9
80	10.4	9.0	13.4

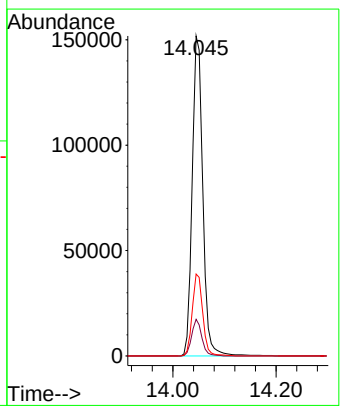


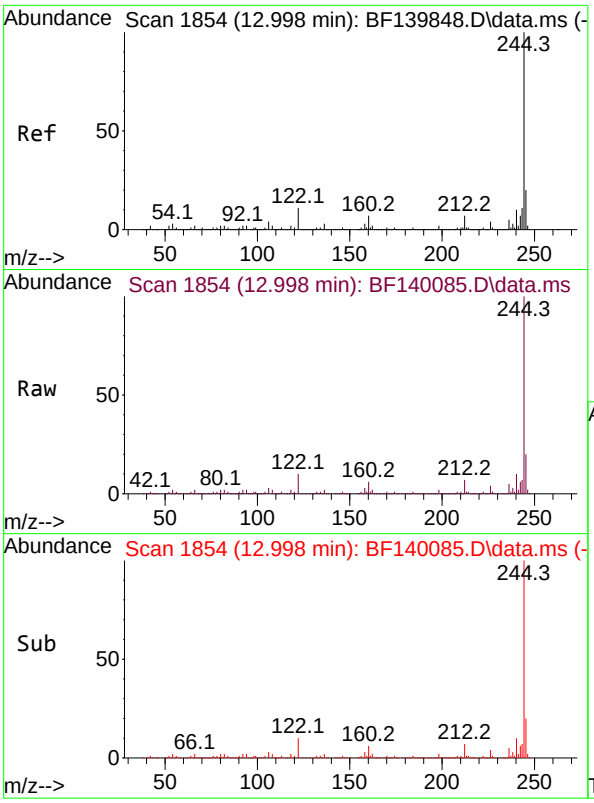


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Tgt Ion:240 Resp: 215751

Ion	Ratio	Lower	Upper
240	100		
120	11.4	9.4	14.2
236	25.6	20.9	31.3



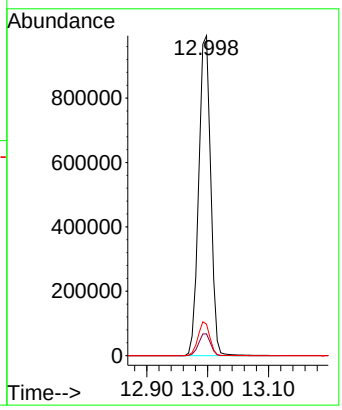


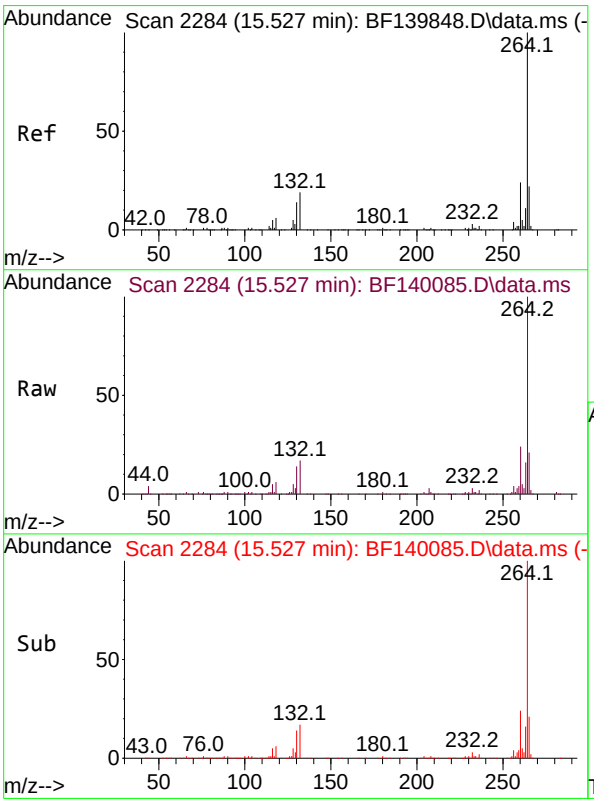
#79
Terphenyl-d14
Concen: 102.238 ng
RT: 12.998 min Scan# 18
Delta R.T. 0.000 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion:244 Resp: 1353675

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	9.8	8.6	13.0

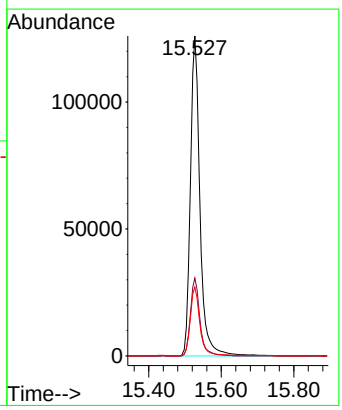




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF140085.D
Acq: 28 Oct 2024 14:19

Tgt Ion:264 Resp: 230540

Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.4	29.2
265	21.5	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140078.D
Acq On : 28 Oct 2024 10:58
Operator : RC/JU
Sample : PB164393TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164393TB

Quant Time: Oct 28 11:28:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

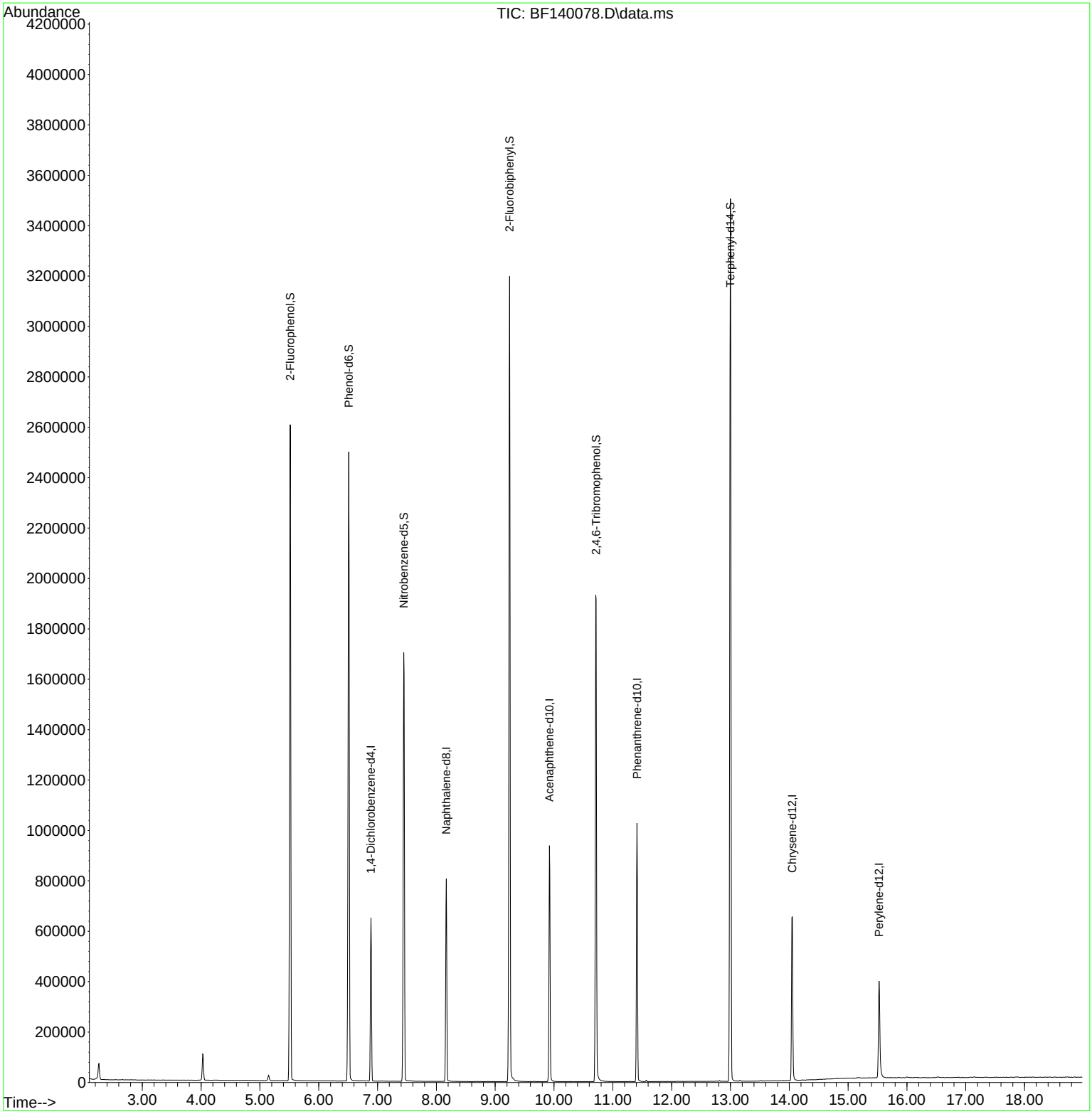
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	128211	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	508163	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	288600	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	536321	20.000	ng	0.00
76) Chrysene-d12	14.051	240	334195	20.000	ng	0.00
86) Perylene-d12	15.527	264	261975	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1001524	122.289	ng	0.02
7) Phenol-d6	6.510	99	1264624	119.224	ng	0.00
23) Nitrobenzene-d5	7.446	82	845367	92.201	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	368703	136.583	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1534211	87.858	ng	0.00
79) Terphenyl-d14	12.998	244	1821703	88.823	ng	0.00
Target Compounds						Qvalue

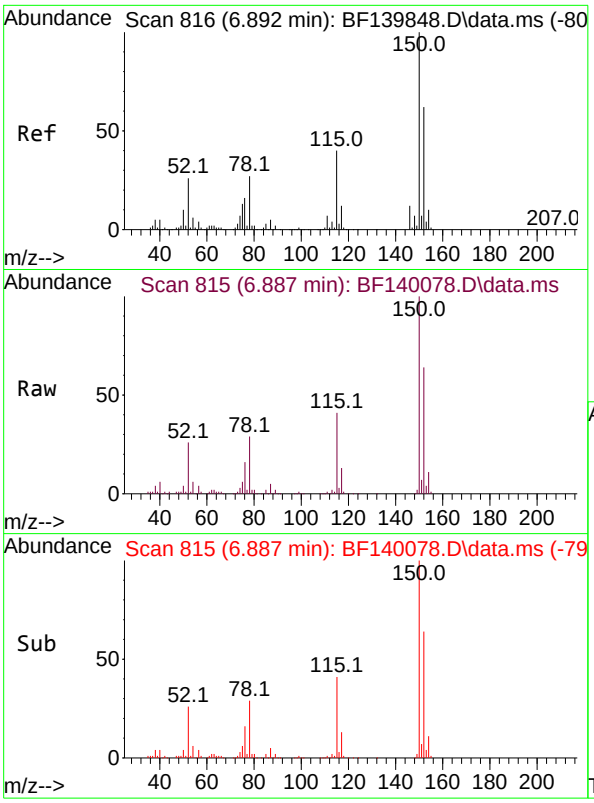
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140078.D
Acq On : 28 Oct 2024 10:58
Operator : RC/JU
Sample : PB164393TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164393TB

Quant Time: Oct 28 11:28:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



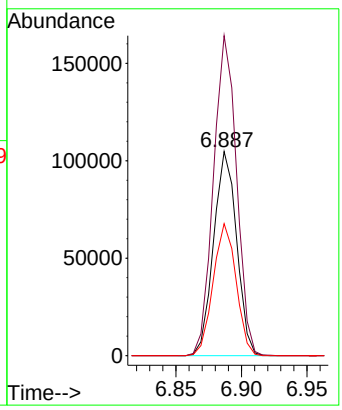


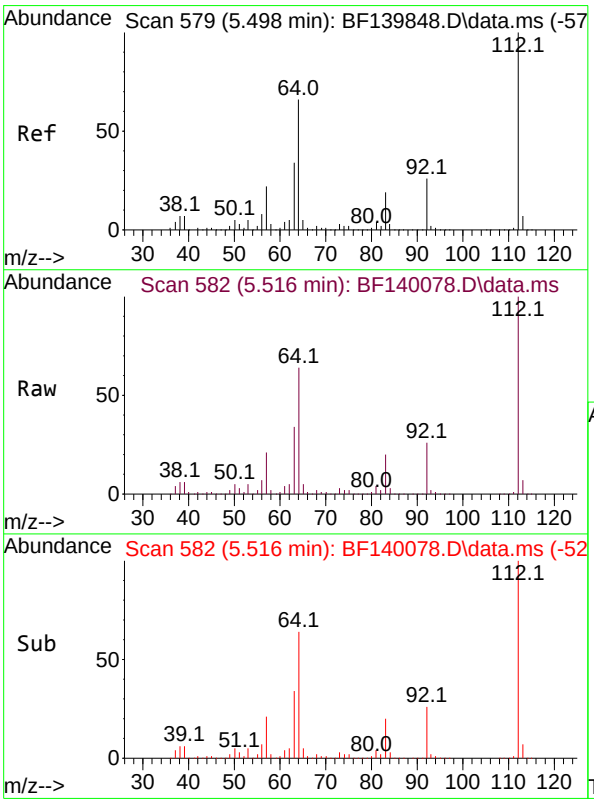
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 81
Delta R.T. -0.005 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Instrument :
BNA_F
ClientSampleId :
PB164393TB

Tgt Ion:152 Resp: 128211

Ion	Ratio	Lower	Upper
152	100		
150	156.8	130.2	195.2
115	64.7	51.4	77.2

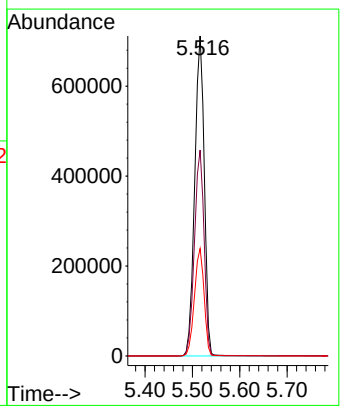


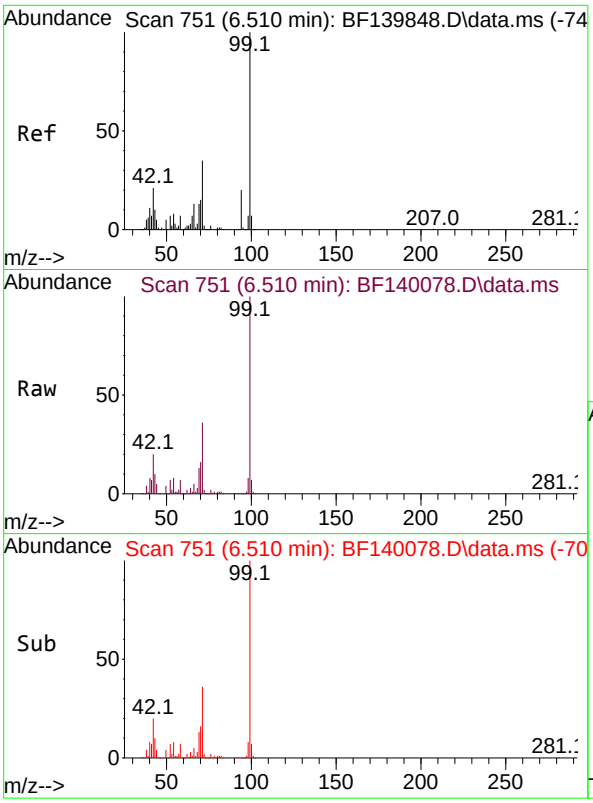


#5
2-Fluorophenol
Concen: 122.289 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Tgt Ion:112 Resp: 1001524

