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

Hit Summary Sheet
SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**TENNANT-PAD-2-3-STOCKPILE**							
P4663-02	TENNANT-PAD-2-3-ST(	SOIL	Fluoranthene	180.000	J	89.8	190	ug/Kg
P4663-02	TENNANT-PAD-2-3-ST(	SOIL	Pyrene	160.000	J	91.2	190	ug/Kg
P4663-02	TENNANT-PAD-2-3-ST(	SOIL	Benzo(a)anthracene	94.300	J	88.7	190	ug/Kg
P4663-02	TENNANT-PAD-2-3-ST(	SOIL	Chrysene	100.000	J	87.4	190	ug/Kg
P4663-02	TENNANT-PAD-2-3-ST(	SOIL	Benzo(b)fluoranthene	120.000	J	89.2	190	ug/Kg
			Total Svoc :	**654.30**				
			Total Concentration:	**654.30**				

SAMPLE DATA

Raw Data: **BE101450.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.9
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101450.D	1	11/01/24 09:43	11/01/24 15:45	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	360	ug/Kg
108-95-2	Phenol	91.1	U	91.1	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	92.0	U	92.0	190	ug/Kg
95-57-8	2-Chlorophenol	91.8	U	91.8	190	ug/Kg
95-48-7	2-Methylphenol	88.6	U	88.6	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	99.9	U	99.9	190	ug/Kg
98-86-2	Acetophenone	95.5	U	95.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	87.7	U	87.7	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	44.3	U	44.3	88.0	ug/Kg
67-72-1	Hexachloroethane	91.2	U	91.2	190	ug/Kg
98-95-3	Nitrobenzene	99.8	U	99.8	190	ug/Kg
78-59-1	Isophorone	93.0	U	93.0	190	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	100	U	100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	94.3	U	94.3	190	ug/Kg
120-83-2	2,4-Dichlorophenol	83.0	U	83.0	190	ug/Kg
91-20-3	Naphthalene	90.8	U	90.8	190	ug/Kg
106-47-8	4-Chloroaniline	90.8	U	90.8	190	ug/Kg
87-68-3	Hexachlorobutadiene	91.6	U	91.6	190	ug/Kg
105-60-2	Caprolactam	95.4	U	95.4	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	85.2	U	85.2	190	ug/Kg
91-57-6	2-Methylnaphthalene	90.7	U	90.7	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170	UQ	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	78.5	U	78.5	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	81.4	U	81.4	190	ug/Kg
92-52-4	1,1-Biphenyl	96.1	U	96.1	190	ug/Kg
91-58-7	2-Chloronaphthalene	91.6	U	91.6	190	ug/Kg
88-74-4	2-Nitroaniline	100	U	100	190	ug/Kg
131-11-3	Dimethylphthalate	89.8	U	89.8	190	ug/Kg

Raw Data: **BE101450.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.9
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101450.D	1	11/01/24 09:43	11/01/24 15:45	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	95.1	U	95.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	91.5	U	91.5	190	ug/Kg
99-09-2	3-Nitroaniline	98.1	UQ	98.1	190	ug/Kg
83-32-9	Acenaphthene	89.2	U	89.2	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	360	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	360	ug/Kg
132-64-9	Dibenzofuran	92.8	U	92.8	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	94.8	U	94.8	190	ug/Kg
84-66-2	Diethylphthalate	88.1	U	88.1	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	94.1	U	94.1	190	ug/Kg
86-73-7	Fluorene	94.0	U	94.0	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	89.7	U	89.7	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	86.7	U	86.7	190	ug/Kg
118-74-1	Hexachlorobenzene	93.4	U	93.4	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	85.0	U	85.0	360	ug/Kg
85-01-8	Phenanthrene	92.3	U	92.3	190	ug/Kg
120-12-7	Anthracene	92.8	U	92.8	190	ug/Kg
86-74-8	Carbazole	88.3	U	88.3	190	ug/Kg
84-74-2	Di-n-butylphthalate	92.7	U	92.7	190	ug/Kg
206-44-0	Fluoranthene	180	J	89.8	190	ug/Kg
129-00-0	Pyrene	160	J	91.2	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	U	110	360	ug/Kg
56-55-3	Benzo(a)anthracene	94.3	J	88.7	190	ug/Kg
218-01-9	Chrysene	100	J	87.4	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	120	J	89.2	190	ug/Kg

Raw Data: **BE101450.D**

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.9
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101450.D	1	11/01/24 09:43	11/01/24 15:45	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	90.8	U	90.8	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	85.9	U	85.9	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	89.3	U	89.3	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	88.1	U	88.1	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	95.4	U	95.4	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	82.1	U	82.1	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	104		30 (18) - 130 (112)	69%	SPK: 150
13127-88-3	Phenol-d6	98.8		30 (15) - 130 (107)	66%	SPK: 150
4165-60-0	Nitrobenzene-d5	64.7		30 (18) - 130 (107)	65%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.6		30 (20) - 130 (109)	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	101		30 (10) - 130 (116)	67%	SPK: 150
1718-51-0	Terphenyl-d14	73.9		30 (10) - 130 (105)	74%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	90700	7.573			
1146-65-2	Naphthalene-d8	397000	10.34			
15067-26-2	Acenaphthene-d10	265000	14.182			
1517-22-2	Phenanthrene-d10	598000	16.92			
1719-03-5	Chrysene-d12	669000	21.08			
1520-96-3	Perylene-d12	876000	23.378			

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: **BF140212.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.7
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140212.D	1	11/01/24 09:43	11/01/24 15:47	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	360	ug/Kg
108-95-2	Phenol	90.2	U	90.2	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	91.1	U	91.1	190	ug/Kg
95-57-8	2-Chlorophenol	90.9	U	90.9	190	ug/Kg
95-48-7	2-Methylphenol	87.7	U	87.7	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	98.9	U	98.9	190	ug/Kg
98-86-2	Acetophenone	94.6	U	94.6	190	ug/Kg
65794-96-9	3+4-Methylphenols	86.8	U	86.8	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	43.9	U	43.9	87.1	ug/Kg
67-72-1	Hexachloroethane	90.3	U	90.3	190	ug/Kg
98-95-3	Nitrobenzene	98.8	U	98.8	190	ug/Kg
78-59-1	Isophorone	92.1	U	92.1	190	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	100	U	100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	93.4	U	93.4	190	ug/Kg
120-83-2	2,4-Dichlorophenol	82.2	U	82.2	190	ug/Kg
91-20-3	Naphthalene	89.9	U	89.9	190	ug/Kg
106-47-8	4-Chloroaniline	89.9	U	89.9	190	ug/Kg
87-68-3	Hexachlorobutadiene	90.7	U	90.7	190	ug/Kg
105-60-2	Caprolactam	94.5	U	94.5	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	84.3	U	84.3	190	ug/Kg
91-57-6	2-Methylnaphthalene	89.8	U	89.8	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170	UQ	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	77.7	U	77.7	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	80.5	U	80.5	190	ug/Kg
92-52-4	1,1-Biphenyl	95.1	U	95.1	190	ug/Kg
91-58-7	2-Chloronaphthalene	90.7	U	90.7	190	ug/Kg
88-74-4	2-Nitroaniline	100	U	100	190	ug/Kg
131-11-3	Dimethylphthalate	88.9	U	88.9	190	ug/Kg

Raw Data: **BF140212.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.7
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140212.D	1	11/01/24 09:43	11/01/24 15:47	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	94.1	U	94.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	90.5	U	90.5	190	ug/Kg
99-09-2	3-Nitroaniline	97.1	UQ	97.1	190	ug/Kg
83-32-9	Acenaphthene	88.3	U	88.3	190	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	360	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	360	ug/Kg
132-64-9	Dibenzofuran	91.9	U	91.9	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	93.8	U	93.8	190	ug/Kg
84-66-2	Diethylphthalate	87.2	U	87.2	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	93.2	U	93.2	190	ug/Kg
86-73-7	Fluorene	93.1	U	93.1	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	88.8	U	88.8	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	85.9	U	85.9	190	ug/Kg
118-74-1	Hexachlorobenzene	92.5	U	92.5	190	ug/Kg
1912-24-9	Atrazine	99.5	U	99.5	190	ug/Kg
87-86-5	Pentachlorophenol	84.1	U	84.1	360	ug/Kg
85-01-8	Phenanthrene	91.4	U	91.4	190	ug/Kg
120-12-7	Anthracene	91.9	U	91.9	190	ug/Kg
86-74-8	Carbazole	87.4	U	87.4	190	ug/Kg
84-74-2	Di-n-butylphthalate	91.7	U	91.7	190	ug/Kg
206-44-0	Fluoranthene	88.9	U	88.9	190	ug/Kg
129-00-0	Pyrene	90.3	U	90.3	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	U	110	360	ug/Kg
56-55-3	Benzo(a)anthracene	87.8	U	87.8	190	ug/Kg
218-01-9	Chrysene	86.5	U	86.5	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	99.0	U	99.0	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	88.3	U	88.3	190	ug/Kg

Raw Data: **BF140212.D**

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.7
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140212.D	1	11/01/24 09:43	11/01/24 15:47	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	89.9	U	89.9	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	85.0	U	85.0	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	88.4	U	88.4	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	87.2	U	87.2	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	94.5	U	94.5	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	81.3	U	81.3	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	87.2		30 (18) - 130 (112)	58%	SPK: 150
13127-88-3	Phenol-d6	88.9		30 (15) - 130 (107)	59%	SPK: 150
4165-60-0	Nitrobenzene-d5	71.4		30 (18) - 130 (107)	71%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.4		30 (20) - 130 (109)	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	95.4		30 (10) - 130 (116)	64%	SPK: 150
1718-51-0	Terphenyl-d14	67.7		30 (10) - 130 (105)	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	106000	6.881			
1146-65-2	Naphthalene-d8	419000	8.163			
15067-26-2	Acenaphthene-d10	231000	9.922			
1517-22-2	Phenanthrene-d10	392000	11.416			
1719-03-5	Chrysene-d12	198000	14.068			
1520-96-3	Perylene-d12	222000	15.568			

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

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

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.2
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101448.D	1	11/01/24 09:43	11/01/24 14:33	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	360	ug/Kg
108-95-2	Phenol	90.7	U	90.7	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	91.5	U	91.5	190	ug/Kg
95-57-8	2-Chlorophenol	91.3	U	91.3	190	ug/Kg
95-48-7	2-Methylphenol	88.1	U	88.1	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	99.4	U	99.4	190	ug/Kg
98-86-2	Acetophenone	95.0	U	95.0	190	ug/Kg
65794-96-9	3+4-Methylphenols	87.3	U	87.3	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	44.1	U	44.1	87.5	ug/Kg
67-72-1	Hexachloroethane	90.8	U	90.8	190	ug/Kg
98-95-3	Nitrobenzene	99.3	U	99.3	190	ug/Kg
78-59-1	Isophorone	92.5	U	92.5	190	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	100	U	100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	93.8	U	93.8	190	ug/Kg
120-83-2	2,4-Dichlorophenol	82.6	U	82.6	190	ug/Kg
91-20-3	Naphthalene	90.3	U	90.3	190	ug/Kg
106-47-8	4-Chloroaniline	90.3	U	90.3	190	ug/Kg
87-68-3	Hexachlorobutadiene	91.1	U	91.1	190	ug/Kg
105-60-2	Caprolactam	94.9	U	94.9	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	84.8	U	84.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	90.2	U	90.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170	UQ	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	78.1	U	78.1	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	80.9	U	80.9	190	ug/Kg
92-52-4	1,1-Biphenyl	95.6	U	95.6	190	ug/Kg
91-58-7	2-Chloronaphthalene	91.1	U	91.1	190	ug/Kg
88-74-4	2-Nitroaniline	100	U	100	190	ug/Kg
131-11-3	Dimethylphthalate	89.3	U	89.3	190	ug/Kg

Raw Data: **BE101448.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.2
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101448.D	1	11/01/24 09:43	11/01/24 14:33	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	94.6	U	94.6	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	91.0	U	91.0	190	ug/Kg
99-09-2	3-Nitroaniline	97.5	UQ	97.5	190	ug/Kg
83-32-9	Acenaphthene	88.7	U	88.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	360	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	360	ug/Kg
132-64-9	Dibenzofuran	92.3	U	92.3	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	94.3	U	94.3	190	ug/Kg
84-66-2	Diethylphthalate	87.6	U	87.6	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	93.6	U	93.6	190	ug/Kg
86-73-7	Fluorene	93.5	U	93.5	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	89.2	U	89.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	86.3	U	86.3	190	ug/Kg
118-74-1	Hexachlorobenzene	93.0	U	93.0	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	84.5	U	84.5	360	ug/Kg
85-01-8	Phenanthrene	91.9	U	91.9	190	ug/Kg
120-12-7	Anthracene	92.3	U	92.3	190	ug/Kg
86-74-8	Carbazole	87.8	U	87.8	190	ug/Kg
84-74-2	Di-n-butylphthalate	92.2	U	92.2	190	ug/Kg
206-44-0	Fluoranthene	89.3	U	89.3	190	ug/Kg
129-00-0	Pyrene	90.8	U	90.8	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	U	110	360	ug/Kg
56-55-3	Benzo(a)anthracene	88.3	U	88.3	190	ug/Kg
218-01-9	Chrysene	86.9	U	86.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	99.5	U	99.5	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	88.7	U	88.7	190	ug/Kg

Raw Data: **BE101448.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.2
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101448.D	1	11/01/24 09:43	11/01/24 14:33	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	90.3	U	90.3	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	85.4	U	85.4	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	88.8	U	88.8	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	87.6	U	87.6	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	94.9	U	94.9	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	81.7	U	81.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	106		30 (18) - 130 (112)	71%	SPK: 150
13127-88-3	Phenol-d6	99.6		30 (15) - 130 (107)	66%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.6		30 (18) - 130 (107)	67%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.9		30 (20) - 130 (109)	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	102		30 (10) - 130 (116)	68%	SPK: 150
1718-51-0	Terphenyl-d14	71.8		30 (10) - 130 (105)	72%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	69400	7.575			
1146-65-2	Naphthalene-d8	297000	10.337			
15067-26-2	Acenaphthene-d10	198000	14.179			
1517-22-2	Phenanthrene-d10	455000	16.917			
1719-03-5	Chrysene-d12	540000	21.083			
1520-96-3	Perylene-d12	717000	23.374			

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

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

Raw Data: **BF140208.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-08	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140208.D	1	11/01/24 09:43	11/01/24 14:00	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	360	ug/Kg
108-95-2	Phenol	90.7	U	90.7	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	91.6	U	91.6	190	ug/Kg
95-57-8	2-Chlorophenol	91.4	U	91.4	190	ug/Kg
95-48-7	2-Methylphenol	88.2	U	88.2	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	99.5	U	99.5	190	ug/Kg
98-86-2	Acetophenone	95.1	U	95.1	190	ug/Kg
65794-96-9	3+4-Methylphenols	87.3	U	87.3	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	44.1	U	44.1	87.5	ug/Kg
67-72-1	Hexachloroethane	90.8	U	90.8	190	ug/Kg
98-95-3	Nitrobenzene	99.4	U	99.4	190	ug/Kg
78-59-1	Isophorone	92.6	U	92.6	190	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	100	U	100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	93.9	U	93.9	190	ug/Kg
120-83-2	2,4-Dichlorophenol	82.6	U	82.6	190	ug/Kg
91-20-3	Naphthalene	90.4	U	90.4	190	ug/Kg
106-47-8	4-Chloroaniline	90.4	U	90.4	190	ug/Kg
87-68-3	Hexachlorobutadiene	91.1	U	91.1	190	ug/Kg
105-60-2	Caprolactam	95.0	U	95.0	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	84.8	U	84.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	90.3	U	90.3	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170	UQ	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	78.1	U	78.1	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	81.0	U	81.0	190	ug/Kg
92-52-4	1,1-Biphenyl	95.6	U	95.6	190	ug/Kg
91-58-7	2-Chloronaphthalene	91.1	U	91.1	190	ug/Kg
88-74-4	2-Nitroaniline	100	U	100	190	ug/Kg
131-11-3	Dimethylphthalate	89.4	U	89.4	190	ug/Kg

Raw Data: **BF140208.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-08	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140208.D	1	11/01/24 09:43	11/01/24 14:00	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	94.6	U	94.6	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	91.0	U	91.0	190	ug/Kg
99-09-2	3-Nitroaniline	97.6	UQ	97.6	190	ug/Kg
83-32-9	Acenaphthene	88.7	U	88.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	360	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	360	ug/Kg
132-64-9	Dibenzofuran	92.4	U	92.4	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	94.3	U	94.3	190	ug/Kg
84-66-2	Diethylphthalate	87.6	U	87.6	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	93.7	U	93.7	190	ug/Kg
86-73-7	Fluorene	93.6	U	93.6	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	89.3	U	89.3	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	86.3	U	86.3	190	ug/Kg
118-74-1	Hexachlorobenzene	93.0	U	93.0	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	84.6	U	84.6	360	ug/Kg
85-01-8	Phenanthrene	91.9	U	91.9	190	ug/Kg
120-12-7	Anthracene	92.4	U	92.4	190	ug/Kg
86-74-8	Carbazole	87.9	U	87.9	190	ug/Kg
84-74-2	Di-n-butylphthalate	92.2	U	92.2	190	ug/Kg
206-44-0	Fluoranthene	89.4	U	89.4	190	ug/Kg
129-00-0	Pyrene	90.8	U	90.8	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	U	110	360	ug/Kg
56-55-3	Benzo(a)anthracene	88.3	U	88.3	190	ug/Kg
218-01-9	Chrysene	87.0	U	87.0	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	99.6	U	99.6	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	88.7	U	88.7	190	ug/Kg

Raw Data: **BF140208.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-08	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140208.D	1	11/01/24 09:43	11/01/24 14:00	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	90.4	U	90.4	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	85.5	U	85.5	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	88.8	U	88.8	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	87.6	U	87.6	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	95.0	U	95.0	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	81.7	U	81.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	102		30 (18) - 130 (112)	68%	SPK: 150
13127-88-3	Phenol-d6	101		30 (15) - 130 (107)	67%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.7		30 (18) - 130 (107)	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.0		30 (20) - 130 (109)	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	112		30 (10) - 130 (116)	75%	SPK: 150
1718-51-0	Terphenyl-d14	80.0		30 (10) - 130 (105)	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	106000	6.881			
1146-65-2	Naphthalene-d8	423000	8.163			
15067-26-2	Acenaphthene-d10	243000	9.927			
1517-22-2	Phenanthrene-d10	448000	11.421			
1719-03-5	Chrysene-d12	249000	14.074			
1520-96-3	Perylene-d12	218000	15.574			

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.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4663-02	TENNANT-PAD-2-3-STOCKPILE	2-Fluorophenol	150	104	69		30 (18)	130 (112)
		Phenol-d6	150	98.8	66		30 (15)	130 (107)
		Nitrobenzene-d5	100	64.7	65		30 (18)	130 (107)
		2-Fluorobiphenyl	100	68.6	69		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	101	67		30 (10)	130 (116)
		Terphenyl-d14	100	73.9	74		30 (10)	130 (105)
P4663-04	RES-BUILDING-PAD-NO-11	2-Fluorophenol	150	87.2	58		30 (18)	130 (112)
		Phenol-d6	150	88.9	59		30 (15)	130 (107)
		Nitrobenzene-d5	100	71.4	71		30 (18)	130 (107)
		2-Fluorobiphenyl	100	69.4	69		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	95.4	64		30 (10)	130 (116)
		Terphenyl-d14	100	67.7	68		30 (10)	130 (105)
P4663-06	RES-BUILDING-PAD-NO-3	2-Fluorophenol	150	106	71		30 (18)	130 (112)
		Phenol-d6	150	99.6	66		30 (15)	130 (107)
		Nitrobenzene-d5	100	66.6	67		30 (18)	130 (107)
		2-Fluorobiphenyl	100	68.9	69		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	102	68		30 (10)	130 (116)
		Terphenyl-d14	100	71.8	72		30 (10)	130 (105)
P4663-08	RES-BUILDING-PAD-NO-2	2-Fluorophenol	150	102	68		30 (18)	130 (112)
		Phenol-d6	150	101	67		30 (15)	130 (107)
		Nitrobenzene-d5	100	79.7	80		30 (18)	130 (107)
		2-Fluorobiphenyl	100	75.0	75		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	112	75		30 (10)	130 (116)
		Terphenyl-d14	100	80.0	80		30 (10)	130 (105)
P4663-08MS	RES-BUILDING-PAD-NO-2MS	2-Fluorophenol	150	104	69		30 (18)	130 (112)
		Phenol-d6	150	104	69		30 (15)	130 (107)
		Nitrobenzene-d5	100	81.4	81		30 (18)	130 (107)
		2-Fluorobiphenyl	100	75.9	76		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	111	74		30 (10)	130 (116)
		Terphenyl-d14	100	86.3	86		30 (10)	130 (105)
P4663-08MSD	RES-BUILDING-PAD-NO-2MSD	2-Fluorophenol	150	109	73		30 (18)	130 (112)
		Phenol-d6	150	111	74		30 (15)	130 (107)
		Nitrobenzene-d5	100	86.4	86		30 (18)	130 (107)
		2-Fluorobiphenyl	100	80.7	81		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	120	80		30 (10)	130 (116)
		Terphenyl-d14	100	94.8	95		30 (10)	130 (105)
PB164593BL	PB164593BL	2-Fluorophenol	150	126	84		30 (18)	130 (112)
		Phenol-d6	150	112	75		30 (15)	130 (107)
		Nitrobenzene-d5	100	81.0	81		30 (18)	130 (107)
		2-Fluorobiphenyl	100	86.3	86		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	125	83		30 (10)	130 (116)
		Terphenyl-d14	100	80.1	80		30 (10)	130 (105)
PB164593BS	PB164593BS	2-Fluorophenol	150	158	105		30 (18)	130 (112)
		Phenol-d6	150	143	95		30 (15)	130 (107)
		Nitrobenzene-d5	100	101	101		30 (18)	130 (107)
		2-Fluorobiphenyl	100	108	108		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	149	99		30 (10)	130 (116)
		Terphenyl-d14	100	99.2	99		30 (10)	130 (105)

( ) = LABORATORY INHOUSE LIMIT

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P4663-08MS		**Client Sample ID: RES-BUILDING-PAD-NO-2MS**						**DataFile: BF140209.D**			
Benzaldehyde	1800	0	460	ug/Kg	26				20 (10)	160 (86)	
Phenol	1800	0	1800	ug/Kg	100				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	1800	0	1800	ug/Kg	100				70 (54)	130 (125)	
2-Chlorophenol	1800	0	1900	ug/Kg	106				70 (79)	130 (107)	
2-Methylphenol	1800	0	1900	ug/Kg	106				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	1800	0	1900	ug/Kg	106				70 (65)	130 (110)	
Acetophenone	1800	0	1700	ug/Kg	94				70 (75)	130 (111)	
3+4-Methylphenols	1800	0	1800	ug/Kg	100				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	1800	0	1800	ug/Kg	100				70 (59)	130 (119)	
Hexachloroethane	1800	0	1800	ug/Kg	100				20 (65)	160 (117)	
Nitrobenzene	1800	0	1800	ug/Kg	100				70 (70)	130 (119)	
Isophorone	1800	0	1900	ug/Kg	106				70 (76)	130 (122)	
2-Nitrophenol	1800	0	2200	ug/Kg	122				70 (54)	130 (145)	
2,4-Dimethylphenol	1800	0	2100	ug/Kg	117				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	1800	0	1800	ug/Kg	100				70 (68)	130 (112)	
2,4-Dichlorophenol	1800	0	1800	ug/Kg	100				70 (72)	130 (118)	
Naphthalene	1800	0	1800	ug/Kg	100				70 (72)	130 (110)	
4-Chloroaniline	1800	0	770	ug/Kg	43	*			70 (10)	130 (91)	
Hexachlorobutadiene	1800	0	1800	ug/Kg	100				70 (66)	130 (114)	
Caprolactam	1800	0	1900	ug/Kg	106				20 (51)	160 (134)	
4-Chloro-3-methylphenol	1800	0	1900	ug/Kg	106				70 (57)	130 (132)	
2-Methylnaphthalene	1800	0	1800	ug/Kg	100				70 (59)	130 (123)	
Hexachlorocyclopentadiene	3600	0	5900	ug/Kg	164	*			20 (10)	160 (175)	
2,4,6-Trichlorophenol	1800	0	1800	ug/Kg	100				70 (72)	130 (117)	
2,4,5-Trichlorophenol	1800	0	1800	ug/Kg	100				70 (72)	130 (117)	
1,1-Biphenyl	1800	0	1800	ug/Kg	100				70 (75)	130 (113)	
2-Chloronaphthalene	1800	0	1700	ug/Kg	94				70 (67)	130 (118)	
2-Nitroaniline	1800	0	2100	ug/Kg	117				70 (69)	130 (127)	
Dimethylphthalate	1800	0	1900	ug/Kg	106				70 (70)	130 (113)	
Acenaphthylene	1800	0	1900	ug/Kg	106				70 (79)	130 (118)	
2,6-Dinitrotoluene	1800	0	1900	ug/Kg	106				70 (70)	130 (125)	
3-Nitroaniline	1800	0	1300	ug/Kg	72				70 (30)	130 (99)	
Acenaphthene	1800	0	2000	ug/Kg	111				70 (70)	130 (121)	
2,4-Dinitrophenol	3600	0	4700	ug/Kg	131				20 (10)	160 (155)	
4-Nitrophenol	3600	0	3900	ug/Kg	108				20 (45)	160 (133)	
Dibenzofuran	1800	0	1800	ug/Kg	100				70 (72)	130 (110)	
2,4-Dinitrotoluene	1800	0	2100	ug/Kg	117				70 (55)	130 (128)	
Diethylphthalate	1800	0	1900	ug/Kg	106				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	1800	0	1800	ug/Kg	100				70 (71)	130 (108)	
Fluorene	1800	0	1800	ug/Kg	100				70 (68)	130 (116)	
4-Nitroaniline	1800	0	2000	ug/Kg	111				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	1800	0	2500	ug/Kg	139	*			70 (10)	130 (160)	
N-Nitrosodiphenylamine	1800	0	1800	ug/Kg	100				70 (73)	130 (118)	
4-Bromophenyl-phenylether	1800	0	1800	ug/Kg	100				70 (65)	130 (121)	
Hexachlorobenzene	1800	0	1700	ug/Kg	94				70 (67)	130 (118)	
Atrazine	1800	0	2200	ug/Kg	122				70 (79)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	3600	0	3400	ug/Kg	94				20 (47)	160 (128)	
Phenanthrene	1800	0	1800	ug/Kg	100				70 (52)	130 (128)	
Anthracene	1800	0	1800	ug/Kg	100				70 (62)	130 (124)	
Carbazole	1800	0	1700	ug/Kg	94				70 (59)	130 (119)	
Di-n-butylphthalate	1800	0	1900	ug/Kg	106				70 (69)	130 (118)	
Fluoranthene	1800	0	1700	ug/Kg	94				70 (44)	130 (125)	
Pyrene	1800	0	1900	ug/Kg	106				70 (26)	130 (142)	
Butylbenzylphthalate	1800	0	2700	ug/Kg	150	*			70 (64)	130 (126)	
3,3-Dichlorobenzidine	1800	0	1400	ug/Kg	78				70 (33)	130 (116)	
Benzo(a)anthracene	1800	0	1800	ug/Kg	100				70 (71)	130 (114)	
Chrysene	1800	0	1900	ug/Kg	106				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	1800	0	3000	ug/Kg	167	*			70 (42)	130 (169)	
Di-n-octyl phthalate	1800	0	2400	ug/Kg	133	*			70 (23)	130 (175)	
Benzo(b)fluoranthene	1800	0	1800	ug/Kg	100				70 (67)	130 (121)	
Benzo(k)fluoranthene	1800	0	1700	ug/Kg	94				70 (57)	130 (134)	
Benzo(a)pyrene	1800	0	2000	ug/Kg	111				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	1800	0	1900	ug/Kg	106				70 (40)	130 (129)	
Dibenz(a,h)anthracene	1800	0	1800	ug/Kg	100				70 (43)	130 (123)	
Benzo(g,h,i)perylene	1800	0	1600	ug/Kg	89				70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	1800	0	1800	ug/Kg	100				70 (69)	130 (124)	
1,4-Dioxane	1800	0	1500	ug/Kg	83				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	1800	0	1900	ug/Kg	106				70 (69)	130 (112)	

( ) = LABORATORY INHOUSE LIMIT

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID: P4663-08MSD		**Client Sample ID: RES-BUILDING-PAD-NO-2MSD**						**DataFile: BF140210.D**			
Benzaldehyde	1800	0	480	ug/Kg	27		4		20 (10)	160 (86)	30 (20)
Phenol	1800	0	1900	ug/Kg	106		6		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	1800	0	1900	ug/Kg	106		6		70 (54)	130 (125)	30 (20)
2-Chlorophenol	1800	0	2000	ug/Kg	111		5		70 (79)	130 (107)	30 (20)
2-Methylphenol	1800	0	2000	ug/Kg	111		5		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	1800	0	2000	ug/Kg	111		5		70 (65)	130 (110)	30 (20)
Acetophenone	1800	0	1800	ug/Kg	100		6		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	1800	0	1900	ug/Kg	106		6		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	1800	0	1900	ug/Kg	106		6		70 (59)	130 (119)	30 (20)
Hexachloroethane	1800	0	1900	ug/Kg	106		6		20 (65)	160 (117)	30 (20)
Nitrobenzene	1800	0	1900	ug/Kg	106		6		70 (70)	130 (119)	30 (20)
Isophorone	1800	0	2000	ug/Kg	111		5		70 (76)	130 (122)	30 (20)
2-Nitrophenol	1800	0	2300	ug/Kg	128		5		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	1800	0	2200	ug/Kg	122		4		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	1800	0	1900	ug/Kg	106		6		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	1800	0	1900	ug/Kg	106		6		70 (72)	130 (118)	30 (20)
Naphthalene	1800	0	1900	ug/Kg	106		6		70 (72)	130 (110)	30 (20)
4-Chloroaniline	1800	0	820	ug/Kg	46	*	7		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	1800	0	1900	ug/Kg	106		6		70 (66)	130 (114)	30 (20)
Caprolactam	1800	0	1900	ug/Kg	106		0		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	1800	0	2000	ug/Kg	111		5		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	1800	0	1900	ug/Kg	106		6		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	3600	0	6100	ug/Kg	169	*	3		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	1800	0	2000	ug/Kg	111		10		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	1800	0	1900	ug/Kg	106		6		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	1800	0	1900	ug/Kg	106		6		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	1800	0	1800	ug/Kg	100		6		70 (67)	130 (118)	30 (20)
2-Nitroaniline	1800	0	2200	ug/Kg	122		4		70 (69)	130 (127)	30 (20)
Dimethylphthalate	1800	0	2000	ug/Kg	111		5		70 (70)	130 (113)	30 (20)
Acenaphthylene	1800	0	2000	ug/Kg	111		5		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	1800	0	2100	ug/Kg	117		10		70 (70)	130 (125)	30 (20)
3-Nitroaniline	1800	0	1300	ug/Kg	72		0		70 (30)	130 (99)	30 (20)
Acenaphthene	1800	0	2100	ug/Kg	117		5		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	3600	0	4800	ug/Kg	133		2		20 (10)	160 (155)	30 (20)
4-Nitrophenol	3600	0	4100	ug/Kg	114		5		20 (45)	160 (133)	30 (20)
Dibenzofuran	1800	0	1900	ug/Kg	106		6		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	1800	0	2300	ug/Kg	128		9		70 (55)	130 (128)	30 (20)
Diethylphthalate	1800	0	2000	ug/Kg	111		5		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	1800	0	1900	ug/Kg	106		6		70 (71)	130 (108)	30 (20)
Fluorene	1800	0	1900	ug/Kg	106		6		70 (68)	130 (116)	30 (20)
4-Nitroaniline	1800	0	2100	ug/Kg	117		5		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	1800	0	2700	ug/Kg	150	*	8		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	1800	0	1900	ug/Kg	106		6		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	1800	0	1900	ug/Kg	106		6		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	1800	0	1900	ug/Kg	106		12		70 (67)	130 (118)	30 (20)
Atrazine	1800	0	2300	ug/Kg	128		5		70 (79)	130 (127)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	3600	0	3700	ug/Kg	103		9		20 (47)	160 (128)	30 (20)
Phenanthrene	1800	0	1900	ug/Kg	106		6		70 (52)	130 (128)	30 (20)
Anthracene	1800	0	2000	ug/Kg	111		10		70 (62)	130 (124)	30 (20)
Carbazole	1800	0	1900	ug/Kg	106		12		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	1800	0	2100	ug/Kg	117		10		70 (69)	130 (118)	30 (20)
Fluoranthene	1800	0	1900	ug/Kg	106		12		70 (44)	130 (125)	30 (20)
Pyrene	1800	0	2100	ug/Kg	117		10		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	1800	0	3000	ug/Kg	167	*	11		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	1800	0	1700	ug/Kg	94		19		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	1800	0	2000	ug/Kg	111		10		70 (71)	130 (114)	30 (20)
Chrysene	1800	0	2000	ug/Kg	111		5		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	1800	0	3300	ug/Kg	183	*	9		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	1800	0	2600	ug/Kg	144	*	8		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	1800	0	1900	ug/Kg	106		6		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	1800	0	1900	ug/Kg	106		12		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	1800	0	2100	ug/Kg	117		5		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	1800	0	1900	ug/Kg	106		0		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	1800	0	1900	ug/Kg	106		6		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	1800	0	1700	ug/Kg	94		5		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	1800	0	1900	ug/Kg	106		6		70 (69)	130 (124)	30 (20)
1,4-Dioxane	1800	0	1500	ug/Kg	83		0		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	1800	0	2000	ug/Kg	111		5		70 (69)	130 (112)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8270E **DataFile:** BE101455.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164593BS	Benzaldehyde	1700	360	ug/Kg	21				20 (10)	160 (133)	
	Phenol	1700	1700	ug/Kg	100				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				70 (60)	130 (101)	
	2-Chlorophenol	1700	1700	ug/Kg	100				70 (65)	130 (112)	
	2-Methylphenol	1700	1600	ug/Kg	94				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1500	ug/Kg	88				70 (51)	130 (100)	
	Acetophenone	1700	1600	ug/Kg	94				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1500	ug/Kg	88				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				70 (63)	130 (95)	
	Hexachloroethane	1700	1600	ug/Kg	94				20 (72)	160 (108)	
	Nitrobenzene	1700	1600	ug/Kg	94				70 (57)	130 (101)	
	Isophorone	1700	1600	ug/Kg	94				70 (59)	130 (99)	
	2-Nitrophenol	1700	1800	ug/Kg	106				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	2100	ug/Kg	124				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1600	ug/Kg	94				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1700	ug/Kg	100				70 (62)	130 (107)	
	Naphthalene	1700	1600	ug/Kg	94				70 (62)	130 (100)	
	4-Chloroaniline	1700	1200	ug/Kg	71				70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1700	ug/Kg	100				70 (53)	130 (98)	
	Caprolactam	1700	1500	ug/Kg	88				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1600	ug/Kg	94				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1600	ug/Kg	94				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	7100	ug/Kg	215		*		20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1800	ug/Kg	106				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1700	ug/Kg	100				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1700	ug/Kg	100				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1700	ug/Kg	100				70 (58)	130 (99)	
	2-Nitroaniline	1700	1800	ug/Kg	106				70 (66)	130 (101)	
	Dimethylphthalate	1700	1600	ug/Kg	94				70 (61)	130 (99)	
	Acenaphthylene	1700	1800	ug/Kg	106				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1600	ug/Kg	94				70 (61)	130 (104)	
	3-Nitroaniline	1700	1100	ug/Kg	65		*		70 (28)	130 (100)	
	Acenaphthene	1700	1700	ug/Kg	100				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	2700	ug/Kg	82				20 (37)	160 (128)	
	4-Nitrophenol	3300	3100	ug/Kg	94				20 (48)	160 (119)	
	Dibenzofuran	1700	1600	ug/Kg	94				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1600	ug/Kg	94				70 (60)	130 (106)	
	Diethylphthalate	1700	1600	ug/Kg	94				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1600	ug/Kg	94				70 (58)	130 (98)	
	Fluorene	1700	1600	ug/Kg	94				70 (61)	130 (101)	
	4-Nitroaniline	1700	1400	ug/Kg	82				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	1700	ug/Kg	100				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1800	ug/Kg	106				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1800	ug/Kg	106				70 (66)	130 (102)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8270E **DataFile:** BE101455.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164593BS	Hexachlorobenzene	1700	1700	ug/Kg	100				70 (64)	130 (98)	
	Atrazine	1700	2100	ug/Kg	124				70 (47)	130 (152)	
	Pentachlorophenol	3300	3400	ug/Kg	103				20 (67)	160 (105)	
	Phenanthrene	1700	1800	ug/Kg	106				70 (59)	130 (103)	
	Anthracene	1700	1900	ug/Kg	112				70 (61)	130 (105)	
	Carbazole	1700	1700	ug/Kg	100				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1800	ug/Kg	106				70 (58)	130 (104)	
	Fluoranthene	1700	1700	ug/Kg	100				70 (57)	130 (107)	
	Pyrene	1700	1600	ug/Kg	94				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1700	ug/Kg	100				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	1400	ug/Kg	82				70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1800	ug/Kg	106				70 (60)	130 (102)	
	Chrysene	1700	1800	ug/Kg	106				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	2000	ug/Kg	118				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	2200	ug/Kg	129				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1700	ug/Kg	100				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1700	ug/Kg	100				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1900	ug/Kg	112				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1800	ug/Kg	106				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1800	ug/Kg	106				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1700	ug/Kg	100				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1800	ug/Kg	106				70 (53)	130 (101)	
	1,4-Dioxane	1700	1400	ug/Kg	82				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1700	ug/Kg	100				70 (59)	130 (108)	