Ion	Ratio	Lower	Upper
112	100		
64	64.3	53.0	79.6
63	33.5	27.0	40.4



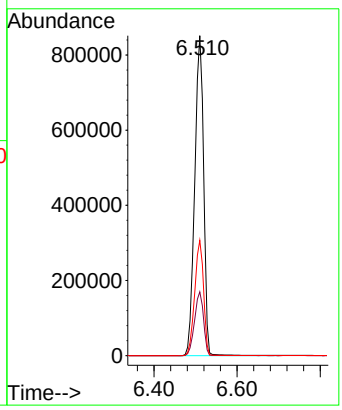


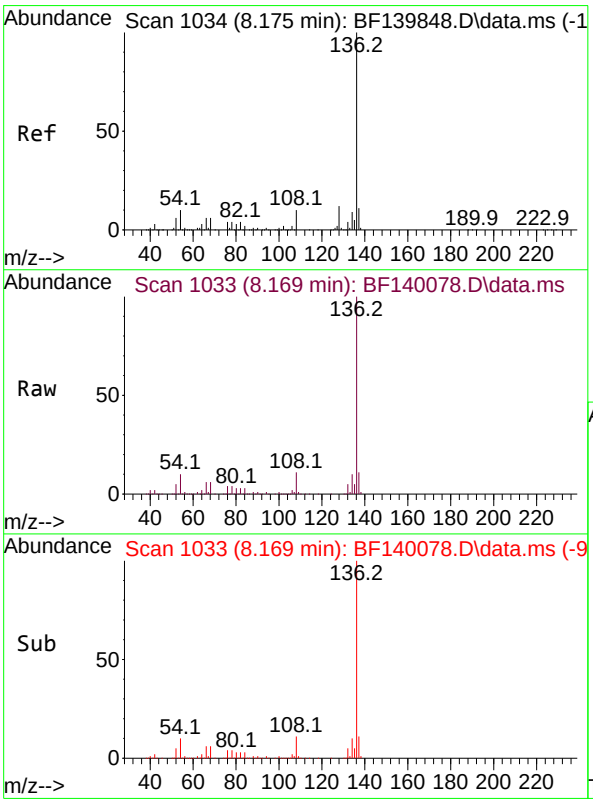
#7
Phenol-d6
Concen: 119.224 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Instrument :
BNA_F
ClientSampleId :
PB164393TB

Tgt Ion: 99 Resp: 1264624

Ion	Ratio	Lower	Upper
99	100		
42	19.9	16.7	25.1
71	36.0	27.7	41.5

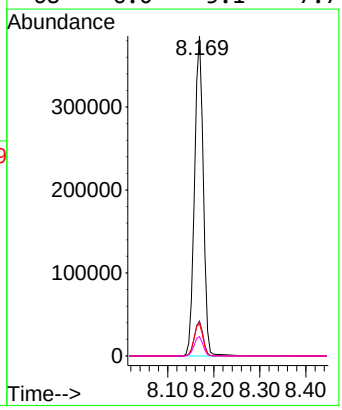


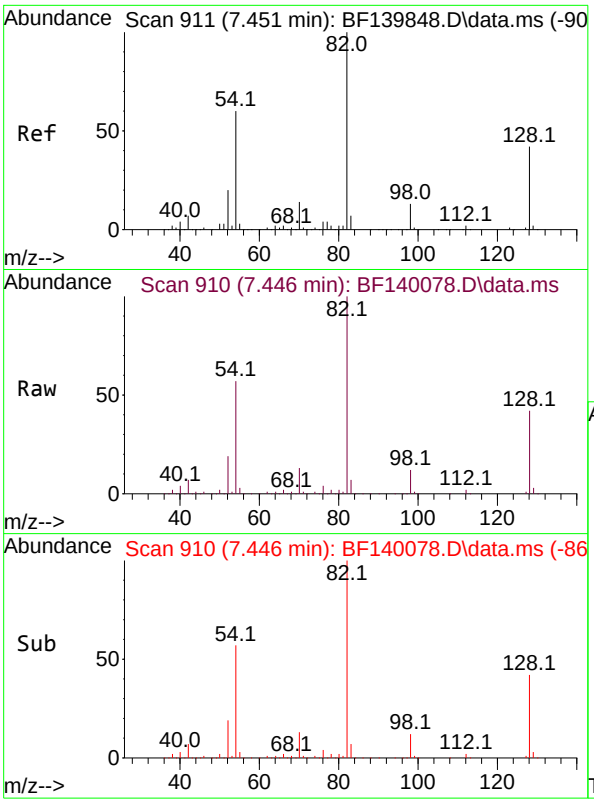


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Tgt Ion:136 Resp: 508163

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	10.1	8.4	12.6
68	6.0	5.1	7.7



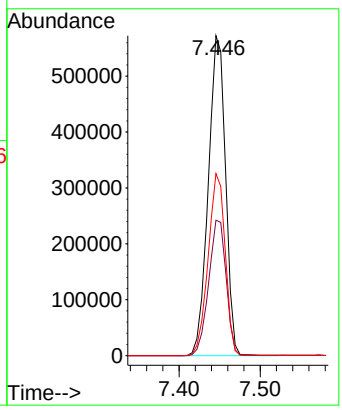


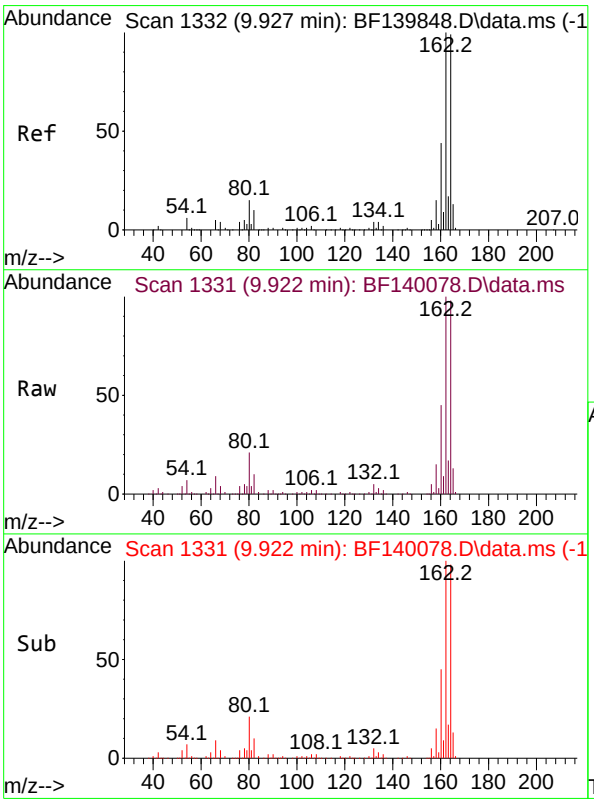
#23
Nitrobenzene-d5
Concen: 92.201 ng
RT: 7.446 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Instrument :
BNA_F
ClientSampleId :
PB164393TB

Tgt Ion: 82 Resp: 845367

Ion	Ratio	Lower	Upper
82	100		
128	42.3	33.4	50.0
54	56.9	47.8	71.8

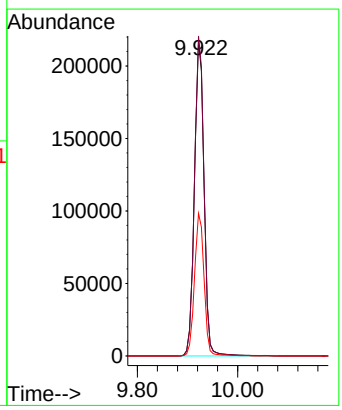


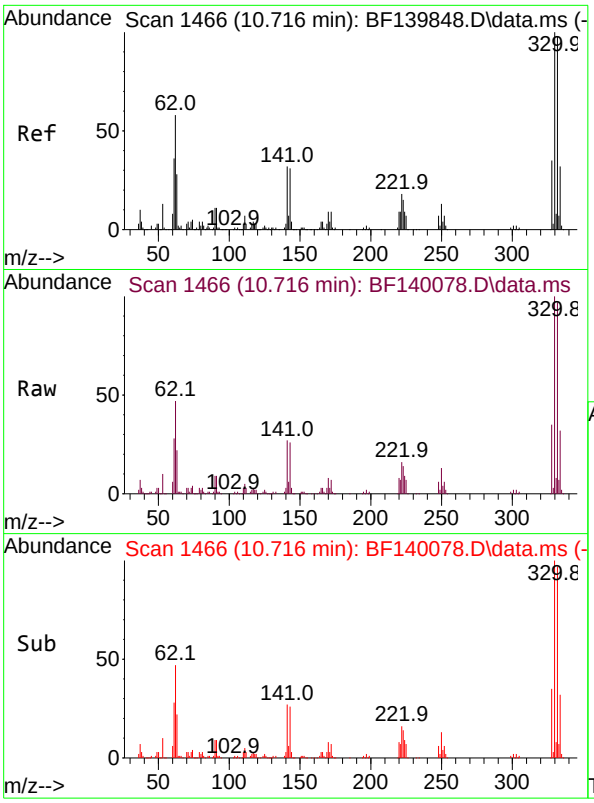


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Tgt Ion:164 Resp: 288600

Ion	Ratio	Lower	Upper
164	100		
162	101.6	81.0	121.4
160	45.2	35.4	53.0



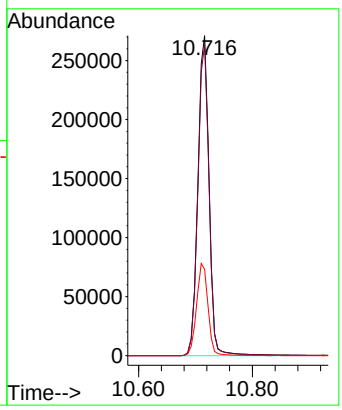


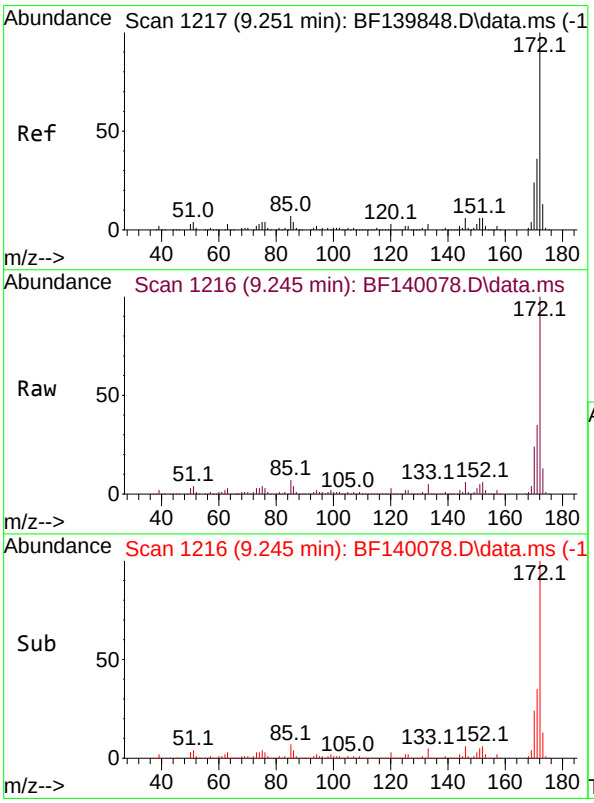
#42
2,4,6-Tribromophenol
Concen: 136.583 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Instrument :
BNA_F
ClientSampleId :
PB164393TB

Tgt Ion:330 Resp: 368703

Ion	Ratio	Lower	Upper
330	100		
332	97.6	78.1	117.1
141	29.6	26.6	39.8

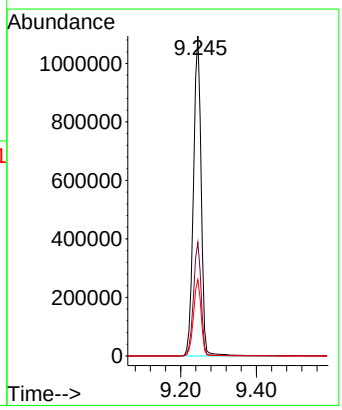


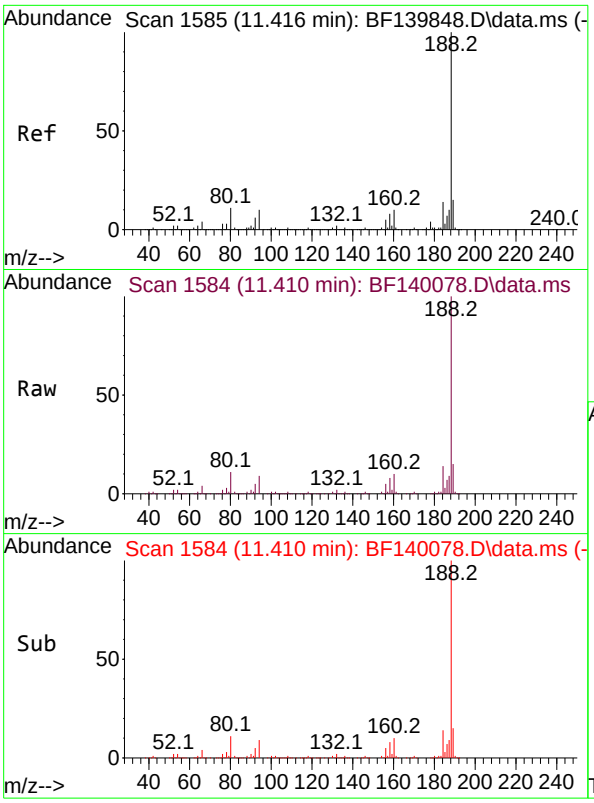


#45
2-Fluorobiphenyl
Concen: 87.858 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Tgt Ion:172 Resp: 1534211

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	43.0
170	23.8	19.1	28.7



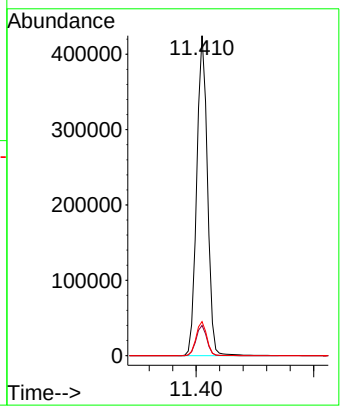


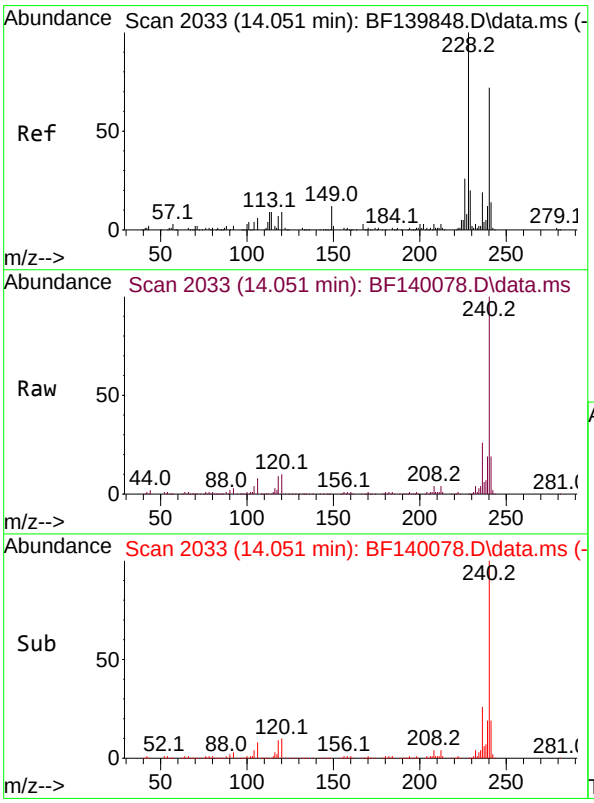
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Instrument :
BNA_F
ClientSampleId :
PB164393TB