( ) = LABORATORY INHOUSE LIMIT

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164593BL

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Lab File ID: BE101454.D Lab Sample ID: PB164593BL

Instrument ID: BNA_E Date Extracted: 11/01/2024

Matrix: (soil/water) SOIL Date Analyzed: 11/04/2024

Level: (low/med) LOW Time Analyzed: 13:25

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164593BS	PB164593BS	BE101455.D	11/04/2024
RES-BUILDING-PAD-NO-2	P4663-08	BF140208.D	11/01/2024
RES-BUILDING-PAD-NO-11	P4663-04	BF140212.D	11/01/2024
RES-BUILDING-PAD-NO-2MS	P4663-08MS	BF140209.D	11/01/2024
RES-BUILDING-PAD-NO-2MSD	P4663-08MSD	BF140210.D	11/01/2024
TENNANT-PAD-2-3-STOCKPILE	P4663-02	BE101450.D	11/01/2024
RES-BUILDING-PAD-NO-3	P4663-06	BE101448.D	11/01/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM SAS No.: P4663 SDG NO.: P4663

Lab File ID: BE101388.D DFTPP Injection Date: 10/28/2024

Instrument ID: BNA_E DFTPP Injection Time: 10:51

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	17.8
68	Less than 2.0% of mass 69	0.3 (1.5) 1
69	Mass 69 relative abundance	18.3
70	Less than 2.0% of mass 69	0.0 (0.1) 1
127	10.0 - 80.0% of mass 198	27.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	4
275	10.0 - 60.0% of mass 198	20
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	16.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	20.1 (20.1) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BE101389.D	10/28/2024	11:44
SSTDICC005	SSTDICC005	BE101390.D	10/28/2024	12:23
SSTDICC010	SSTDICC010	BE101391.D	10/28/2024	12:59
SSTDICC020	SSTDICC020	BE101392.D	10/28/2024	13:35
SSTDICCC040	SSTDICCC040	BE101393.D	10/28/2024	14:11
SSTDICC050	SSTDICC050	BE101394.D	10/28/2024	14:49
SSTDICC060	SSTDICC060	BE101395.D	10/28/2024	15:25
SSTDICC080	SSTDICC080	BE101396.D	10/28/2024	16:01

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM SAS No.: P4663 SDG NO.: P4663

Lab File ID: BE101443.D DFTPP Injection Date: 11/01/2024

Instrument ID: BNA_E DFTPP Injection Time: 09:05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	13.1
68	Less than 2.0% of mass 69	0.2 (1.6) 1
69	Mass 69 relative abundance	14
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	21.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	3.4
275	10.0 - 60.0% of mass 198	17.6
365	Greater than 1% of mass 198	2.8
441	Present, but less than mass 443	16.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.4 (19.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BE101444.D	11/01/2024	09:41
RES-BUILDING-PAD-NO-3	P4663-06	BE101448.D	11/01/2024	14:33
TENNANT-PAD-2-3-STOCKPILE	P4663-02	BE101450.D	11/01/2024	15:45

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM SAS No.: P4663 SDG NO.: P4663

Lab File ID: BE101452.D DFTPP Injection Date: 11/04/2024

Instrument ID: BNA_E DFTPP Injection Time: 12:13

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	14.6
68	Less than 2.0% of mass 69	0.2 (1.6) 1
69	Mass 69 relative abundance	15.5
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	22
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	3.6
275	10.0 - 60.0% of mass 198	17.7
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	16.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.5 (19.5) 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	BE101453.D	11/04/2024	12:49
PB164593BL	PB164593BL	BE101454.D	11/04/2024	13:25
PB164593BS	PB164593BS	BE101455.D	11/04/2024	14:04

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM SAS No.: P4663 SDG NO.: P4663

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

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM SAS No.: P4663 SDG NO.: P4663

Lab File ID: BF140199.D DFTPP Injection Date: 11/01/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	42.9
68	Less than 2.0% of mass 69	0.7 (1.7) 1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	28.1
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	15.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.3 (19.5) 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	BF140200.D	11/01/2024	09:22
RES-BUILDING-PAD-NO-2	P4663-08	BF140208.D	11/01/2024	14:00
RES-BUILDING-PAD-NO-2MS	P4663-08MS	BF140209.D	11/01/2024	14:27
RES-BUILDING-PAD-NO-2MSD	P4663-08MSD	BF140210.D	11/01/2024	14:53
RES-BUILDING-PAD-NO-11	P4663-04	BF140212.D	11/01/2024	15:47

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/01/2024

Lab File ID: BE101444.D Time Analyzed: 09:41

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	92171	7.576	414792	10.34	283187	14.19
	UPPER LIMIT	184342	8.076	829584	10.843	566374	14.686
	LOWER LIMIT	46085.5	7.076	207396	9.843	141594	13.686
	EPA SAMPLE NO.						
01	TENNANT-PAD-2-3-STOCKPILE	90671	7.57	396894	10.34	265226	14.18
02	RES-BUILDING-PAD-NO-3	69420	7.58	296978	10.34	197789	14.18

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/01/2024

Lab File ID: BE101444.D Time Analyzed: 09:41

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	682015	16.924	817400	21.09	1050290	23.381
	UPPER LIMIT	1364030	17.424	1634800	21.59	2100580	23.881
	LOWER LIMIT	341008	16.424	408700	20.59	525145	22.881
	EPA SAMPLE NO.						
01	TENNANT-PAD-2-3-STOCKPILE	598076	16.92	668565	21.08	876363	23.38
02	RES-BUILDING-PAD-NO-3	455282	16.92	540190	21.08	717080	23.37

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/04/2024

Lab File ID: BE101453.D Time Analyzed: 12:49

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	101222	7.57	465351	10.34	319103	14.19
	UPPER LIMIT	202444	8.07	930702	10.843	638206	14.686
	LOWER LIMIT	50611	7.07	232676	9.843	159552	13.686
	EPA SAMPLE NO.						
01	PB164593BL	83697	7.57	332383	10.34	209474	14.18
02	PB164593BS	76985	7.57	325431	10.34	205486	14.18

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/04/2024

Lab File ID: BE101453.D Time Analyzed: 12:49

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	704364	16.924	756056	21.084	973527	23.375
	UPPER LIMIT	1408730	17.424	1512110	21.584	1947050	23.875
	LOWER LIMIT	352182	16.424	378028	20.584	486764	22.875
	EPA SAMPLE NO.						
01	PB164593BL	478774	16.92	637683	21.08	926419	23.37
02	PB164593BS	423694	16.92	509474	21.08	767672	23.38

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/01/2024

Lab File ID: BF140200.D Time Analyzed: 09:22

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	147950	6.887	577069	8.17	331720	9.93
	UPPER LIMIT	295900	7.387	1154140	8.669	663440	10.428
	LOWER LIMIT	73975	6.387	288535	7.669	165860	9.428
	EPA SAMPLE NO.						
01	RES-BUILDING-PAD-NO-11	106496	6.88	419273	8.16	231436	9.92
02	RES-BUILDING-PAD-NO-2	105943	6.88	422510	8.16	242556	9.93
03	RES-BUILDING-PAD-NO-2MS	109344	6.89	436831	8.16	250775	9.93
04	RES-BUILDING-PAD-NO-2MSD	103190	6.89	410116	8.16	235405	9.93

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

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/01/2024

Lab File ID: BF140200.D Time Analyzed: 09:22

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	606919	11.422	388668	14.08	308087	15.58
	UPPER LIMIT	1213840	11.922	777336	14.58	616174	16.08
	LOWER LIMIT	303460	10.922	194334	13.58	154044	15.08
	EPA SAMPLE NO.						
01	RES-BUILDING-PAD-NO-11	391644	11.42	198159	14.07	221860	15.57
02	RES-BUILDING-PAD-NO-2	447541	11.42	249474	14.07	218114	15.57
03	RES-BUILDING-PAD-NO-2MS	453631	11.42	223586	14.07	232464	15.57
04	RES-BUILDING-PAD-NO-2MSD	418261	11.42	199568	14.07	218473	15.57

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

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

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

QC SAMPLE DATA

Raw Data: **BE101454.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164593BL	SDG No.:	P4663
Lab Sample ID:	PB164593BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101454.D	1	11/01/24 09:43	11/04/24 13:25	PB164593

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

Raw Data: **BE101454.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164593BL	SDG No.:	P4663
Lab Sample ID:	PB164593BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101454.D	1	11/01/24 09:43	11/04/24 13:25	PB164593

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

Raw Data: **BE101454.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164593BL	SDG No.:	P4663
Lab Sample ID:	PB164593BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101454.D	1	11/01/24 09:43	11/04/24 13:25	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	82.6	U	82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	93.0	U	93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.1	U	78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.2	U	81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.1	U	80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.8	U	86.8	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.7	U	74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	126		30 (18) - 130 (112)	84%	SPK: 150
13127-88-3	Phenol-d6	112		30 (15) - 130 (107)	75%	SPK: 150
4165-60-0	Nitrobenzene-d5	81.0		30 (18) - 130 (107)	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.3		30 (20) - 130 (109)	86%	SPK: 100
118-79-6	2,4,6-Tribromophenol	125		30 (10) - 130 (116)	83%	SPK: 150
1718-51-0	Terphenyl-d14	80.1		30 (10) - 130 (105)	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	83700	7.573			
1146-65-2	Naphthalene-d8	332000	10.341			
15067-26-2	Acenaphthene-d10	209000	14.177			
1517-22-2	Phenanthrene-d10	479000	16.915			
1719-03-5	Chrysene-d12	638000	21.075			
1520-96-3	Perylene-d12	926000	23.372			

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

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

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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164593BS	SDG No.:	P4663
Lab Sample ID:	PB164593BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101455.D	1	11/01/24 09:43	11/04/24 14:04	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	360		180	330	ug/Kg
108-95-2	Phenol	1700		82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		83.6	170	ug/Kg
95-57-8	2-Chlorophenol	1700		83.4	170	ug/Kg
95-48-7	2-Methylphenol	1600		80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		90.8	170	ug/Kg
98-86-2	Acetophenone	1600		86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	1600		82.9	170	ug/Kg
98-95-3	Nitrobenzene	1600		90.7	170	ug/Kg
78-59-1	Isophorone	1600		84.5	170	ug/Kg
88-75-5	2-Nitrophenol	1800		94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	2100		93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		75.4	170	ug/Kg
91-20-3	Naphthalene	1600		82.5	170	ug/Kg
106-47-8	4-Chloroaniline	1200		82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	1700		83.2	170	ug/Kg
105-60-2	Caprolactam	1500		86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1600		82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	7100	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		71.3	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1700		73.9	170	ug/Kg
92-52-4	1,1-Biphenyl	1700		87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	1700		83.2	170	ug/Kg
88-74-4	2-Nitroaniline	1800		94.9	170	ug/Kg
131-11-3	Dimethylphthalate	1600		81.6	170	ug/Kg

Raw Data: **BE101455.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164593BS	SDG No.:	P4663
Lab Sample ID:	PB164593BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101455.D	1	11/01/24 09:43	11/04/24 14:04	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.1	170	ug/Kg
99-09-2	3-Nitroaniline	1100		89.1	170	ug/Kg
83-32-9	Acenaphthene	1700		81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	2700	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3100	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1600		84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		86.1	170	ug/Kg
84-66-2	Diethylphthalate	1600		80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		85.5	170	ug/Kg
86-73-7	Fluorene	1600		85.4	170	ug/Kg
100-01-6	4-Nitroaniline	1400		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1800		78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1700		84.9	170	ug/Kg
1912-24-9	Atrazine	2100		91.3	170	ug/Kg
87-86-5	Pentachlorophenol	3400	E	77.2	330	ug/Kg
85-01-8	Phenanthrene	1800		83.9	170	ug/Kg
120-12-7	Anthracene	1900		84.3	170	ug/Kg
86-74-8	Carbazole	1700		80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1800		84.2	170	ug/Kg
206-44-0	Fluoranthene	1700		81.6	170	ug/Kg
129-00-0	Pyrene	1600		82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	1700		96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1400		98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	1800		80.6	170	ug/Kg
218-01-9	Chrysene	1800		79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2000		90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	2200		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		81.0	170	ug/Kg

Raw Data: **BE101455.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164593BS	SDG No.:	P4663
Lab Sample ID:	PB164593BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BE101455.D	1	11/01/24 09:43	11/04/24 14:04	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	1900		92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		86.7	170	ug/Kg
123-91-1	1,4-Dioxane	1400		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		74.6	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	158		30 (18) - 130 (112)	105%	SPK: 150
13127-88-3	Phenol-d6	143		30 (15) - 130 (107)	95%	SPK: 150
4165-60-0	Nitrobenzene-d5	101		30 (18) - 130 (107)	101%	SPK: 100
321-60-8	2-Fluorobiphenyl	108		30 (20) - 130 (109)	108%	SPK: 100
118-79-6	2,4,6-Tribromophenol	149		30 (10) - 130 (116)	99%	SPK: 150
1718-51-0	Terphenyl-d14	99.2		30 (10) - 130 (105)	99%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	77000	7.571			
1146-65-2	Naphthalene-d8	325000	10.338			
15067-26-2	Acenaphthene-d10	205000	14.18			
1517-22-2	Phenanthrene-d10	424000	16.918			
1719-03-5	Chrysene-d12	509000	21.084			
1520-96-3	Perylene-d12	768000	23.375			

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MS	SDG No.:	P4663
Lab Sample ID:	P4663-08MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140209.D	1	11/01/24 09:43	11/01/24 14:27	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	460		200	360	ug/Kg
108-95-2	Phenol	1800		90.6	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1800		91.5	190	ug/Kg
95-57-8	2-Chlorophenol	1900		91.3	190	ug/Kg
95-48-7	2-Methylphenol	1900		88.1	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1900		99.4	190	ug/Kg
98-86-2	Acetophenone	1700		95.0	190	ug/Kg
65794-96-9	3+4-Methylphenols	1800		87.3	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1800		44.1	87.5	ug/Kg
67-72-1	Hexachloroethane	1800		90.8	190	ug/Kg
98-95-3	Nitrobenzene	1800		99.3	190	ug/Kg
78-59-1	Isophorone	1900		92.5	190	ug/Kg
88-75-5	2-Nitrophenol	2200		100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2100		100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1800		93.8	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1800		82.6	190	ug/Kg
91-20-3	Naphthalene	1800		90.3	190	ug/Kg
106-47-8	4-Chloroaniline	770		90.3	190	ug/Kg
87-68-3	Hexachlorobutadiene	1800		91.1	190	ug/Kg
105-60-2	Caprolactam	1900		94.9	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1900		84.7	190	ug/Kg
91-57-6	2-Methylnaphthalene	1800		90.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	5900	E	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		78.1	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1800		80.9	190	ug/Kg
92-52-4	1,1-Biphenyl	1800		95.6	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		91.1	190	ug/Kg
88-74-4	2-Nitroaniline	2100		100	190	ug/Kg
131-11-3	Dimethylphthalate	1900		89.3	190	ug/Kg

Raw Data: **BF140209.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MS	SDG No.:	P4663
Lab Sample ID:	P4663-08MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140209.D	1	11/01/24 09:43	11/01/24 14:27	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1900		94.6	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		91.0	190	ug/Kg
99-09-2	3-Nitroaniline	1300		97.5	190	ug/Kg
83-32-9	Acenaphthene	2000		88.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	4700	E	270	360	ug/Kg
100-02-7	4-Nitrophenol	3900	E	130	360	ug/Kg
132-64-9	Dibenzofuran	1800		92.3	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		94.3	190	ug/Kg
84-66-2	Diethylphthalate	1900		87.6	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1800		93.6	190	ug/Kg
86-73-7	Fluorene	1800		93.5	190	ug/Kg
100-01-6	4-Nitroaniline	2000		120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2500		130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		89.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1800		86.3	190	ug/Kg
118-74-1	Hexachlorobenzene	1700		92.9	190	ug/Kg
1912-24-9	Atrazine	2200		99.9	190	ug/Kg
87-86-5	Pentachlorophenol	3400	E	84.5	360	ug/Kg
85-01-8	Phenanthrene	1800		91.9	190	ug/Kg
120-12-7	Anthracene	1800		92.3	190	ug/Kg
86-74-8	Carbazole	1700		87.8	190	ug/Kg
84-74-2	Di-n-butylphthalate	1900		92.2	190	ug/Kg
206-44-0	Fluoranthene	1700		89.3	190	ug/Kg
129-00-0	Pyrene	1900		90.8	190	ug/Kg
85-68-7	Butylbenzylphthalate	2700		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1400		110	360	ug/Kg
56-55-3	Benzo(a)anthracene	1800		88.2	190	ug/Kg
218-01-9	Chrysene	1900		86.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	3000	E	99.5	190	ug/Kg
117-84-0	Di-n-octyl phthalate	2400		120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		88.7	190	ug/Kg

Raw Data: **BF140209.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MS	SDG No.:	P4663
Lab Sample ID:	P4663-08MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140209.D	1	11/01/24 09:43	11/01/24 14:27	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		90.3	190	ug/Kg
50-32-8	Benzo(a)pyrene	2000		100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1900		85.4	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		88.8	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		87.6	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		94.9	190	ug/Kg
123-91-1	1,4-Dioxane	1500		120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1900		81.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	104		30 (18) - 130 (112)	69%	SPK: 150
13127-88-3	Phenol-d6	104		30 (15) - 130 (107)	69%	SPK: 150
4165-60-0	Nitrobenzene-d5	81.4		30 (18) - 130 (107)	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.9		30 (20) - 130 (109)	76%	SPK: 100
118-79-6	2,4,6-Tribromophenol	111		30 (10) - 130 (116)	74%	SPK: 150
1718-51-0	Terphenyl-d14	86.3		30 (10) - 130 (105)	86%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	109000	6.887			
1146-65-2	Naphthalene-d8	437000	8.163			
15067-26-2	Acenaphthene-d10	251000	9.928			
1517-22-2	Phenanthrene-d10	454000	11.422			
1719-03-5	Chrysene-d12	224000	14.074			
1520-96-3	Perylene-d12	232000	15.568			

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

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

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MSD	SDG No.:	P4663
Lab Sample ID:	P4663-08MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140210.D	1	11/01/24 09:43	11/01/24 14:53	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	480		200	360	ug/Kg
108-95-2	Phenol	1900		90.6	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1900		91.5	190	ug/Kg
95-57-8	2-Chlorophenol	2000		91.2	190	ug/Kg
95-48-7	2-Methylphenol	2000		88.1	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	2000		99.3	190	ug/Kg
98-86-2	Acetophenone	1800		95.0	190	ug/Kg
65794-96-9	3+4-Methylphenols	1900		87.2	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1900		44.0	87.4	ug/Kg
67-72-1	Hexachloroethane	1900		90.7	190	ug/Kg
98-95-3	Nitrobenzene	1900		99.2	190	ug/Kg
78-59-1	Isophorone	2000		92.4	190	ug/Kg
88-75-5	2-Nitrophenol	2300		100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2200		100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1900		93.8	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1900		82.5	190	ug/Kg
91-20-3	Naphthalene	1900		90.3	190	ug/Kg
106-47-8	4-Chloroaniline	820		90.3	190	ug/Kg
87-68-3	Hexachlorobutadiene	1900		91.0	190	ug/Kg
105-60-2	Caprolactam	1900		94.8	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2000		84.7	190	ug/Kg
91-57-6	2-Methylnaphthalene	1900		90.2	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6100	E	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2000		78.0	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1900		80.9	190	ug/Kg
92-52-4	1,1-Biphenyl	1900		95.5	190	ug/Kg
91-58-7	2-Chloronaphthalene	1800		91.0	190	ug/Kg
88-74-4	2-Nitroaniline	2200		100	190	ug/Kg
131-11-3	Dimethylphthalate	2000		89.3	190	ug/Kg

Raw Data: **BF140210.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MSD	SDG No.:	P4663
Lab Sample ID:	P4663-08MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140210.D	1	11/01/24 09:43	11/01/24 14:53	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2000		94.5	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	2100		90.9	190	ug/Kg
99-09-2	3-Nitroaniline	1300		97.5	190	ug/Kg
83-32-9	Acenaphthene	2100		88.6	190	ug/Kg
51-28-5	2,4-Dinitrophenol	4800	E	270	360	ug/Kg
100-02-7	4-Nitrophenol	4100	E	130	360	ug/Kg
132-64-9	Dibenzofuran	1900		92.2	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2300		94.2	190	ug/Kg
84-66-2	Diethylphthalate	2000		87.5	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1900		93.5	190	ug/Kg
86-73-7	Fluorene	1900		93.4	190	ug/Kg
100-01-6	4-Nitroaniline	2100		120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2700		130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1900		89.2	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1900		86.2	190	ug/Kg
118-74-1	Hexachlorobenzene	1900		92.9	190	ug/Kg
1912-24-9	Atrazine	2300		99.9	190	ug/Kg
87-86-5	Pentachlorophenol	3700	E	84.5	360	ug/Kg
85-01-8	Phenanthrene	1900		91.8	190	ug/Kg
120-12-7	Anthracene	2000		92.2	190	ug/Kg
86-74-8	Carbazole	1900		87.7	190	ug/Kg
84-74-2	Di-n-butylphthalate	2100		92.1	190	ug/Kg
206-44-0	Fluoranthene	1900		89.3	190	ug/Kg
129-00-0	Pyrene	2100		90.7	190	ug/Kg
85-68-7	Butylbenzylphthalate	3000	E	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1700		110	360	ug/Kg
56-55-3	Benzo(a)anthracene	2000		88.2	190	ug/Kg
218-01-9	Chrysene	2000		86.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	3300	E	99.4	190	ug/Kg
117-84-0	Di-n-octyl phthalate	2600		120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		88.6	190	ug/Kg

Raw Data: **BF140210.D**

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

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2MSD	SDG No.:	P4663
Lab Sample ID:	P4663-08MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
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
BF140210.D	1	11/01/24 09:43	11/01/24 14:53	PB164593

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1900		90.3	190	ug/Kg
50-32-8	Benzo(a)pyrene	2100		100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1900		85.3	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1900		88.7	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		87.5	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1900		94.8	190	ug/Kg
123-91-1	1,4-Dioxane	1500		120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2000		81.6	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	109		30 (18) - 130 (112)	73%	SPK: 150
13127-88-3	Phenol-d6	111		30 (15) - 130 (107)	74%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.4		30 (18) - 130 (107)	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	80.7		30 (20) - 130 (109)	81%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		30 (10) - 130 (116)	80%	SPK: 150
1718-51-0	Terphenyl-d14	94.8		30 (10) - 130 (105)	95%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	103000	6.887			
1146-65-2	Naphthalene-d8	410000	8.163			
15067-26-2	Acenaphthene-d10	235000	9.927			
1517-22-2	Phenanthrene-d10	418000	11.422			
1719-03-5	Chrysene-d12	200000	14.074			
1520-96-3	Perylene-d12	218000	15.568			

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

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

CALIBRATION SUMMARY

Response Factor Report BNA_E

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE102824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Oct 29 01:26:30 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BE101389.D 5 =BE101390.D 10 =BE101391.D 20 =BE101392.D 40 =BE101393.D 50 =BE101394.D 60 =BE101395.D 80 =BE101396.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.471	0.463	0.454	0.421	0.400	0.392	0.379	0.426	8.76
3)		Pyridine		1.064	1.123	1.255	1.196	1.252	1.287	1.252	1.204	6.80
4)		n-Nitrosodimet...		0.459	0.440	0.454	0.479	0.473	0.488	0.468	0.466	3.45
5)	S	2-Fluorophenol		1.134	1.073	1.142	1.153	1.143	1.187	1.155	1.141	3.03
6)		Aniline		1.059	1.262	1.529	1.346	1.301	1.224	0.767	1.213	19.92
7)	S	Phenol-d6		1.450	1.475	1.558	1.629	1.594	1.727	1.643	1.582	6.15
8)		2-Chlorophenol		1.335	1.305	1.371	1.403	1.369	1.426	1.371	1.369	2.94
9)		Benzaldehyde		0.793	0.849	0.861	0.807	0.678	0.595		0.764	13.74
10)	C	Phenol		1.488	1.456	1.766	1.826	1.797	1.914	1.769	1.717	10.16
11)		bis(2-Chloroet...		1.513	1.401	1.245	1.477	1.322	1.408	1.492	1.408	6.93
12)		1,3-Dichlorobe...		1.563	1.523	1.508	1.488	1.424	1.443	1.382	1.476	4.25
13)	C	1,4-Dichlorobe...		1.624	1.534	1.546	1.505	1.447	1.484	1.409	1.507	4.66
14)		1,2-Dichlorobe...		1.553	1.488	1.502	1.490	1.433	1.472	1.388	1.475	3.56
15)		Benzyl Alcohol		0.704	0.797	0.979	1.061	1.013	1.059	0.990	0.943	14.61
16)		2,2'-oxybis(1-...		1.840	1.857	1.816	1.794	1.711	1.746	1.642	1.772	4.33
17)		2-Methylphenol		1.038	1.078	1.142	1.217	1.181	1.263	1.215	1.162	6.96
18)		Hexachloroethane		0.497	0.486	0.492	0.497	0.495	0.496	0.481	0.492	1.28
19)	P	n-Nitroso-di-n...	0.807	0.900	1.060	1.081	1.150	1.115	1.185	1.102	1.050	12.35
20)		3+4-Methylphenols		1.364	1.500	1.580	1.685	1.646	1.778	1.674	1.604	8.53
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.427	0.447	0.467	0.481	0.449	0.462	0.446	0.454	3.79
23)	S	Nitrobenzene-d5		0.292	0.306	0.325	0.336	0.323	0.331	0.316	0.318	4.78
24)		Nitrobenzene		0.315	0.325	0.349	0.355	0.339	0.350	0.339	0.339	4.26
25)		Isophorone		0.533	0.601	0.624	0.665	0.639	0.655	0.632	0.621	7.13
26)	C	2-Nitrophenol		0.127	0.141	0.162	0.179	0.175	0.182	0.181	0.164	13.41
27)		2,4-Dimethylph...		0.196	0.194	0.207	0.215	0.206	0.215	0.211	0.206	4.19
28)		bis(2-Chloroet...		0.351	0.378	0.388	0.392	0.374	0.385	0.370	0.377	3.65
29)	C	2,4-Dichloroph...		0.257	0.268	0.285	0.297	0.287	0.305	0.297	0.285	6.00
30)		1,2,4-Trichlor...		0.325	0.311	0.315	0.314	0.304	0.307	0.299	0.311	2.71
31)		Naphthalene		1.092	1.040	1.039	1.045	0.982	0.999	0.936	1.019	5.00
32)		Benzoic acid			0.091	0.145	0.196	0.203	0.223	0.234	0.182	29.71
33)		4-Chloroaniline		0.321	0.355	0.373	0.398	0.364	0.365	0.305	0.354	8.87
34)	C	Hexachlorobuta...		0.193	0.185	0.187	0.187	0.179	0.180	0.176	0.184	3.26
35)		Caprolactam		0.077	0.093	0.109	0.119	0.118	0.126	0.124	0.109	16.48
36)	C	4-Chloro-3-met...		0.277	0.314	0.321	0.341	0.330	0.347	0.343	0.325	7.51
37)		2-Methylnaphth...		0.753	0.752	0.736	0.756	0.711	0.736	0.696	0.734	3.12
38)		1-Methylnaphth...		0.750	0.756	0.735	0.751	0.709	0.733	0.696	0.733	3.08

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE102824.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.522	0.493	0.515	0.512	0.491	0.499	0.481	0.502	2.96
41)	P	Hexachlorocycl...	0.153	0.150	0.179	0.177	0.173	0.168	0.162	0.166	6.85
42)	S	2,4,6-Tribromo...	0.329	0.341	0.358	0.366	0.355	0.359	0.346	0.351	3.59
43)	C	2,4,6-Trichlor...	0.310	0.325	0.352	0.369	0.353	0.360	0.353	0.346	6.01
44)		2,4,5-Trichlor...	0.356	0.372	0.401	0.415	0.402	0.418	0.411	0.396	5.93
45)	S	2-Fluorobiphenyl	1.359	1.275	1.283	1.226	1.114	1.072	0.938	1.181	12.39
46)		1,1'-Biphenyl	1.477	1.399	1.431	1.408	1.326	1.326	1.224	1.370	6.15
47)		2-Chloronaphth...	1.159	1.091	1.112	1.098	1.054	1.060	1.002	1.083	4.60
48)		2-Nitroaniline	0.214	0.243	0.295	0.318	0.318	0.329	0.322	0.291	15.45
49)		Acenaphthylene	1.613	1.605	1.656	1.677	1.586	1.597	1.473	1.601	4.07
50)		Dimethylphthalate	1.446	1.469	1.459	1.449	1.378	1.383	1.298	1.412	4.38
51)		2,6-Dinitrotol...	0.284	0.309	0.331	0.345	0.333	0.346	0.334	0.326	6.77
52)	C	Acenaphthene	1.120	1.080	1.073	1.075	1.016	1.017	0.936	1.045	5.79
53)		3-Nitroaniline	0.266	0.296	0.342	0.357	0.347	0.345	0.315	0.324	10.25
54)	P	2,4-Dinitrophenol		0.125	0.177	0.208	0.219	0.230	0.231	0.198	20.84
55)		Dibenzofuran	1.828	1.739	1.721	1.695	1.604	1.608	1.468	1.666	7.02
56)	P	4-Nitrophenol		0.219	0.291	0.311	0.318	0.324	0.318	0.297	13.34
57)		2,4-Dinitrotol...	0.344	0.407	0.454	0.481	0.480	0.495	0.481	0.449	12.18
58)		Fluorene	1.490	1.450	1.446	1.453	1.354	1.342	1.222	1.394	6.71
59)		2,3,4,6-Tetrac...	0.345	0.355	0.368	0.382	0.367	0.378	0.369	0.366	3.48
60)		Diethylphthalate	1.499	1.532	1.560	1.535	1.456	1.427	1.327	1.477	5.47
61)		4-Chlorophenyl...	0.737	0.713	0.705	0.707	0.676	0.673	0.631	0.692	5.05
62)		4-Nitroaniline	0.267	0.316	0.374	0.391	0.393	0.394	0.389	0.361	13.79
63)		Azobenzene	1.280	1.309	1.331	1.319	1.248	1.245	1.154	1.269	4.80
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.086	0.108	0.123	0.125	0.131	0.133	0.118	15.15
66)	c	n-Nitrosodiphe...	0.542	0.548	0.545	0.553	0.516	0.520	0.489	0.530	4.33
67)		4-Bromophenyl-...	0.211	0.207	0.209	0.215	0.208	0.215	0.209	0.210	1.48
68)		Hexachlorobenzene	0.283	0.272	0.274	0.283	0.271	0.278	0.269	0.276	2.01
69)		Atrazine	0.182	0.179	0.160	0.184	0.109			0.163	19.39
70)	C	Pentachlorophenol	0.116	0.137	0.159	0.173	0.172	0.177	0.177	0.159	14.86
71)		Phenanthrene	1.068	1.023	1.012	0.991	0.912	0.896	0.801	0.958	9.62
72)		Anthracene	1.002	0.972	0.997	0.979	0.909	0.893	0.793	0.935	8.08
73)		Carbazole	1.010	0.987	1.033	0.995	0.939	0.914	0.820	0.957	7.62
74)		Di-n-butylphth...	1.018	1.088	1.221	1.136	1.058	0.985	0.867	1.053	10.73
75)	C	Fluoranthene	1.320	1.268	1.306	1.199	1.102	1.043	0.903	1.163	13.27
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.236	0.285	0.253	0.347	0.228	0.198	0.230	0.254	19.22
78)		Pyrene	1.176	1.206	1.184	1.174	1.052	1.016	0.890	1.100	10.69
79)	S	Terphenyl-d14	1.036	1.023	0.970	0.841	0.686	0.657		0.869	19.31
80)		Butylbenzylpht...	0.443	0.467	0.515	0.510	0.494	0.490	0.455	0.482	5.73
81)		Benzo(a)anthra...	1.277	1.238	1.243	1.174	1.047	1.010	0.879	1.124	13.18
82)		3,3'-Dichlorob...	0.404	0.438	0.470	0.481	0.450	0.444	0.396	0.440	7.11
83)		Chrysene	1.266	1.225	1.201	1.110	1.005	0.962	0.838	1.087	14.51
84)		Bis(2-ethylhex...	0.550	0.608	0.705	0.698	0.672	0.659	0.591	0.641	9.15
85)	c	Di-n-octyl pht...	0.987	1.057	1.209	1.137	1.053	1.032	0.883	1.051	9.92

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE102824.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.390	1.352	1.390	1.394	1.315	1.315	1.214	1.338	4.83
88)		Benzo(b)fluora...	1.076	1.113	1.100	1.110	1.023	1.000	0.873	1.042	8.29
89)		Benzo(k)fluora...	1.126	1.042	1.087	1.015	0.897	0.875	0.774	0.974	13.13
90)	C	Benzo(a)pyrene	0.935	0.933	0.961	0.966	0.899	0.890	0.796	0.912	6.37
91)		Dibenzo(a,h)an...	1.130	1.125	1.169	1.170	1.089	1.083	0.977	1.106	6.00
92)		Benzo(g,h,i)pe...	1.162	1.130	1.155	1.179	1.125	1.152	1.075	1.140	2.98

(#) = Out of Range

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: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: BNA_E Calibration Date/Time: 11/01/2024 09:41

Lab File ID: BE101444.D Init. Calib. Date(s): 10/28/2024 10/28/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:44 16:01

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.141	1.168		2.4	
Benzaldehyde	0.764	0.819		7.2	
Phenol-d6	1.582	1.589		0.4	
Phenol	1.717	1.748		1.8	20.0
bis(2-Chloroethyl)ether	1.408	1.191		-15.4	
2-Chlorophenol	1.369	1.347		-1.6	
2-Methylphenol	1.162	1.098		-5.5	
2,2-oxybis(1-Chloropropane)	1.772	1.597		-9.9	
Acetophenone	0.454	0.460		1.3	
3+4-Methylphenols	1.604	1.533		-4.4	
n-Nitroso-di-n-propylamine	1.050	1.041	0.050	-0.9	
Nitrobenzene-d5	0.318	0.323		1.6	
Hexachloroethane	0.492	0.490		-0.4	
Nitrobenzene	0.339	0.336		-0.9	
Isophorone	0.621	0.619		-0.3	
2-Nitrophenol	0.164	0.178		8.5	20.0
2,4-Dimethylphenol	0.206	0.207		0.5	
bis(2-Chloroethoxy)methane	0.377	0.366		-2.9	
2,4-Dichlorophenol	0.285	0.285		0.0	20.0
Naphthalene	1.019	0.982		-3.6	
4-Chloroaniline	0.354	0.374		5.7	
Hexachlorobutadiene	0.184	0.184		0.0	20.0
Caprolactam	0.109	0.122		11.9	
4-Chloro-3-methylphenol	0.325	0.315		-3.1	20.0
2-Methylnaphthalene	0.734	0.694		-5.4	
Hexachlorocyclopentadiene	0.166	0.170	0.050	2.4	
2,4,6-Trichlorophenol	0.346	0.360		4.0	20.0
2-Fluorobiphenyl	1.181	1.198		1.4	
2,4,5-Trichlorophenol	0.396	0.397		0.3	
1,1-Biphenyl	1.370	1.350		-1.5	
2-Chloronaphthalene	1.083	1.070		-1.2	
2-Nitroaniline	0.291	0.315		8.2	
Dimethylphthalate	1.412	1.430		1.3	
Acenaphthylene	1.601	1.626		1.6	
2,6-Dinitrotoluene	0.326	0.333		2.1	
3-Nitroaniline	0.324	0.365		12.7	
Acenaphthene	1.045	1.027		-1.7	20.0
2,4-Dinitrophenol	0.198	0.212	0.050	7.1	
4-Nitrophenol	0.297	0.320	0.050	7.7	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: BNA_E Calibration Date/Time: 11/01/2024 09:41

Lab File ID: BE101444.D Init. Calib. Date(s): 10/28/2024 10/28/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:44 16:01

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.666	1.645		-1.3	
2,4-Dinitrotoluene	0.449	0.492		9.6	
Diethylphthalate	1.477	1.543		4.5	
4-Chlorophenyl-phenylether	0.692	0.681		-1.6	
Fluorene	1.394	1.395		0.1	
4-Nitroaniline	0.361	0.412		14.1	
4,6-Dinitro-2-methylphenol	0.118	0.127		7.6	
n-Nitrosodiphenylamine	0.530	0.510		-3.8	20.0
2,4,6-Tribromophenol	0.351	0.374		6.6	
4-Bromophenyl-phenylether	0.210	0.202		-3.8	
Hexachlorobenzene	0.276	0.267		-3.3	
Atrazine	0.163	0.179		9.8	
Pentachlorophenol	0.159	0.165		3.8	20.0
Phenanthrene	0.958	0.957		-0.1	
Anthracene	0.935	0.956		2.2	
Carbazole	0.957	1.014		6.0	
Di-n-butylphthalate	1.053	1.233		17.1	
Fluoranthene	1.163	1.281		10.1	20.0
Pyrene	1.100	1.127		2.5	
Terphenyl-d14	0.869	0.865		-0.5	
Butylbenzylphthalate	0.482	0.515		6.8	
3,3-Dichlorobenzidine	0.440	0.460		4.5	
Benzo(a)anthracene	1.124	1.167		3.8	
Chrysene	1.087	1.107		1.8	
Bis(2-ethylhexyl)phthalate	0.641	0.734		14.5	
Di-n-octyl phthalate	1.051	1.226		16.7	20.0
Benzo(b)fluoranthene	1.042	1.078		3.5	
Benzo(k)fluoranthene	0.974	0.983		0.9	
Benzo(a)pyrene	0.912	0.928		1.8	20.0
Indeno(1,2,3-cd)pyrene	1.338	1.358		1.5	
Dibenzo(a,h)anthracene	1.106	1.131		2.3	
Benzo(g,h,i)perylene	1.140	1.141		0.1	
1,2,4,5-Tetrachlorobenzene	0.502	0.501		-0.2	
1,4-Dioxane	0.426	0.428		0.5	20.0
2,3,4,6-Tetrachlorophenol	0.366	0.372		1.6	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: BNA_E Calibration Date/Time: 11/04/2024 12:49

Lab File ID: BE101453.D Init. Calib. Date(s): 10/28/2024 10/28/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:44 16:01

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.141	1.142		0.1	
Benzaldehyde	0.764	0.860		12.6	
Phenol-d6	1.582	1.573		-0.6	
Phenol	1.717	1.726		0.5	20.0
bis(2-Chloroethyl)ether	1.408	1.331		-5.5	
2-Chlorophenol	1.369	1.336		-2.4	
2-Methylphenol	1.162	1.141		-1.8	
2,2-oxybis(1-Chloropropane)	1.772	1.654		-6.7	
Acetophenone	0.454	0.449		-1.1	
3+4-Methylphenols	1.604	1.572		-2.0	
n-Nitroso-di-n-propylamine	1.050	1.065	0.050	1.4	
Nitrobenzene-d5	0.318	0.321		0.9	
Hexachloroethane	0.492	0.496		0.8	
Nitrobenzene	0.339	0.336		-0.9	
Isophorone	0.621	0.634		2.1	
2-Nitrophenol	0.164	0.179		9.1	20.0
2,4-Dimethylphenol	0.206	0.206		0.0	
bis(2-Chloroethoxy)methane	0.377	0.376		-0.3	
2,4-Dichlorophenol	0.285	0.289		1.4	20.0
Naphthalene	1.019	0.990		-2.8	
4-Chloroaniline	0.354	0.367		3.7	
Hexachlorobutadiene	0.184	0.188		2.2	20.0
Caprolactam	0.109	0.110		0.9	
4-Chloro-3-methylphenol	0.325	0.320		-1.5	20.0
2-Methylnaphthalene	0.734	0.708		-3.5	
Hexachlorocyclopentadiene	0.166	0.176	0.050	6.0	
2,4,6-Trichlorophenol	0.346	0.363		4.9	20.0
2-Fluorobiphenyl	1.181	1.206		2.1	
2,4,5-Trichlorophenol	0.396	0.409		3.3	
1,1-Biphenyl	1.370	1.373		0.2	
2-Chloronaphthalene	1.083	1.082		-0.1	
2-Nitroaniline	0.291	0.312		7.2	
Dimethylphthalate	1.412	1.388		-1.7	
Acenaphthylene	1.601	1.623		1.4	
2,6-Dinitrotoluene	0.326	0.329		0.9	
3-Nitroaniline	0.324	0.338		4.3	
Acenaphthene	1.045	1.019		-2.5	20.0
2,4-Dinitrophenol	0.198	0.202	0.050	2.0	
4-Nitrophenol	0.297	0.287	0.050	-3.4	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: BNA_E Calibration Date/Time: 11/04/2024 12:49

Lab File ID: BE101453.D Init. Calib. Date(s): 10/28/2024 10/28/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:44 16:01

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.666	1.629		-2.2	
2,4-Dinitrotoluene	0.449	0.464		3.3	
Diethylphthalate	1.477	1.453		-1.6	
4-Chlorophenyl-phenylether	0.692	0.673		-2.7	
Fluorene	1.394	1.357		-2.7	
4-Nitroaniline	0.361	0.363		0.6	
4,6-Dinitro-2-methylphenol	0.118	0.126		6.8	
n-Nitrosodiphenylamine	0.530	0.534		0.8	20.0
2,4,6-Tribromophenol	0.351	0.356		1.4	
4-Bromophenyl-phenylether	0.210	0.215		2.4	
Hexachlorobenzene	0.276	0.283		2.5	
Atrazine	0.163	0.168		3.1	
Pentachlorophenol	0.159	0.167		5.0	20.0
Phenanthrene	0.958	0.959		0.1	
Anthracene	0.935	0.954		2.0	
Carbazole	0.957	0.955		-0.2	
Di-n-butylphthalate	1.053	1.162		10.4	
Fluoranthene	1.163	1.186		2.0	20.0
Pyrene	1.100	1.154		4.9	
Terphenyl-d14	0.869	0.859		-1.2	
Butylbenzylphthalate	0.482	0.516		7.1	
3,3-Dichlorobenzidine	0.440	0.461		4.8	
Benzo(a)anthracene	1.124	1.162		3.4	
Chrysene	1.087	1.095		0.7	
Bis(2-ethylhexyl)phthalate	0.641	0.746		16.4	
Di-n-octyl phthalate	1.051	1.236		17.6	20.0
Benzo(b)fluoranthene	1.042	1.060		1.7	
Benzo(k)fluoranthene	0.974	0.991		1.7	
Benzo(a)pyrene	0.912	0.933		2.3	20.0
Indeno(1,2,3-cd)pyrene	1.338	1.355		1.3	
Dibenzo(a,h)anthracene	1.106	1.127		1.9	
Benzo(g,h,i)perylene	1.140	1.151		1.0	
1,2,4,5-Tetrachlorobenzene	0.502	0.515		2.6	
1,4-Dioxane	0.426	0.408		-4.2	20.0
2,3,4,6-Tetrachlorophenol	0.366	0.365		-0.3	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: BNA_F Calibration Date/Time: 11/01/2024 09:22

Lab File ID: BF140200.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
2-Fluorophenol	1.278	1.245		-2.7	
Benzaldehyde	0.931	0.962		3.3	
Phenol-d6	1.655	1.646		-0.5	
Phenol	1.706	1.707		0.1	20.0
bis(2-Chloroethyl)ether	1.319	1.336		1.3	
2-Chlorophenol	1.306	1.308		0.2	
2-Methylphenol	1.114	1.140		2.3	
2,2-oxybis(1-Chloropropane)	2.248	2.316		3.0	
Acetophenone	0.490	0.483		-1.4	
3+4-Methylphenols	1.424	1.392		-2.2	
n-Nitroso-di-n-propylamine	1.004	0.996	0.050	-0.8	
Nitrobenzene-d5	0.361	0.401		11.1	
Hexachloroethane	0.534	0.561		5.1	
Nitrobenzene	0.396	0.419		5.8	
Isophorone	0.685	0.699		2.0	
2-Nitrophenol	0.149	0.184		23.5	20.0
2,4-Dimethylphenol	0.249	0.239		-4.0	
bis(2-Chloroethoxy)methane	0.415	0.418		0.7	
2,4-Dichlorophenol	0.283	0.288		1.8	20.0
Naphthalene	1.031	1.035		0.4	
4-Chloroaniline	0.352	0.334		-5.1	
Hexachlorobutadiene	0.197	0.205		4.1	20.0
Caprolactam	0.090	0.100		11.1	
4-Chloro-3-methylphenol	0.314	0.326		3.8	20.0
2-Methylnaphthalene	0.632	0.643		1.7	
Hexachlorocyclopentadiene	0.188	0.186	0.050	-1.1	
2,4,6-Trichlorophenol	0.382	0.399		4.4	20.0
2-Fluorobiphenyl	1.210	1.197		-1.1	
2,4,5-Trichlorophenol	0.394	0.403		2.3	
1,1-Biphenyl	1.392	1.370		-1.6	
2-Chloronaphthalene	1.121	1.119		-0.2	
2-Nitroaniline	0.343	0.409		19.2	
Dimethylphthalate	1.246	1.300		4.3	
Acenaphthylene	1.621	1.616		-0.3	
2,6-Dinitrotoluene	0.270	0.305		13.0	
3-Nitroaniline	0.278	0.318		14.4	
Acenaphthene	1.049	1.094		4.3	20.0
2,4-Dinitrophenol	0.093	0.177	0.050	90.3	
4-Nitrophenol	0.214	0.257	0.050	20.1	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG No.: P4663

Instrument ID: BNA_F Calibration Date/Time: 11/01/2024 09:22

Lab File ID: BF140200.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
Dibenzofuran	1.505	1.497		-0.5	
2,4-Dinitrotoluene	0.332	0.409		23.2	
Diethylphthalate	1.223	1.283		4.9	
4-Chlorophenyl-phenylether	0.579	0.592		2.2	
Fluorene	1.146	1.175		2.5	
4-Nitroaniline	0.263	0.334		27.0	
4,6-Dinitro-2-methylphenol	0.082	0.129		57.3	
n-Nitrosodiphenylamine	0.599	0.588		-1.8	20.0
2,4,6-Tribromophenol	0.187	0.211		12.8	
4-Bromophenyl-phenylether	0.206	0.207		0.5	
Hexachlorobenzene	0.232	0.231		-0.4	
Atrazine	0.162	0.166		2.5	
Pentachlorophenol	0.141	0.159		12.8	20.0
Phenanthrene	0.945	0.934		-1.2	
Anthracene	0.922	0.926		0.4	
Carbazole	0.857	0.877		2.3	
Di-n-butylphthalate	0.990	1.074		8.5	
Fluoranthene	0.955	1.027		7.5	20.0
Pyrene	1.751	1.637		-6.5	
Terphenyl-d14	1.227	1.172		-4.5	
Butylbenzylphthalate	0.525	0.656		25.0	
3,3-Dichlorobenzidine	0.380	0.424		11.6	
Benzo(a)anthracene	1.302	1.323		1.6	
Chrysene	1.194	1.237		3.6	
Bis(2-ethylhexyl)phthalate	0.589	0.869		47.5	
Di-n-octyl phthalate	1.071	1.344		25.5	20.0
Benzo(b)fluoranthene	1.218	1.286		5.6	
Benzo(k)fluoranthene	1.051	1.245		18.5	
Benzo(a)pyrene	1.002	1.068		6.6	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.255		-2.5	
Dibenzo(a,h)anthracene	1.073	1.035		-3.5	
Benzo(g,h,i)perylene	1.072	1.055		-1.6	
1,2,4,5-Tetrachlorobenzene	0.540	0.549		1.7	
1,4-Dioxane	0.596	0.508		-14.8	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.324		4.9	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Sample Results: **BE101450.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101450.D
Acq On : 1 Nov 2024 15:45
Operator : RC/JU
Sample : P4663-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 01 17:22:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.573	152	90671	20.000	ng		0.00
21) Naphthalene-d8	10.340	136	396894	20.000	ng		0.00
39) Acenaphthene-d10	14.182	164	265226	20.000	ng		0.00
64) Phenanthrene-d10	16.920	188	598076	20.000	ng		0.00
76) Chrysene-d12	21.080	240	668565	20.000	ng		0.00
86) Perylene-d12	23.378	264	876363	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.322	112	536510	103.707	ng		0.00
7) Phenol-d6	6.950	99	708836	98.815	ng		0.00
23) Nitrobenzene-d5	8.783	82	408608	64.663	ng		0.00
42) 2,4,6-Tribromophenol	15.692	330	468925	100.875	ng		0.00
45) 2-Fluorobiphenyl	12.802	172	1073639	68.555	ng		0.00
79) Terphenyl-d14	19.517	244	2147495	73.928	ng		0.00
Target Compounds							Qvalue
71) Phenanthrene	16.962	178	63526	2.218	ng		98
75) Fluoranthene	18.965	202	169582	4.876	ng		96
78) Pyrene	19.335	202	156114	4.246	ng		96
81) Benzo(a)anthracene	21.063	228	96709	2.574	ng		97
83) Chrysene	21.116	228	102572	2.823	ng		97
88) Benzo(b)fluoranthene	22.661	252	152832m	3.346	ng		
90) Benzo(a)pyrene	23.266	252	107140	2.682	ng	#	90

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

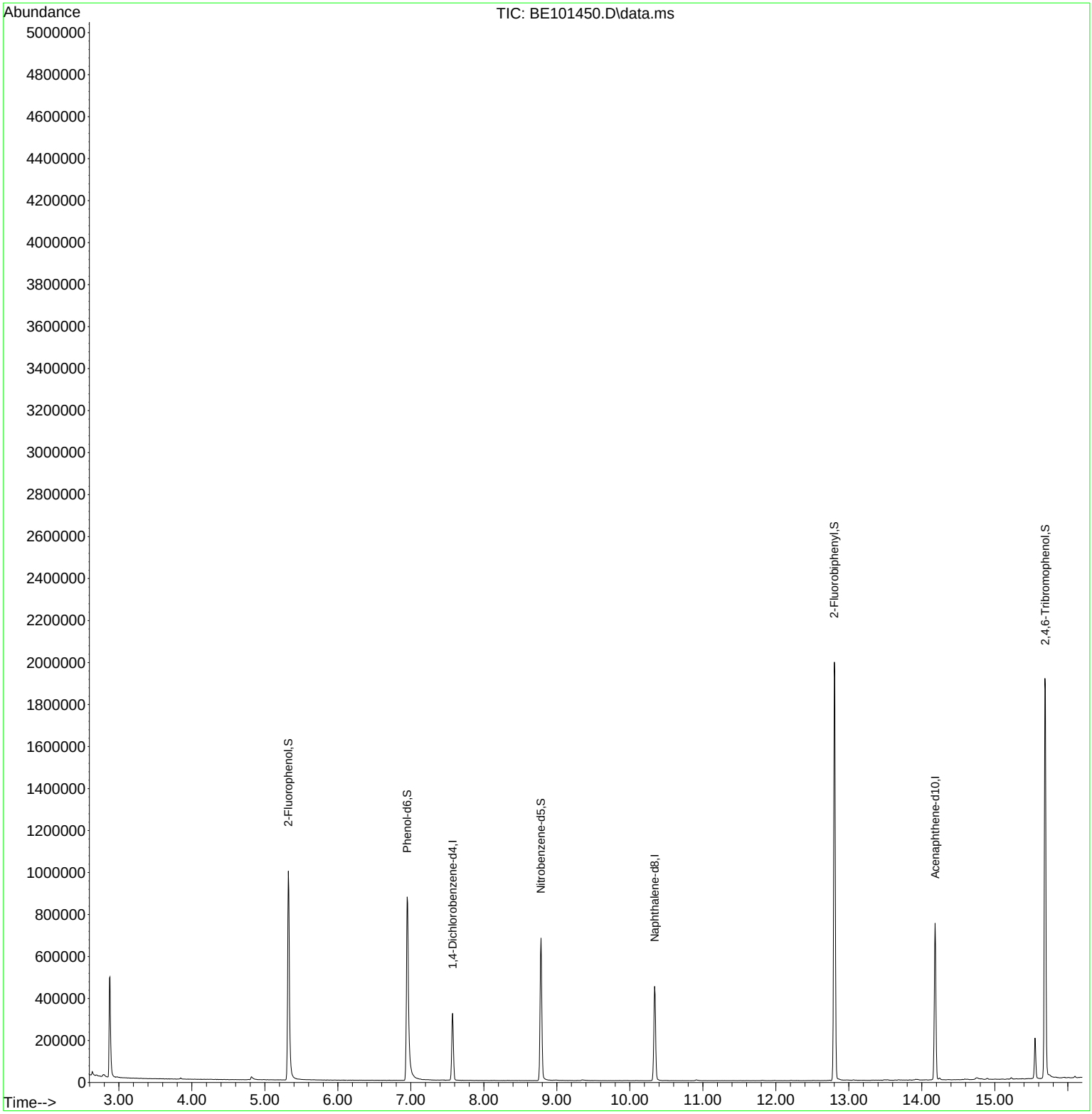
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101450.D
Acq On : 1 Nov 2024 15:45
Operator : RC/JU
Sample : P4663-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 01 17:22:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



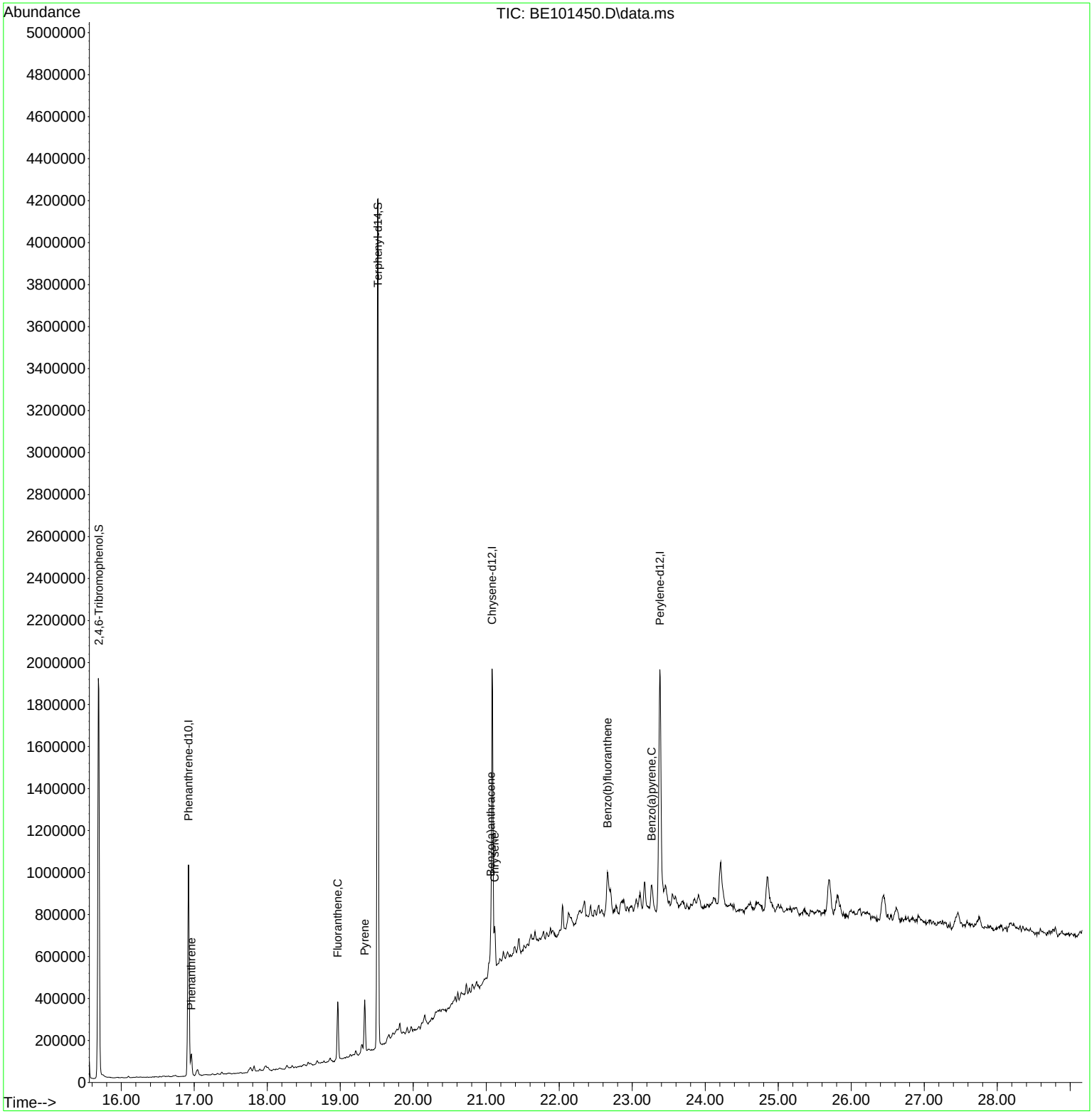
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101450.D
Acq On : 1 Nov 2024 15:45
Operator : RC/JU
Sample : P4663-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

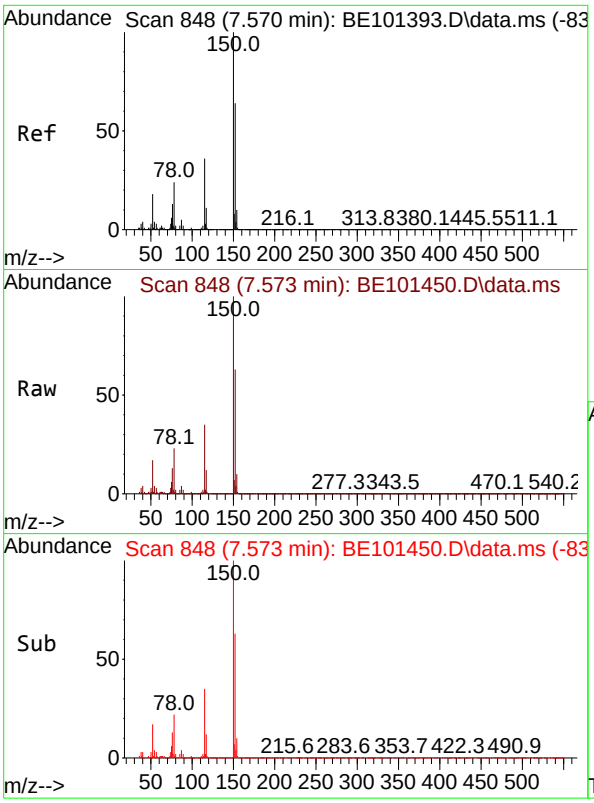
Quant Time: Nov 01 17:22:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

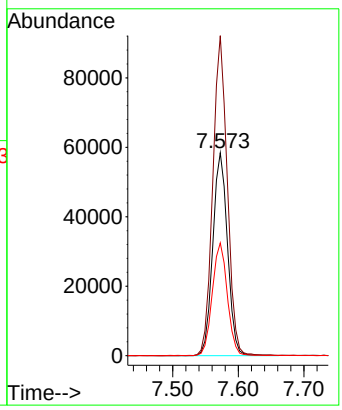




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.573 min Scan# 84
Delta R.T. 0.003 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:152 Resp: 9067

Ion	Ratio	Lower	Upper
152	100		
150	157.8	124.2	186.4
115	55.6	45.3	67.9



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

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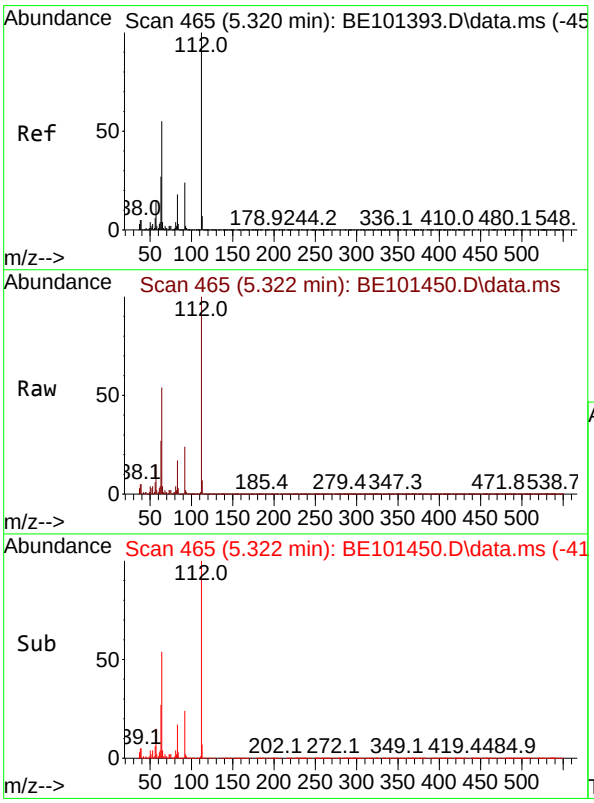
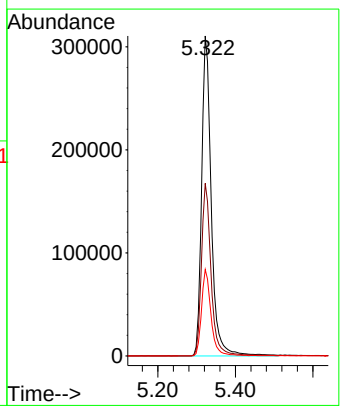
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

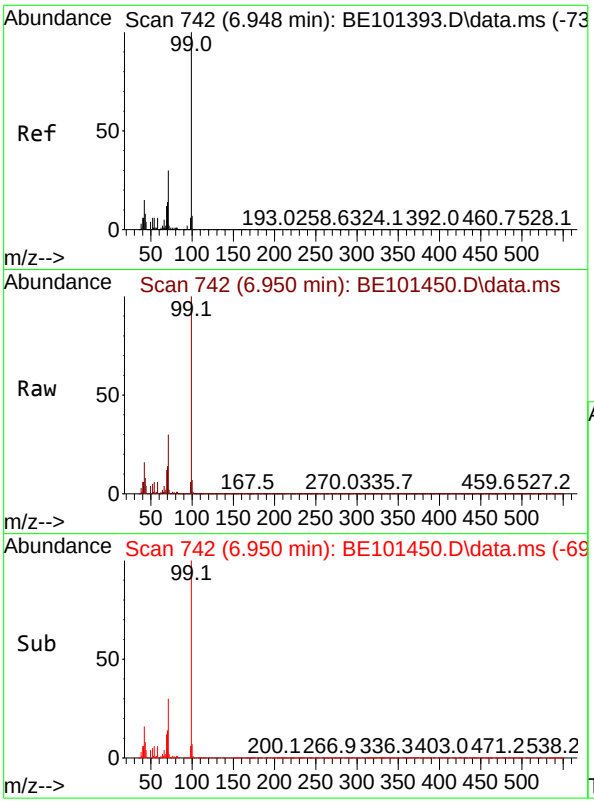


#5
2-Fluorophenol
Concen: 103.707 ng
RT: 5.322 min Scan# 465
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:112 Resp: 536510

Ion	Ratio	Lower	Upper
112	100		
64	54.0	43.7	65.5
63	27.0	21.4	32.2

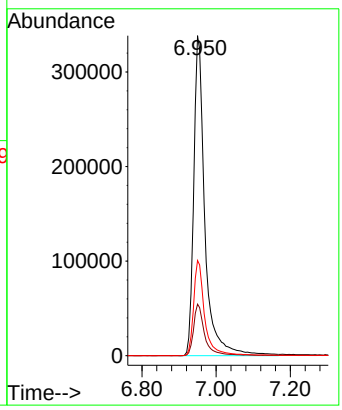




#7
Phenol-d6
Concen: 98.815 ng
RT: 6.950 min Scan# 74
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion: 99 Resp: 70883

Ion	Ratio	Lower	Upper
99	100		
42	16.1	12.3	18.5
71	29.8	23.8	35.8



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

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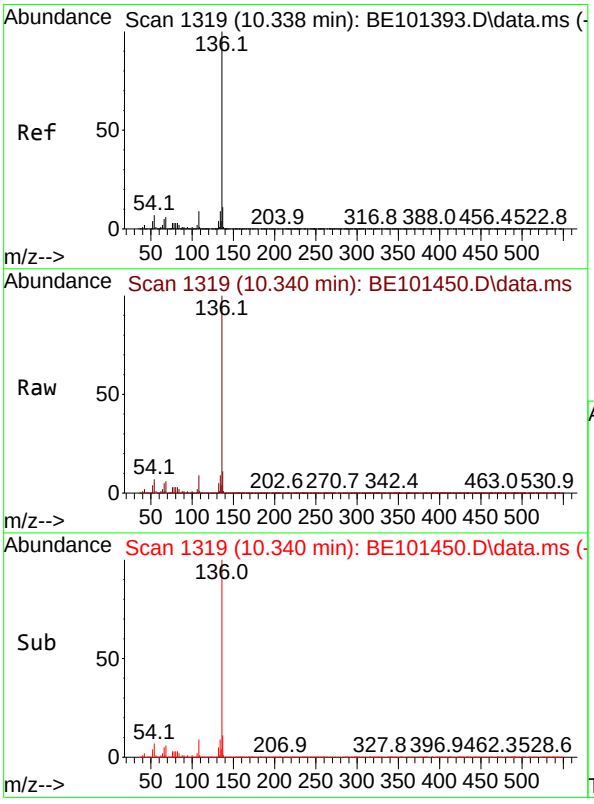
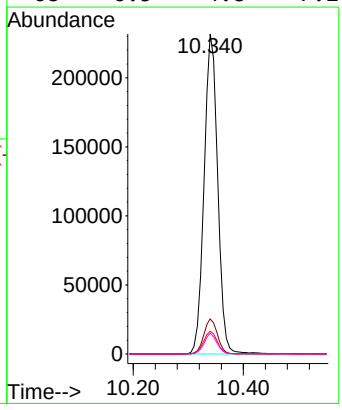
Supervised By :mohammad ahmed 11/04/2024

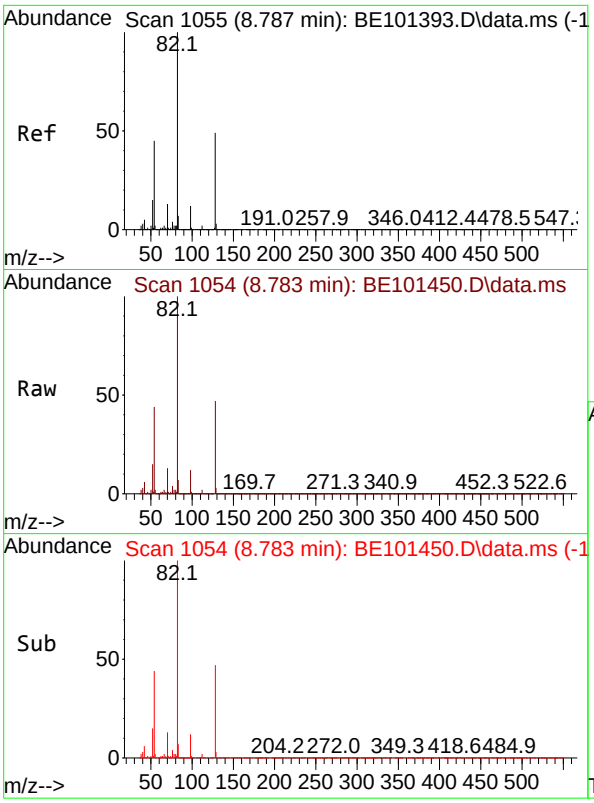


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.340 min Scan# 1319
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:136 Resp: 396894

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.6
54	7.1	5.9	8.9
68	6.5	4.8	7.2