Tgt Ion:188 Resp: 536321

Ion	Ratio	Lower	Upper
188	100		
94	9.4	7.9	11.9
80	10.6	9.0	13.4

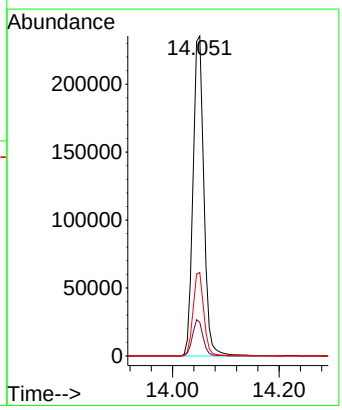


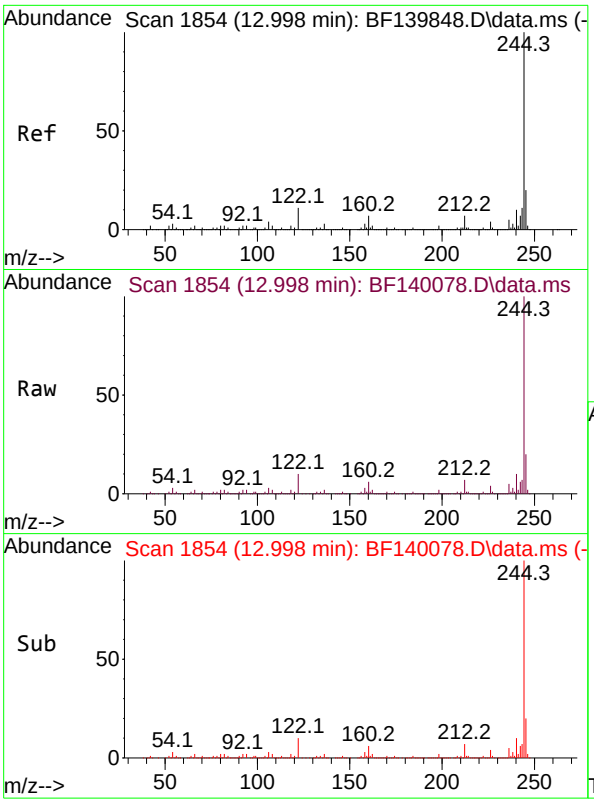


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Tgt Ion:240 Resp: 334195

Ion	Ratio	Lower	Upper
240	100		
120	10.5	9.4	14.2
236	26.0	20.9	31.3



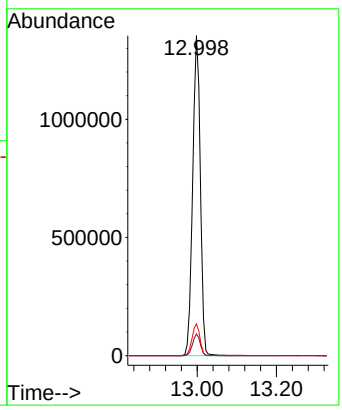


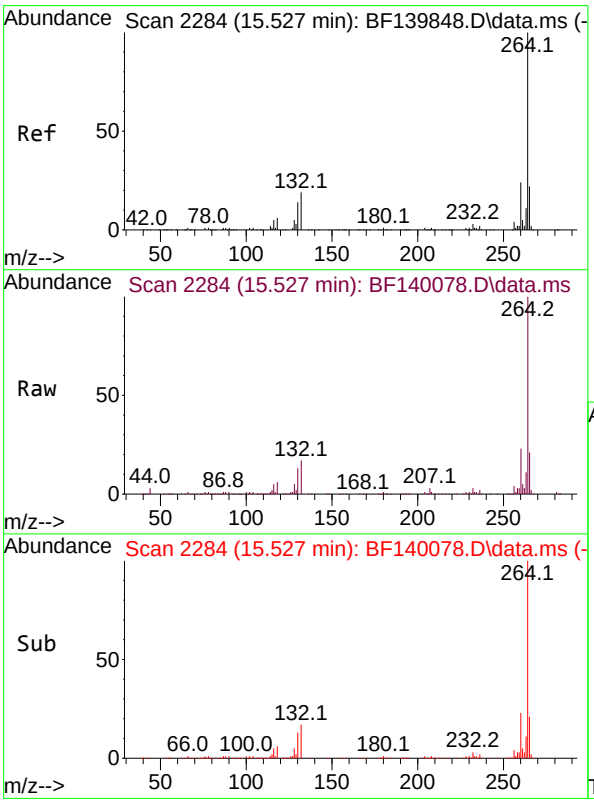
#79
Terphenyl-d14
Concen: 88.823 ng
RT: 12.998 min Scan# 18
Delta R.T. 0.000 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Instrument :
BNA_F
ClientSampleId :
PB164393TB

Tgt Ion:244 Resp: 1821703

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	9.9	8.6	13.0

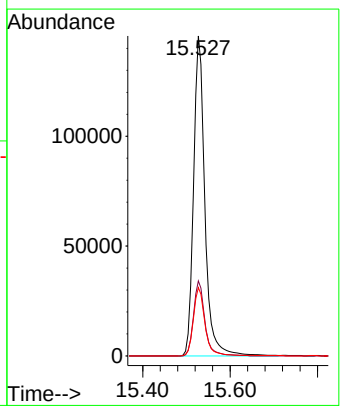




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF140078.D
Acq: 28 Oct 2024 10:58

Tgt Ion:264 Resp: 261975

Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.4	29.2
265	21.3	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140076.D
Acq On : 28 Oct 2024 10:01
Operator : RC/JU
Sample : PB164444BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164444BL

Quant Time: Oct 28 11:22:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

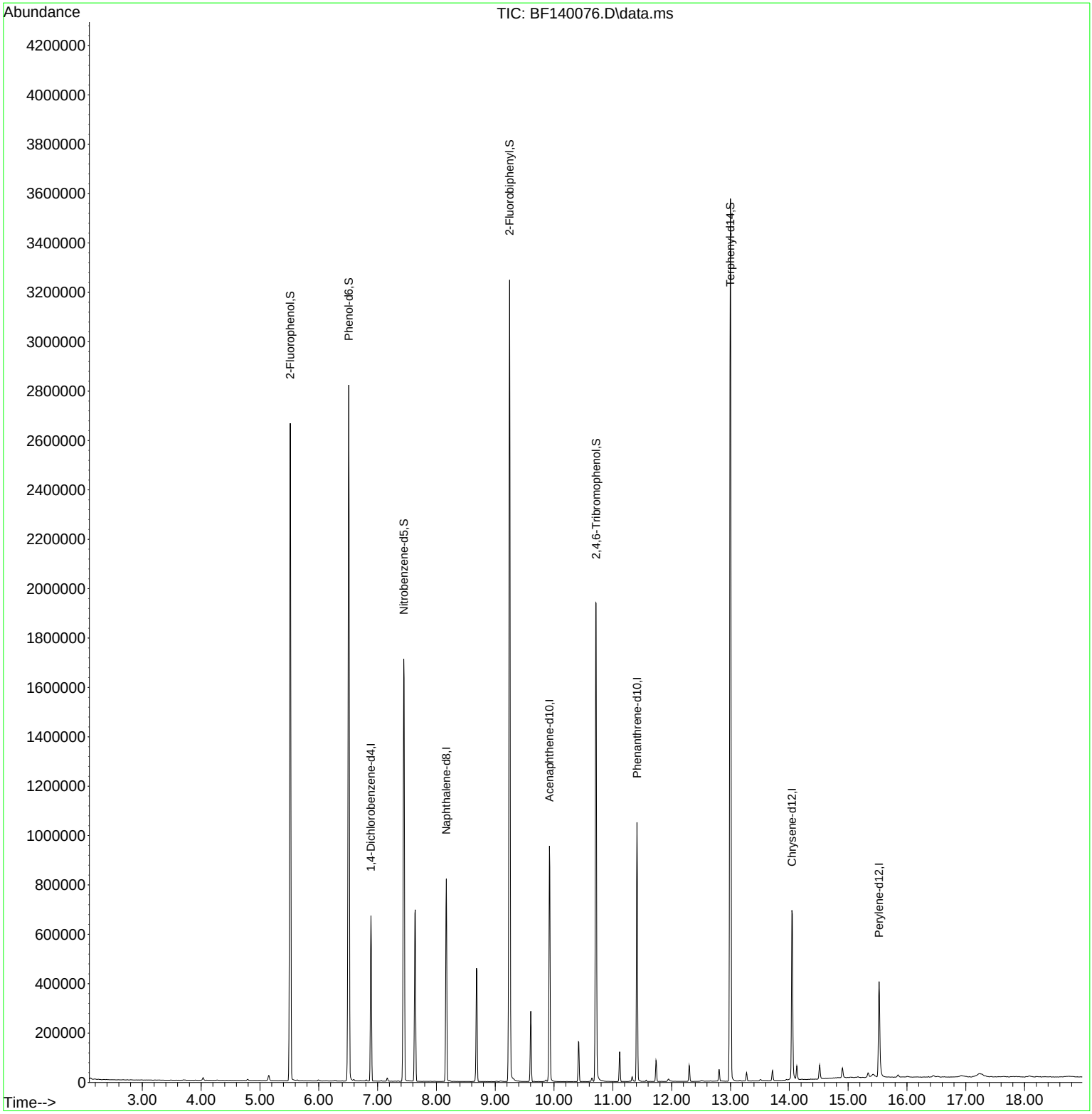
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	132330	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	518019	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	298114	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	550598	20.000	ng	0.00
76) Chrysene-d12	14.045	240	341644	20.000	ng	0.00
86) Perylene-d12	15.527	264	261224	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1015752	120.165	ng	0.02
7) Phenol-d6	6.510	99	1244979	113.718	ng	0.00
23) Nitrobenzene-d5	7.445	82	849954	90.938	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	370207	132.764	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1571487	87.121	ng	0.00
79) Terphenyl-d14	12.998	244	1868766	89.131	ng	0.00
Target Compounds						Qvalue

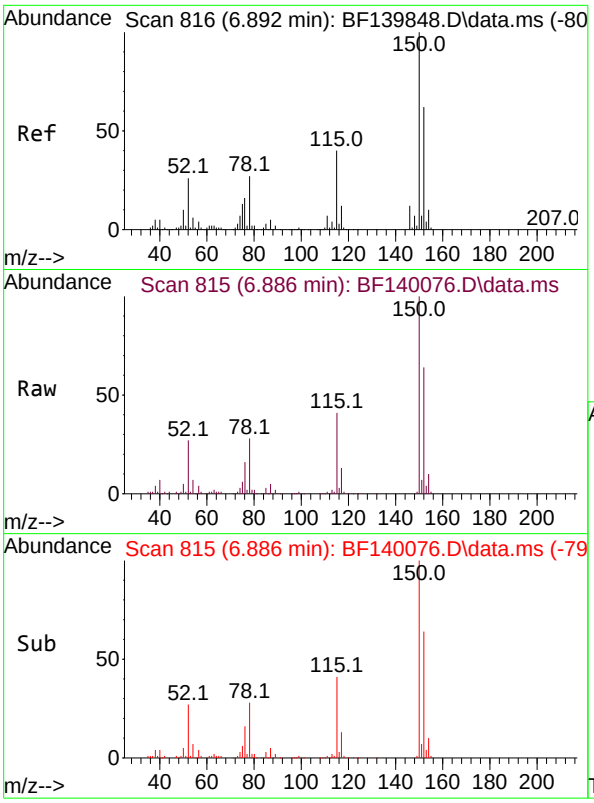
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140076.D
Acq On : 28 Oct 2024 10:01
Operator : RC/JU
Sample : PB164444BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164444BL

Quant Time: Oct 28 11:22:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



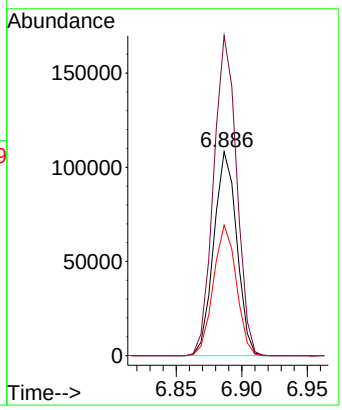


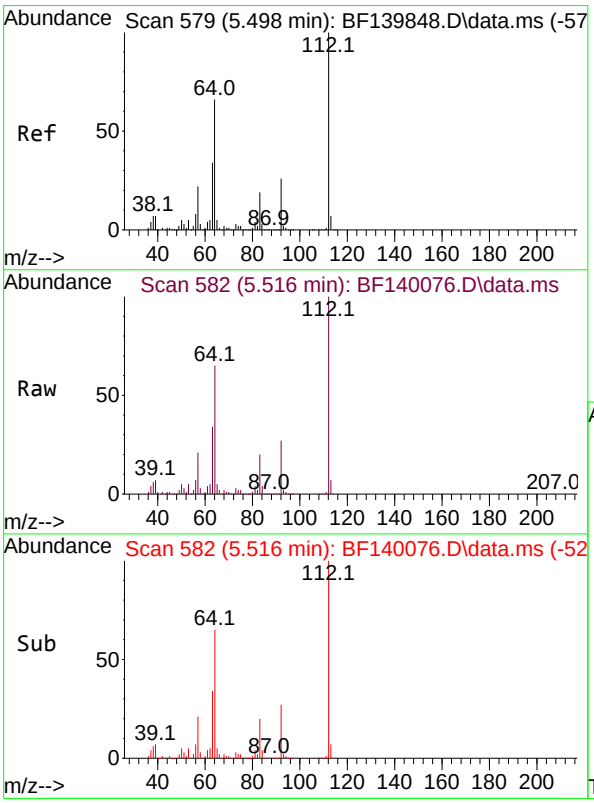
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Instrument :
BNA_F
ClientSampleId :
PB164444BL

Tgt Ion:152 Resp: 132330

Ion	Ratio	Lower	Upper
152	100		
150	156.9	130.2	195.2
115	63.9	51.4	77.2

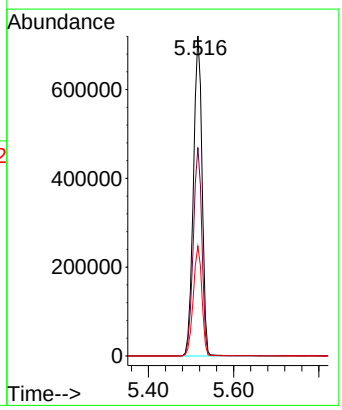


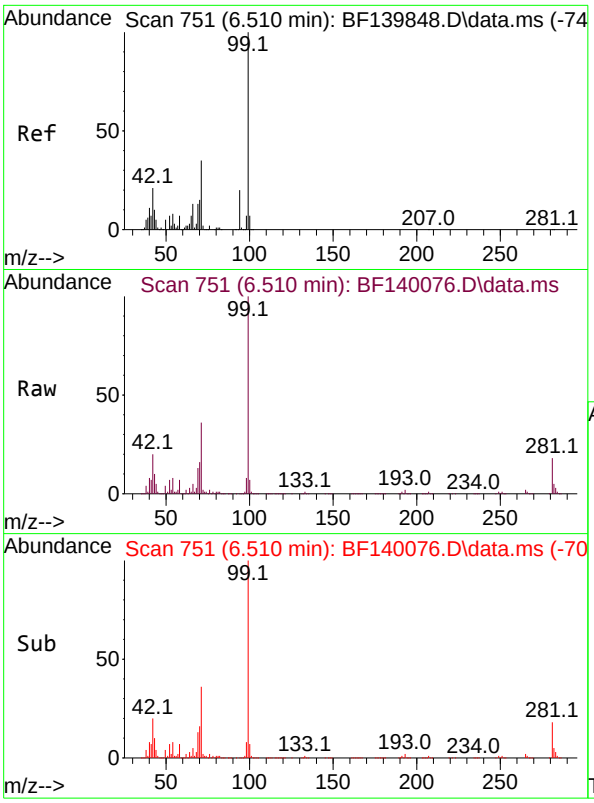


#5
2-Fluorophenol
Concen: 120.165 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Tgt Ion:112 Resp: 1015752