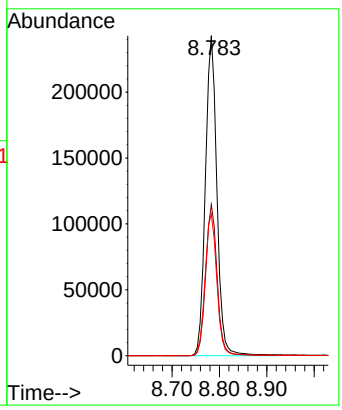




#23
Nitrobenzene-d5
Concen: 64.663 ng
RT: 8.783 min Scan# 1
Delta R.T. -0.004 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion: 82 Resp: 40860

Ion	Ratio	Lower	Upper
82	100		
128	47.2	38.9	58.3
54	44.3	36.2	54.4



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

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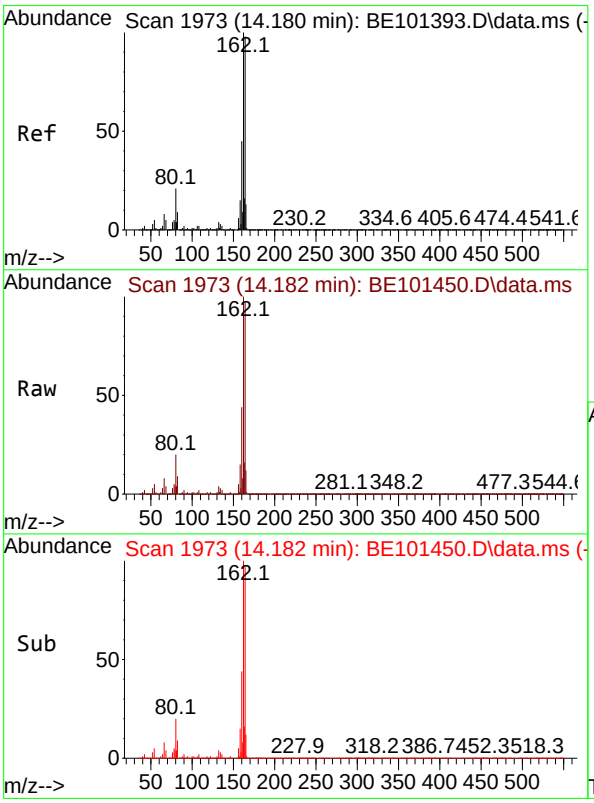
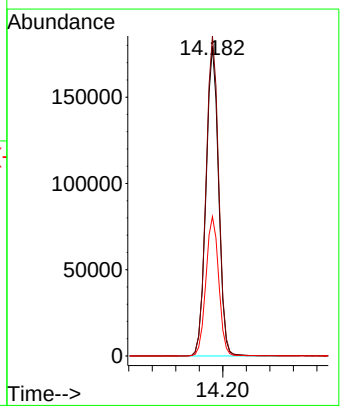
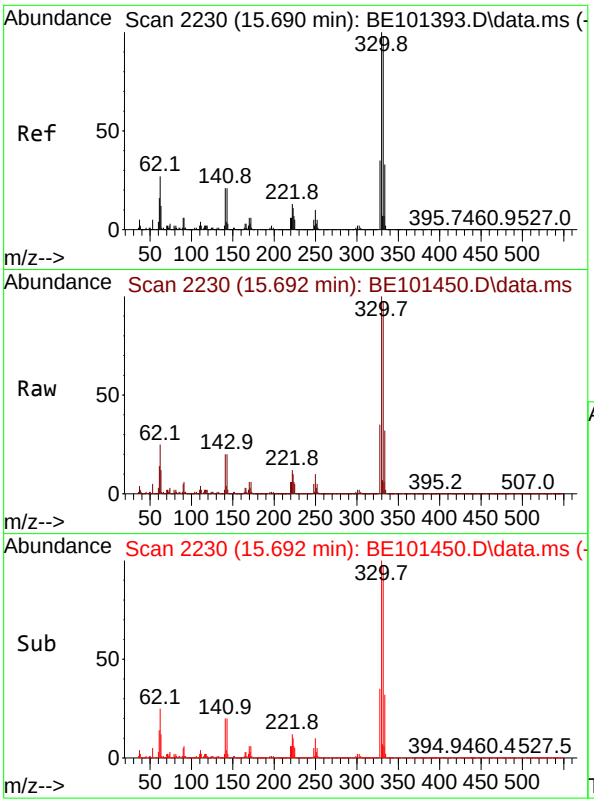


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.182 min Scan# 1973
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:164 Resp: 265226

Ion	Ratio	Lower	Upper
164	100		
162	103.4	81.3	121.9
160	45.0	36.4	54.6

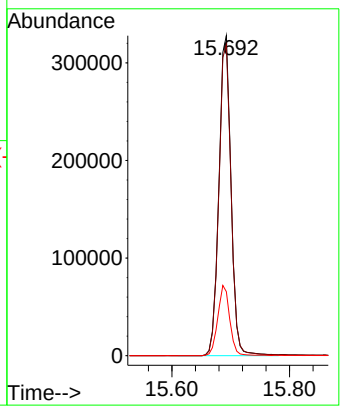




#42
2,4,6-Tribromophenol
Concen: 100.875 ng
RT: 15.692 min Scan# 2
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:330 Resp: 46892

Ion	Ratio	Lower	Upper
330	100		
332	98.4	78.2	117.2
141	21.7	18.3	27.5



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

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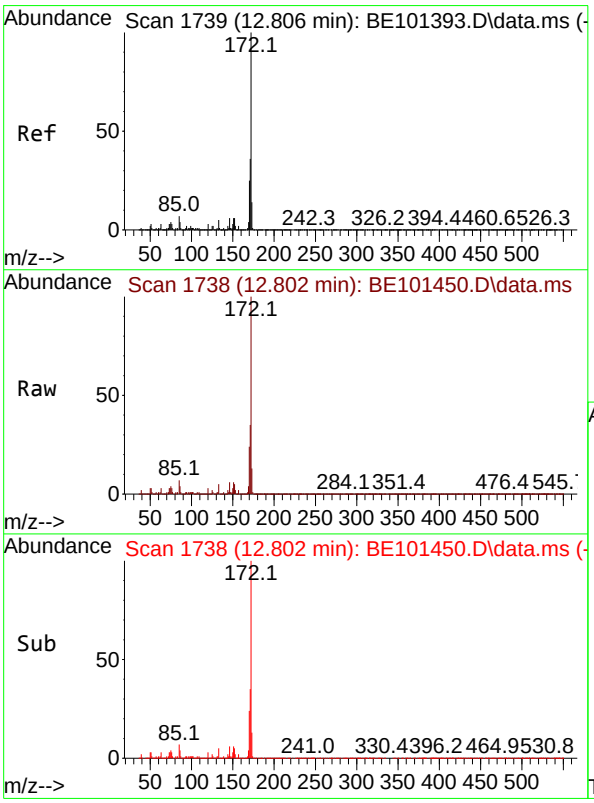
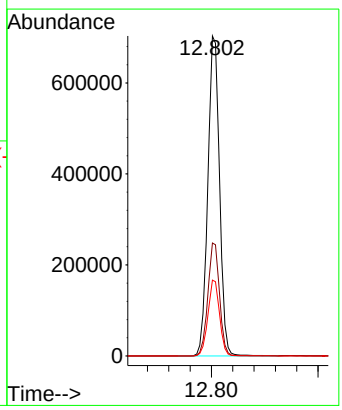
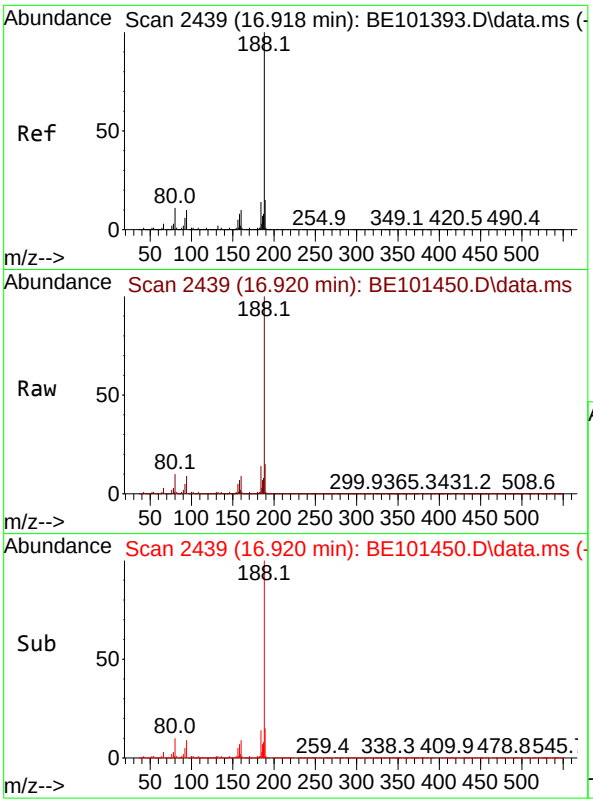


#45
2-Fluorobiphenyl
Concen: 68.555 ng
RT: 12.802 min Scan# 1738
Delta R.T. -0.004 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:172 Resp: 1073639

Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.2	43.8
170	23.7	19.8	29.6

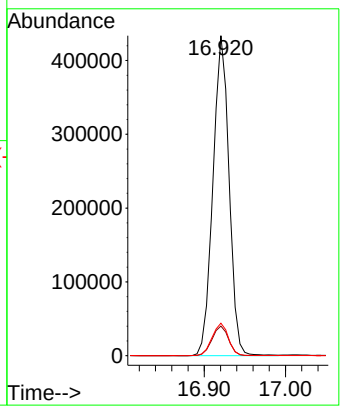




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.920 min Scan# 24
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:188 Resp: 59807

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.8	11.8
80	10.2	8.6	12.8



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

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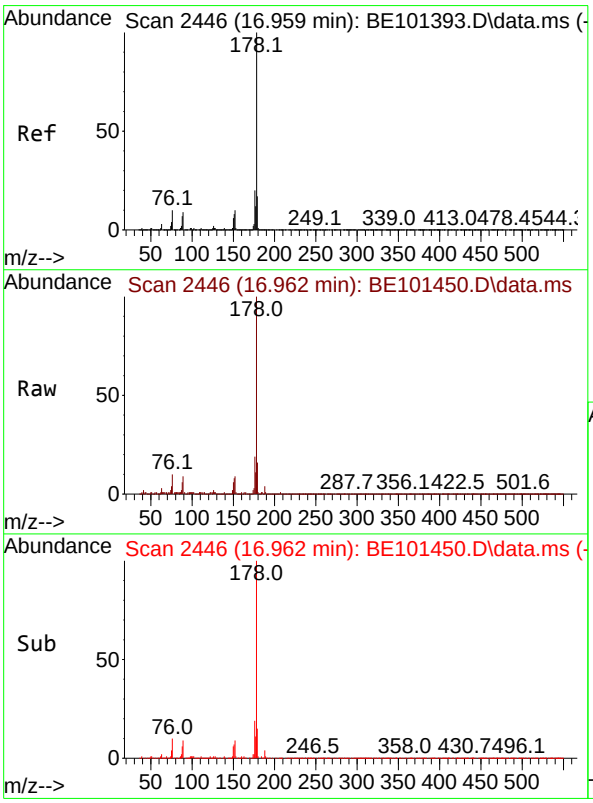
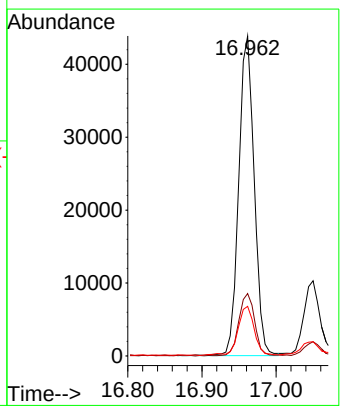
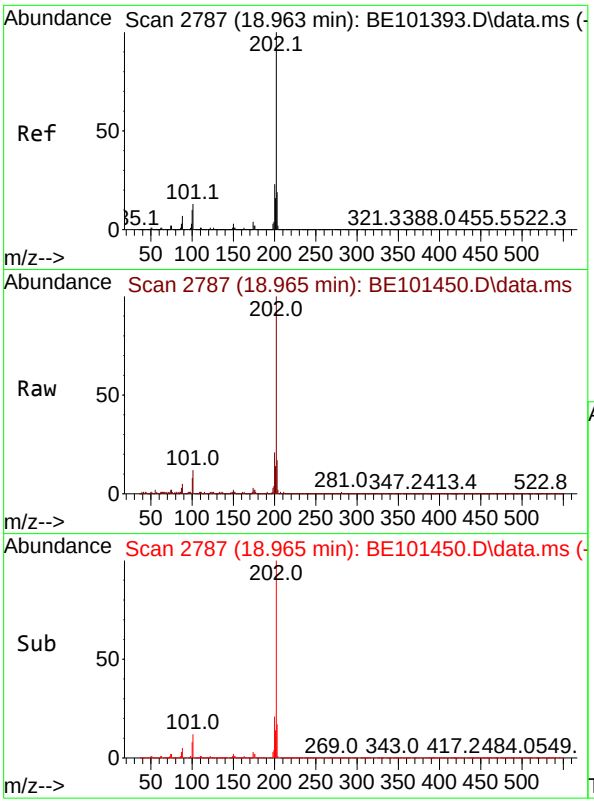


#71
Phenanthrene
Concen: 2.218 ng
RT: 16.962 min Scan# 2446
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:178 Resp: 63526

Ion	Ratio	Lower	Upper
178	100		
176	19.5	16.4	24.6
179	15.5	13.2	19.8

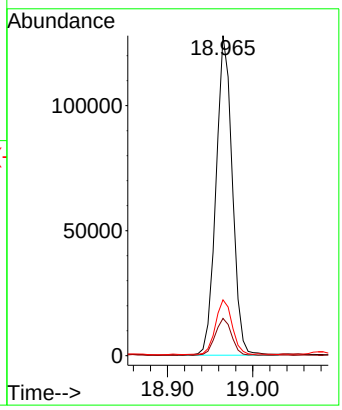




#75
Fluoranthene
Concen: 4.876 ng
RT: 18.965 min Scan# 2
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:202 Resp: 16958

Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	33.3
203	17.4	0.0	39.3



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

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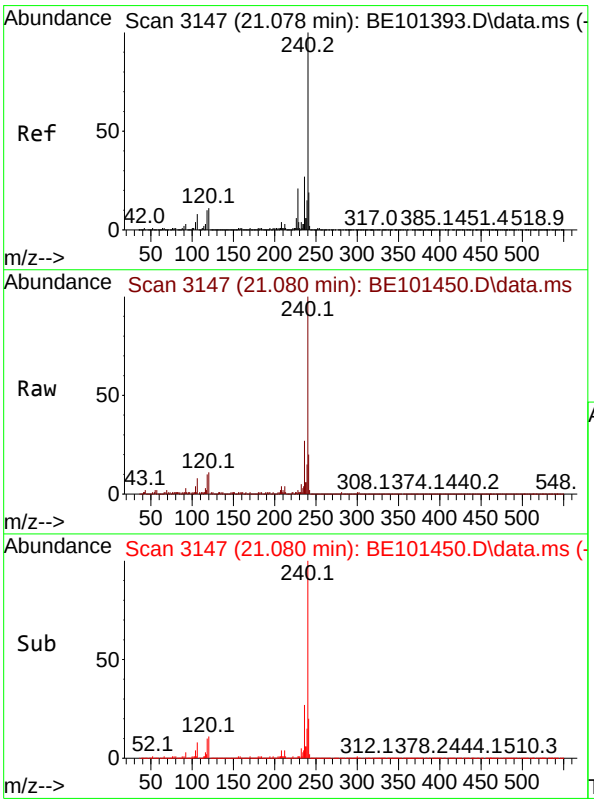
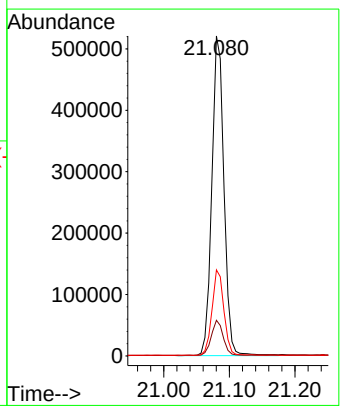
Supervised By :mohammad ahmed 11/04/2024

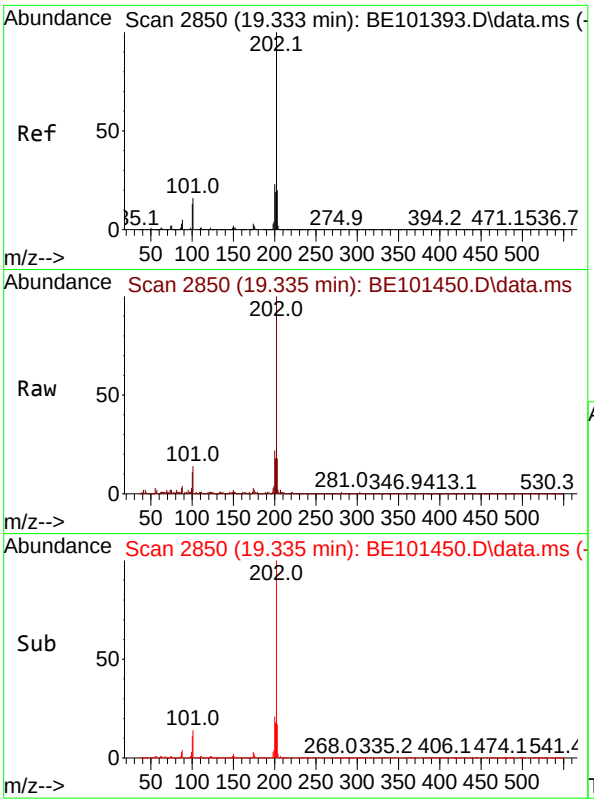


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.080 min Scan# 3147
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:240 Resp: 668565

Ion	Ratio	Lower	Upper
240	100		
120	11.1	9.0	13.4
236	26.9	21.4	32.0

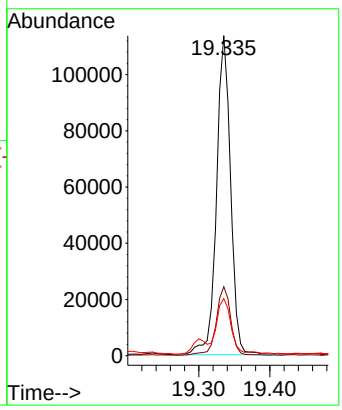




#78
Pyrene
Concen: 4.246 ng
RT: 19.335 min Scan# 2
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:202 Resp: 15611

Ion	Ratio	Lower	Upper
202	100		
200	21.5	18.6	28.0
203	17.9	15.6	23.4



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

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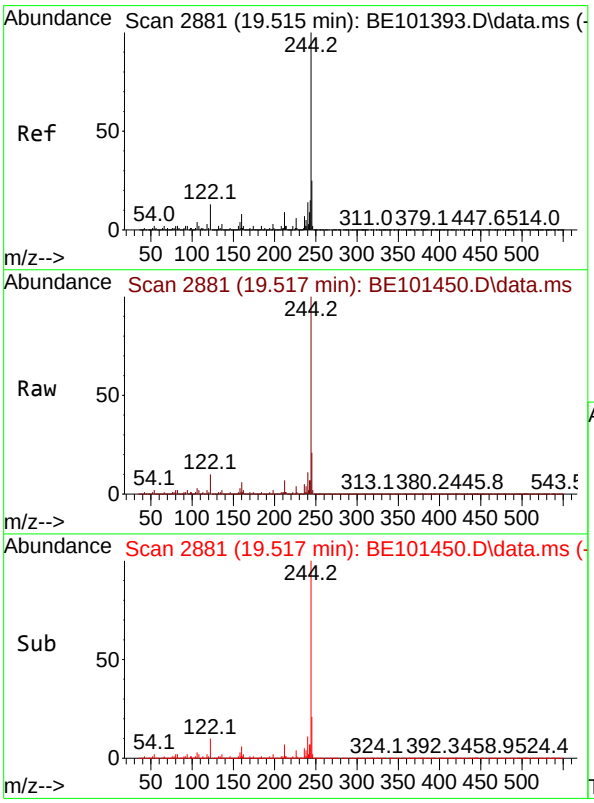
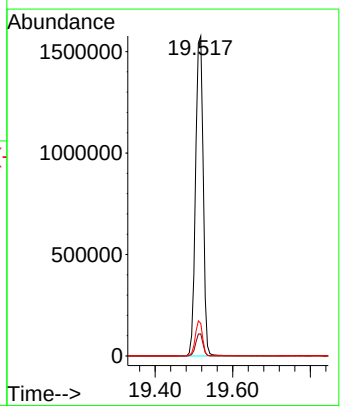
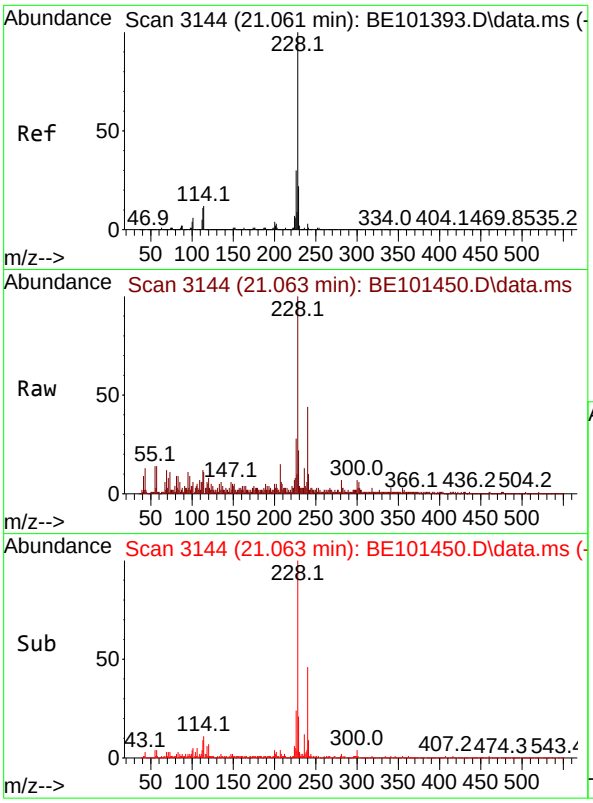


#79
Terphenyl-d14
Concen: 73.928 ng
RT: 19.517 min Scan# 2881
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:244 Resp: 2147495

Ion	Ratio	Lower	Upper
244	100		
212	6.9	7.2	10.8#
122	10.2	10.4	15.6#

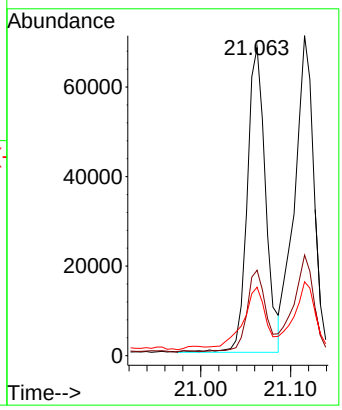




#81
Benzo(a)anthracene
Concen: 2.574 ng
RT: 21.063 min Scan# 3
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:228 Resp: 9670

Ion	Ratio	Lower	Upper
228	100		
226	27.7	24.1	36.1
229	22.2	17.3	25.9



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

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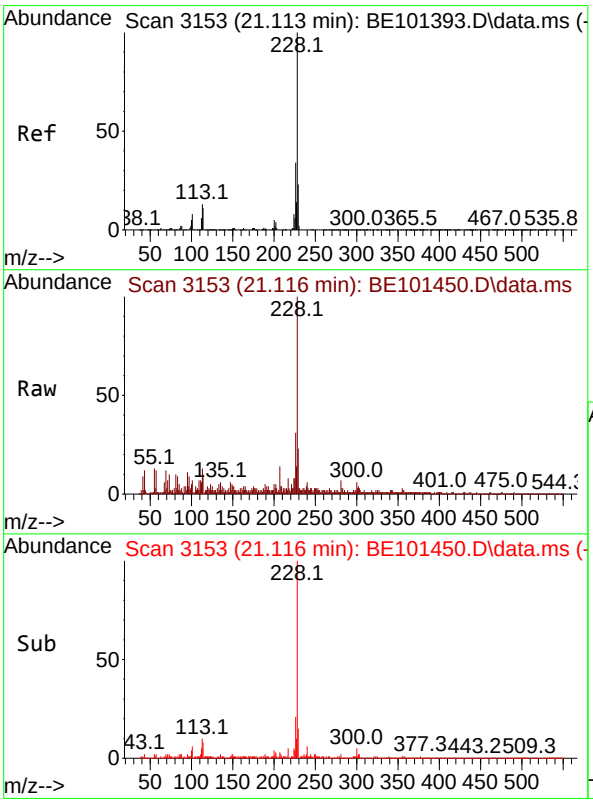
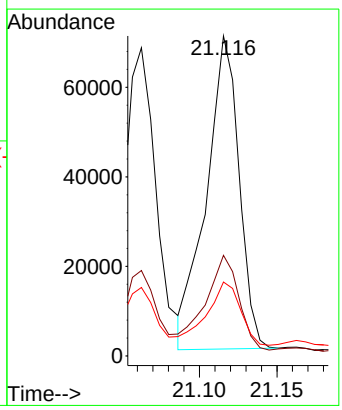
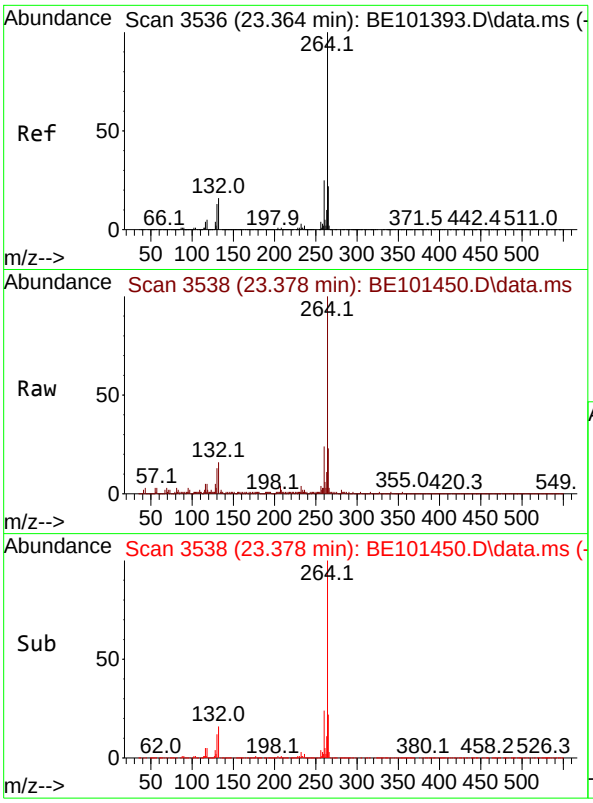


#83
Chrysene
Concen: 2.823 ng
RT: 21.116 min Scan# 3153
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:228 Resp: 102572

Ion	Ratio	Lower	Upper
228	100		
226	31.4	27.2	40.8
229	23.1	18.0	27.0

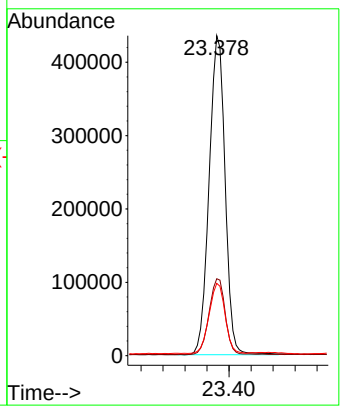




#86
Perylene-d12
Concen: 20.000 ng
RT: 23.378 min Scan# 3
Delta R.T. 0.014 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:264 Resp: 87636

Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.8	29.8
265	22.6	17.6	26.4



Instrument :
BNA_E
ClientSampleId :
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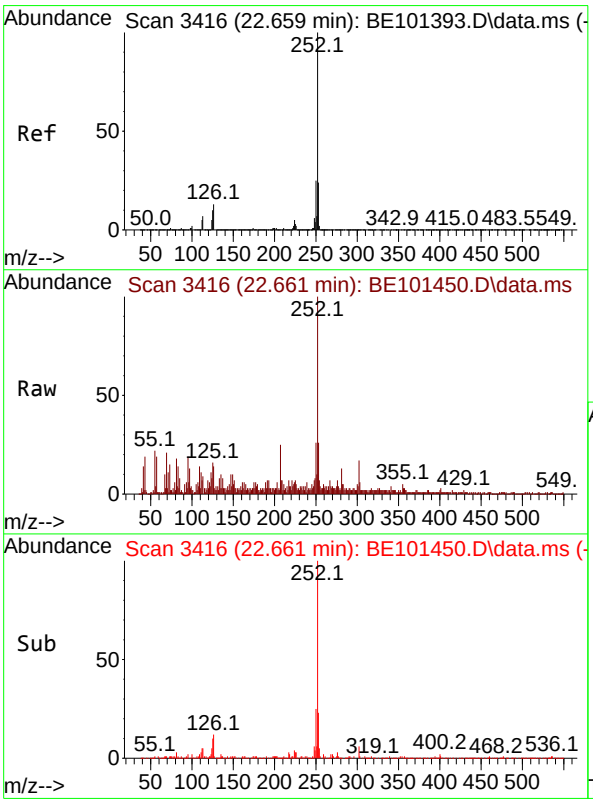
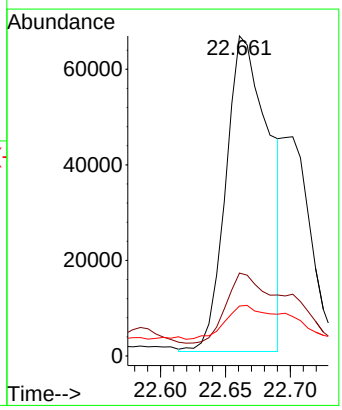
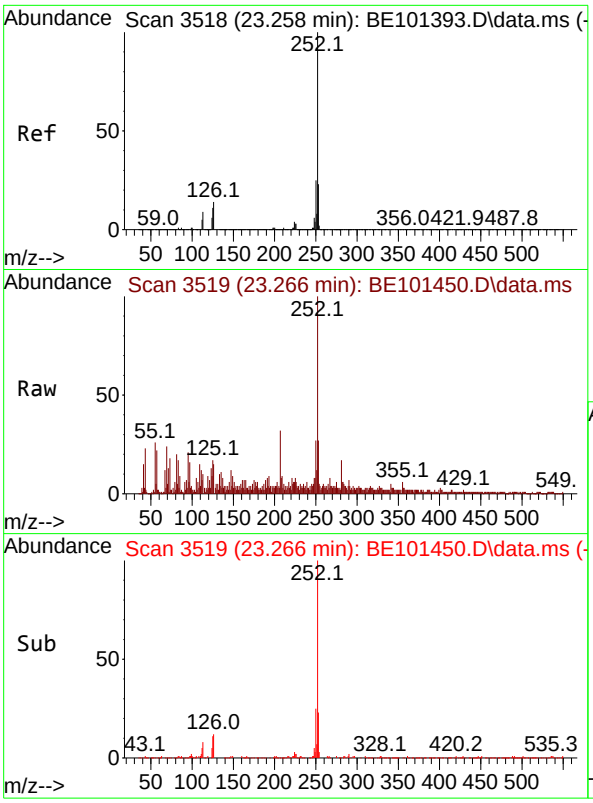


#88
Benzo(b)fluoranthene
Concen: 3.346 ng m
RT: 22.661 min Scan# 3416
Delta R.T. 0.002 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:252 Resp: 152832

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.0	28.6
125	15.6	8.2	12.2#

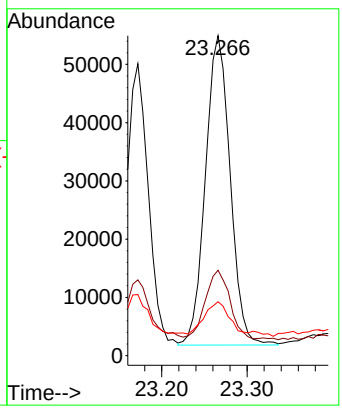




#90
Benzo(a)pyrene
Concen: 2.682 ng
RT: 23.266 min Scan# 3
Delta R.T. 0.008 min
Lab File: BE101450.D
Acq: 1 Nov 2024 15:45

Tgt Ion:252 Resp: 10714

Ion	Ratio	Lower	Upper
252	100		
253	26.7	18.4	27.6
125	16.8	9.0	13.6#



Instrument :
BNA_E
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

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Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140212.D
Acq On : 01 Nov 2024 15:47
Operator : RC/JU
Sample : P4663-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Quant Time: Nov 01 17:35:08 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	6.881	152	106496	20.000	ng	-0.01
21) Naphthalene-d8	8.163	136	419273	20.000	ng	-0.01
39) Acenaphthene-d10	9.922	164	231436	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	391644	20.000	ng	0.00
76) Chrysene-d12	14.068	240	198159	20.000	ng	0.02
86) Perylene-d12	15.568	264	221860	20.000	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	593038	87.176	ng	0.00
7) Phenol-d6	6.504	99	782841	88.852	ng	0.00
23) Nitrobenzene-d5	7.439	82	540152	71.403	ng	-0.01
42) 2,4,6-Tribromophenol	10.716	330	206576	95.426	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	972072	69.416	ng	-0.01
79) Terphenyl-d14	13.010	244	823333	67.703	ng	0.01
Target Compounds						Qvalue

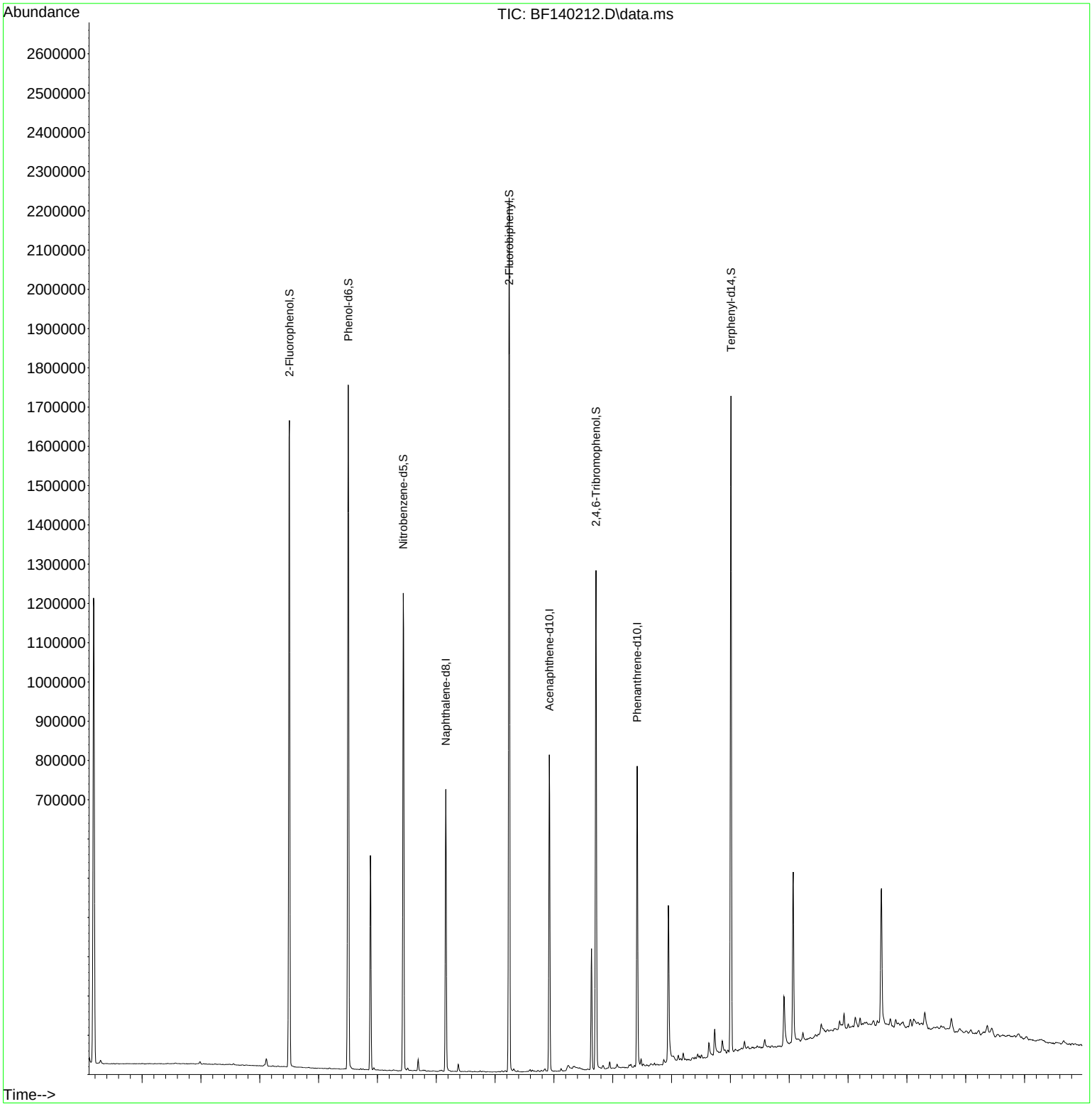
(#) = qualifier out of range (m) = manual integration (+) = signals summed

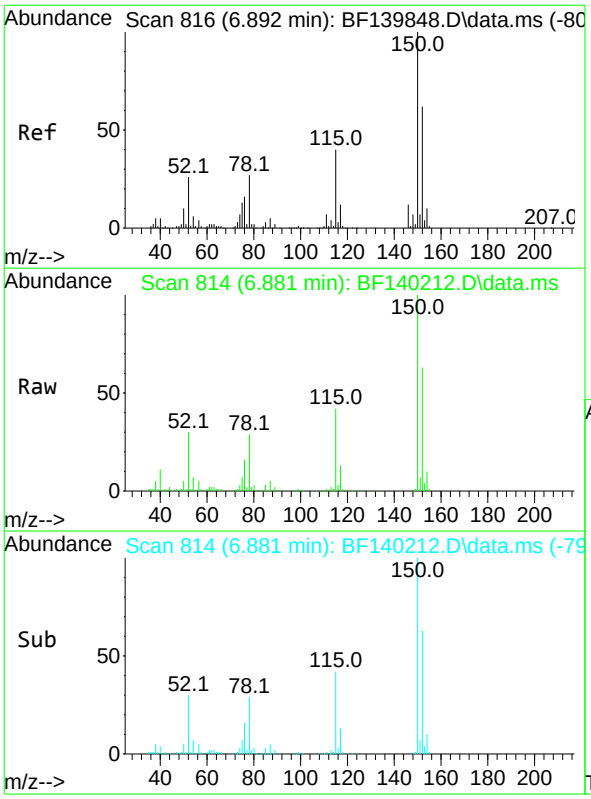
Sample Results: **BF140212.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140212.D
Acq On : 01 Nov 2024 15:47
Operator : RC/JU
Sample : P4663-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Quant Time: Nov 01 17:35:08 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



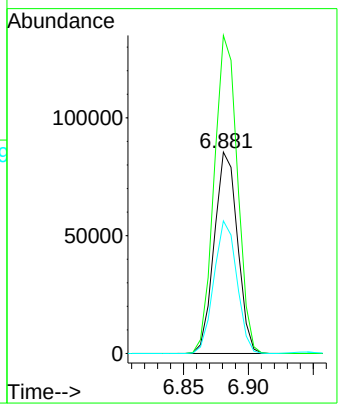


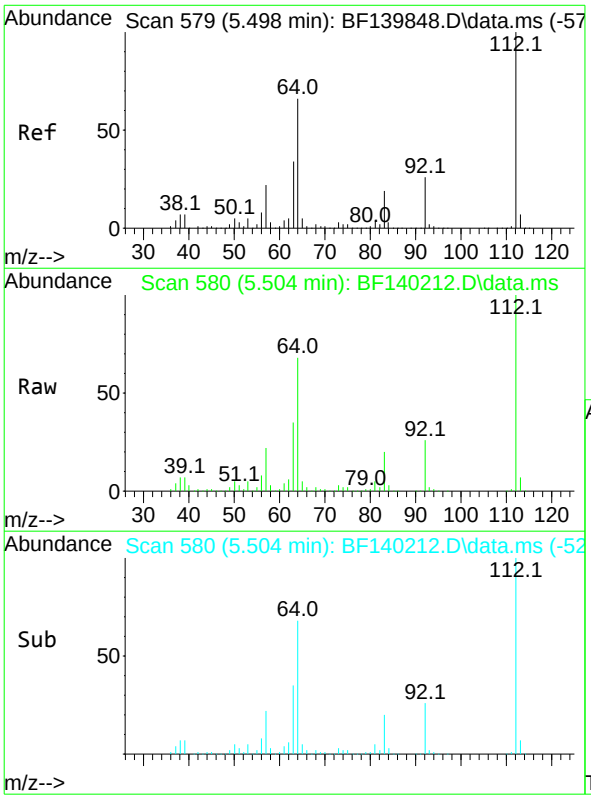
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.011 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion:152 Resp: 106496

Ion	Ratio	Lower	Upper
152	100		
150	157.9	130.2	195.2
115	65.8	51.4	77.2

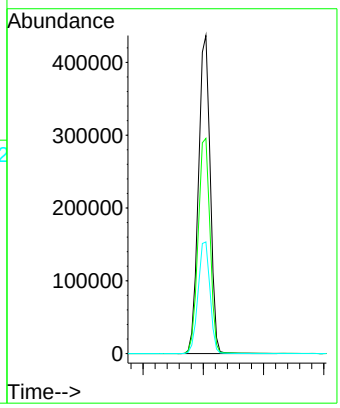


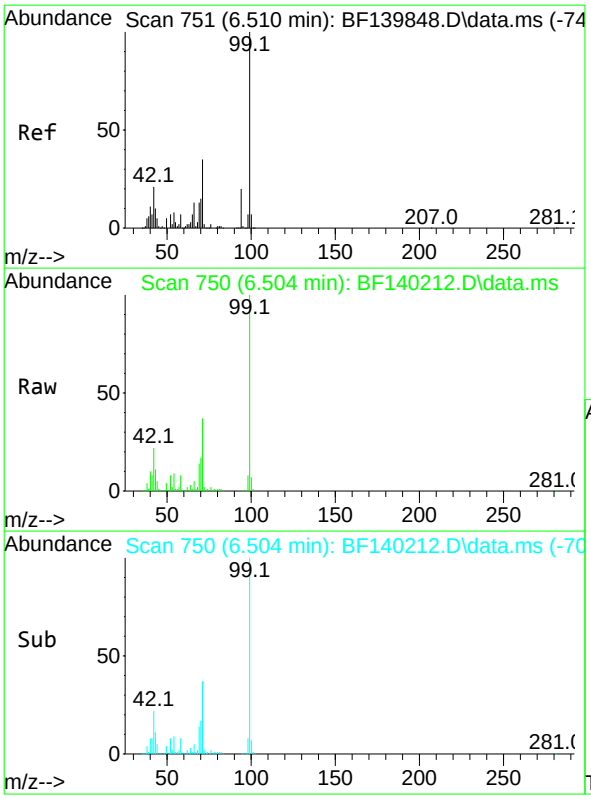


#5
2-Fluorophenol
Concen: 87.176 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Tgt Ion:112 Resp: 593038

Ion	Ratio	Lower	Upper
112	100		
64	67.7	53.0	79.6
63	35.1	27.0	40.4



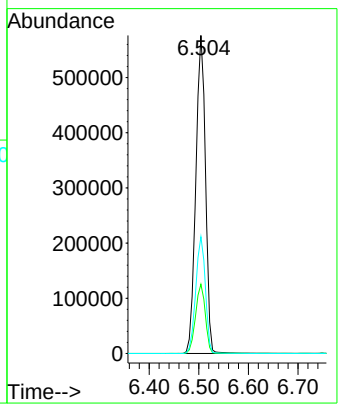


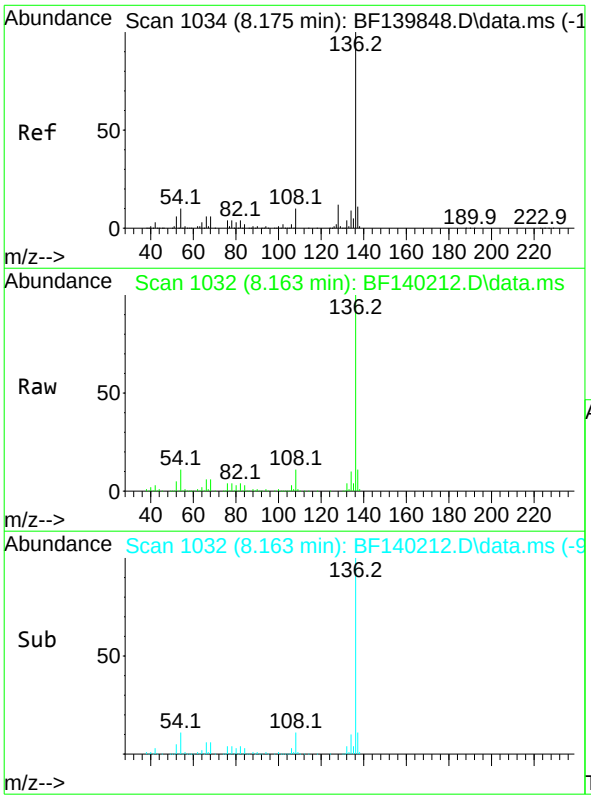
#7
Phenol-d6
Concen: 88.852 ng
RT: 6.504 min Scan# 75
Delta R.T. -0.006 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion: 99 Resp: 782841

Ion	Ratio	Lower	Upper
99	100		
42	21.8	16.7	25.1
71	36.7	27.7	41.5

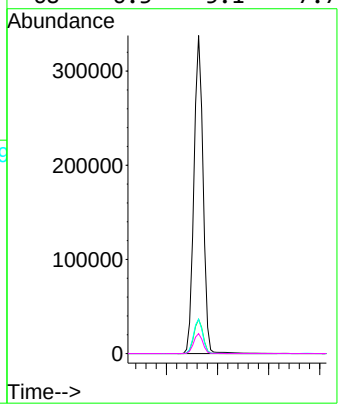


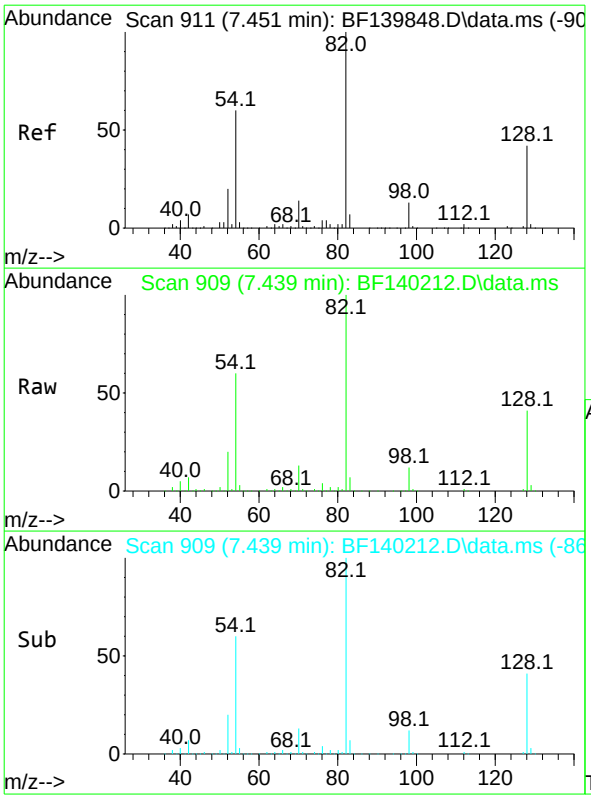


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Tgt Ion:136 Resp: 419273

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	12.8
54	10.8	8.4	12.6
68	6.3	5.1	7.7



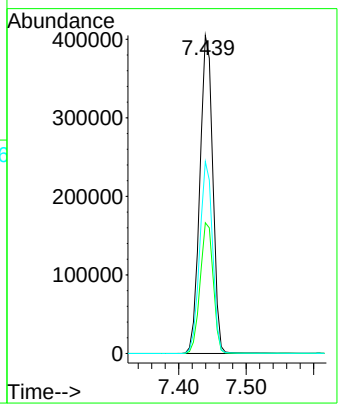


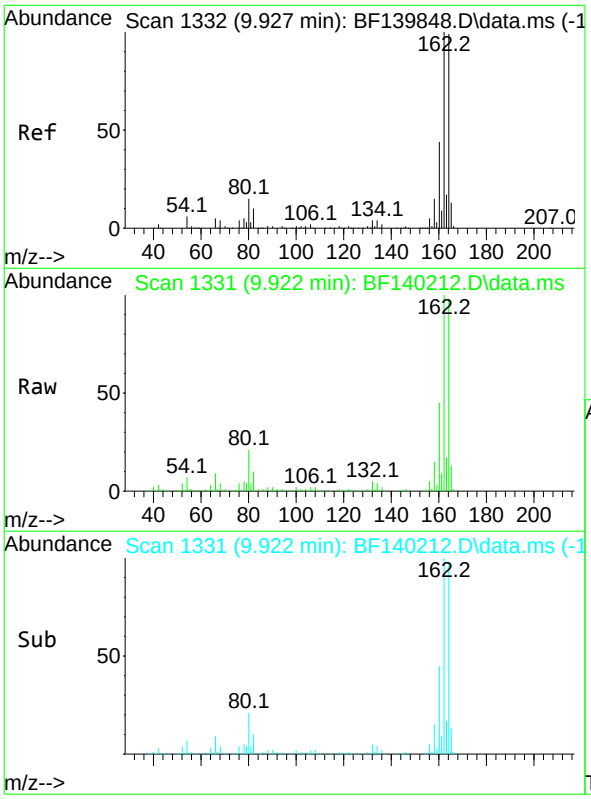
#23
Nitrobenzene-d5
Concen: 71.403 ng
RT: 7.439 min Scan# 90
Delta R.T. -0.012 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion: 82 Resp: 540152

Ion	Ratio	Lower	Upper
82	100		
128	41.1	33.4	50.0
54	60.3	47.8	71.8

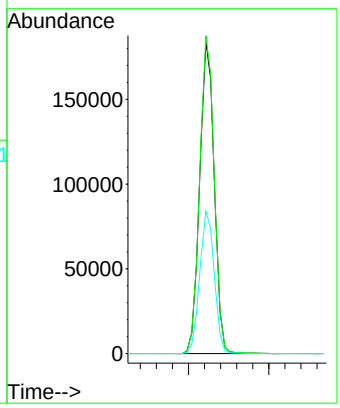


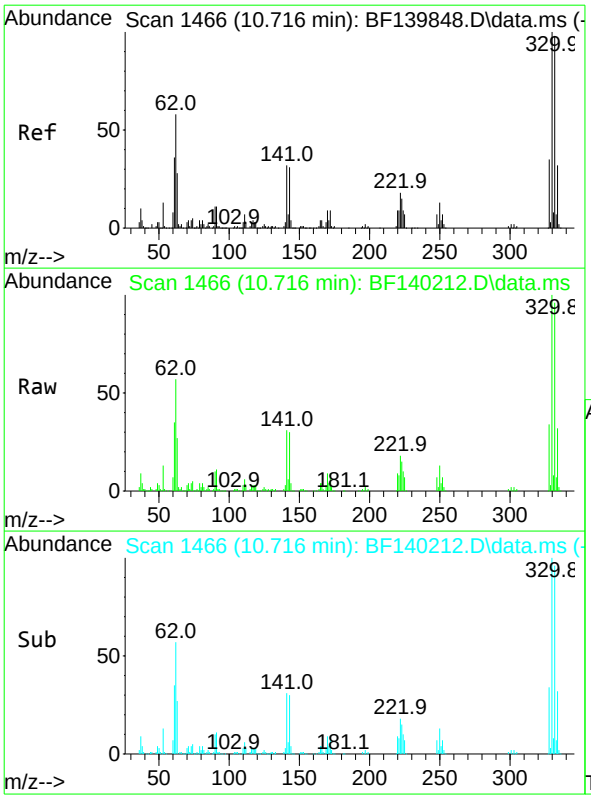


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Tgt Ion:164 Resp: 231436

Ion	Ratio	Lower	Upper
164	100		
162	102.1	81.0	121.4
160	45.6	35.4	53.0



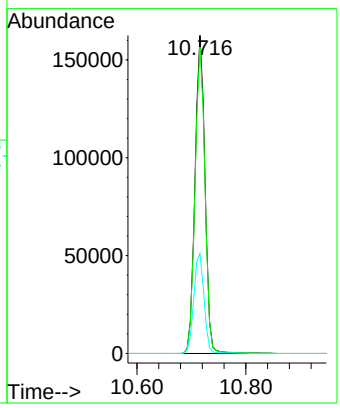


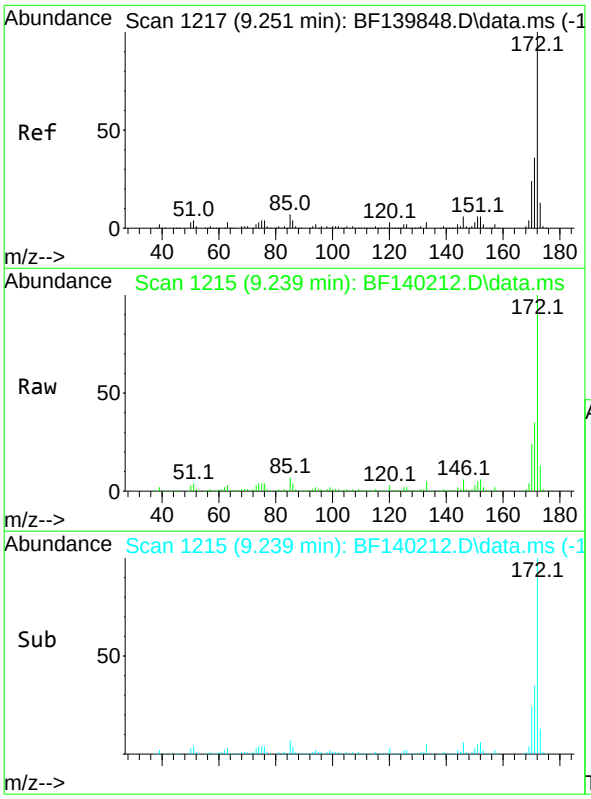
#42
2,4,6-Tribromophenol
Concen: 95.426 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion:330 Resp: 206576

Ion	Ratio	Lower	Upper
330	100		
332	96.4	78.1	117.1
141	32.6	26.6	39.8

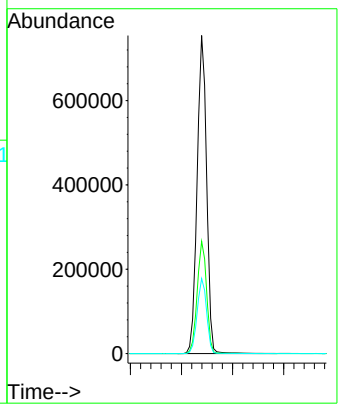


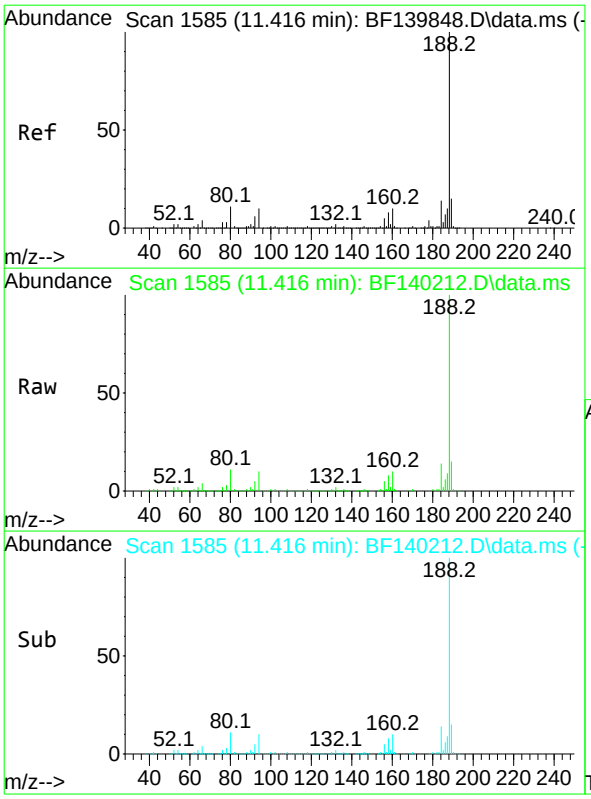


#45
2-Fluorobiphenyl
Concen: 69.416 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.012 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Tgt Ion:172 Resp: 972072

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	43.0
170	23.6	19.1	28.7



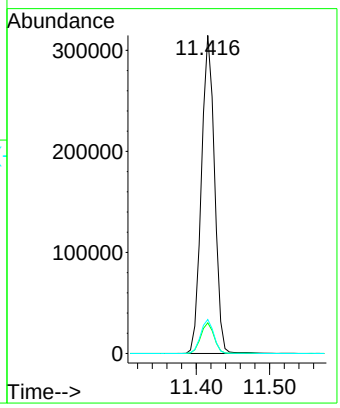


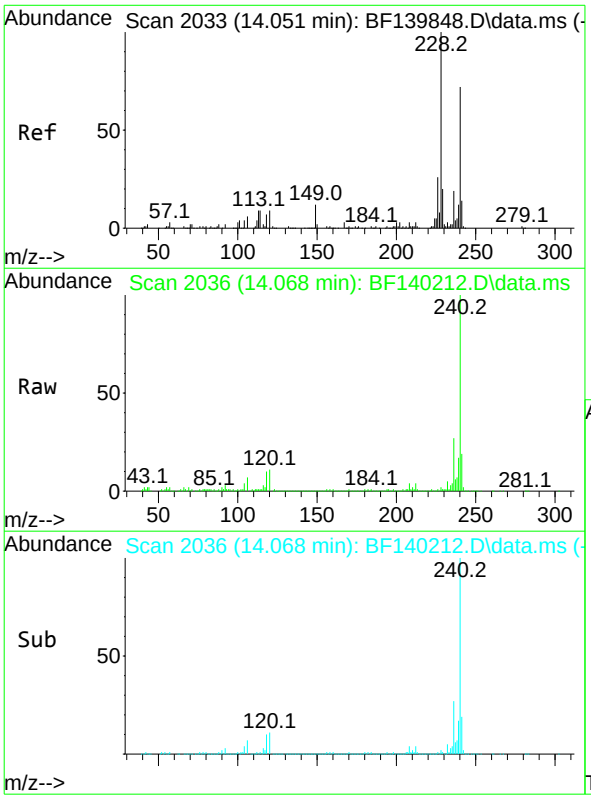
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 15
Delta R.T. 0.000 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion:188 Resp: 391644

Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.9	11.9
80	10.7	9.0	13.4

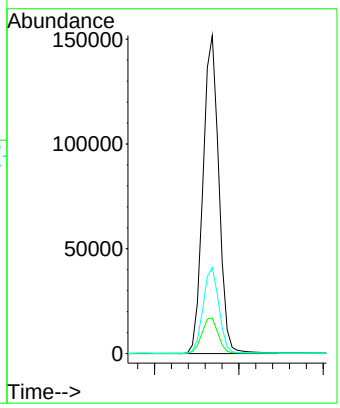


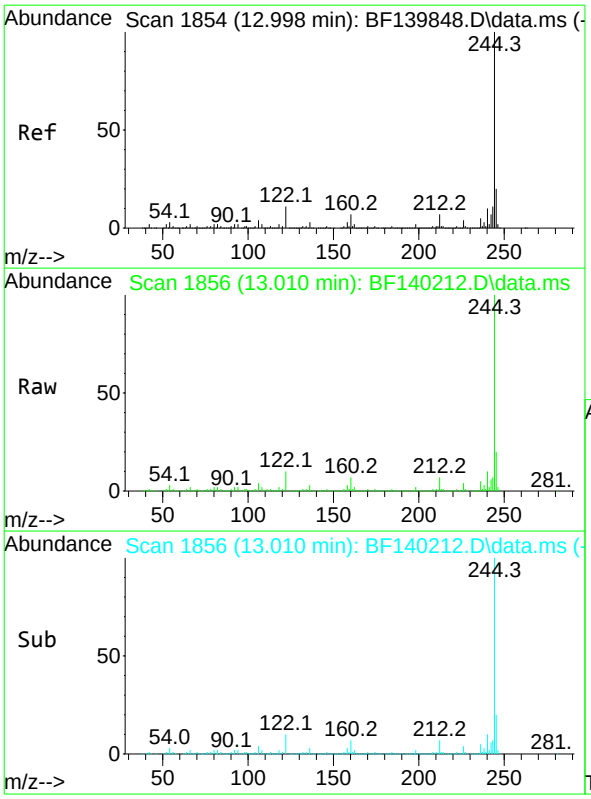


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2036
Delta R.T. 0.018 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Tgt Ion:240 Resp: 198159

Ion	Ratio	Lower	Upper
240	100		
120	11.2	9.4	14.2
236	27.0	20.9	31.3



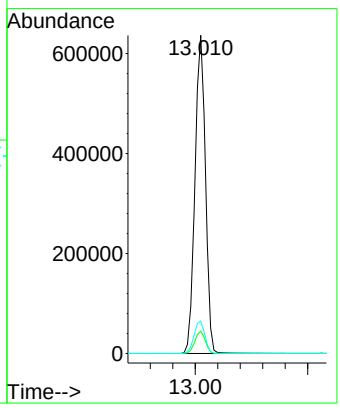


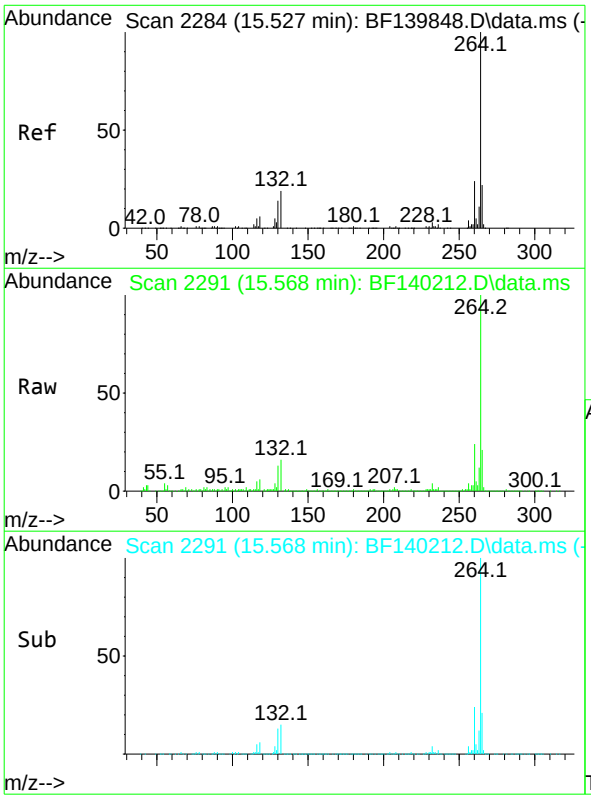
#79
Terphenyl-d14
Concen: 67.703 ng
RT: 13.010 min Scan# 18
Delta R.T. 0.012 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-11

Tgt Ion:244 Resp: 823333

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.7	8.5
122	10.2	8.6	13.0

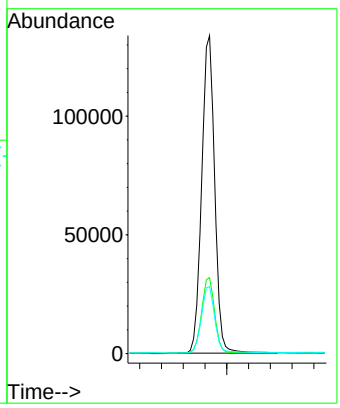




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.568 min Scan# 2291
Delta R.T. 0.041 min
Lab File: BF140212.D
Acq: 01 Nov 2024 15:47

Tgt Ion:264 Resp: 221860

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.4	29.2
265	21.1	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101448.D
Acq On : 1 Nov 2024 14:33
Operator : RC/JU
Sample : P4663-06
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Quant Time: Nov 01 16:12:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

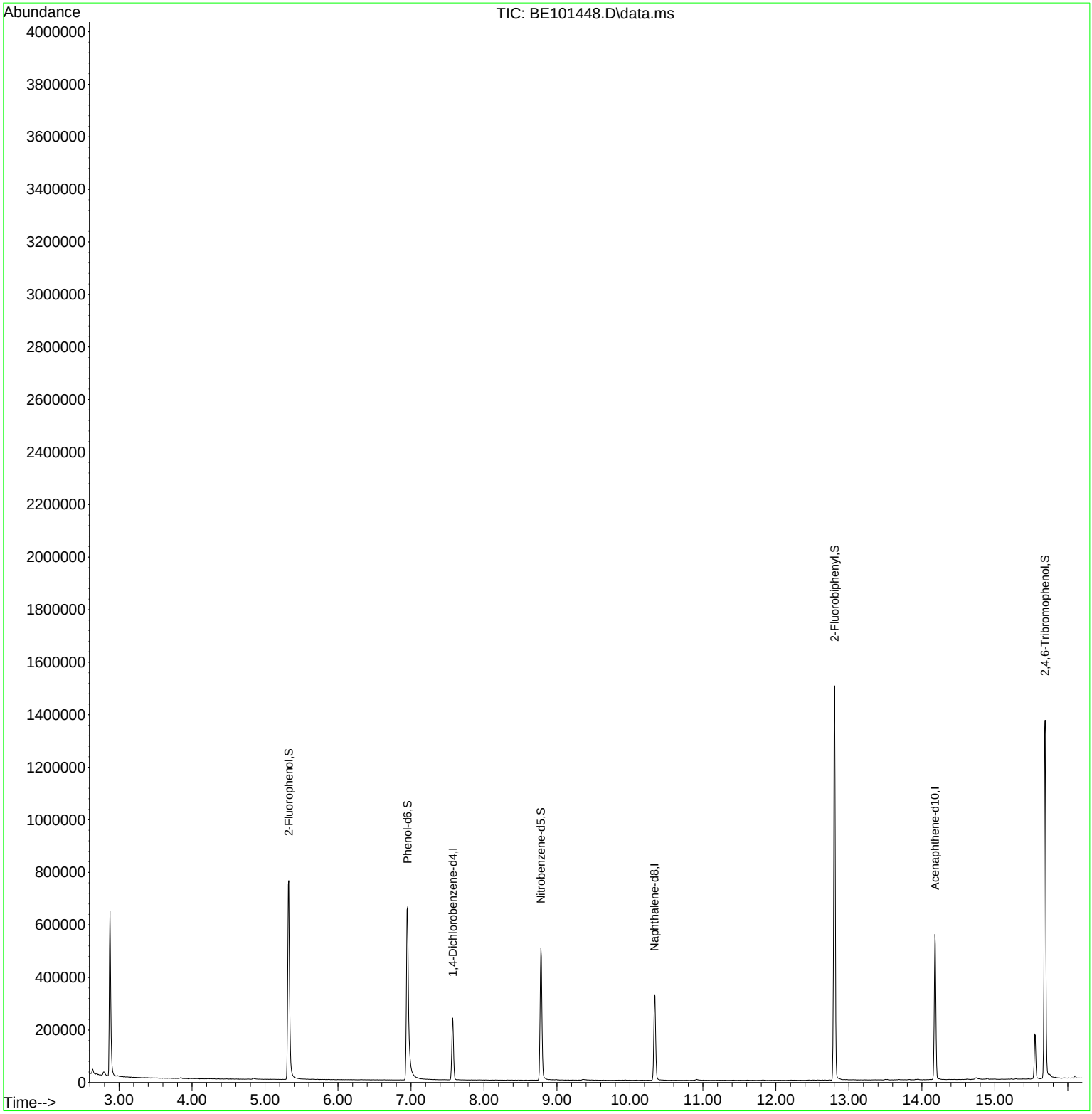
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	69420	20.000	ng	0.00
21) Naphthalene-d8	10.337	136	296978	20.000	ng	0.00
39) Acenaphthene-d10	14.179	164	197789	20.000	ng	0.00
64) Phenanthrene-d10	16.917	188	455282	20.000	ng	0.00
76) Chrysene-d12	21.083	240	540190	20.000	ng	0.00
86) Perylene-d12	23.374	264	717080	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.325	112	421241	106.352	ng	0.00
7) Phenol-d6	6.952	99	547227	99.639	ng	0.00
23) Nitrobenzene-d5	8.780	82	314844	66.588	ng	0.00
42) 2,4,6-Tribromophenol	15.689	330	354276	102.197	ng	0.00
45) 2-Fluorobiphenyl	12.804	172	805201	68.944	ng	0.00
79) Terphenyl-d14	19.514	244	1684321	71.763	ng	0.00
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101448.D
Acq On : 1 Nov 2024 14:33
Operator : RC/JU
Sample : P4663-06
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