Ion	Ratio	Lower	Upper
112	100		
64	65.1	53.0	79.6
63	34.3	27.0	40.4



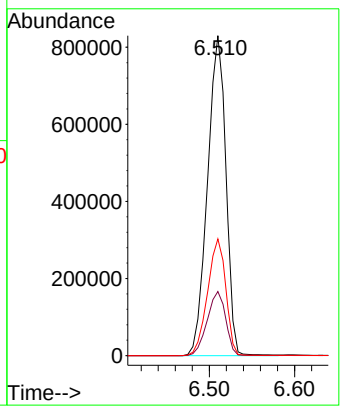


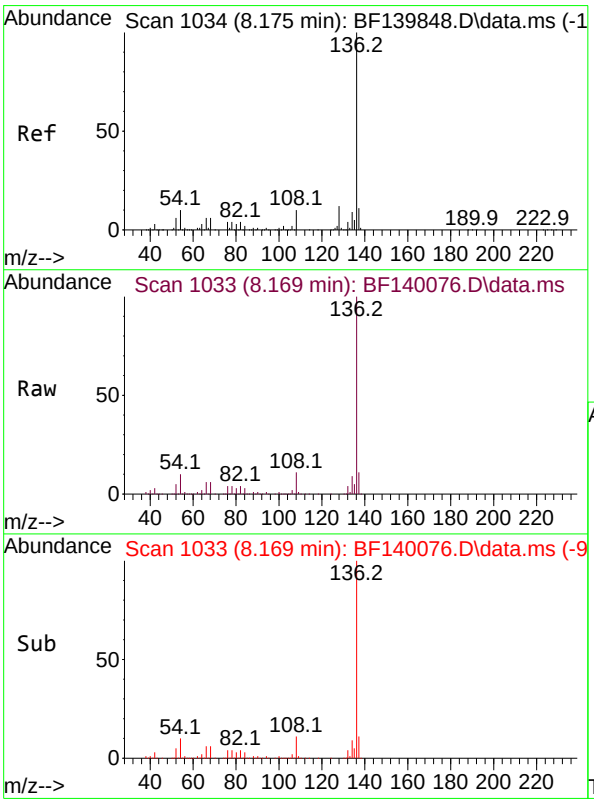
#7
Phenol-d6
Concen: 113.718 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Instrument :
BNA_F
ClientSampleId :
PB164444BL

Tgt Ion: 99 Resp: 1244979

Ion	Ratio	Lower	Upper
99	100		
42	20.0	16.7	25.1
71	36.5	27.7	41.5

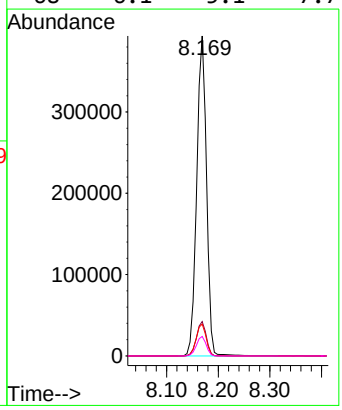


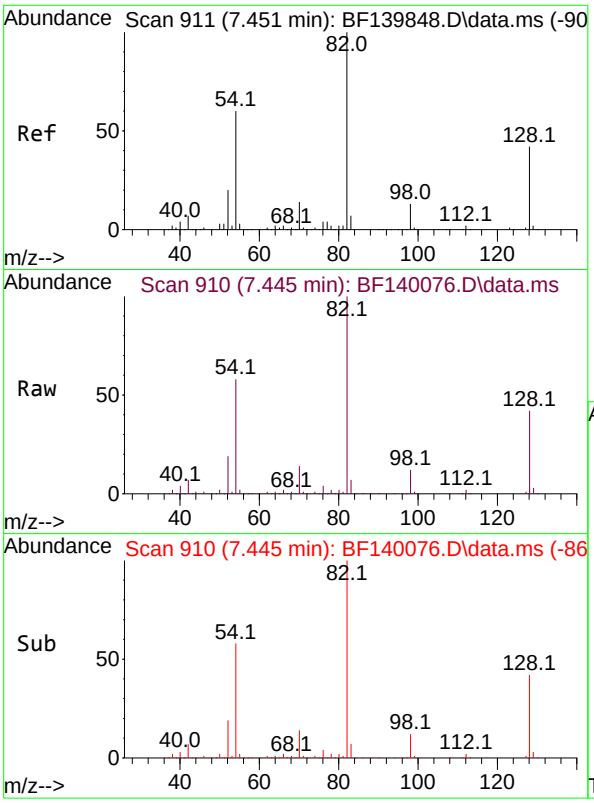


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Tgt Ion:136 Resp: 518019

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	12.8
54	10.0	8.4	12.6
68	6.1	5.1	7.7



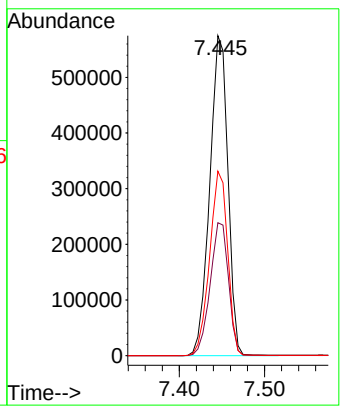


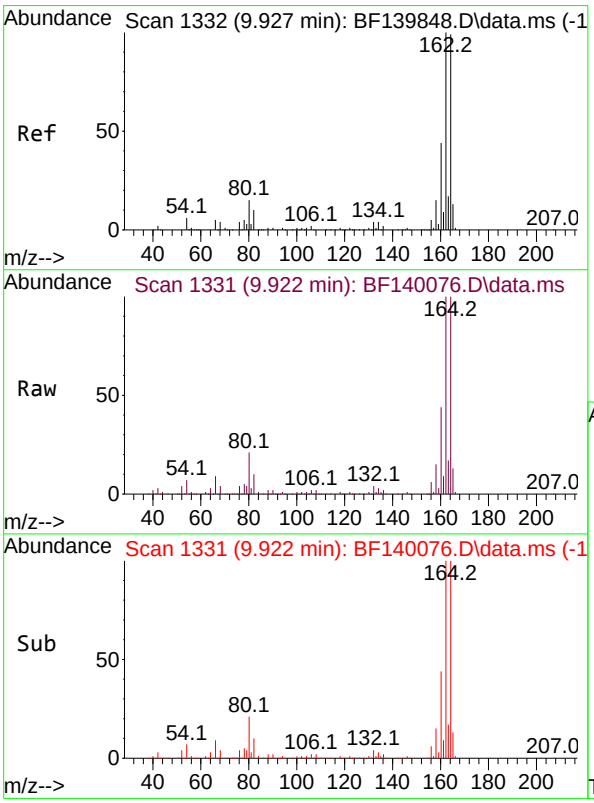
#23
Nitrobenzene-d5
Concen: 90.938 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Instrument :
BNA_F
ClientSampleId :
PB164444BL

Tgt Ion: 82 Resp: 849954

Ion	Ratio	Lower	Upper
82	100		
128	41.5	33.4	50.0
54	57.6	47.8	71.8

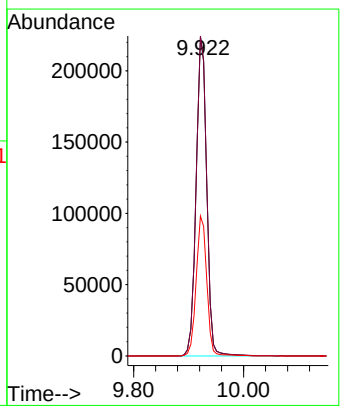


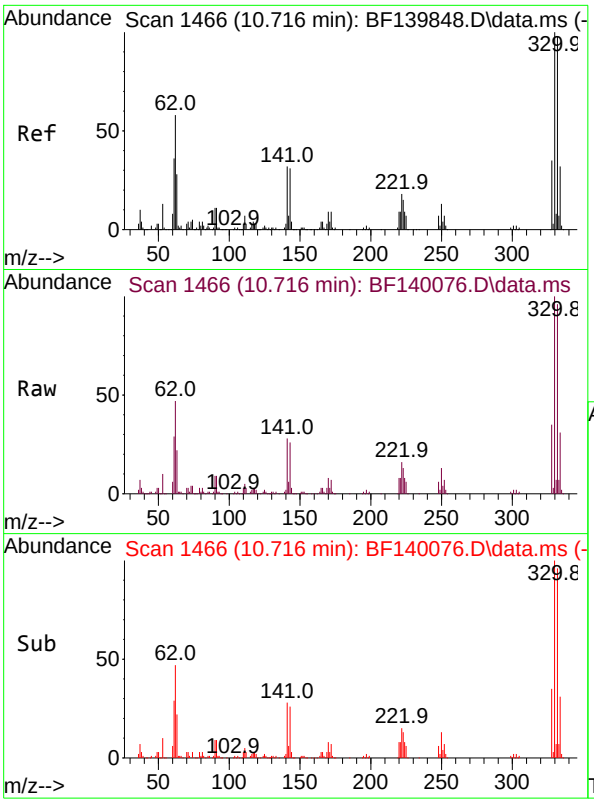


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Tgt Ion:164 Resp: 298114

Ion	Ratio	Lower	Upper
164	100		
162	100.2	81.0	121.4
160	43.8	35.4	53.0



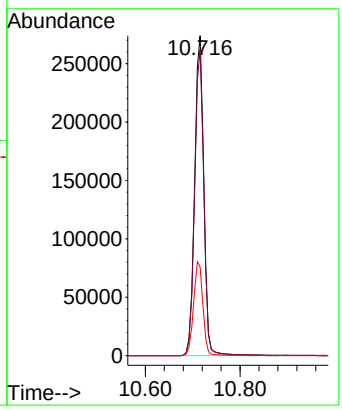


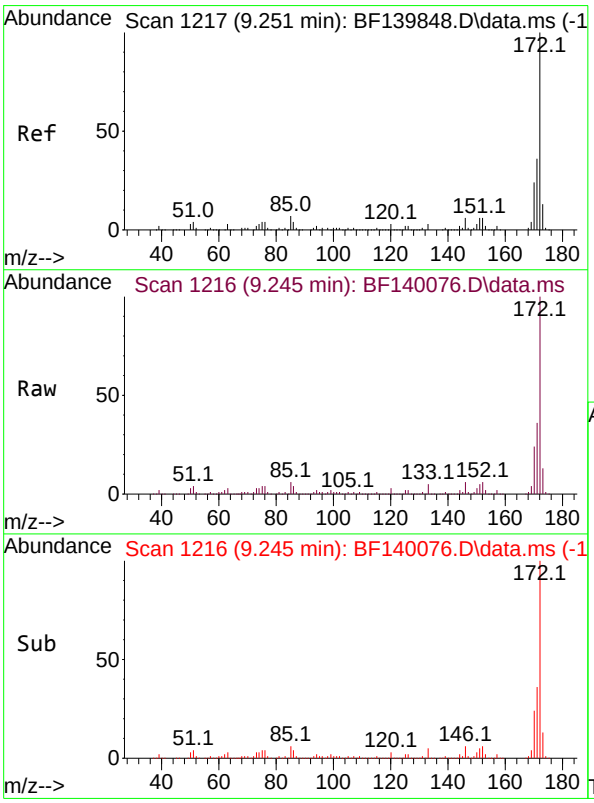
#42
2,4,6-Tribromophenol
Concen: 132.764 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Instrument :
BNA_F
ClientSampleId :
PB164444BL

Tgt Ion:330 Resp: 370207

Ion	Ratio	Lower	Upper
330	100		
332	95.2	78.1	117.1
141	30.0	26.6	39.8

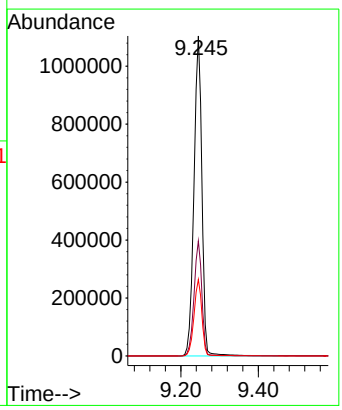


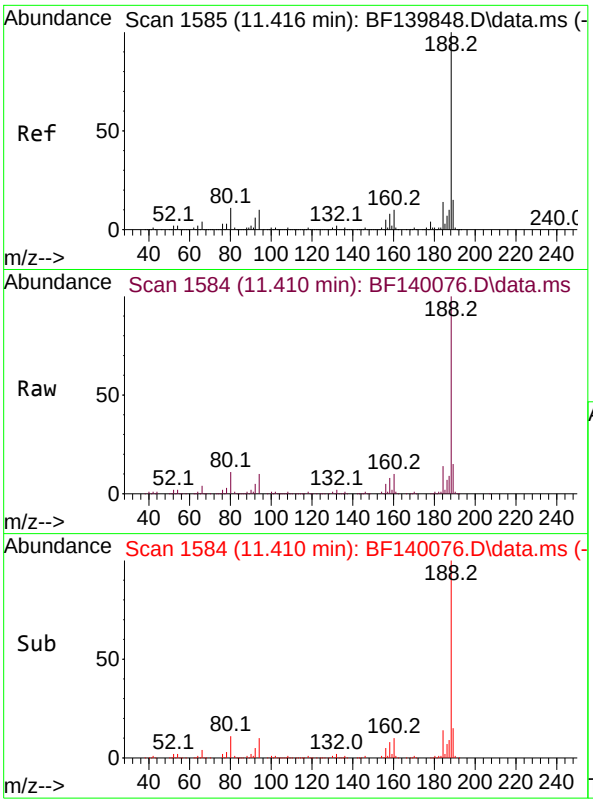


#45
2-Fluorobiphenyl
Concen: 87.121 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Tgt Ion:172 Resp: 1571487