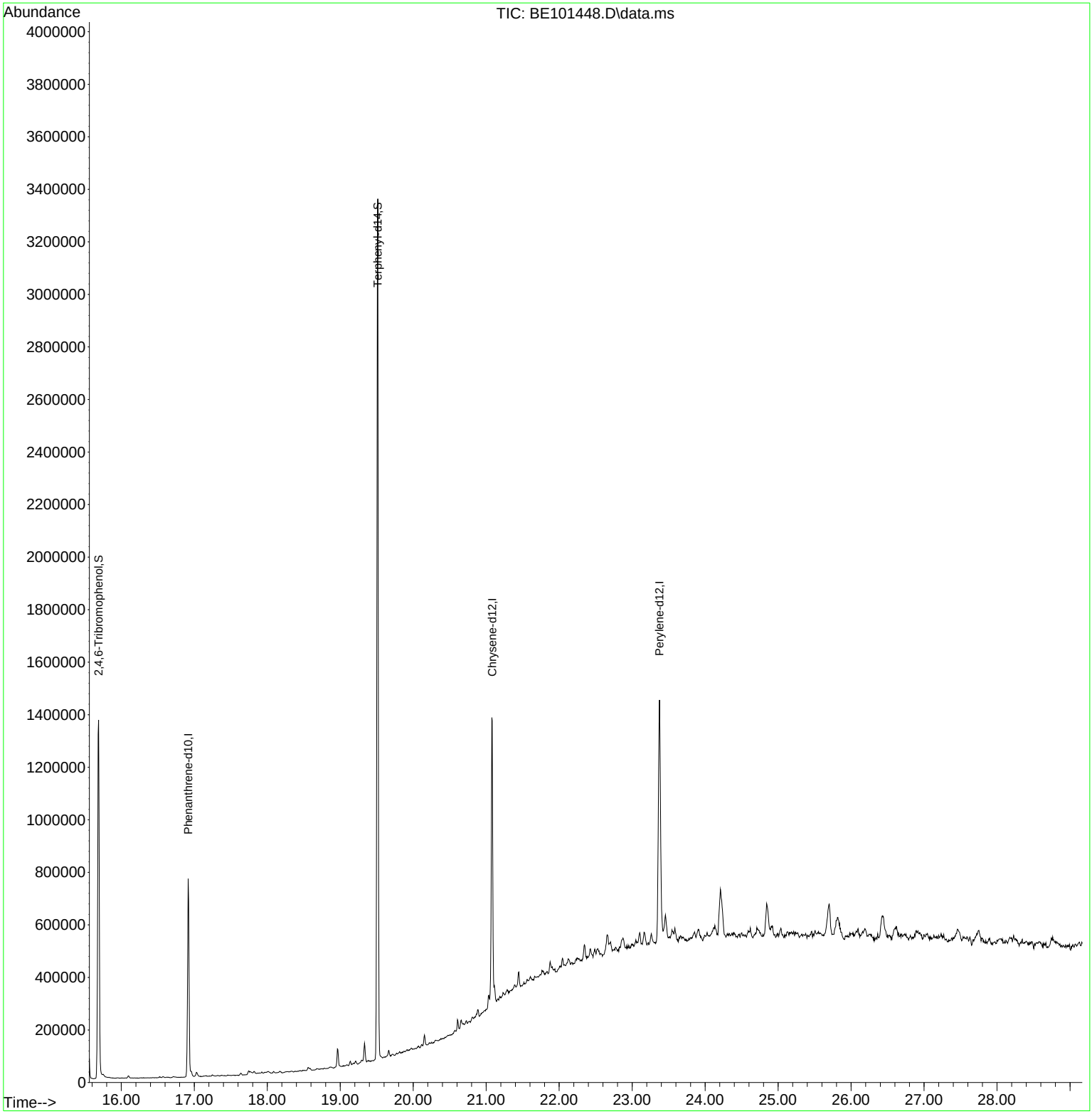
Quant Time: Nov 01 16:12:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

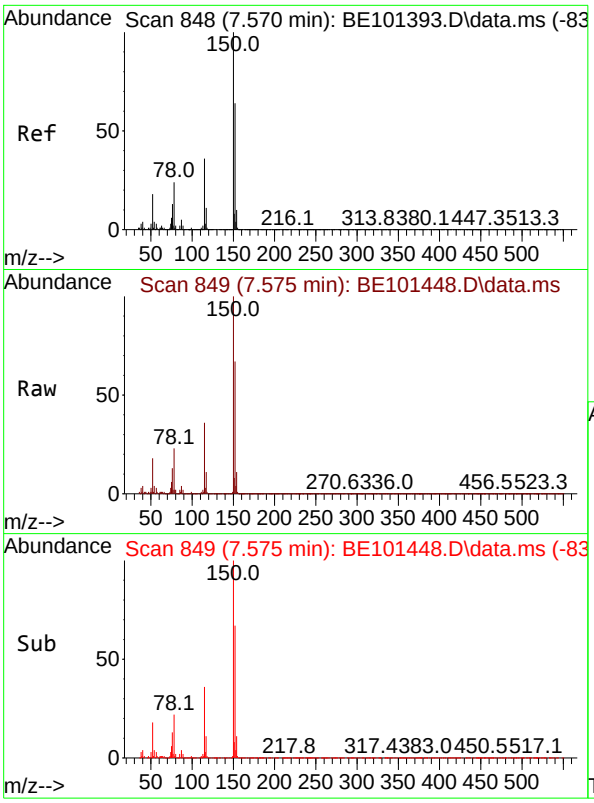


Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110124\
Data File : BE101448.D
Acq On : 1 Nov 2024 14:33
Operator : RC/JU
Sample : P4663-06
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Quant Time: Nov 01 16:12:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration



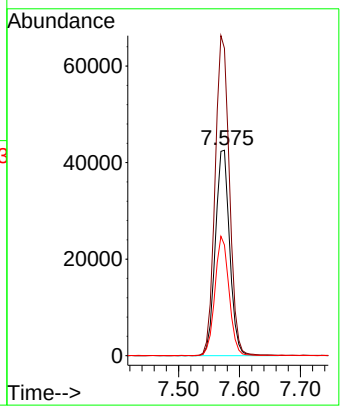


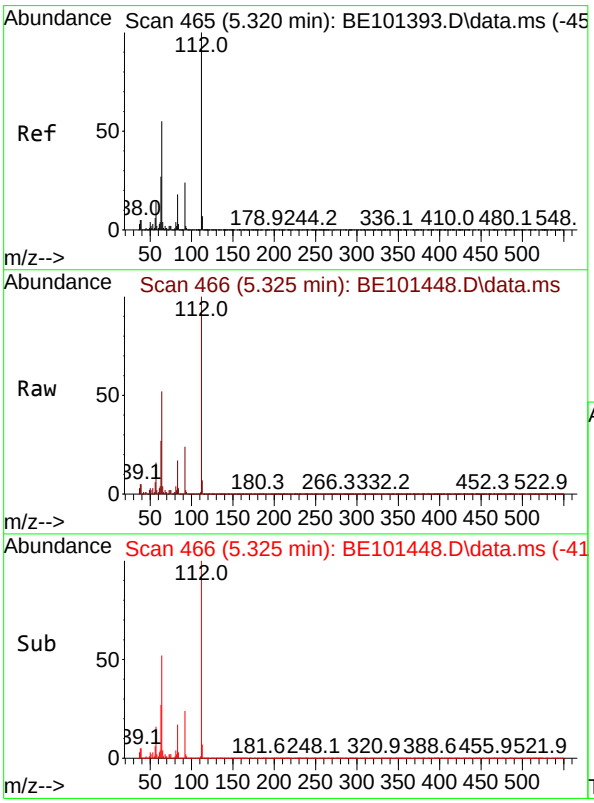
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.575 min Scan# 84
Delta R.T. 0.005 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion:152 Resp: 69420

Ion	Ratio	Lower	Upper
152	100		
150	149.5	124.2	186.4
115	53.9	45.3	67.9

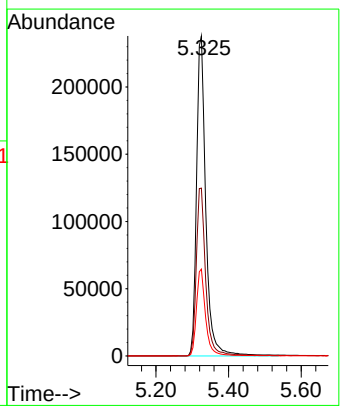


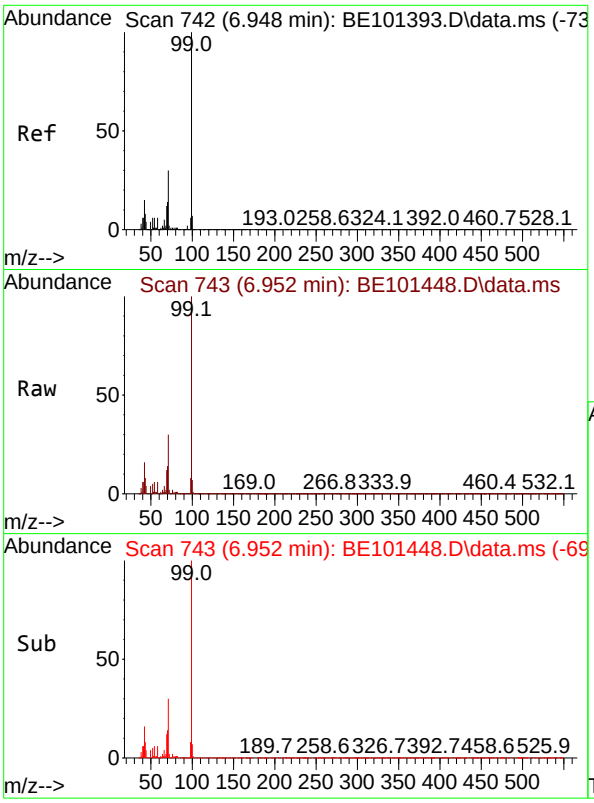


#5
2-Fluorophenol
Concen: 106.352 ng
RT: 5.325 min Scan# 466
Delta R.T. 0.005 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Tgt Ion:112 Resp: 421241

Ion	Ratio	Lower	Upper
112	100		
64	52.5	43.7	65.5
63	27.1	21.4	32.2



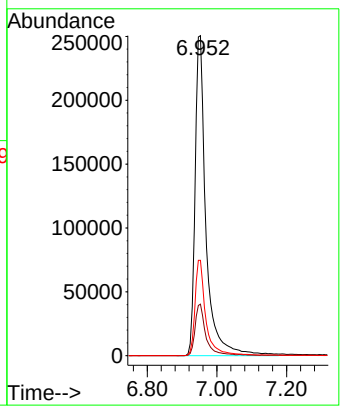


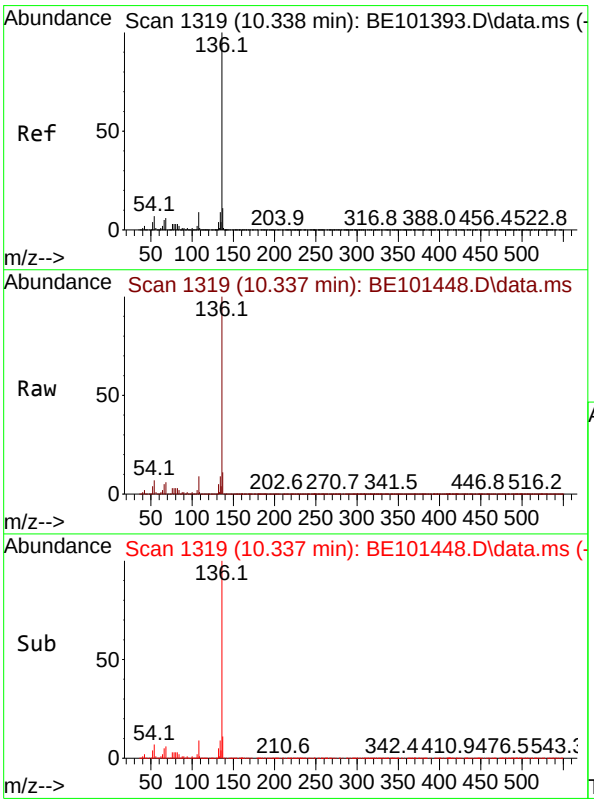
#7
Phenol-d6
Concen: 99.639 ng
RT: 6.952 min Scan# 7
Delta R.T. 0.005 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion: 99 Resp: 547227

Ion	Ratio	Lower	Upper
99	100		
42	16.1	12.3	18.5
71	29.8	23.8	35.8

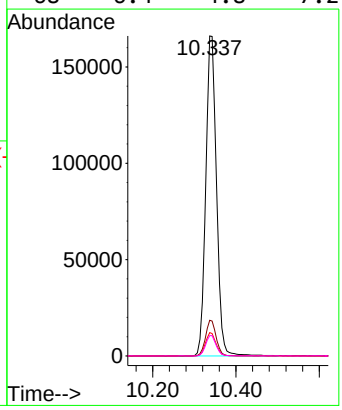


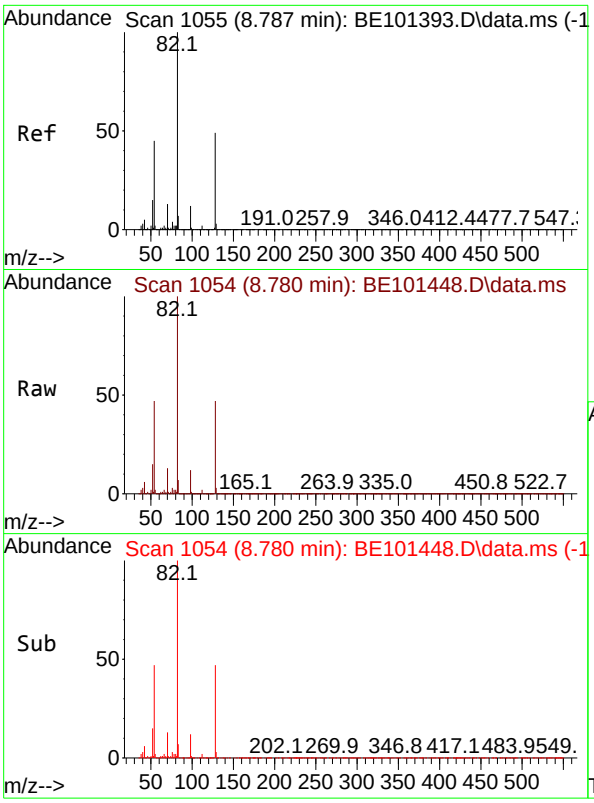


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.337 min Scan# 1319
Delta R.T. -0.001 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Tgt Ion:136 Resp: 296978

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.6
54	7.3	5.9	8.9
68	6.4	4.8	7.2



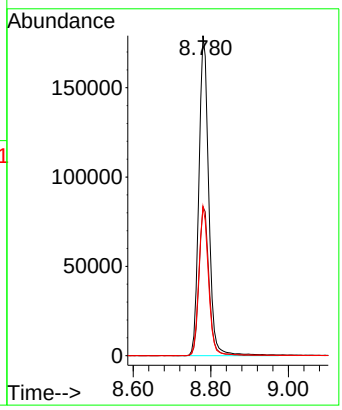


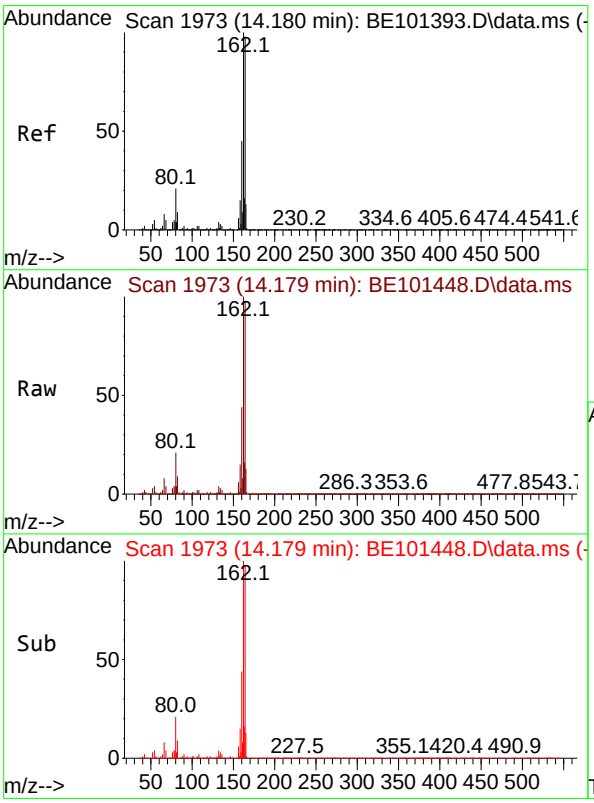
#23
Nitrobenzene-d5
Concen: 66.588 ng
RT: 8.780 min Scan# 1
Delta R.T. -0.007 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion: 82 Resp: 314844

Ion	Ratio	Lower	Upper
82	100		
128	46.6	38.9	58.3
54	46.5	36.2	54.4

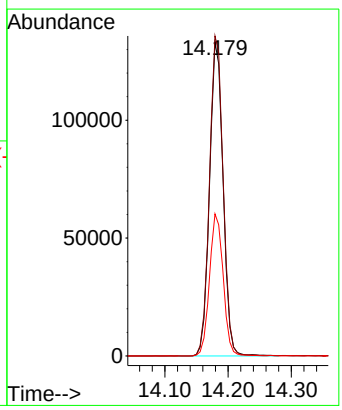


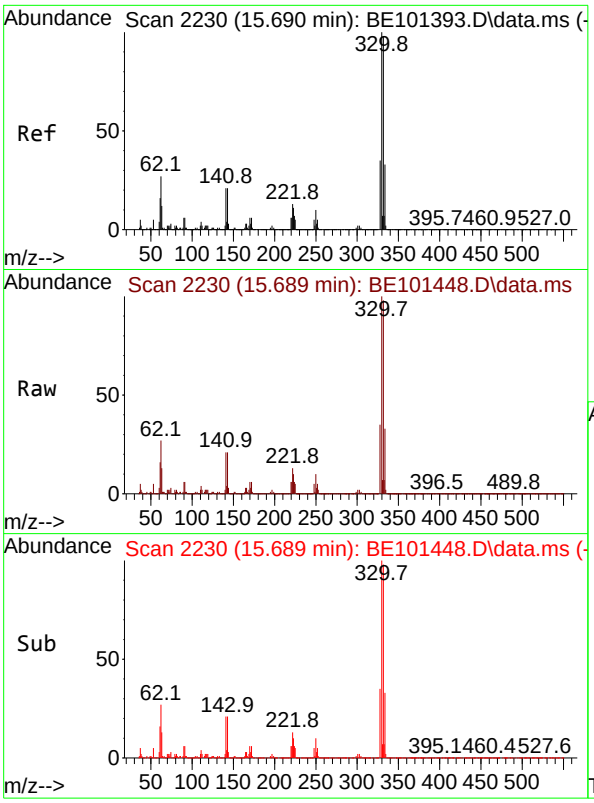


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.179 min Scan# 1973
Delta R.T. -0.001 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Tgt Ion:164 Resp: 197789

Ion	Ratio	Lower	Upper
164	100		
162	102.1	81.3	121.9
160	45.4	36.4	54.6



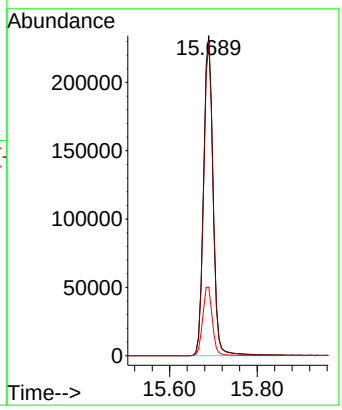


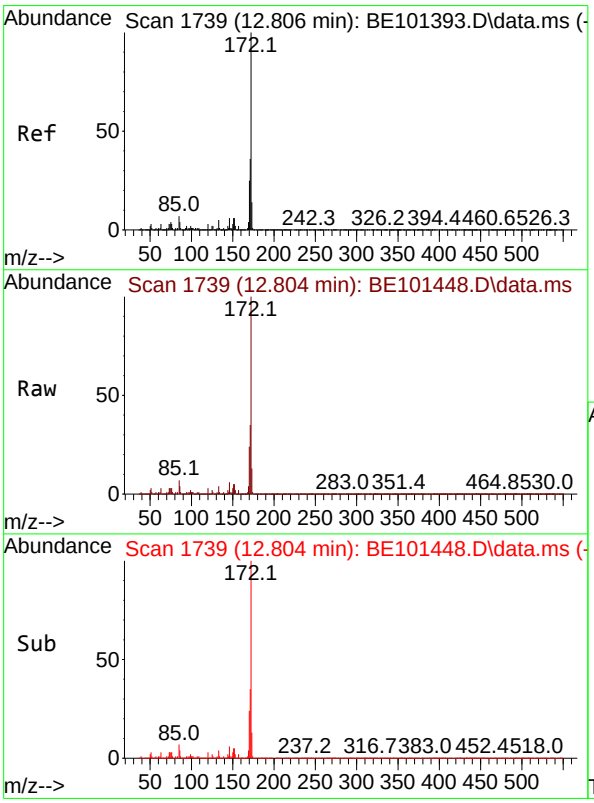
#42
2,4,6-Tribromophenol
Concen: 102.197 ng
RT: 15.689 min Scan# 2
Delta R.T. -0.001 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion:330 Resp: 354276

Ion	Ratio	Lower	Upper
330	100		
332	97.7	78.2	117.2
141	21.9	18.3	27.5

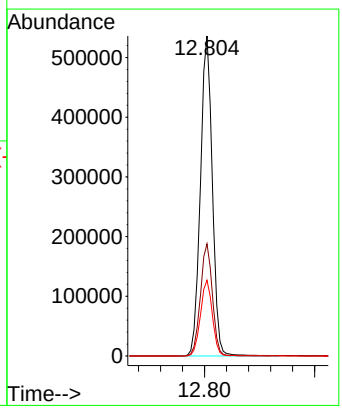


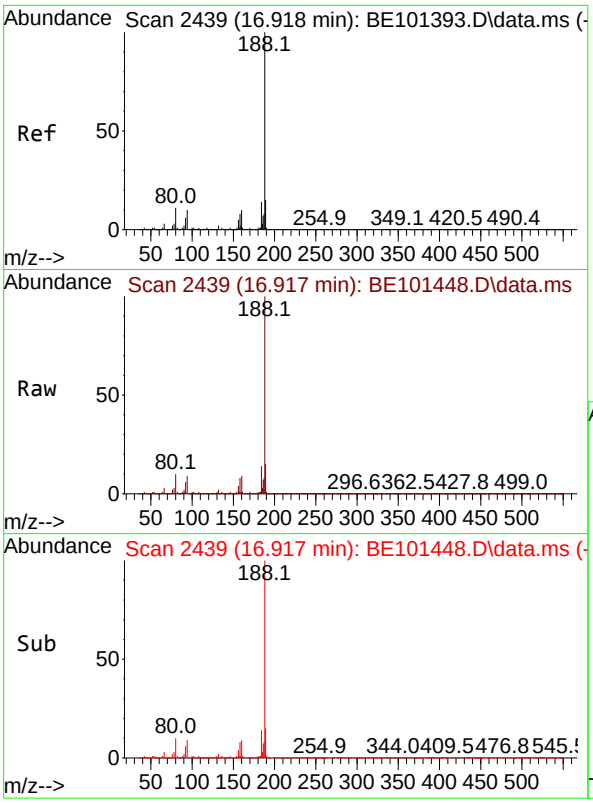


#45
2-Fluorobiphenyl
Concen: 68.944 ng
RT: 12.804 min Scan# 1739
Delta R.T. -0.001 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Tgt Ion:172 Resp: 805201

Ion	Ratio	Lower	Upper
172	100		
171	35.0	29.2	43.8
170	23.6	19.8	29.6



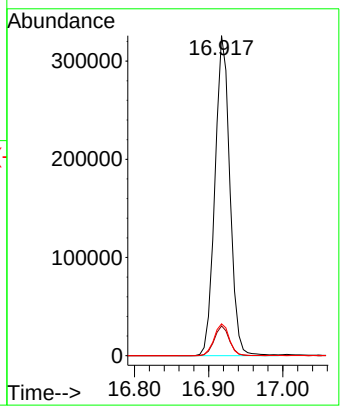


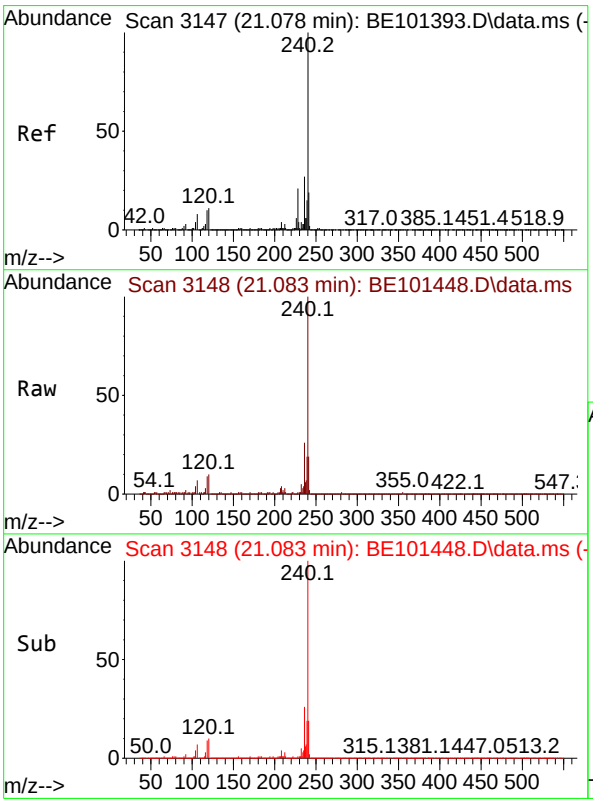
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.917 min Scan# 24
Delta R.T. -0.001 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion:188 Resp: 455282

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.8	11.8
80	10.0	8.6	12.8

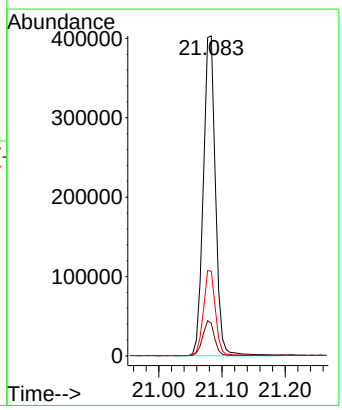


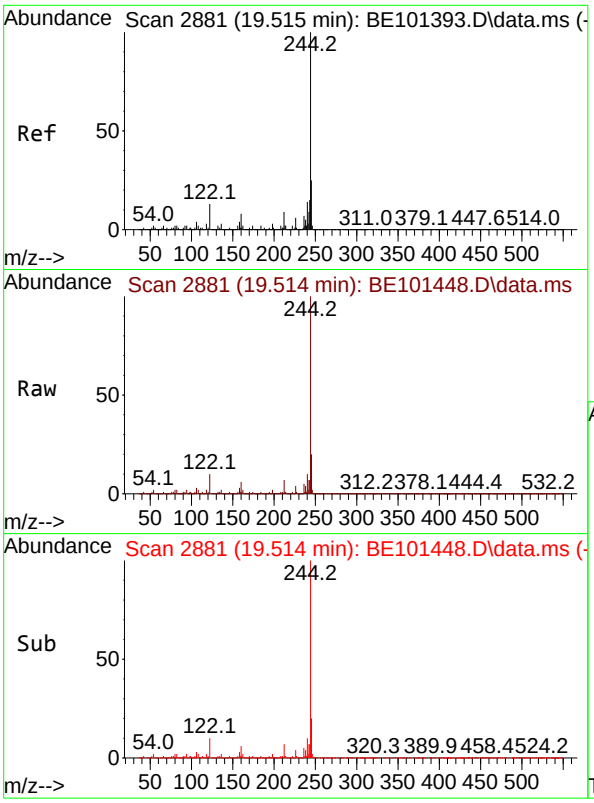


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.083 min Scan# 3148
Delta R.T. 0.005 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Tgt Ion:240 Resp: 540190

Ion	Ratio	Lower	Upper
240	100		
120	10.2	9.0	13.4
236	26.5	21.4	32.0



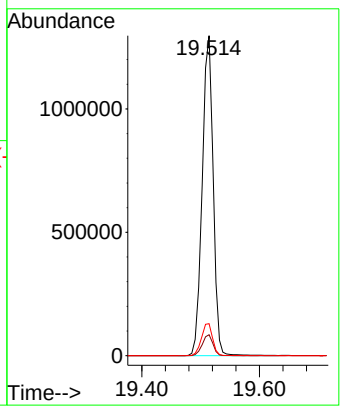


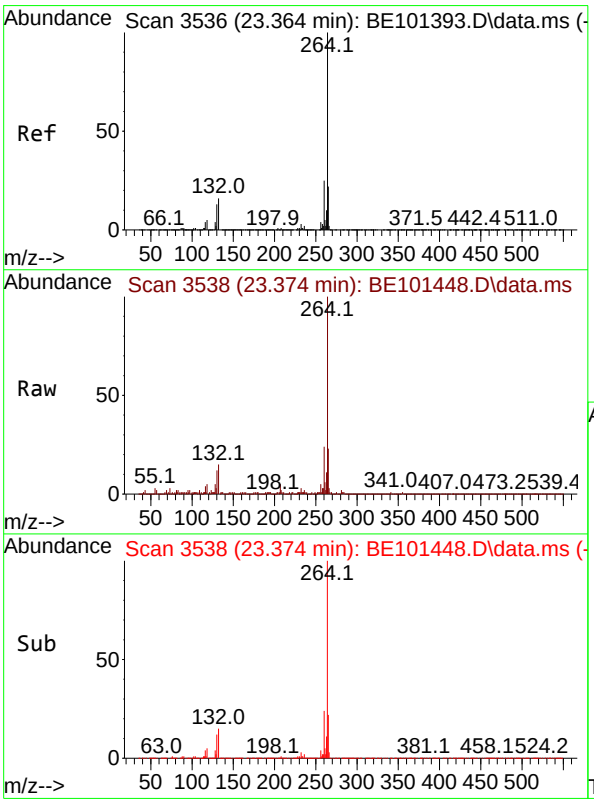
#79
Terphenyl-d14
Concen: 71.763 ng
RT: 19.514 min Scan# 2
Delta R.T. -0.001 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Instrument :
BNA_E
ClientSampleId :
RES-BUILDING-PAD-NO-3

Tgt Ion:244 Resp: 1684321

Ion	Ratio	Lower	Upper
244	100		
212	6.6	7.2	10.8#
122	10.0	10.4	15.6#

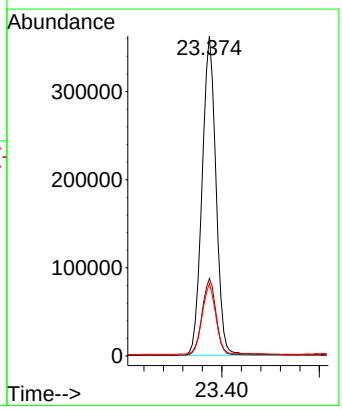




#86
Perylene-d12
Concen: 20.000 ng
RT: 23.374 min Scan# 3538
Delta R.T. 0.011 min
Lab File: BE101448.D
Acq: 1 Nov 2024 14:33

Tgt Ion:264 Resp: 717080

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.8	29.8
265	22.7	17.6	26.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140208.D
Acq On : 01 Nov 2024 14:00
Operator : RC/JU
Sample : P4663-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Quant Time: Nov 01 14:53:33 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

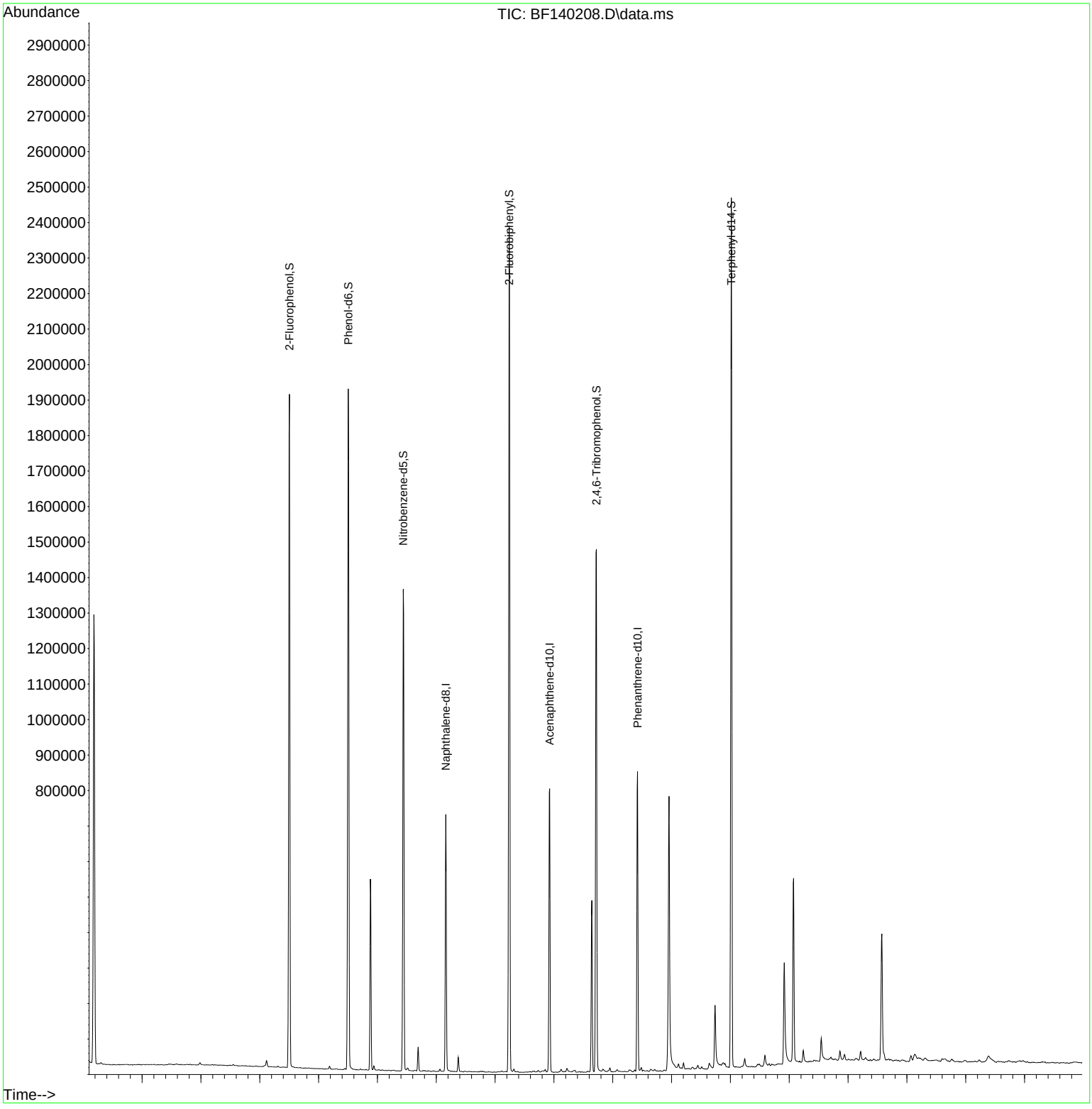
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	105943	20.000	ng	-0.01
21) Naphthalene-d8	8.163	136	422510	20.000	ng	-0.01
39) Acenaphthene-d10	9.927	164	242556	20.000	ng	0.00
64) Phenanthrene-d10	11.421	188	447541	20.000	ng	0.00
76) Chrysene-d12	14.074	240	249474	20.000	ng	0.02
86) Perylene-d12	15.574	264	218114	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	686919	101.504	ng	0.00
7) Phenol-d6	6.504	99	886554	101.148	ng	0.00
23) Nitrobenzene-d5	7.439	82	607199	79.651	ng	-0.01
42) 2,4,6-Tribromophenol	10.722	330	253967	111.939	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1101325	75.041	ng	-0.01
79) Terphenyl-d14	13.015	244	1224403	79.974	ng	0.02
Target Compounds						Qvalue