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	43.0
170	23.9	19.1	28.7



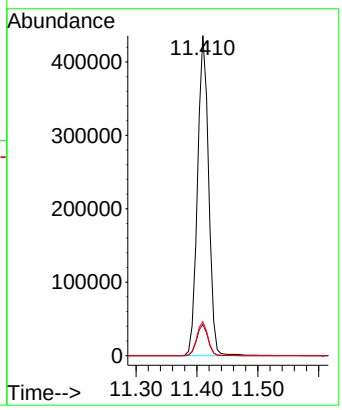


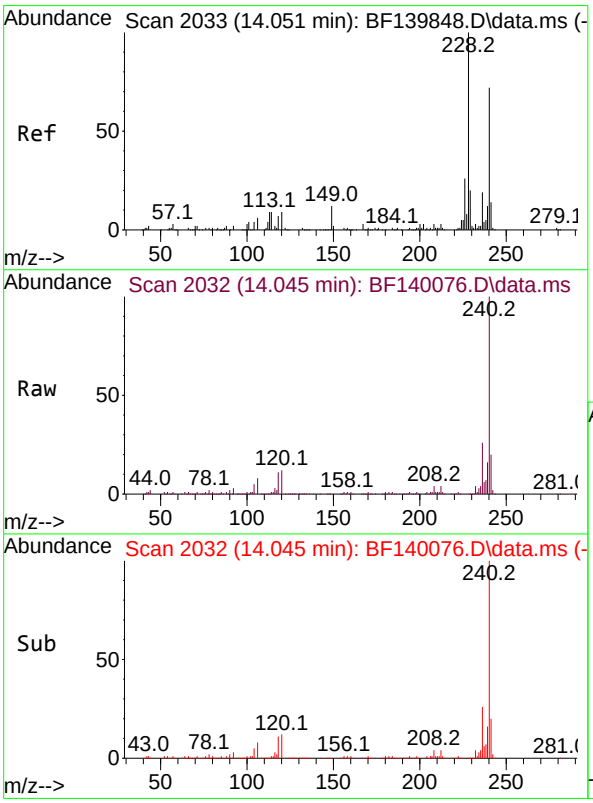
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Instrument :
BNA_F
ClientSampleId :
PB164444BL

Tgt Ion:188 Resp: 550598

Ion	Ratio	Lower	Upper
188	100		
94	9.8	7.9	11.9
80	10.6	9.0	13.4

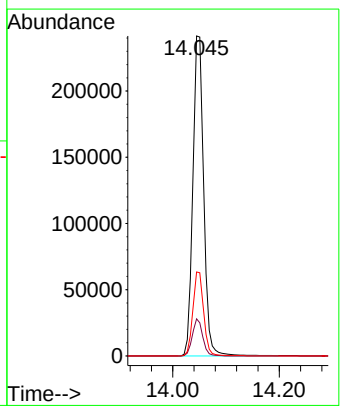


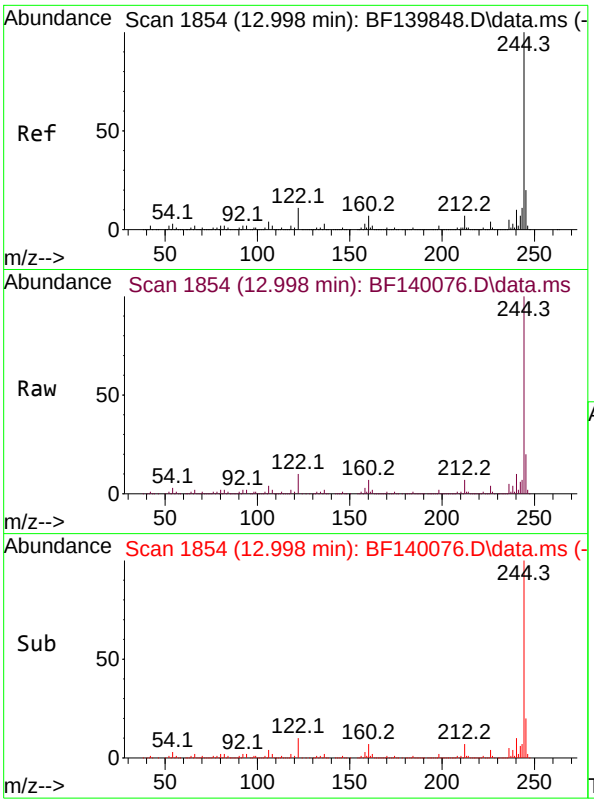


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Tgt Ion:240 Resp: 341644

Ion	Ratio	Lower	Upper
240	100		
120	11.6	9.4	14.2
236	26.2	20.9	31.3



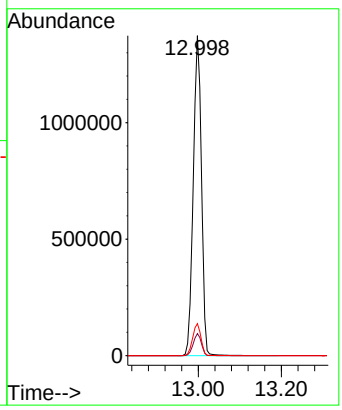


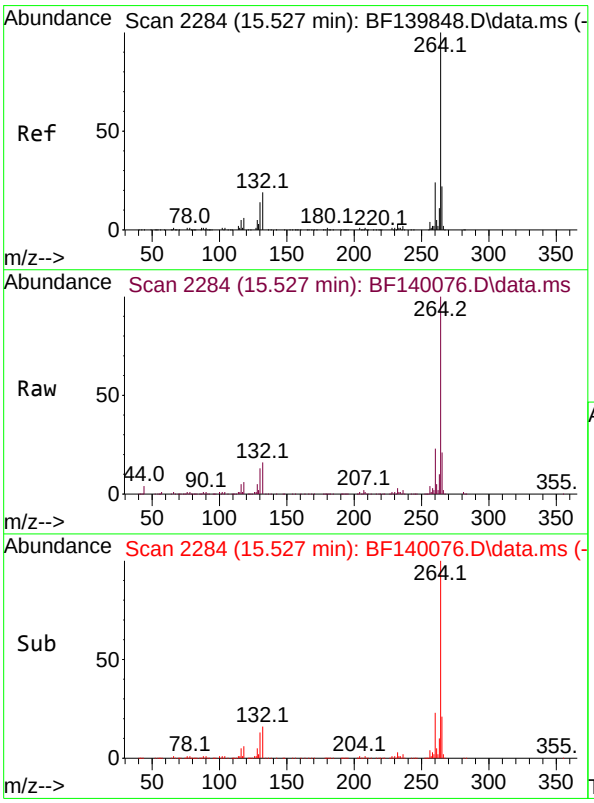
#79
Terphenyl-d14
Concen: 89.131 ng
RT: 12.998 min Scan# 18
Delta R.T. 0.000 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Instrument :
BNA_F
ClientSampleId :
PB164444BL

Tgt Ion:244 Resp: 1868766

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.7	8.5
122	10.0	8.6	13.0

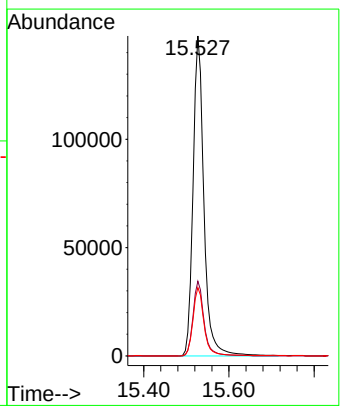




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF140076.D
Acq: 28 Oct 2024 10:01

Tgt Ion:264 Resp: 261224

Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.4	29.2
265	21.3	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140077.D
Acq On : 28 Oct 2024 10:29
Operator : RC/JU
Sample : PB164444BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 28 11:23:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164444BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	127868	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	495282	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	281323	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	511374	20.000	ng		0.00
76) Chrysene-d12	14.051	240	262593	20.000	ng		0.00
86) Perylene-d12	15.527	264	265684	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	983498	120.410	ng		0.02
7) Phenol-d6	6.516	99	1248557	118.025	ng		0.00
23) Nitrobenzene-d5	7.451	82	827399	92.589	ng		0.00
42) 2,4,6-Tribromophenol	10.722	330	372077	141.398	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1485083	87.245	ng		0.00
79) Terphenyl-d14	12.998	244	1542921	95.744	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.781	88	135793	35.657	ng		97
3) Pyridine	3.534	79	364598	38.624	ng		98
4) n-Nitrosodimethylamine	3.481	42	210444	41.494	ng	#	99
6) Aniline	6.551	93	381952	38.741	ng		100
8) 2-Chlorophenol	6.675	128	380511	45.570	ng		98
9) Benzaldehyde	6.440	77	75047	12.611	ng		96
10) Phenol	6.528	94	480470m	44.055	ng		
11) bis(2-Chloroethyl)ether	6.622	93	369586	43.843	ng		99
12) 1,3-Dichlorobenzene	6.834	146	409351	42.706	ng		99
13) 1,4-Dichlorobenzene	6.910	146	418487	43.700	ng		99
14) 1,2-Dichlorobenzene	7.057	146	399902	44.744	ng		98
15) Benzyl Alcohol	7.028	79	358350	46.179	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	620620	43.177	ng		98
17) 2-Methylphenol	7.139	107	315983	44.379	ng		98
18) Hexachloroethane	7.404	117	150834	44.169	ng		96
19) n-Nitroso-di-n-propyla...	7.304	70	281684	43.903	ng		97
20) 3+4-Methylphenols	7.292	107	391158	42.951	ng	#	77
22) Acetophenone	7.298	105	532350	43.883	ng		99
24) Nitrobenzene	7.469	77	425814	43.461	ng		99
25) Isophorone	7.710	82	773146	45.583	ng		99
26) 2-Nitrophenol	7.786	139	188880	51.101	ng		98
27) 2,4-Dimethylphenol	7.822	122	320582	52.015	ng		99
28) bis(2-Chloroethoxy)met...	7.916	93	456094	44.384	ng		99
29) 2,4-Dichlorophenol	8.028	162	318680	45.395	ng		98
30) 1,2,4-Trichlorobenzene	8.110	180	336007	43.256	ng		98
31) Naphthalene	8.192	128	1127006	44.121	ng		99
32) Benzoic acid	7.939	122	216873	40.344	ng		99
33) 4-Chloroaniline	8.239	127	159322	18.292	ng		98
34) Hexachlorobutadiene	8.310	225	219251	44.923	ng		98
35) Caprolactam	8.610	113	103223m	46.244	ng		
36) 4-Chloro-3-methylphenol	8.716	107	357353	45.972	ng		100
37) 2-Methylnaphthalene	8.886	142	713865	45.632	ng		99
38) 1-Methylnaphthalene	8.986	142	669536	43.622	ng		100
40) 1,2,4,5-Tetrachloroben...	9.051	216	338977	44.663	ng		99
41) Hexachlorocyclopentadiene	9.039	237	437259	165.576	ng		99
43) 2,4,6-Trichlorophenol	9.163	196	246720	45.915	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140077.D
Acq On : 28 Oct 2024 10:29
Operator : RC/JU
Sample : PB164444BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 28 11:23:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164444BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	247409	44.627	ng		98
46) 1,1'-Biphenyl	9.351	154	859069	43.865	ng		99
47) 2-Chloronaphthalene	9.375	162	677574	42.957	ng		100
48) 2-Nitroaniline	9.469	65	236689	49.063	ng		95
49) Acenaphthylene	9.792	152	1088844	47.749	ng		100
50) Dimethylphthalate	9.651	163	804892	45.933	ng		100
51) 2,6-Dinitrotoluene	9.710	165	179884	47.412	ng		99
52) Acenaphthene	9.963	154	735816	49.881	ng		99
53) 3-Nitroaniline	9.875	138	109911	28.091	ng		98
54) 2,4-Dinitrophenol	9.986	184	177437	109.904	ng	#	1
55) Dibenzofuran	10.133	168	947573	44.771	ng		100
56) 4-Nitrophenol	10.033	139	286527	95.186	ng		96
57) 2,4-Dinitrotoluene	10.116	165	244414	52.385	ng		99
58) Fluorene	10.480	166	727905	45.154	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.251	232	212306	48.851	ng		97
60) Diethylphthalate	10.351	149	791021	45.976	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	369072	45.336	ng		99
62) 4-Nitroaniline	10.498	138	180917	48.958	ng		97
63) Azobenzene	10.627	77	806460	44.214	ng		98
65) 4,6-Dinitro-2-methylph...	10.522	198	126328	60.564	ng		95
66) n-Nitrosodiphenylamine	10.586	169	680576	44.467	ng		100
67) 4-Bromophenyl-phenylether	10.957	248	237977	45.173	ng		98
68) Hexachlorobenzene	11.027	284	266322	44.950	ng		96
69) Atrazine	11.116	200	224215	54.080	ng		99
70) Pentachlorophenol	11.216	266	322659	89.731	ng		99
71) Phenanthrene	11.439	178	1074904	44.500	ng		100
72) Anthracene	11.492	178	1107771	47.004	ng		100
73) Carbazole	11.645	167	952915	43.475	ng		99
74) Di-n-butylphthalate	11.974	149	1167048	46.086	ng		99
75) Fluoranthene	12.627	202	1073772	43.973	ng		99
77) Benzidine	12.745	184	237729	55.056	ng		99
78) Pyrene	12.857	202	1070018	46.552	ng		100
80) Butylbenzylphthalate	13.468	149	358899	52.081	ng		99
81) Benzo(a)anthracene	14.045	228	824539	48.236	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	161964	32.497	ng		99
83) Chrysene	14.080	228	734278	46.850	ng		100
84) Bis(2-ethylhexyl)phtha...	14.027	149	433668	56.091	ng		100
85) Di-n-octyl phthalate	14.639	149	699522	49.743	ng		97
87) Indeno(1,2,3-cd)pyrene	17.033	276	839150	49.096	ng		98
88) Benzo(b)fluoranthene	15.098	252	705155	43.570	ng		99
89) Benzo(k)fluoranthene	15.127	252	711830	50.999	ng		99
90) Benzo(a)pyrene	15.468	252	674445	50.645	ng		99
91) Dibenzo(a,h)anthracene	17.051	278	679796	47.676	ng		98
92) Benzo(g,h,i)perylene	17.486	276	644416	45.246	ng		98

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

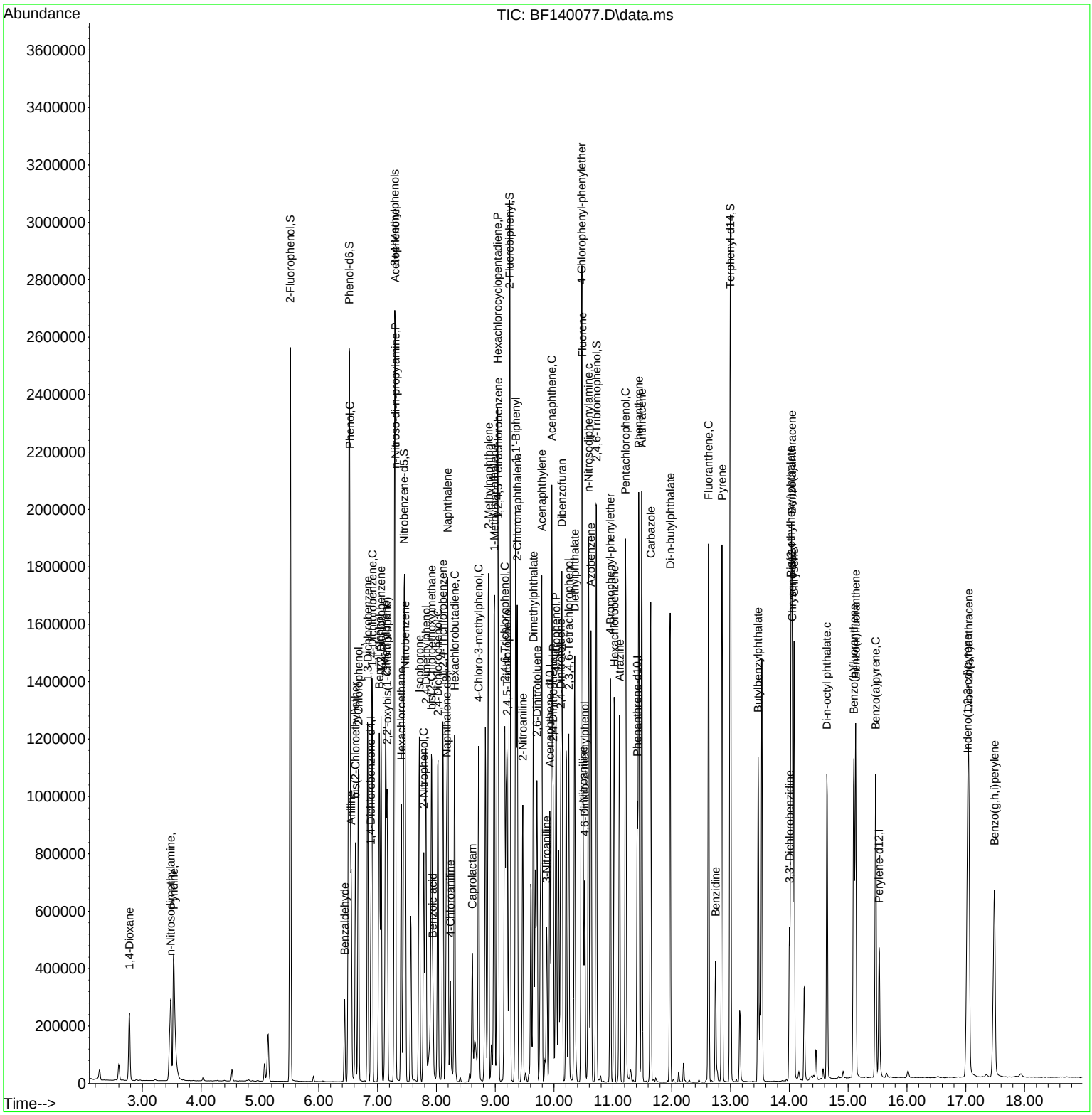
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140077.D
Acq On : 28 Oct 2024 10:29
Operator : RC/JU
Sample : PB164444BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 28 11:23:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB164444BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



Sample Results: **BF140092.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140092.D
Acq On : 28 Oct 2024 17:35
Operator : RC/JU
Sample : P4545-02MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 28 18:05:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
VNJ-215MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	113612	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	441889	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	241647	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	409717	20.000	ng	0.00
76) Chrysene-d12	14.051	240	203129	20.000	ng	0.00
86) Perylene-d12	15.527	264	263019	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	977769	134.729	ng	0.02
7) Phenol-d6	6.516	99	1208635	128.587	ng	0.00
23) Nitrobenzene-d5	7.451	82	821761	103.069	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	358712	158.702	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1444688	98.807	ng	0.00
79) Terphenyl-d14	12.998	244	1306207	104.783	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.881	88	126476	37.378	ng	# 82
3) Pyridine	3.587	79	189602	22.606	ng	98
4) n-Nitrosodimethylamine	3.516	42	187502	41.610	ng	# 97
6) Aniline	6.557	93	172468	19.688	ng	99
8) 2-Chlorophenol	6.675	128	370207	49.899	ng	99
9) Benzaldehyde	6.440	77	47671	9.016	ng	99
10) Phenol	6.528	94	445105m	45.933	ng	
11) bis(2-Chloroethyl)ether	6.628	93	351685	46.955	ng	99
12) 1,3-Dichlorobenzene	6.834	146	361312	42.425	ng	99
13) 1,4-Dichlorobenzene	6.910	146	367844	43.232	ng	99
14) 1,2-Dichlorobenzene	7.057	146	355662	44.788	ng	99
15) Benzyl Alcohol	7.028	79	347790	50.442	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	584140	45.739	ng	97
17) 2-Methylphenol	7.134	107	310465	49.075	ng	99
18) Hexachloroethane	7.404	117	128123	42.227	ng	96
19) n-Nitroso-di-n-propyla...	7.304	70	276089	48.431	ng	95
20) 3+4-Methylphenols	7.287	107	391991	48.443	ng	94
22) Acetophenone	7.298	105	508513	46.983	ng	98
24) Nitrobenzene	7.469	77	408928	46.780	ng	100
25) Isophorone	7.710	82	765851	50.609	ng	99
26) 2-Nitrophenol	7.787	139	189690	57.521	ng	97
27) 2,4-Dimethylphenol	7.816	122	314864	57.260	ng	98
28) bis(2-Chloroethoxy)met...	7.916	93	447113	48.767	ng	99
29) 2,4-Dichlorophenol	8.022	162	320220	51.126	ng	100
30) 1,2,4-Trichlorobenzene	8.110	180	316171	45.620	ng	100
31) Naphthalene	8.192	128	1066174	46.783	ng	100
32) Benzoic acid	7.898	122	84400	17.598	ng	95
33) 4-Chloroaniline	8.234	127	133599	17.192	ng	98
34) Hexachlorobutadiene	8.310	225	199456	45.805	ng	99
35) Caprolactam	8.604	113	83595m	41.975	ng	
36) 4-Chloro-3-methylphenol	8.716	107	363875	52.467	ng	99
37) 2-Methylnaphthalene	8.881	142	696991	49.937	ng	100
38) 1-Methylnaphthalene	8.981	142	647449	47.280	ng	99
40) 1,2,4,5-Tetrachloroben...	9.051	216	331367	50.829	ng	99
41) Hexachlorocyclopentadiene	9.034	237	362304	159.719	ng	100
43) 2,4,6-Trichlorophenol	9.157	196	253954	55.021	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140092.D
Acq On : 28 Oct 2024 17:35
Operator : RC/JU
Sample : P4545-02MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 28 18:05:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
VNJ-215MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	258939	54.376	ng		98
46) 1,1'-Biphenyl	9.345	154	856147	50.894	ng		100
47) 2-Chloronaphthalene	9.375	162	675337	49.845	ng		100
48) 2-Nitroaniline	9.463	65	241309	58.234	ng		97
49) Acenaphthylene	9.786	152	1080746	55.175	ng		99
50) Dimethylphthalate	9.645	163	822973	54.677	ng		99
51) 2,6-Dinitrotoluene	9.710	165	178715	54.837	ng		96
52) Acenaphthene	9.963	154	661593	52.213	ng		99
53) 3-Nitroaniline	9.875	138	131503	39.128	ng		98
54) 2,4-Dinitrophenol	9.980	184	60419	47.508	ng	#	1
55) Dibenzofuran	10.133	168	947629	52.125	ng		100
56) 4-Nitrophenol	10.033	139	254819	98.551	ng		98
57) 2,4-Dinitrotoluene	10.110	165	238568	59.527	ng		99
58) Fluorene	10.475	166	716535	51.747	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.245	232	201940	54.095	ng		98
60) Diethylphthalate	10.345	149	792061	53.595	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	368778	52.737	ng		98
62) 4-Nitroaniline	10.492	138	167633	52.812	ng		98
63) Azobenzene	10.628	77	807556	51.543	ng		97
65) 4,6-Dinitro-2-methylph...	10.516	198	60965	36.479	ng		94
66) n-Nitrosodiphenylamine	10.586	169	670666	54.692	ng		100
67) 4-Bromophenyl-phenylether	10.957	248	233236	55.258	ng		97
68) Hexachlorobenzene	11.022	284	255815	53.889	ng		98
69) Atrazine	11.110	200	212035	63.831	ng		99
70) Pentachlorophenol	11.216	266	224019	77.757	ng		99
71) Phenanthrene	11.439	178	1031591	53.303	ng		100
72) Anthracene	11.492	178	1041472	55.155	ng		100
73) Carbazole	11.639	167	882304	50.241	ng		100
74) Di-n-butylphthalate	11.969	149	1119955	55.199	ng		100
75) Fluoranthene	12.627	202	912791	46.655	ng		99
77) Benzidine	12.745	184	17706	5.301	ng		98
78) Pyrene	12.851	202	903442	50.811	ng		100
80) Butylbenzylphthalate	13.469	149	345144	64.747	ng		99
81) Benzo(a)anthracene	14.039	228	724089	54.760	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	185837	48.202	ng		100
83) Chrysene	14.080	228	701255	57.841	ng		99
84) Bis(2-ethylhexyl)phtha...	14.027	149	456891	76.394	ng		100
85) Di-n-octyl phthalate	14.639	149	793362	72.931	ng		98
87) Indeno(1,2,3-cd)pyrene	17.027	276	775966	45.859	ng		98
88) Benzo(b)fluoranthene	15.098	252	831851	51.919	ng		99
89) Benzo(k)fluoranthene	15.127	252	782283	56.615	ng		99
90) Benzo(a)pyrene	15.468	252	780503	59.203	ng		99
91) Dibenzo(a,h)anthracene	17.045	278	651067	46.124	ng		99
92) Benzo(g,h,i)perylene	17.474	276	529084	37.525	ng		99

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

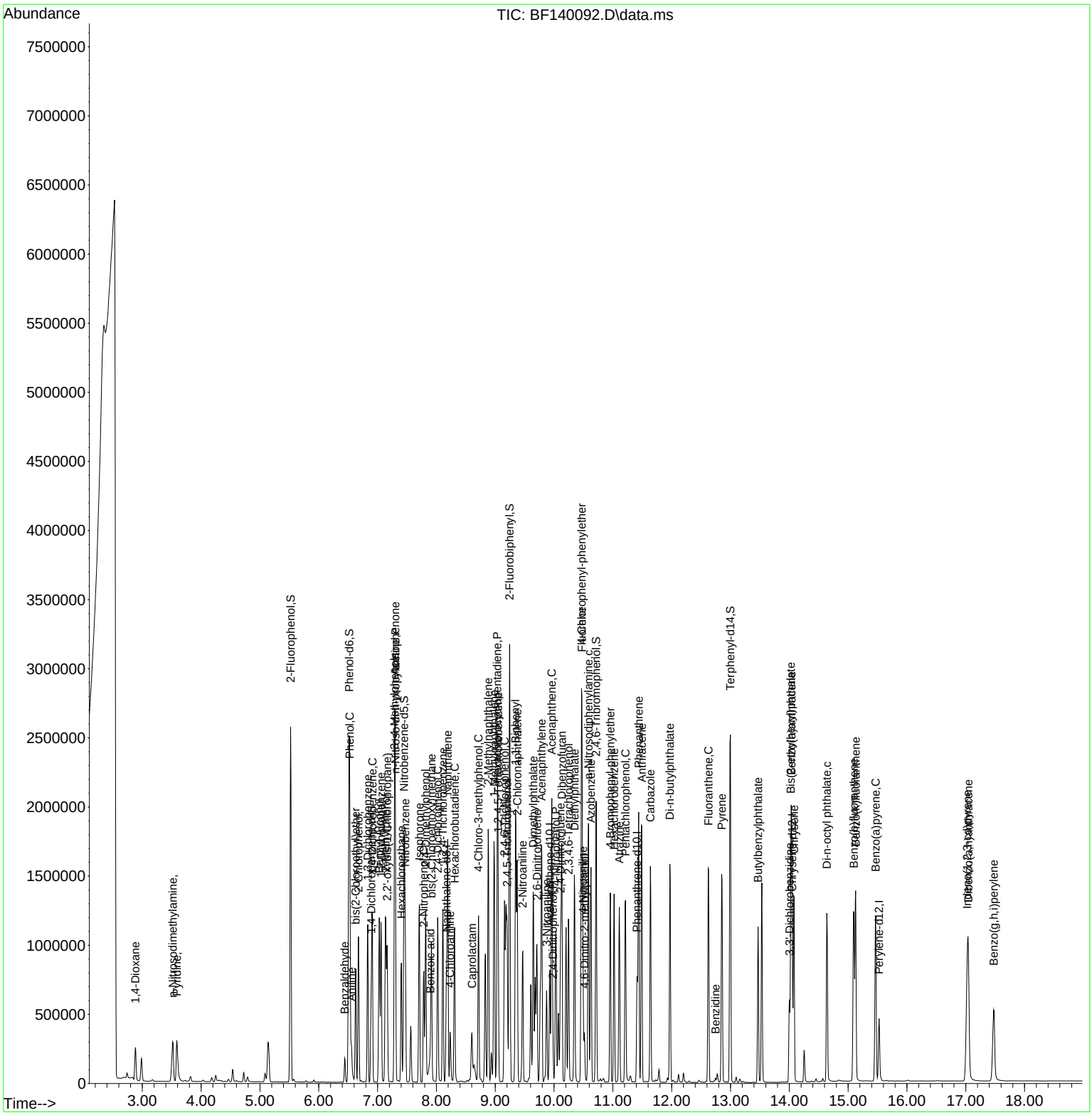
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140092.D
Acq On : 28 Oct 2024 17:35
Operator : RC/JU
Sample : P4545-02MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 28 18:05:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
VNJ-215MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140093.D
Acq On : 28 Oct 2024 18:03
Operator : RC/JU
Sample : P4545-02MSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 28 18:37:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
VNJ-215MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	111820	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	432287	20.000	ng	0.00
39) Acenaphthene-d10	9.927	164	236921	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	398949	20.000	ng	0.00
76) Chrysene-d12	14.051	240	204155	20.000	ng	0.00
86) Perylene-d12	15.527	264	256308	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	974076	136.371	ng	0.02
7) Phenol-d6	6.516	99	1219104	131.779	ng	0.00
23) Nitrobenzene-d5	7.451	82	820015	105.134	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	358251	161.659	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1443612	100.702	ng	0.00
79) Terphenyl-d14	12.998	244	1318745	105.257	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.881	88	128884	38.700	ng	# 81
3) Pyridine	3.587	79	206806	25.053	ng	98
4) n-Nitrosodimethylamine	3.516	42	189912	42.820	ng	# 98
6) Aniline	6.551	93	182449	21.161	ng	99
8) 2-Chlorophenol	6.675	128	372961	51.076	ng	97
9) Benzaldehyde	6.439	77	44949	8.637	ng	95
10) Phenol	6.528	94	448413m	47.016	ng	
11) bis(2-Chloroethyl)ether	6.628	93	356154	48.313	ng	99
12) 1,3-Dichlorobenzene	6.834	146	359207	42.853	ng	99
13) 1,4-Dichlorobenzene	6.904	146	367348	43.866	ng	99
14) 1,2-Dichlorobenzene	7.057	146	355848	45.529	ng	99
15) Benzyl Alcohol	7.028	79	349195	51.458	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	577398	45.935	ng	96
17) 2-Methylphenol	7.134	107	313004	50.269	ng	99
18) Hexachloroethane	7.404	117	129514	43.369	ng	95
19) n-Nitroso-di-n-propyla...	7.298	70	273178	48.688	ng	98
20) 3+4-Methylphenols	7.286	107	394617	49.549	ng	92
22) Acetophenone	7.298	105	510185	48.185	ng	97
24) Nitrobenzene	7.469	77	405962	47.472	ng	100
25) Isophorone	7.710	82	761382	51.431	ng	99
26) 2-Nitrophenol	7.786	139	190721	59.118	ng	96
27) 2,4-Dimethylphenol	7.816	122	316975	58.924	ng	99
28) bis(2-Chloroethoxy)met...	7.916	93	451618	50.352	ng	99
29) 2,4-Dichlorophenol	8.022	162	320207	52.260	ng	100
30) 1,2,4-Trichlorobenzene	8.110	180	314131	46.333	ng	100
31) Naphthalene	8.192	128	1064132	47.730	ng	100
32) Benzoic acid	7.904	122	123617	26.347	ng	98
33) 4-Chloroaniline	8.233	127	150937	19.854	ng	99
34) Hexachlorobutadiene	8.310	225	196299	46.081	ng	99
35) Caprolactam	8.604	113	85333m	43.800	ng	
36) 4-Chloro-3-methylphenol	8.716	107	365021	53.801	ng	98
37) 2-Methylnaphthalene	8.880	142	701854	51.402	ng	99
38) 1-Methylnaphthalene	8.980	142	652303	48.693	ng	100
40) 1,2,4,5-Tetrachloroben...	9.045	216	331879	51.923	ng	99
41) Hexachlorocyclopentadiene	9.033	237	348918	156.886	ng	99
43) 2,4,6-Trichlorophenol	9.157	196	253091	55.928	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140093.D
Acq On : 28 Oct 2024 18:03
Operator : RC/JU
Sample : P4545-02MSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 28 18:37:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
VNJ-215MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	253581	54.313	ng		98
46) 1,1'-Biphenyl	9.345	154	857737	52.006	ng		100
47) 2-Chloronaphthalene	9.375	162	680498	51.228	ng		99
48) 2-Nitroaniline	9.463	65	244814	60.258	ng		99
49) Acenaphthylene	9.786	152	1071538	55.796	ng		99
50) Dimethylphthalate	9.645	163	828465	56.139	ng		100
51) 2,6-Dinitrotoluene	9.710	165	177848	55.660	ng		95
52) Acenaphthene	9.963	154	668819	53.836	ng		99
53) 3-Nitroaniline	9.875	138	128514	39.002	ng		97
54) 2,4-Dinitrophenol	9.980	184	66396	52.460	ng	#	1
55) Dibenzofuran	10.133	168	950618	53.332	ng		99
56) 4-Nitrophenol	10.033	139	257304	101.497	ng		99
57) 2,4-Dinitrotoluene	10.110	165	238589	60.720	ng		99
58) Fluorene	10.475	166	727096	53.557	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.245	232	204109	55.766	ng		99
60) Diethylphthalate	10.345	149	792166	54.672	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	374542	54.630	ng		97
62) 4-Nitroaniline	10.492	138	166610	53.537	ng		98
63) Azobenzene	10.627	77	802948	52.271	ng		97
65) 4,6-Dinitro-2-methylph...	10.516	198	66402	40.805	ng		95
66) n-Nitrosodiphenylamine	10.586	169	673533	56.408	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	231386	56.299	ng		98
68) Hexachlorobenzene	11.022	284	257174	55.638	ng		98
69) Atrazine	11.110	200	211444	65.372	ng		99
70) Pentachlorophenol	11.216	266	237118	84.525	ng		99
71) Phenanthrene	11.439	178	1027335	54.516	ng		100
72) Anthracene	11.492	178	1041878	56.666	ng		100
73) Carbazole	11.639	167	877488	51.316	ng		100
74) Di-n-butylphthalate	11.969	149	1110467	56.209	ng		100
75) Fluoranthene	12.621	202	920478	48.318	ng		100
77) Benzidine	12.745	184	27530	8.201	ng		98
78) Pyrene	12.851	202	902116	50.481	ng		99
80) Butylbenzylphthalate	13.468	149	344594	64.319	ng		100
81) Benzo(a)anthracene	14.039	228	746125	56.143	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	188100	48.544	ng		99
83) Chrysene	14.074	228	707350	58.050	ng		100
84) Bis(2-ethylhexyl)phtha...	14.027	149	458667	76.306	ng		100
85) Di-n-octyl phthalate	14.639	149	799157	73.095	ng		97
87) Indeno(1,2,3-cd)pyrene	17.021	276	748376	45.387	ng		99
88) Benzo(b)fluoranthene	15.092	252	856677	54.869	ng		100
89) Benzo(k)fluoranthene	15.127	252	777981	57.778	ng		99
90) Benzo(a)pyrene	15.468	252	787766	61.319	ng		100
91) Dibenzo(a,h)anthracene	17.045	278	626364	45.536	ng		98
92) Benzo(g,h,i)perylene	17.474	276	506321	36.850	ng		99