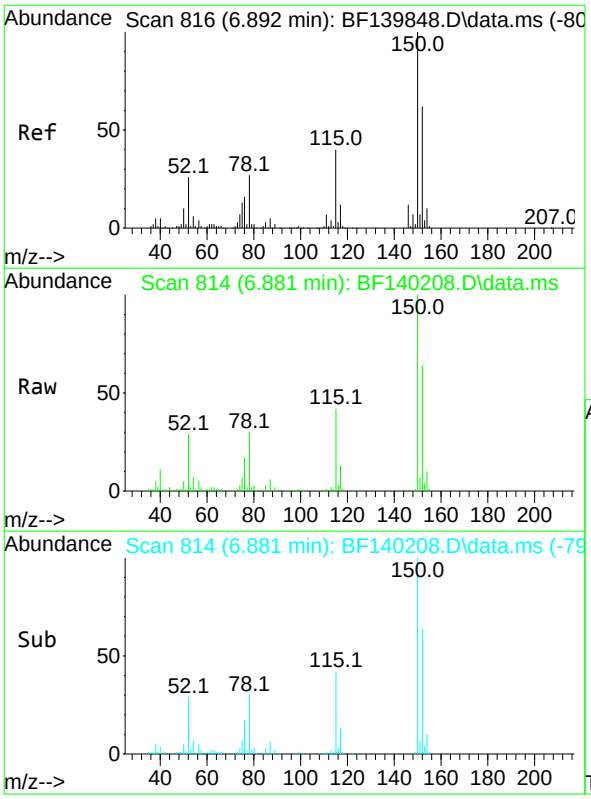
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140208.D
Acq On : 01 Nov 2024 14:00
Operator : RC/JU
Sample : P4663-08
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Quant Time: Nov 01 14:53:33 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



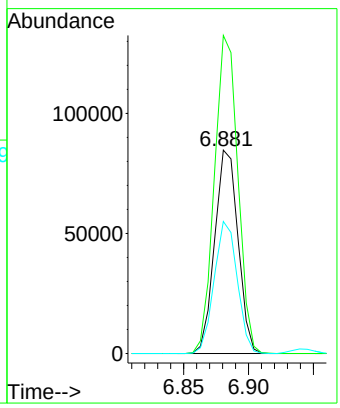


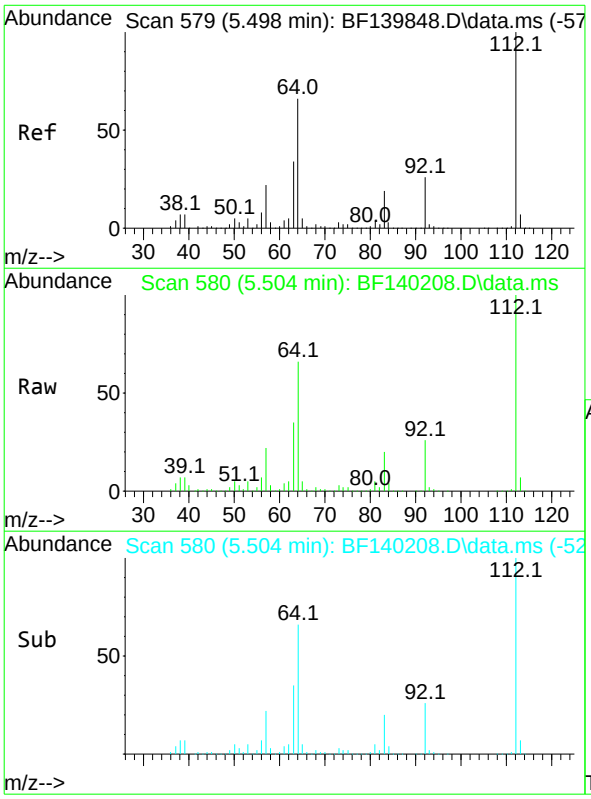
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.011 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion:152 Resp: 105943

Ion	Ratio	Lower	Upper
152	100		
150	156.4	130.2	195.2
115	64.9	51.4	77.2

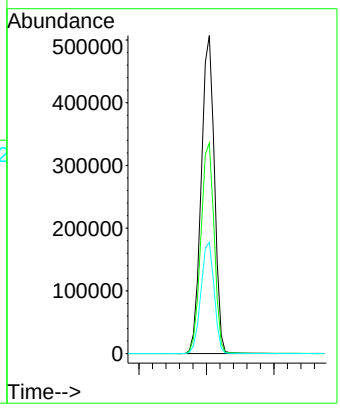


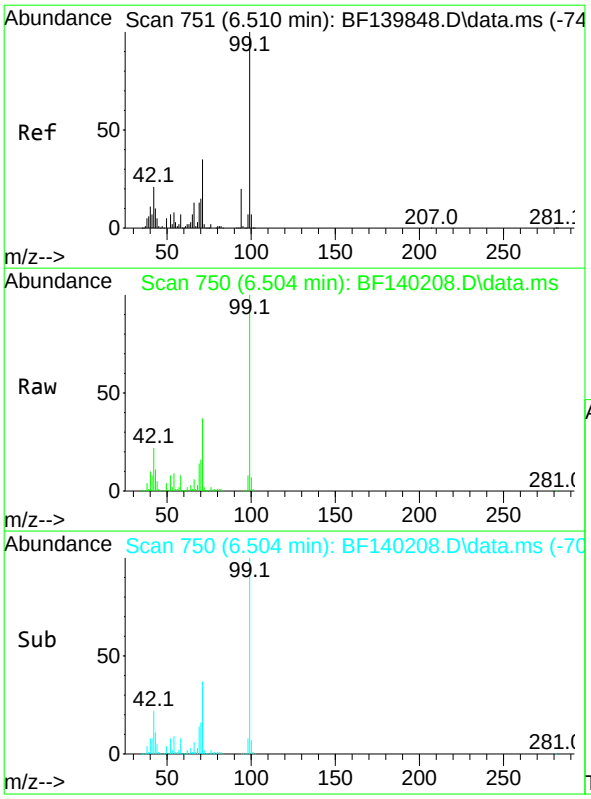


#5
2-Fluorophenol
Concen: 101.504 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Tgt Ion:112 Resp: 686919

Ion	Ratio	Lower	Upper
112	100		
64	66.1	53.0	79.6
63	35.0	27.0	40.4



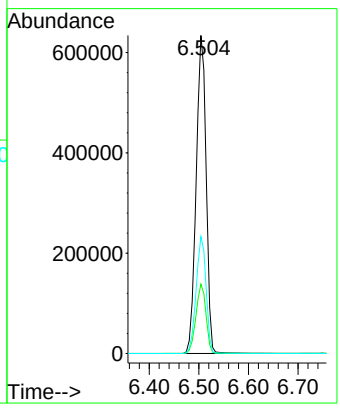


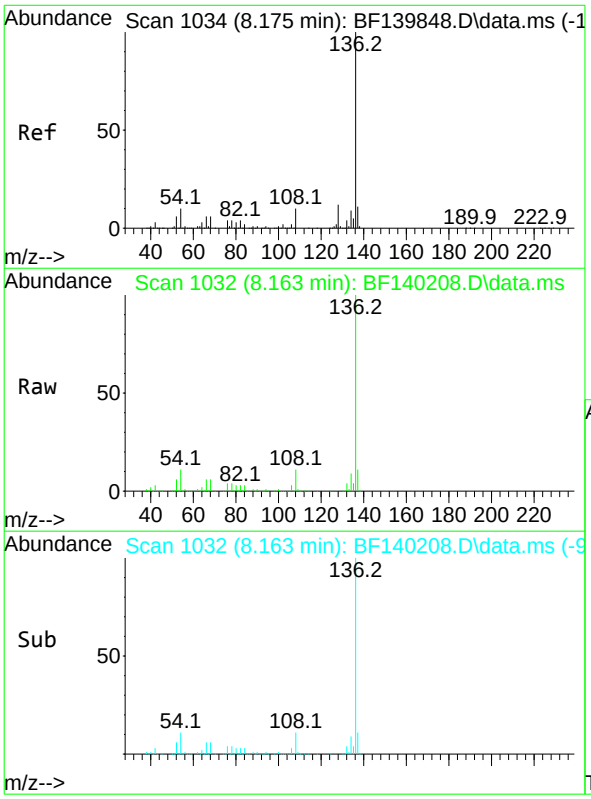
#7
Phenol-d6
Concen: 101.148 ng
RT: 6.504 min Scan# 75
Delta R.T. -0.006 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion: 99 Resp: 886554

Ion	Ratio	Lower	Upper
99	100		
42	21.8	16.7	25.1
71	36.8	27.7	41.5

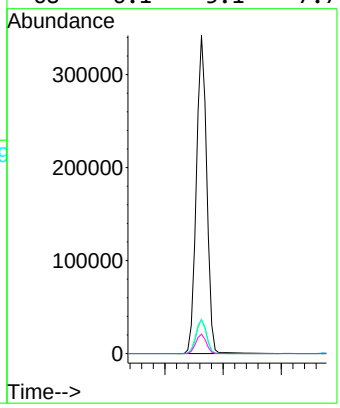


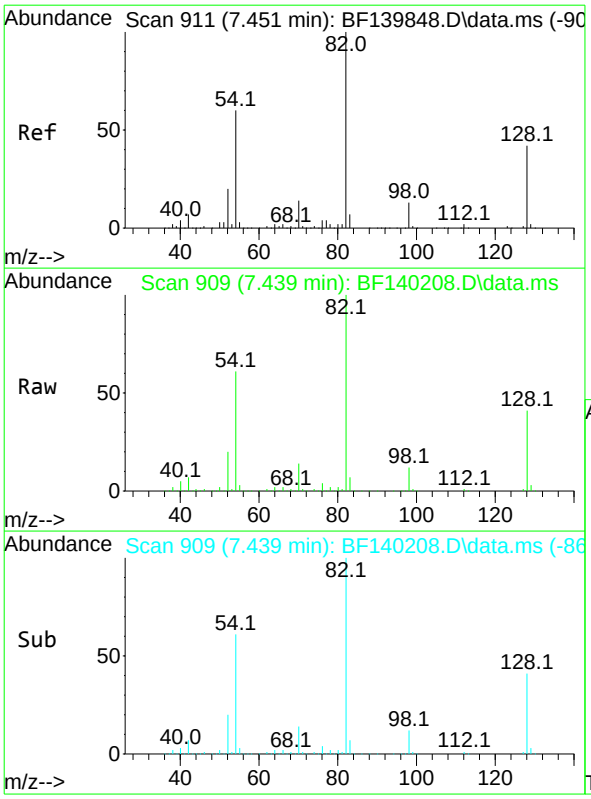


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Tgt Ion:136 Resp: 422510

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



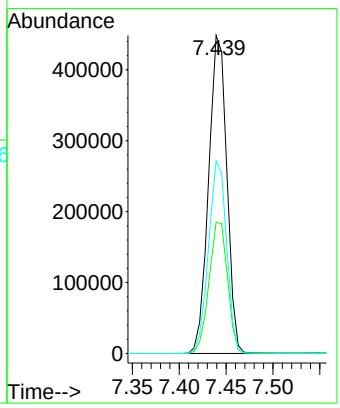


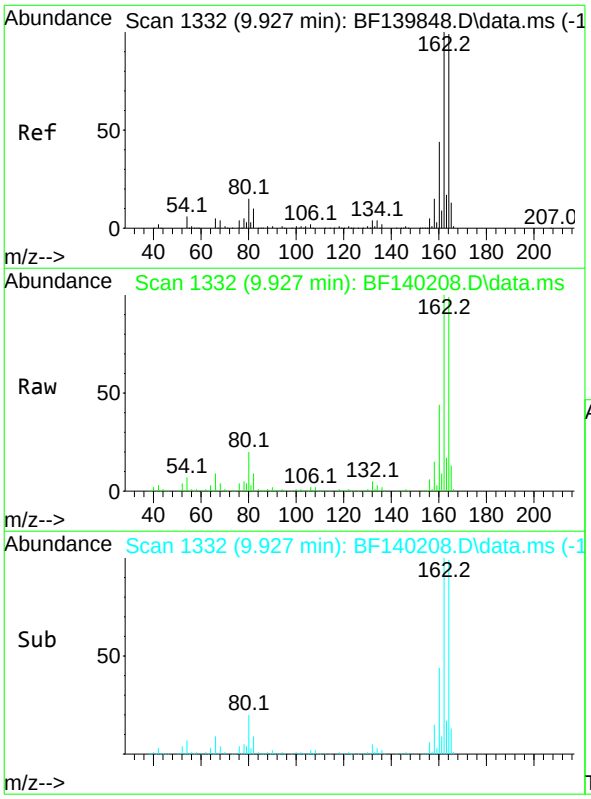
#23
Nitrobenzene-d5
Concen: 79.651 ng
RT: 7.439 min Scan# 90
Delta R.T. -0.012 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion: 82 Resp: 607199

Ion	Ratio	Lower	Upper
82	100		
128	41.2	33.4	50.0
54	60.5	47.8	71.8

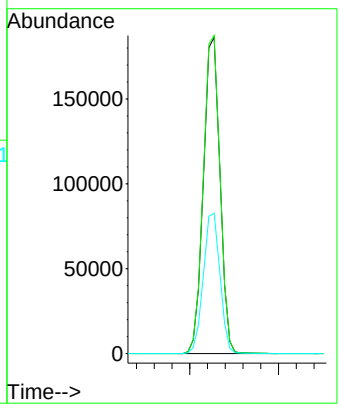


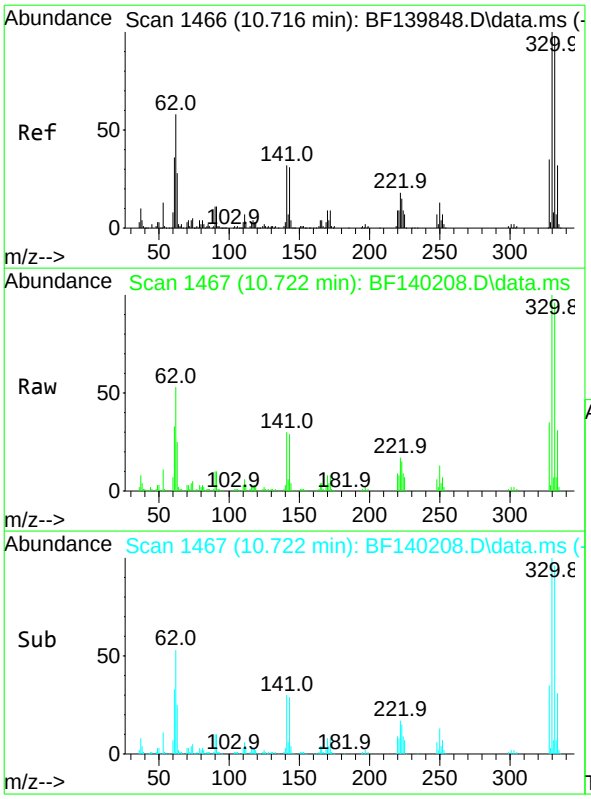


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.927 min Scan# 1332
Delta R.T. 0.000 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Tgt Ion:164 Resp: 242556

Ion	Ratio	Lower	Upper
164	100		
162	100.6	81.0	121.4
160	44.4	35.4	53.0



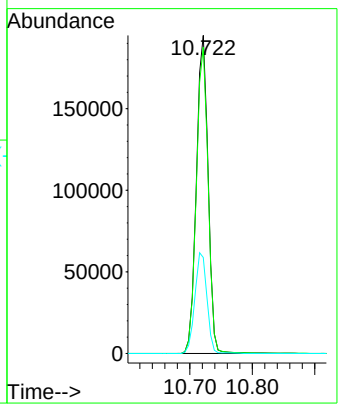


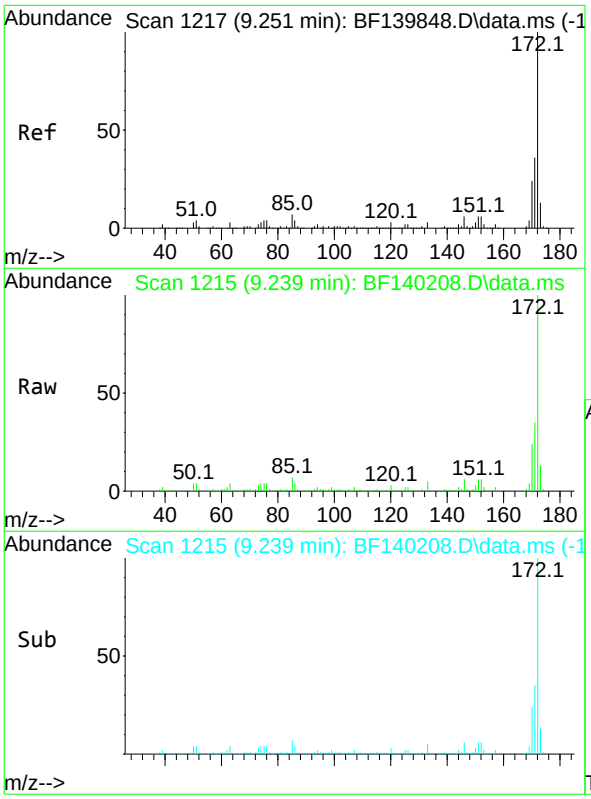
#42
2,4,6-Tribromophenol
Concen: 111.939 ng
RT: 10.722 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion:330 Resp: 253967

Ion	Ratio	Lower	Upper
330	100		
332	96.8	78.1	117.1
141	32.7	26.6	39.8

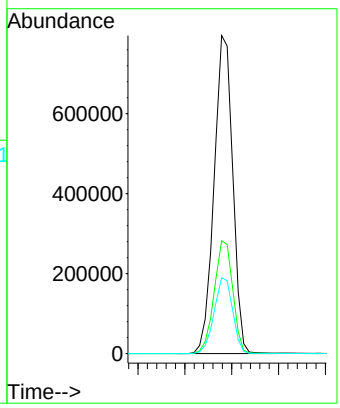


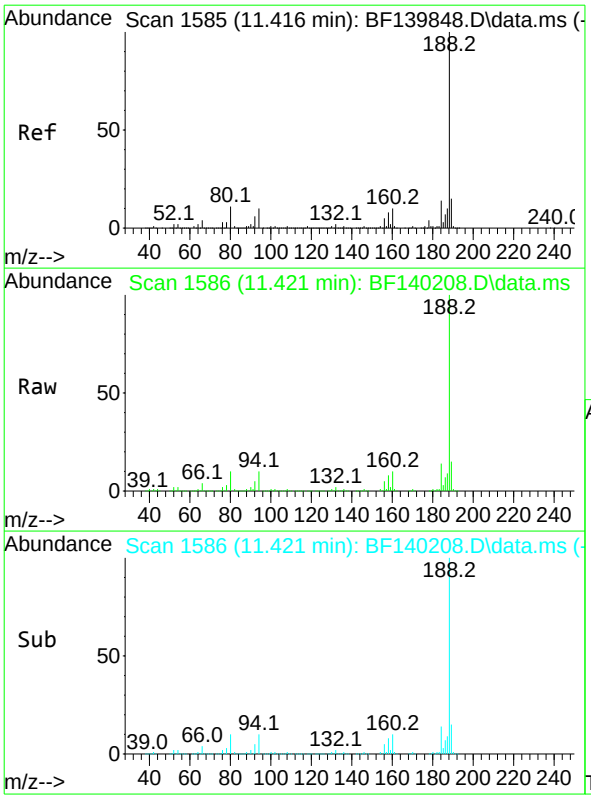


#45
2-Fluorobiphenyl
Concen: 75.041 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.012 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Tgt Ion:172 Resp: 1101325

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	43.0
170	23.8	19.1	28.7



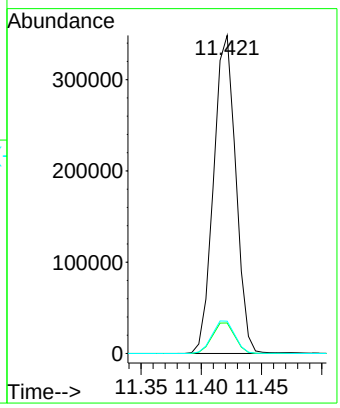


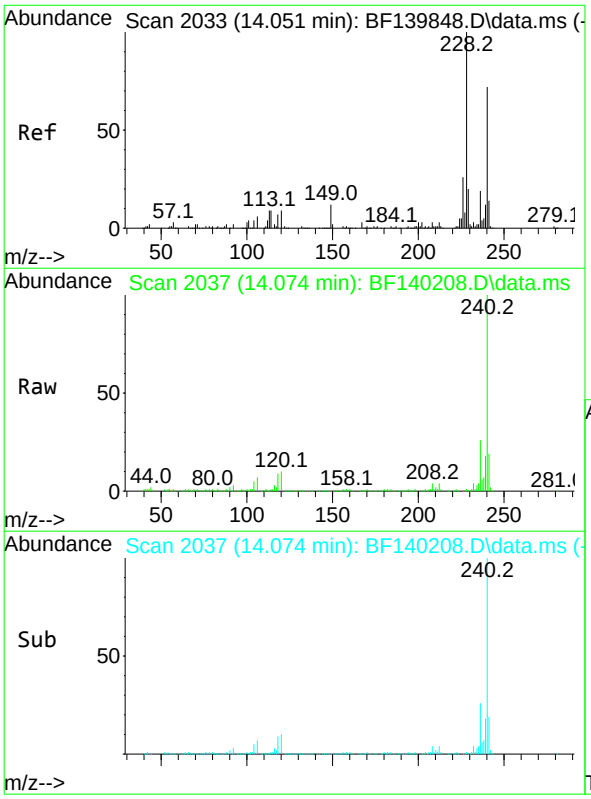
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.421 min Scan# 15
Delta R.T. 0.006 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion:188 Resp: 447541

Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.9	11.9
80	10.2	9.0	13.4

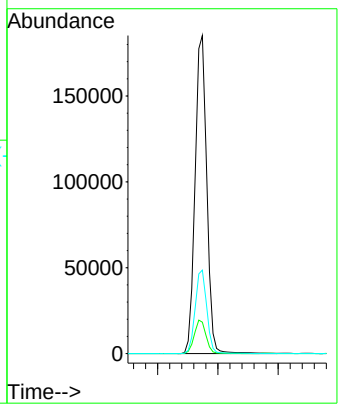


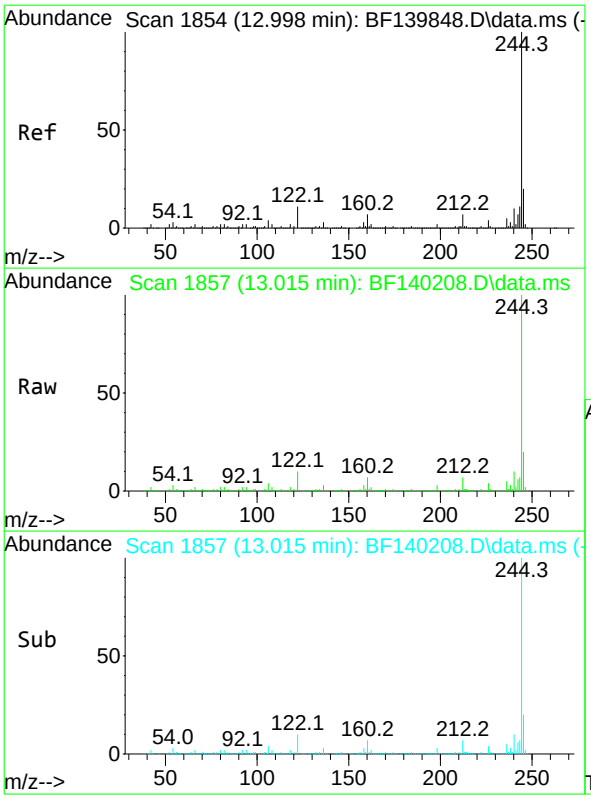


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.074 min Scan# 2037
Delta R.T. 0.024 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Tgt Ion:240 Resp: 249474

Ion	Ratio	Lower	Upper
240	100		
120	9.9	9.4	14.2
236	26.2	20.9	31.3



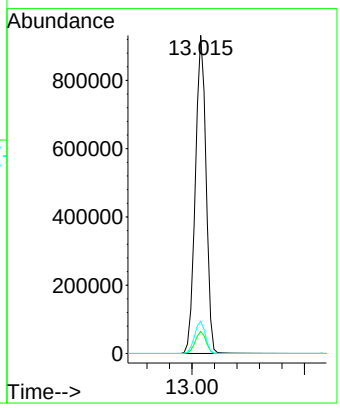


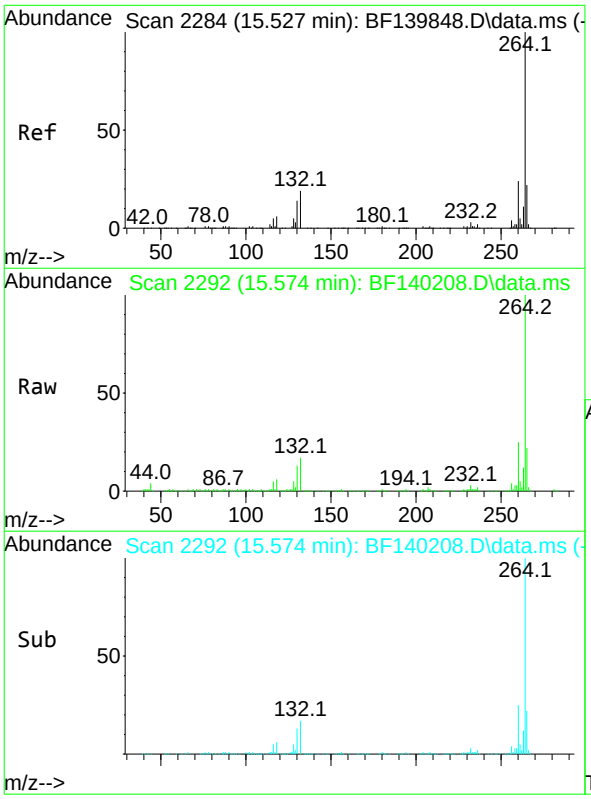
#79
Terphenyl-d14
Concen: 79.974 ng
RT: 13.015 min Scan# 18
Delta R.T. 0.018 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Instrument :
BNA_F
ClientSampleId :
RES-BUILDING-PAD-NO-2

Tgt Ion:244 Resp: 1224403

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.7	8.5
122	10.1	8.6	13.0

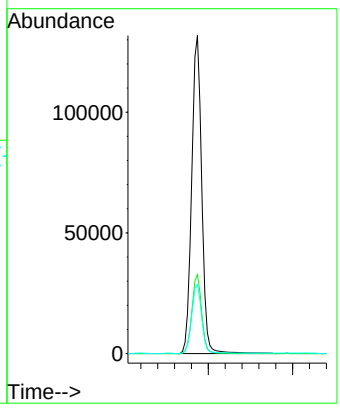




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.574 min Scan# 2292
Delta R.T. 0.047 min
Lab File: BF140208.D
Acq: 01 Nov 2024 14:00

Tgt Ion:264 Resp: 218114

Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.4	29.2
265	21.7	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101454.D
Acq On : 4 Nov 2024 13:25
Operator : RC/JU
Sample : PB164593BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Quant Time: Nov 04 13:19:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

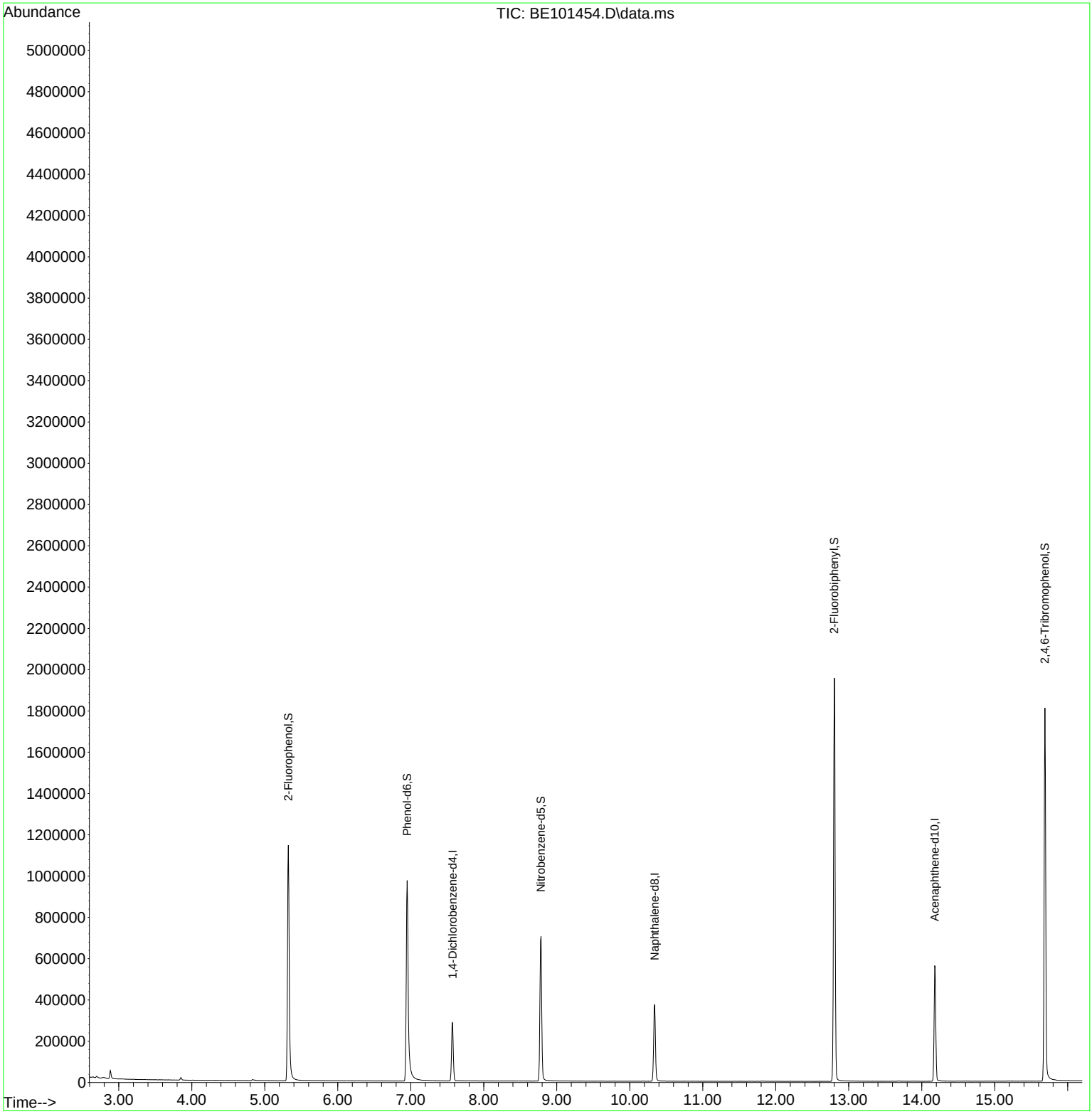
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.573	152	83697	20.000	ng	0.00
21) Naphthalene-d8	10.341	136	332383	20.000	ng	0.00
39) Acenaphthene-d10	14.177	164	209474	20.000	ng	0.00
64) Phenanthrene-d10	16.915	188	478774	20.000	ng	0.00
76) Chrysene-d12	21.075	240	637683	20.000	ng	0.00
86) Perylene-d12	23.372	264	926419	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.323	112	599545	125.548	ng	0.00
7) Phenol-d6	6.951	99	740437	111.822	ng	0.00
23) Nitrobenzene-d5	8.784	82	428697	81.009	ng	0.00
42) 2,4,6-Tribromophenol	15.687	330	459560	125.173	ng	0.00
45) 2-Fluorobiphenyl	12.802	172	1067682	86.319	ng	0.00
79) Terphenyl-d14	19.512	244	2218492	80.071	ng	0.00
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101454.D
Acq On : 4 Nov 2024 13:25
Operator : RC/JU
Sample : PB164593BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164593BL

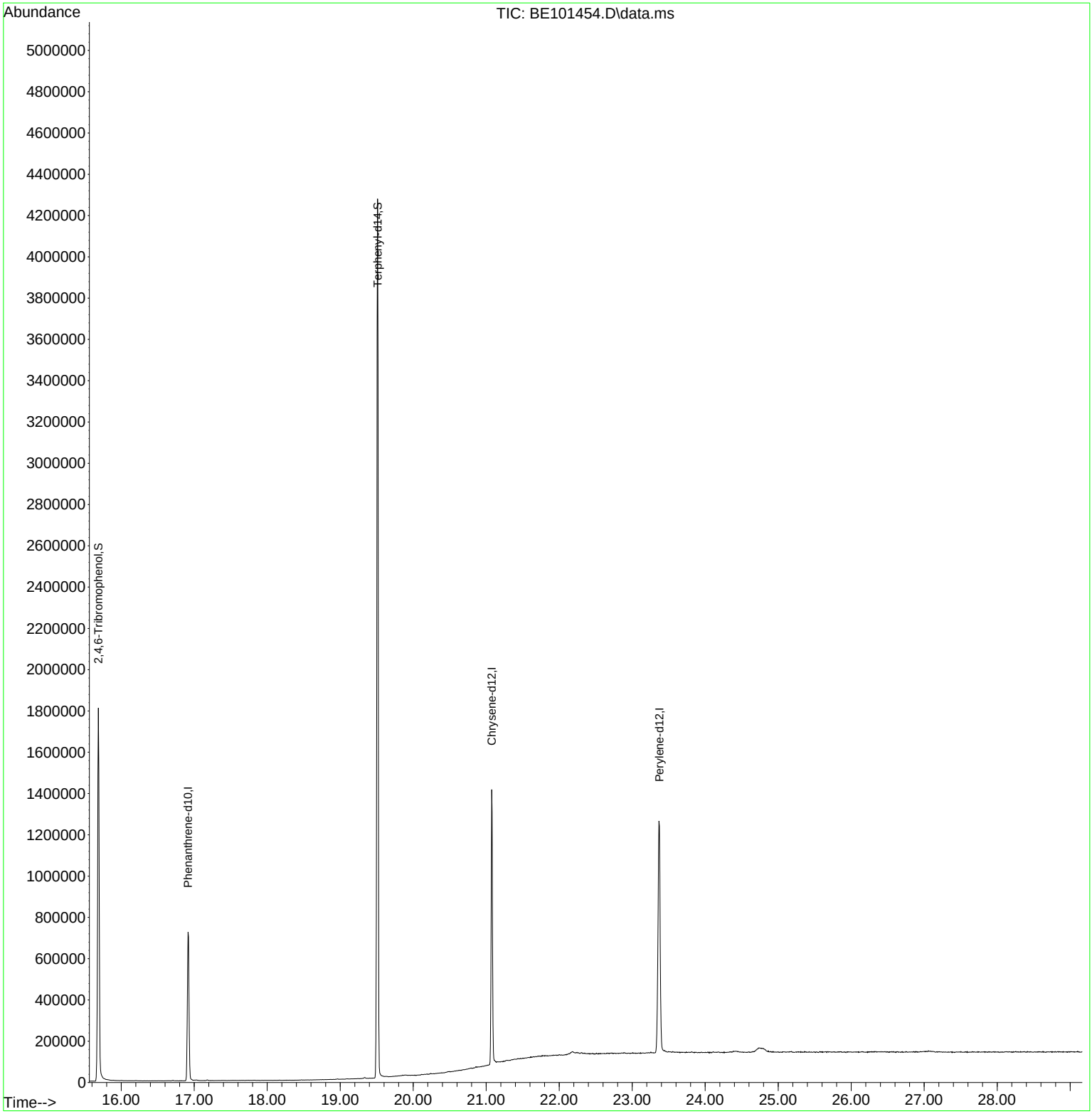
Quant Time: Nov 04 13:19:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