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

Sample Results: **BF140093.D**

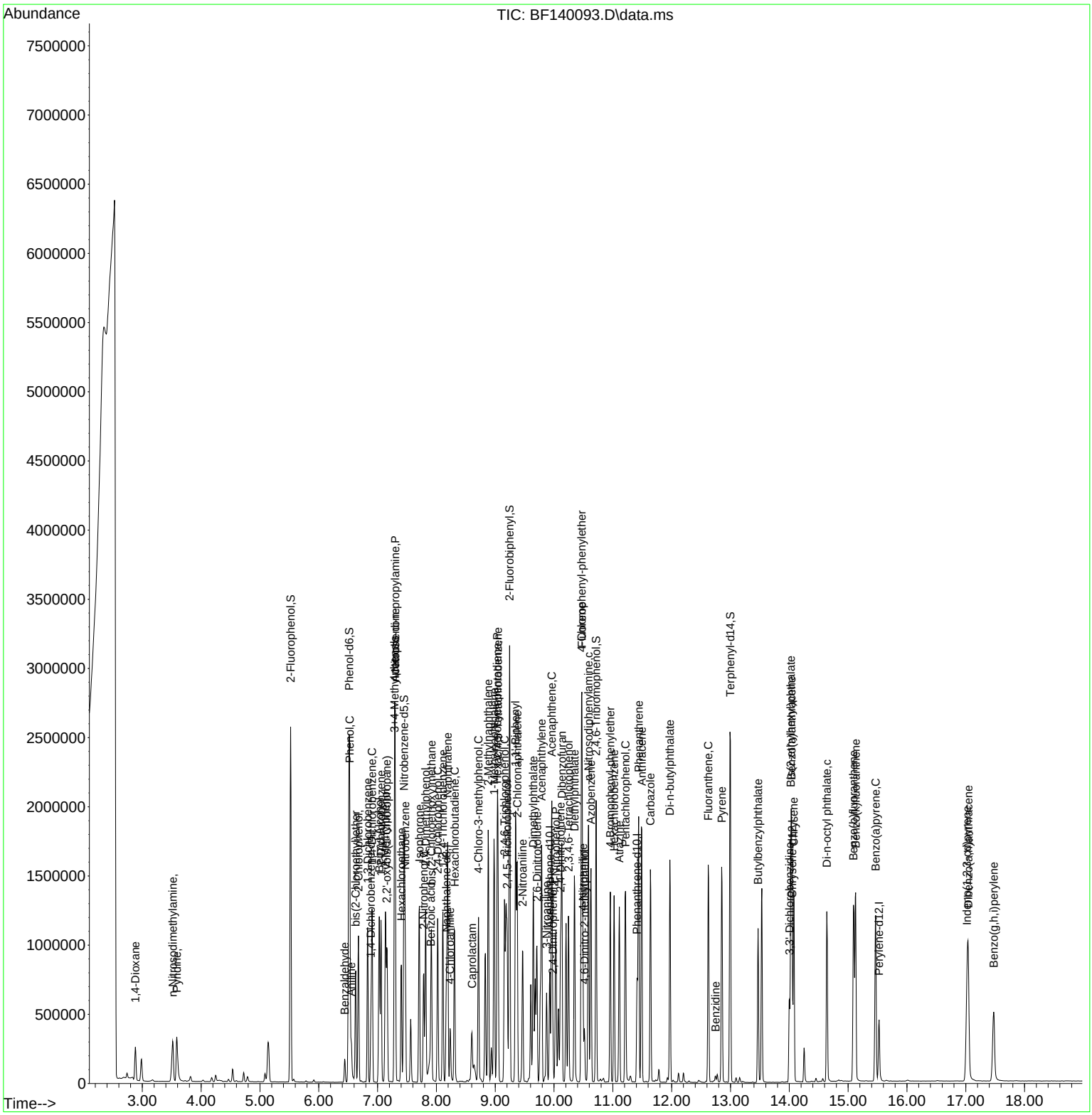
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102824\
Data File : BF140093.D
Acq On : 28 Oct 2024 18:03
Operator : RC/JU
Sample : P4545-02MSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 28 18:37:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
VNJ-215MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/29/2024
Supervised By :mohammad ahmed 10/30/2024



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

Manual Integration Report

Sequence:	BF101824	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICCC040	BF139848.D	Phenol	yogesh	10/21/2024 6:33:45 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC050	BF139849.D	Phenol	yogesh	10/21/2024 6:33:46 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC060	BF139850.D	Phenol	yogesh	10/21/2024 6:33:47 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC080	BF139851.D	Aniline	yogesh	10/21/2024 6:33:49 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICV040	BF139852.D	Phenol	yogesh	10/21/2024 6:33:50 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF102824	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140075.D	Phenol	yogesh	10/29/2024 1:35:05 AM	mohammad	10/29/2024 1:38:39 AM	Peak Integrated by Software
PB164444BS	BF140077.D	Caprolactam	yogesh	10/29/2024 1:35:06 AM	mohammad	10/29/2024 1:38:39 AM	Peak Integrated by Software
PB164444BS	BF140077.D	Phenol	yogesh	10/29/2024 1:35:06 AM	mohammad	10/29/2024 1:38:39 AM	Peak Integrated by Software
P4545-02MS	BF140092.D	Caprolactam	yogesh	10/29/2024 4:52:56 AM	mohammad	10/29/2024 1:38:39 AM	Peak Integrated by Software
P4545-02MS	BF140092.D	Phenol	yogesh	10/29/2024 4:52:56 AM	mohammad	10/29/2024 1:38:39 AM	Peak Integrated by Software
P4545-02MSD	BF140093.D	Caprolactam	yogesh	10/29/2024 1:35:09 AM	mohammad	10/29/2024 1:38:39 AM	Peak Integrated by Software
P4545-02MSD	BF140093.D	Phenol	yogesh	10/29/2024 1:35:09 AM	mohammad	10/29/2024 1:38:39 AM	Peak Integrated by Software

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM				
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM				
SubDirectory	BF101824	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF139843.D	18 Oct 2024 09:22	RC/JU	Ok
2	SSTDICC2.5	BF139844.D	18 Oct 2024 10:27	RC/JU	Ok
3	SSTDICC005	BF139845.D	18 Oct 2024 10:55	RC/JU	Ok
4	SSTDICC010	BF139846.D	18 Oct 2024 11:23	RC/JU	Ok
5	SSTDICC020	BF139847.D	18 Oct 2024 11:52	RC/JU	Ok
6	SSTDICCC040	BF139848.D	18 Oct 2024 12:20	RC/JU	Ok,M
7	SSTDICC050	BF139849.D	18 Oct 2024 12:49	RC/JU	Ok,M
8	SSTDICC060	BF139850.D	18 Oct 2024 13:17	RC/JU	Ok,M
9	SSTDICC080	BF139851.D	18 Oct 2024 13:46	RC/JU	Ok,M
10	SSTDICV040	BF139852.D	18 Oct 2024 14:19	RC/JU	Ok,M
11	PB164211BL	BF139853.D	18 Oct 2024 14:48	RC/JU	Ok
12	P4405-01	BF139854.D	18 Oct 2024 15:21	RC/JU	Ok
13	P4431-01	BF139855.D	18 Oct 2024 15:50	RC/JU	Ok,M
14	P4421-01	BF139856.D	18 Oct 2024 16:18	RC/JU	Ok,M
15	P4422-01	BF139857.D	18 Oct 2024 16:46	RC/JU	Ok
16	P4425-01	BF139858.D	18 Oct 2024 17:15	RC/JU	Ok
17	P4425-03	BF139859.D	18 Oct 2024 17:44	RC/JU	Ok
18	P4425-05	BF139860.D	18 Oct 2024 18:12	RC/JU	Ok
19	P4425-07	BF139861.D	18 Oct 2024 18:41	RC/JU	ReRun
20	P4425-09	BF139862.D	18 Oct 2024 19:09	RC/JU	ReRun
21	P4426-03	BF139863.D	18 Oct 2024 19:37	RC/JU	ReRun

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4426-07	BF139864.D	18 Oct 2024 20:05	RC/JU	ReRun
23	P4426-17	BF139865.D	18 Oct 2024 20:34	RC/JU	ReRun
24	P4426-11	BF139866.D	18 Oct 2024 21:02	RC/JU	ReRun

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102824

Review By	yogesh	Review On	10/29/2024 1:35:27 AM		
Supervise By	mohammad	Supervise On	10/29/2024 1:38:39 AM		
SubDirectory	BF102824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140074.D	28 Oct 2024 09:04	RC/JU	Ok
2	SSTDCCC040	BF140075.D	28 Oct 2024 09:32	RC/JU	Ok,M
3	PB164444BL	BF140076.D	28 Oct 2024 10:01	RC/JU	Ok
4	PB164444BS	BF140077.D	28 Oct 2024 10:29	RC/JU	Ok,M
5	PB164393TB	BF140078.D	28 Oct 2024 10:58	RC/JU	Ok
6	PB164444BL	BF140079.D	28 Oct 2024 11:31	RC/JU	Not Ok
7	P4547-04	BF140080.D	28 Oct 2024 11:59	RC/JU	Ok
8	P4547-08	BF140081.D	28 Oct 2024 12:27	RC/JU	Ok
9	P4561-04	BF140082.D	28 Oct 2024 12:55	RC/JU	Ok
10	P4561-08	BF140083.D	28 Oct 2024 13:23	RC/JU	Ok
11	P4578-06	BF140084.D	28 Oct 2024 13:51	RC/JU	Ok
12	P4578-08	BF140085.D	28 Oct 2024 14:19	RC/JU	Ok
13	P4567-04	BF140086.D	28 Oct 2024 14:47	RC/JU	Ok
14	P4567-08	BF140087.D	28 Oct 2024 15:15	RC/JU	Ok
15	P4567-12	BF140088.D	28 Oct 2024 15:43	RC/JU	Ok
16	P4574-03	BF140089.D	28 Oct 2024 16:11	RC/JU	Ok
17	P4574-06	BF140090.D	28 Oct 2024 16:39	RC/JU	Ok
18	P4545-02	BF140091.D	28 Oct 2024 17:07	RC/JU	Ok
19	P4545-02MS	BF140092.D	28 Oct 2024 17:35	RC/JU	Ok,M
20	P4545-02MSD	BF140093.D	28 Oct 2024 18:03	RC/JU	Ok,M
21	P4567-01	BF140094.D	28 Oct 2024 18:31	RC/JU	Ok

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102824

Review By	yogesh	Review On	10/29/2024 1:35:27 AM				
Supervise By	mohammad	Supervise On	10/29/2024 1:38:39 AM				
SubDirectory	BF102824	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4574-04	BF140095.D	28 Oct 2024 18:59	RC/JU	Ok
23	P4577-01	BF140096.D	28 Oct 2024 19:27	RC/JU	Ok,NS
24	P4566-01	BF140097.D	28 Oct 2024 19:55	RC/JU	Ok,NS
25	P4575-01	BF140098.D	28 Oct 2024 20:23	RC/JU	Ok,NS

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM				
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM				
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824		

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF139843.D	18 Oct 2024 09:22		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF139844.D	18 Oct 2024 10:27		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF139845.D	18 Oct 2024 10:55	Compound #9,32,54,65,85 removed from 5 ppm	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF139846.D	18 Oct 2024 11:23		RC/JU	Ok
5	SSTDICC020	SSTDICC020	BF139847.D	18 Oct 2024 11:52	Compound #54 Kept on LR	RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF139848.D	18 Oct 2024 12:20	The Calibration is Good For 8270 DOD Except com#77 and good for 625.1 Method	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BF139849.D	18 Oct 2024 12:49	Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BF139850.D	18 Oct 2024 13:17		RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BF139851.D	18 Oct 2024 13:46		RC/JU	Ok,M
10	SSTDICV040	SSTDICV040	BF139852.D	18 Oct 2024 14:19		RC/JU	Ok,M
11	PB164211BL	PB164211BL	BF139853.D	18 Oct 2024 14:48		RC/JU	Ok
12	P4405-01	MH-121	BF139854.D	18 Oct 2024 15:21		RC/JU	Ok
13	P4431-01	72-11934	BF139855.D	18 Oct 2024 15:50		RC/JU	Ok,M
14	P4421-01	EO-02-101624	BF139856.D	18 Oct 2024 16:18		RC/JU	Ok,M
15	P4422-01	EO-01-101624	BF139857.D	18 Oct 2024 16:46		RC/JU	Ok
16	P4425-01	TP-1	BF139858.D	18 Oct 2024 17:15		RC/JU	Ok

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	P4425-03	TP-2	BF139859.D	18 Oct 2024 17:44		RC/JU	Ok
18	P4425-05	TP-3	BF139860.D	18 Oct 2024 18:12		RC/JU	Ok
19	P4425-07	TP-4	BF139861.D	18 Oct 2024 18:41	Internal Standrad Fail	RC/JU	ReRun
20	P4425-09	TP-5	BF139862.D	18 Oct 2024 19:09	Internal Standrad Fail	RC/JU	ReRun
21	P4426-03	PAD-2	BF139863.D	18 Oct 2024 19:37	Internal Standrad Fail	RC/JU	ReRun
22	P4426-07	PAD-4	BF139864.D	18 Oct 2024 20:05	Internal Standrad Fail	RC/JU	ReRun
23	P4426-17	PAD-9	BF139865.D	18 Oct 2024 20:34	Internal Standard Fail	RC/JU	ReRun
24	P4426-11	PAD-6	BF139866.D	18 Oct 2024 21:02	Internal Standard Fail	RC/JU	ReRun

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102824

Review By	yogesh	Review On	10/29/2024 1:35:27 AM		
Supervise By	mohammad	Supervise On	10/29/2024 1:38:39 AM		
SubDirectory	BF102824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140074.D	28 Oct 2024 09:04		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140075.D	28 Oct 2024 09:32		RC/JU	Ok,M
3	PB164444BL	PB164444BL	BF140076.D	28 Oct 2024 10:01		RC/JU	Ok
4	PB164444BS	PB164444BS	BF140077.D	28 Oct 2024 10:29		RC/JU	Ok,M
5	PB164393TB	PB164393TB	BF140078.D	28 Oct 2024 10:58		RC/JU	Ok
6	PB164444BL	PB164444BL	BF140079.D	28 Oct 2024 11:31	Already analysed with ok status	RC/JU	Not Ok
7	P4547-04	BP-F-21	BF140080.D	28 Oct 2024 11:59		RC/JU	Ok
8	P4547-08	BP-F-20	BF140081.D	28 Oct 2024 12:27		RC/JU	Ok
9	P4561-04	BP-F-19	BF140082.D	28 Oct 2024 12:55		RC/JU	Ok
10	P4561-08	BP-F-18	BF140083.D	28 Oct 2024 13:23		RC/JU	Ok
11	P4578-06	WB-305-BOT	BF140084.D	28 Oct 2024 13:51		RC/JU	Ok
12	P4578-08	WB-305-BOT-1	BF140085.D	28 Oct 2024 14:19		RC/JU	Ok
13	P4567-04	WC-1	BF140086.D	28 Oct 2024 14:47		RC/JU	Ok
14	P4567-08	WC-2	BF140087.D	28 Oct 2024 15:15		RC/JU	Ok
15	P4567-12	WC-3	BF140088.D	28 Oct 2024 15:43		RC/JU	Ok
16	P4574-03	GRAVEL-1	BF140089.D	28 Oct 2024 16:11		RC/JU	Ok
17	P4574-06	GRAVEL-2	BF140090.D	28 Oct 2024 16:39		RC/JU	Ok
18	P4545-02	VNJ-215	BF140091.D	28 Oct 2024 17:07		RC/JU	Ok

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102824

Review By	yogesh	Review On	10/29/2024 1:35:27 AM		
Supervise By	mohammad	Supervise On	10/29/2024 1:38:39 AM		
SubDirectory	BF102824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4545-02MS	VNJ-215MS	BF140092.D	28 Oct 2024 17:35		RC/JU	Ok,M
20	P4545-02MSD	VNJ-215MSD	BF140093.D	28 Oct 2024 18:03		RC/JU	Ok,M
21	P4567-01	WC-1	BF140094.D	28 Oct 2024 18:31		RC/JU	Ok
22	P4574-04	GRAVEL-2	BF140095.D	28 Oct 2024 18:59		RC/JU	Ok
23	P4577-01	TR-05-102524	BF140096.D	28 Oct 2024 19:27		RC/JU	Ok,NS
24	P4566-01	HD-01-102524	BF140097.D	28 Oct 2024 19:55		RC/JU	Ok,NS
25	P4575-01	PL-02-102424	BF140098.D	28 Oct 2024 20:23		RC/JU	Ok,NS

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164393

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-4

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 114771

Start Prep Date : 10/25/2024 **Time :** 17:40

End Prep Date : 10/26/2024 **Time :** 10:37

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
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

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP108622
HCL-TCLP,1N	N/A	WP108584
HNO3-TCLP,1N	N/A	WP108585
pH Strips	N/A	W1931,W1934,W2350,W2755
pH Strips	N/A	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	23091
120ml Plastic bottle	N/A	21029
1:1 HNO3	MP81119	N/A

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. Tumbler T-1 / T-2 CHECKED,30 RPM. Particle size reduction is not required. p4578-08 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/26/24 11:45	JP TCLP Room	JP [illegible]
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164393

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4452-03	ETGI-285	01	100.03	2000	N/A	N/A	N/A	11.0	1.5	T-1
P4545-02	VNJ-215	02	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4547-04	BP-F-21	03	100.01	2000	N/A	N/A	N/A	4.5	1.0	T-1
P4547-08	BP-F-20	04	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4561-04	BP-F-19	05	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4561-08	BP-F-18	06	100.04	2000	N/A	N/A	N/A	4.0	1.0	T-1
P4567-04	WC-1	07	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4567-08	WC-2	08	100.03	2000	N/A	N/A	N/A	7.6	1.0	T-1
P4567-12	WC-3	09	100.04	2000	N/A	N/A	N/A	7.6	1.5	T-1
P4574-03	GRAVEL-1	10	100.02	2000	N/A	N/A	N/A	4.5	1.0	T-1
P4574-06	GRAVEL-2	11	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
P4574-08	CONCRETE-1	12	100.02	2000	N/A	N/A	N/A	10.5	1.0	T-2
P4574-10	CONCRETE-2	13	100.02	2000	N/A	N/A	N/A	10.5	1.5	T-2
P4574-12	CONCRETE-3	14	100.03	2000	N/A	N/A	N/A	11.0	1.0	T-2
P4578-06	WB-305-BOT	15	100.04	2000	N/A	N/A	N/A	5.8	1.5	T-2
P4578-08	WB-305-BOT-1	16	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-2
PB164393TB	LEB393	17	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P4452-03	ETGI-285	N/A	N/A	N/A	N/A	100	N/A
P4545-02	VNJ-215	N/A	N/A	N/A	N/A	100	N/A
P4547-04	BP-F-21	N/A	N/A	N/A	N/A	100	N/A
P4547-08	BP-F-20	N/A	N/A	N/A	N/A	100	N/A
P4561-04	BP-F-19	N/A	N/A	N/A	N/A	100	N/A
P4561-08	BP-F-18	N/A	N/A	N/A	N/A	100	N/A
P4567-04	WC-1	N/A	N/A	N/A	N/A	100	N/A
P4567-08	WC-2	N/A	N/A	N/A	N/A	100	N/A
P4567-12	WC-3	N/A	N/A	N/A	N/A	100	N/A
P4574-03	GRAVEL-1	N/A	N/A	N/A	N/A	100	N/A
P4574-06	GRAVEL-2	N/A	N/A	N/A	N/A	100	N/A
P4574-08	CONCRETE-1	N/A	N/A	N/A	N/A	100	N/A
P4574-10	CONCRETE-2	N/A	N/A	N/A	N/A	100	N/A
P4574-12	CONCRETE-3	N/A	N/A	N/A	N/A	100	N/A
P4578-06	WB-305-BOT	N/A	N/A	N/A	N/A	100	N/A
P4578-08	WB-305-BOT-1	N/A	N/A	N/A	N/A	100	N/A
PB164393TB	LEB393	N/A	N/A	N/A	N/A	N/A	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB164393

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
P4452-03	ETGI-285	5.02	96.5	11.0	4.0	#1	4.93
P4545-02	VNJ-215	5.02	96.5	7.6	2.5	#1	4.93
P4547-04	BP-F-21	5.00	96.5	6.2	2.0	#1	4.93
P4547-08	BP-F-20	5.03	96.5	8.2	3.0	#1	4.93
P4561-04	BP-F-19	5.02	96.5	7.6	2.5	#1	4.93
P4561-08	BP-F-18	5.02	96.5	7.0	2.5	#1	4.93
P4567-04	WC-1	5.03	96.5	9.1	4.0	#1	4.93
P4567-08	WC-2	5.02	96.5	9.5	4.0	#1	4.93
P4567-12	WC-3	5.02	96.5	7.2	3.0	#1	4.93
P4574-03	GRAVEL-1	5.02	96.5	6.0	2.0	#1	4.93
P4574-06	GRAVEL-2	5.03	96.5	5.6	1.5	#1	4.93
P4574-08	CONCRETE-1	5.02	96.5	11.0	4.0	#1	4.93
P4574-10	CONCRETE-2	5.03	96.5	11.0	4.0	#1	4.93
P4574-12	CONCRETE-3	5.02	96.5	11.5	4.5	#1	4.93
P4578-06	WB-305-BOT	5.03	96.5	7.6	2.5	#1	4.93
P4578-08	WB-305-BOT-1	5.02	96.5	8.2	3.0	#1	4.93
PB164393TB	LEB393	N/A	N/A	N/A	N/A	#1	4.93

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp p4545 **WorkList ID :** 184760 **Department :** TCLP Extraction **Date :** 10-25-2024 07:58:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4452-03	ETGI-285	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/18/2024	1311
P4545-02	VNJ-215	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K61	10/24/2024	1311
P4547-04	BP-F-21	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/24/2024	1311
P4547-08	BP-F-20	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K51	10/24/2024	1311
P4561-04	BP-F-19	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4561-08	BP-F-18	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4567-04	WC-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K61	10/25/2024	1311
P4567-08	WC-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K61	10/25/2024	1311
P4567-12	WC-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K61	10/25/2024	1311
P4574-03	GRAVEL-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4574-06	GRAVEL-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4574-08	CONCRETE-1	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4574-10	CONCRETE-2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4574-12	CONCRETE-3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	K63	10/25/2024	1311
P4578-06	WB-305-BOT	Solid	TCLP Extraction	Cool 4 deg C	PORT06	K63	10/25/2024	1311
P4578-08	WB-305-BOT-1	Solid	TCLP Extraction	Cool 4 deg C	PORT06	K63	10/25/2024	1311

Date/Time 10/25/24 17:25
Raw Sample Received by: JD (w/ C)
Raw Sample Relinquished by: J.C (Sm)

Date/Time 10/25/24 19:30
Raw Sample Received by: J. C (Sm)
Raw Sample Relinquished by: JD w/ C

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164444

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: N/A

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 10/26/2024

Extraction Start Time : 12:10

Extraction End Date : 10/26/2024

Extraction End Time : 17:10

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6630
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3822
Baked Na2SO4	N/A	EP2551
10N NaoH	N/A	EP2550
H2SO4 1:1	N/A	EP2548
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 & >11with 10 N NaOH.

KD Bath ID: Water bath -01,02

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/26/24	RP (Ext-Lab)	RC/SVOC
17:15	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164444

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 10/26/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164393TB	PB164393TB	TCLP BNA	100	6	RUPESH	rajesh	1			SEP-01
PB164444BL	PB164444BL	TCLP BNA	1000	6	RUPESH	rajesh	1			2
PB164444BS	PB164444BS	TCLP BNA	1000	6	RUPESH	rajesh	1			3
P4545-02	VNJ-215	TCLP BNA	100	6	RUPESH	rajesh	1	A		4
P4545-02MS	VNJ-215MS	TCLP BNA	100	6	RUPESH	rajesh	1	A		5
P4545-02MSD	VNJ-215MSD	TCLP BNA	100	6	RUPESH	rajesh	1	A		6
P4547-04	BP-F-21	TCLP BNA	100	6	RUPESH	rajesh	1	A		7
P4547-08	BP-F-20	TCLP BNA	100	6	RUPESH	rajesh	1	A		8
P4561-04	BP-F-19	TCLP BNA	100	6	RUPESH	rajesh	1	A		9
P4561-08	BP-F-18	TCLP BNA	100	6	RUPESH	rajesh	1	A		10
P4567-04	WC-1	TCLP BNA	100	6	RUPESH	rajesh	1	A		11
P4567-08	WC-2	TCLP BNA	100	6	RUPESH	rajesh	1	A		12
P4567-12	WC-3	TCLP BNA	100	6	RUPESH	rajesh	1	A		13
P4574-03	GRAVEL-1	TCLP BNA	100	6	RUPESH	rajesh	1	A		14
P4574-06	GRAVEL-2	TCLP BNA	100	6	RUPESH	rajesh	1	A		15
P4578-06	WB-305-BOT	TCLP BNA	100	6	RUPESH	rajesh	1	A		16
P4578-08	WB-305-BOT-1	TCLP BNA	100	6	RUPESH	rajesh	1	A		17

* **Extracts relinquished on the same date as received.**

10/26/24

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB164393

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P4452-03	ETGI-285	01	100.03	2000	N/A	N/A	N/A	11.0	1.5	T-1
P4545-02	VNJ-215	02	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
P4547-04	BP-F-21	03	100.01	2000	N/A	N/A	N/A	4.5	1.0	T-1
P4547-08	BP-F-20	04	100.02	2000	N/A	N/A	N/A	6.0	1.0	T-1
P4561-04	BP-F-19	05	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
P4561-08	BP-F-18	06	100.04	2000	N/A	N/A	N/A	4.0	1.0	T-1
P4567-04	WC-1	07	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-1
P4567-08	WC-2	08	100.03	2000	N/A	N/A	N/A	7.6	1.0	T-1
P4567-12	WC-3	09	100.04	2000	N/A	N/A	N/A	7.6	1.5	T-1
P4574-03	GRAVEL-1	10	100.02	2000	N/A	N/A	N/A	4.5	1.0	T-1
P4574-06	GRAVEL-2	11	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
P4574-08	CONCRETE-1	12	100.02	2000	N/A	N/A	N/A	10.5	1.0	T-2
P4574-10	CONCRETE-2	13	100.02	2000	N/A	N/A	N/A	10.5	1.5	T-2
P4574-12	CONCRETE-3	14	100.03	2000	N/A	N/A	N/A	11.0	1.0	T-2
P4578-06	WB-305-BOT	15	100.04	2000	N/A	N/A	N/A	5.8	1.5	T-2
P4578-08	WB-305-BOT-1	16	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-2
PB164393TB	LEB393	17	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2

10/26/2024

11:50

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

LAB CHRONICLE

OrderID:	P4578	**OrderDate:**	10/25/2024 3:58:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K63,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4578-06	**WB-305-BOT**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP BNA	8270E		10/26/24	10/28/24	
P4578-08	**WB-305-BOT-1**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP BNA	8270E		10/26/24	10/28/24	