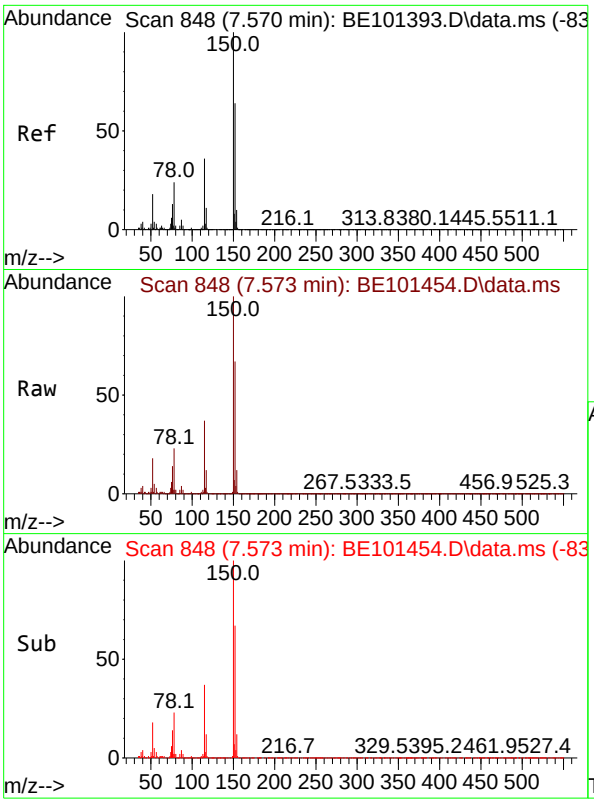


Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101454.D
Acq On : 4 Nov 2024 13:25
Operator : RC/JU
Sample : PB164593BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Quant Time: Nov 04 13:19:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration



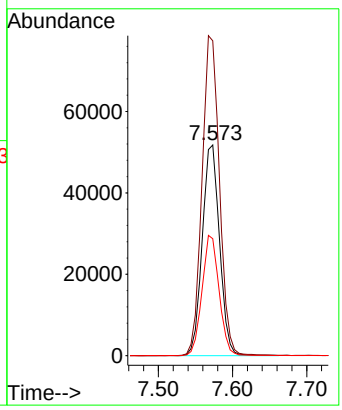


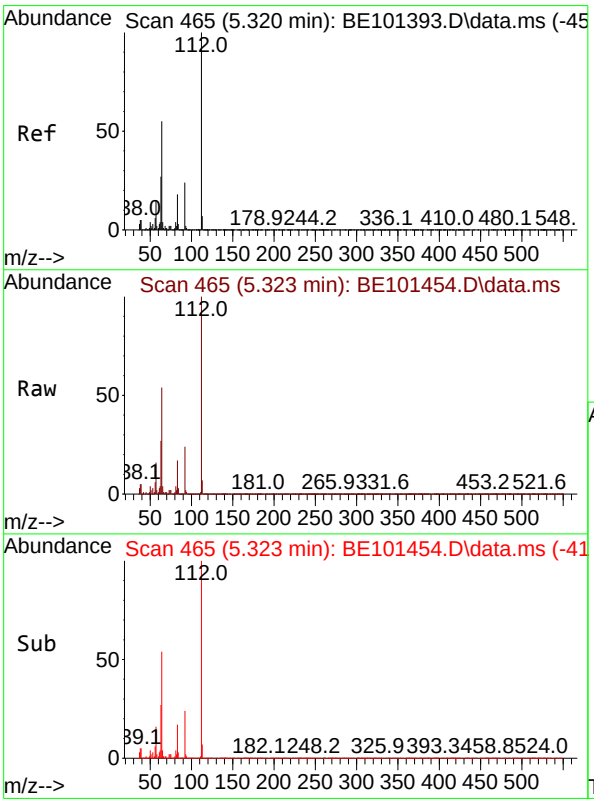
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.573 min Scan# 84
Delta R.T. 0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Tgt Ion:152 Resp: 83697

Ion	Ratio	Lower	Upper
152	100		
150	149.4	124.2	186.4
115	55.5	45.3	67.9

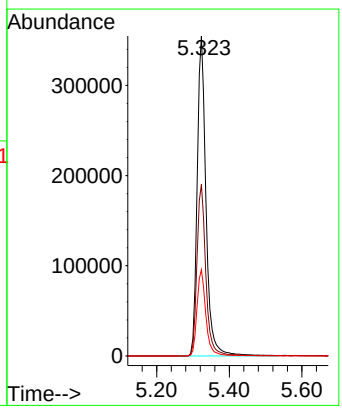


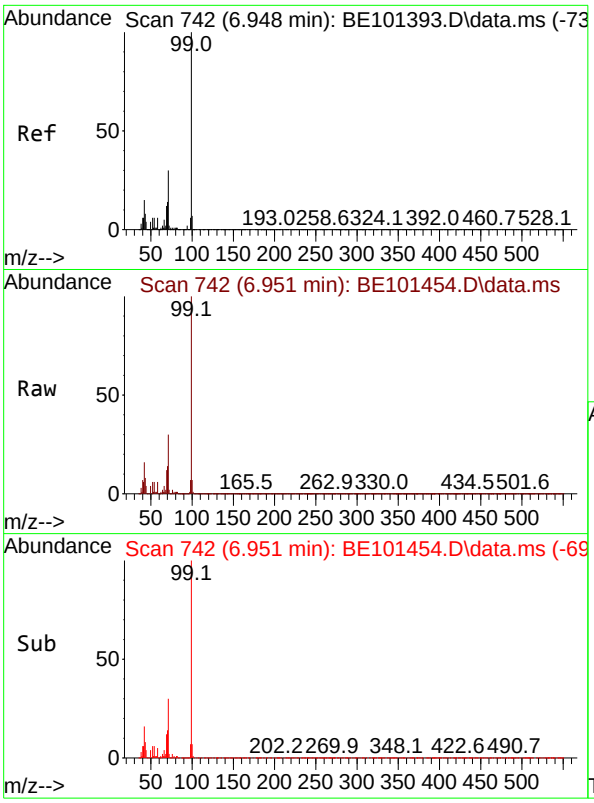


#5
2-Fluorophenol
Concen: 125.548 ng
RT: 5.323 min Scan# 465
Delta R.T. 0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Tgt Ion:112 Resp: 599545

Ion	Ratio	Lower	Upper
112	100		
64	53.6	43.7	65.5
63	26.9	21.4	32.2



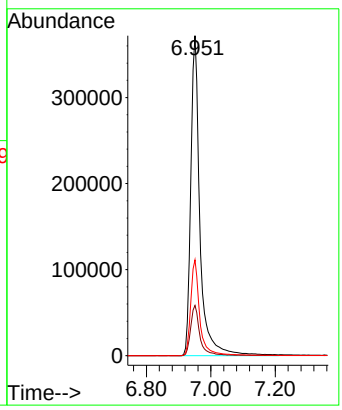


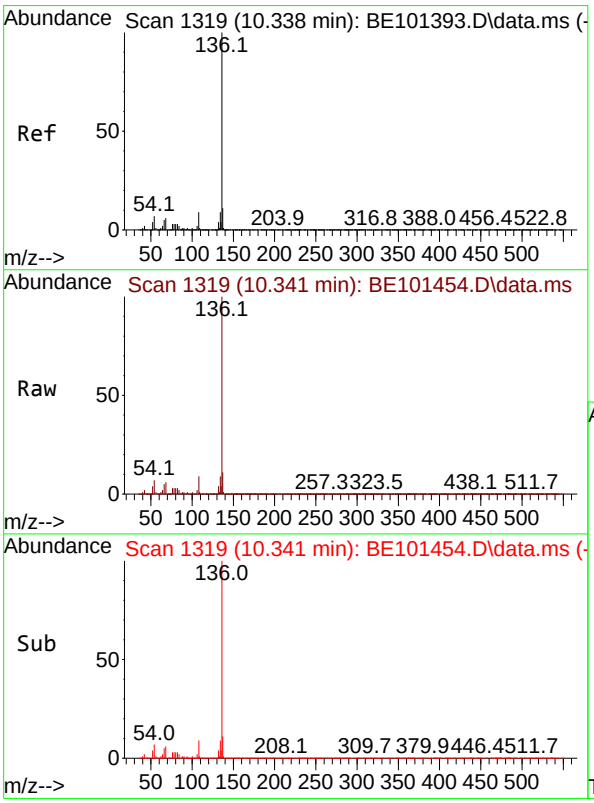
#7
Phenol-d6
Concen: 111.822 ng
RT: 6.951 min Scan# 74
Delta R.T. 0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Tgt Ion: 99 Resp: 740437

Ion	Ratio	Lower	Upper
99	100		
42	15.7	12.3	18.5
71	30.0	23.8	35.8

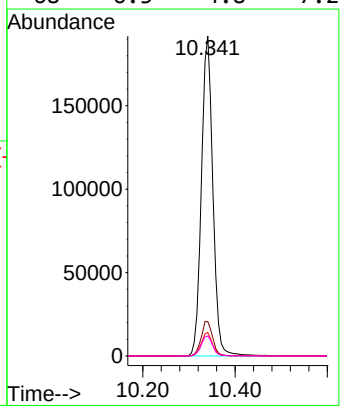


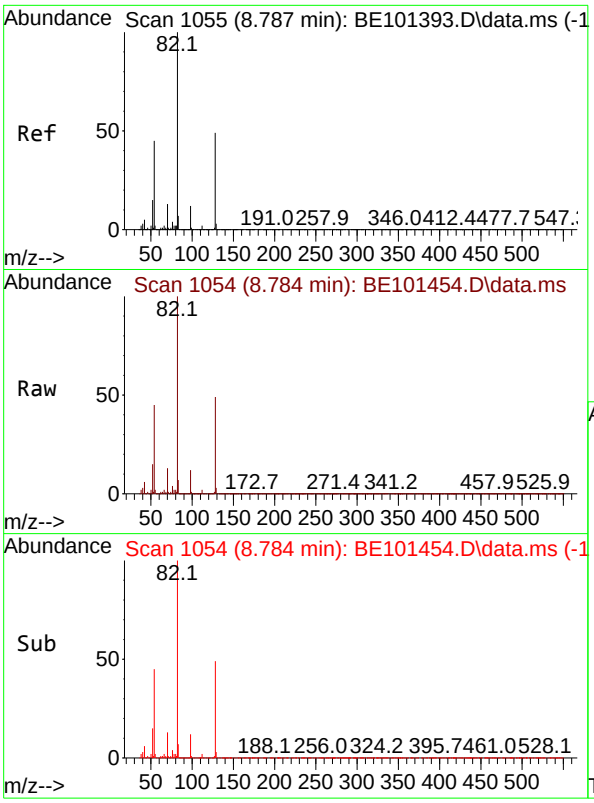


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.341 min Scan# 1319
Delta R.T. 0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Tgt Ion:136 Resp: 332383

Ion	Ratio	Lower	Upper
136	100		
137	10.7	9.0	13.6
54	7.3	5.9	8.9
68	6.3	4.8	7.2



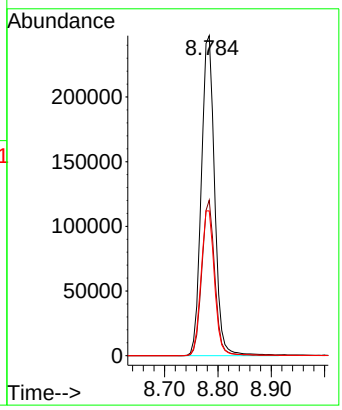


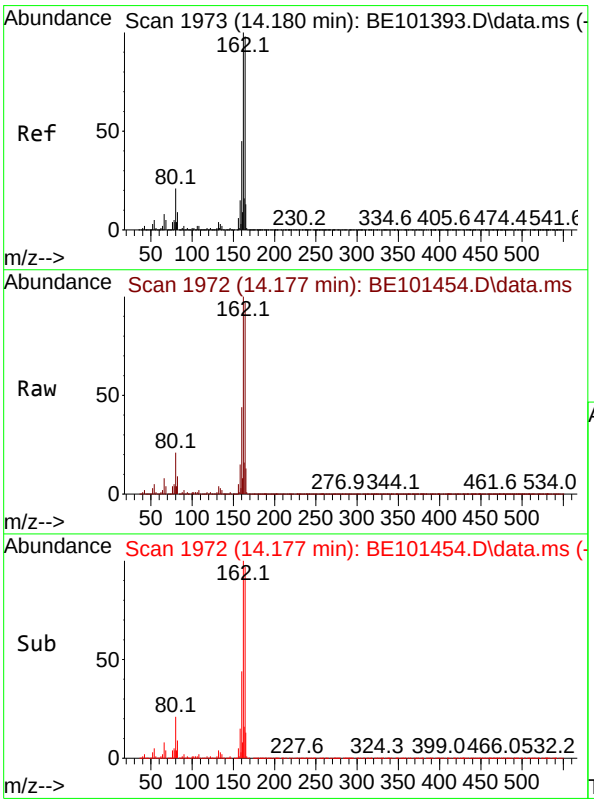
#23
Nitrobenzene-d5
Concen: 81.009 ng
RT: 8.784 min Scan# 1
Delta R.T. -0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Tgt Ion: 82 Resp: 428697

Ion	Ratio	Lower	Upper
82	100		
128	48.6	38.9	58.3
54	45.3	36.2	54.4

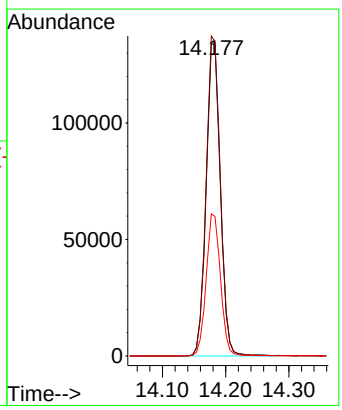


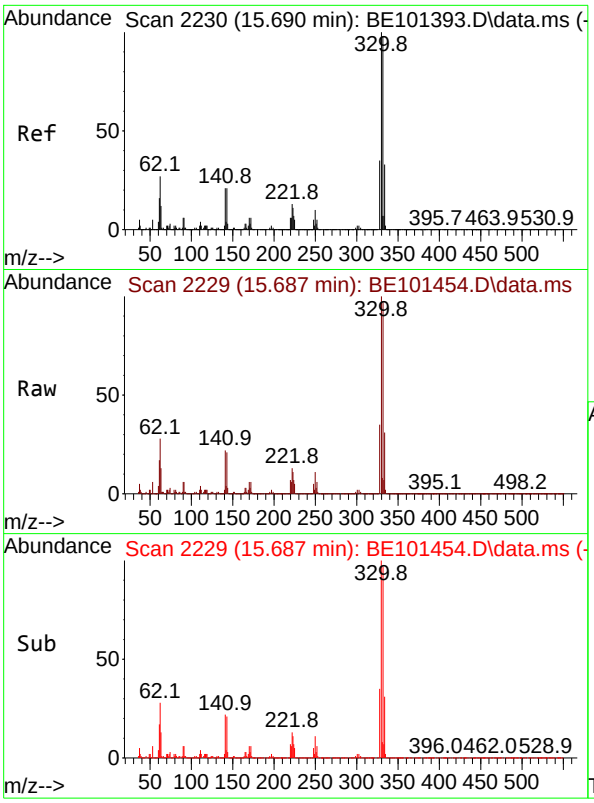


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.177 min Scan# 1972
Delta R.T. -0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Tgt Ion:164 Resp: 209474

Ion	Ratio	Lower	Upper
164	100		
162	102.6	81.3	121.9
160	45.5	36.4	54.6



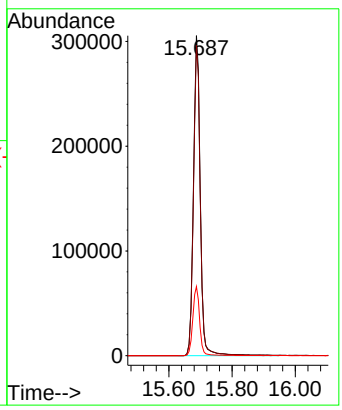


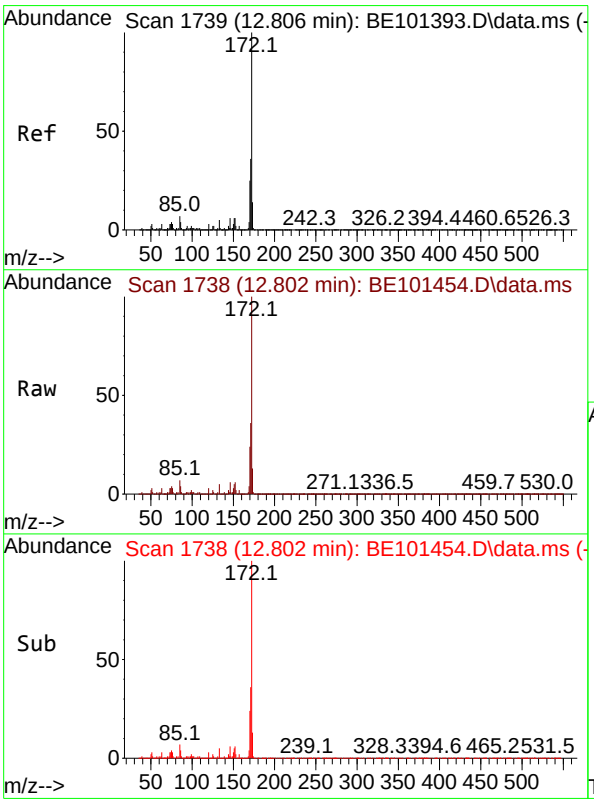
#42
2,4,6-Tribromophenol
Concen: 125.173 ng
RT: 15.687 min Scan# 2
Delta R.T. -0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Tgt Ion:330 Resp: 459560

Ion	Ratio	Lower	Upper
330	100		
332	96.6	78.2	117.2
141	21.8	18.3	27.5

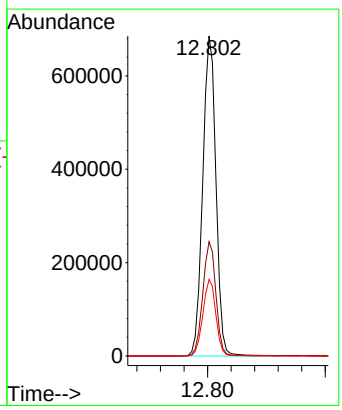


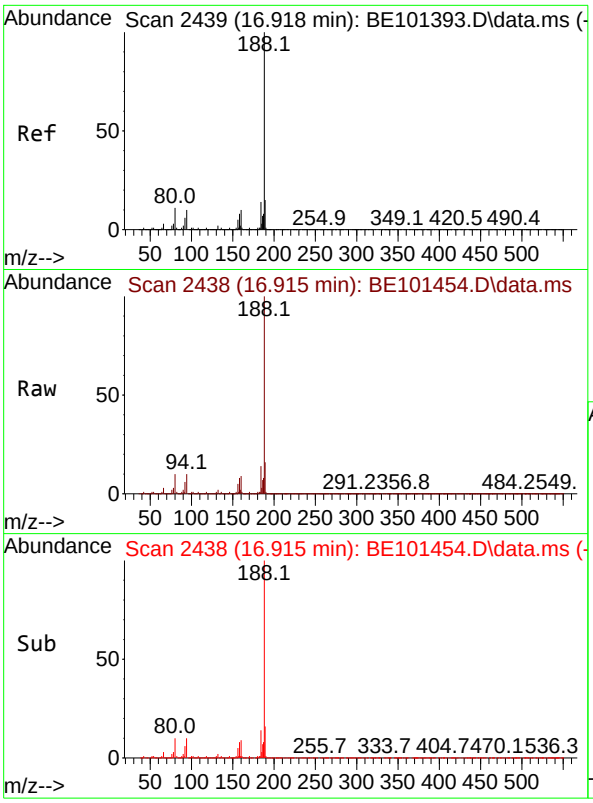


#45
2-Fluorobiphenyl
Concen: 86.319 ng
RT: 12.802 min Scan# 1738
Delta R.T. -0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Tgt Ion:172 Resp: 1067682

Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.2	43.8
170	23.9	19.8	29.6



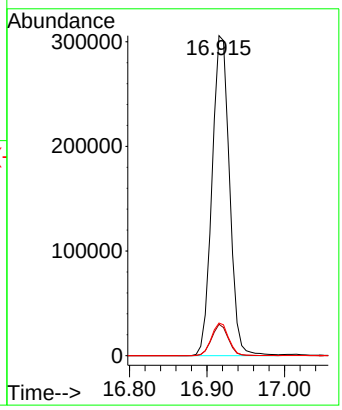


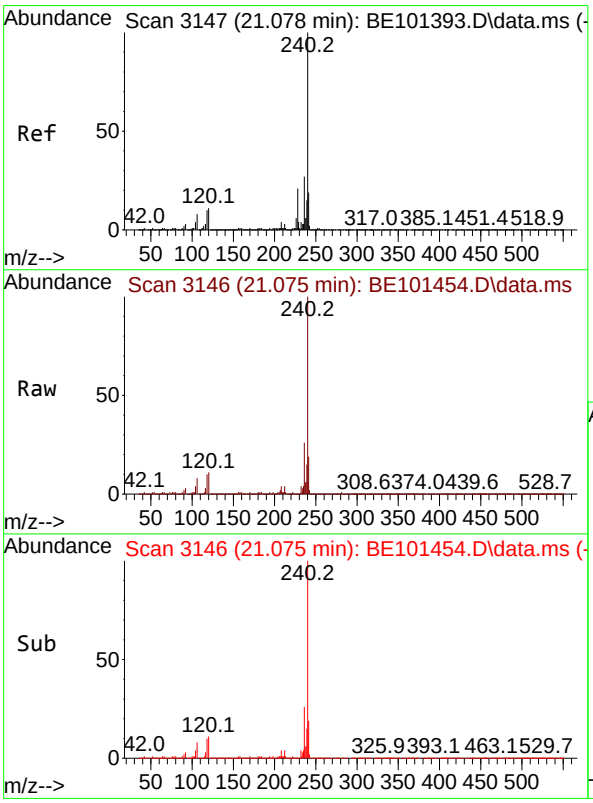
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.915 min Scan# 24
Delta R.T. -0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Tgt Ion:188 Resp: 478774

Ion	Ratio	Lower	Upper
188	100		
94	9.8	7.8	11.8
80	10.2	8.6	12.8

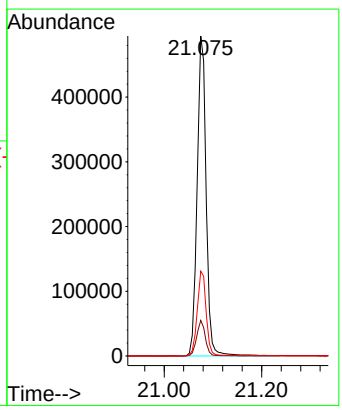


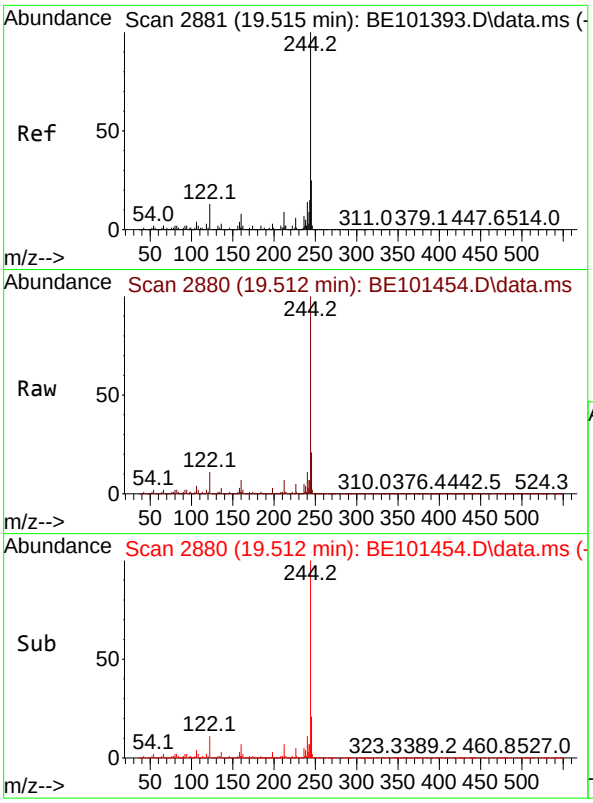


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.075 min Scan# 3146
Delta R.T. -0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Tgt Ion:240 Resp: 637683

Ion	Ratio	Lower	Upper
240	100		
120	11.1	9.0	13.4
236	26.5	21.4	32.0



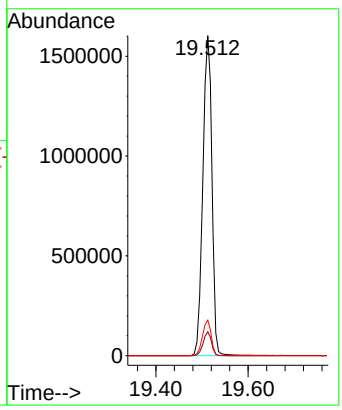


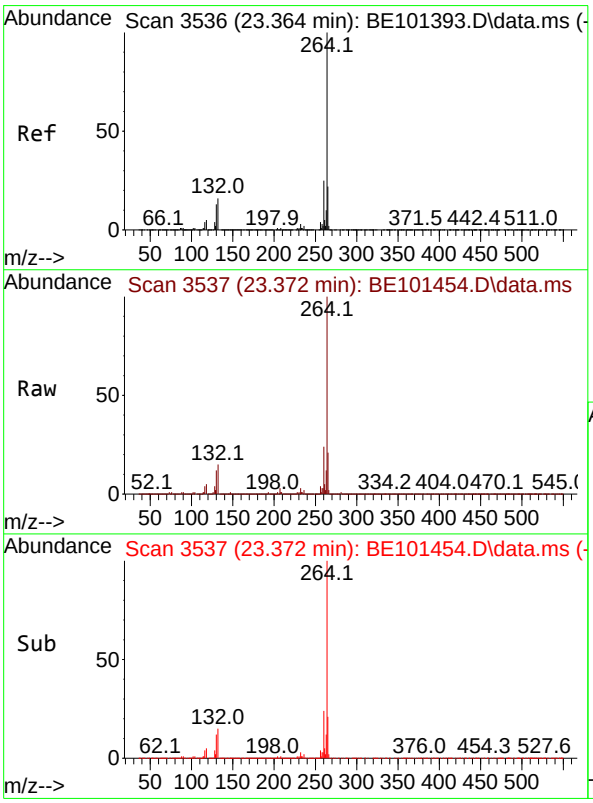
#79
Terphenyl-d14
Concen: 80.071 ng
RT: 19.512 min Scan# 2
Delta R.T. -0.003 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Instrument :
BNA_E
ClientSampleId :
PB164593BL

Tgt Ion:244 Resp: 2218492

Ion	Ratio	Lower	Upper
244	100		
212	7.4	7.2	10.8
122	11.1	10.4	15.6

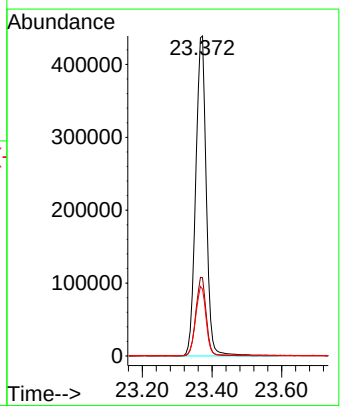




#86
Perylene-d12
Concen: 20.000 ng
RT: 23.372 min Scan# 3537
Delta R.T. 0.009 min
Lab File: BE101454.D
Acq: 4 Nov 2024 13:25

Tgt Ion:264 Resp: 926419

Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.8	29.8
265	20.9	17.6	26.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101455.D
Acq On : 4 Nov 2024 14:04
Operator : RC/JU
Sample : PB164593BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 13:49:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164593BS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.571	152	76985	20.000	ng	0.00
21) Naphthalene-d8	10.338	136	325431	20.000	ng	0.00
39) Acenaphthene-d10	14.180	164	205486	20.000	ng	0.00
64) Phenanthrene-d10	16.918	188	423694	20.000	ng	0.00
76) Chrysene-d12	21.084	240	509474	20.000	ng	0.00
86) Perylene-d12	23.375	264	767672	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.320	112	693147	157.804	ng	0.00
7) Phenol-d6	6.954	99	871334	143.063	ng	0.00
23) Nitrobenzene-d5	8.787	82	520878	100.531	ng	0.00
42) 2,4,6-Tribromophenol	15.690	330	536480	148.960	ng	0.00
45) 2-Fluorobiphenyl	12.806	172	1306116	107.645	ng	0.00
79) Terphenyl-d14	19.515	244	2196084	99.208	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.205	88	70754	43.188	ng	98
3) Pyridine	3.628	79	191248	41.262	ng	96
4) n-Nitrosodimethylamine	3.552	42	91466	51.003	ng	95
6) Aniline	7.006	93	280379	60.068	ng	95
8) 2-Chlorophenol	7.218	128	264019	50.115	ng	100
9) Benzaldehyde	6.783	77	31743	10.796	ng	95
10) Phenol	6.977	94	339596	51.389	ng	98
11) bis(2-Chloroethyl)ether	7.042	93	230338m	42.488	ng	
12) 1,3-Dichlorobenzene	7.459	146	264906	46.632	ng	99
13) 1,4-Dichlorobenzene	7.606	146	271166	46.744	ng	98
14) 1,2-Dichlorobenzene	7.935	146	261397	46.034	ng	99
15) Benzyl Alcohol	7.911	79	172649	47.555	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.070	45	313270	45.918	ng	99
17) 2-Methylphenol	8.158	107	209978	46.947	ng	97
18) Hexachloroethane	8.628	117	91892	48.506	ng	99
19) n-Nitroso-di-n-propyla...	8.375	70	178737	44.224	ng	99
20) 3+4-Methylphenols	8.493	107	284028	46.005	ng	98
22) Acetophenone	8.422	105	353960	47.902	ng	99
24) Nitrobenzene	8.822	77	259578	47.071	ng	99
25) Isophorone	9.274	82	483008	47.772	ng	99
26) 2-Nitrophenol	9.509	139	144486	54.209	ng	98
27) 2,4-Dimethylphenol	9.627	122	211356	63.017	ng	99
28) bis(2-Chloroethoxy)met...	9.774	93	297209	48.472	ng	99
29) 2,4-Dichlorophenol	10.062	162	242384	52.238	ng	98
30) 1,2,4-Trichlorobenzene	10.185	180	238677	47.219	ng	99
31) Naphthalene	10.391	128	784503	47.306	ng	100
32) Benzoic acid	9.897	122	60872	22.839	ng	98
33) 4-Chloroaniline	10.614	127	199490	34.594	ng	99
34) Hexachlorobutadiene	10.637	225	148547	49.649	ng	99
35) Caprolactam	11.401	113	78529m	44.152	ng	
36) 4-Chloro-3-methylphenol	11.795	107	248562	47.048	ng	100
37) 2-Methylnaphthalene	11.977	142	556424	46.572	ng	99
38) 1-Methylnaphthalene	12.206	142	519077	43.531	ng	99
40) 1,2,4,5-Tetrachloroben...	12.336	216	271384	52.610	ng	99
41) Hexachlorocyclopentadiene	12.318	237	362645	212.866	ng	98
43) 2,4,6-Trichlorophenol	12.659	196	195477	54.969	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101455.D
Acq On : 4 Nov 2024 14:04
Operator : RC/JU
Sample : PB164593BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 13:49:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164593BS

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.759	196	212637	52.215	ng	99
46) 1,1'-Biphenyl	13.011	154	719065	51.077	ng	99
47) 2-Chloronaphthalene	13.058	162	552759	49.697	ng	99
48) 2-Nitroaniline	13.387	65	157481	52.611	ng	95
49) Acenaphthylene	13.916	152	893146	54.300	ng	99
50) Dimethylphthalate	13.687	163	714638	49.270	ng	100
51) 2,6-Dinitrotoluene	13.828	165	156801	46.824	ng	95
52) Acenaphthene	14.245	154	537431	50.038	ng	99
53) 3-Nitroaniline	14.233	138	114689	34.442	ng	99
54) 2,4-Dinitrophenol	14.374	184	196055	82.228	ng	98
55) Dibenzofuran	14.586	168	847461	49.505	ng	99
56) 4-Nitrophenol	14.662	139	285451	93.609	ng	98
57) 2,4-Dinitrotoluene	14.609	165	222670	48.298	ng	98
58) Fluorene	15.226	166	695686	48.579	ng	98
59) 2,3,4,6-Tetrachlorophenol	14.856	232	191796	50.975	ng	98
60) Diethylphthalate	15.015	149	720038	47.460	ng	99
61) 4-Chlorophenyl-phenyle...	15.214	204	342444	48.188	ng	100
62) 4-Nitroaniline	15.426	138	160219	43.240	ng	98
63) Azobenzene	15.508	77	633307	48.563	ng	100
65) 4,6-Dinitro-2-methylph...	15.355	198	129900	52.175	ng	98
66) n-Nitrosodiphenylamine	15.461	169	615362	54.767	ng	100
67) 4-Bromophenyl-phenylether	16.102	248	237916	53.381	ng	95
68) Hexachlorobenzene	16.207	284	304031	52.043	ng	98
69) Atrazine	16.401	200	220213	63.929	ng	99
70) Pentachlorophenol	16.619	266	344687	102.503	ng	99
71) Phenanthrene	16.959	178	1077835	53.132	ng	98
72) Anthracene	17.048	178	1115084	56.294	ng	99
73) Carbazole	17.377	167	1030100	50.825	ng	99
74) Di-n-butylphthalate	17.823	149	1219240	54.644	ng	98
75) Fluoranthene	18.969	202	1269285	51.516	ng	97
77) Benzidine	19.216	184	668255	103.348	ng	99
78) Pyrene	19.339	202	1355159	48.369	ng	96
80) Butylbenzylphthalate	20.185	149	631301	51.399	ng	98
81) Benzo(a)anthracene	21.061	228	1556464	54.354	ng	97
82) 3,3'-Dichlorobenzidine	21.037	252	486539	43.373	ng	99
83) Chrysene	21.119	228	1485431	53.651	ng	96
84) Bis(2-ethylhexyl)phtha...	20.884	149	962224	58.972	ng	98
85) Di-n-octyl phthalate	21.736	149	1800783	67.243	ng	99
87) Indeno(1,2,3-cd)pyrene	25.720	276	2812176	54.737	ng	99
88) Benzo(b)fluoranthene	22.665	252	2045650	51.133	ng	98
89) Benzo(k)fluoranthene	22.712	252	1887959	50.512	ng	97
90) Benzo(a)pyrene	23.270	252	1952639	55.809	ng	99
91) Dibenzo(a,h)anthracene	25.708	278	2310859	54.435	ng	99
92) Benzo(g,h,i)perylene	26.466	276	2172231	49.662	ng	99

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

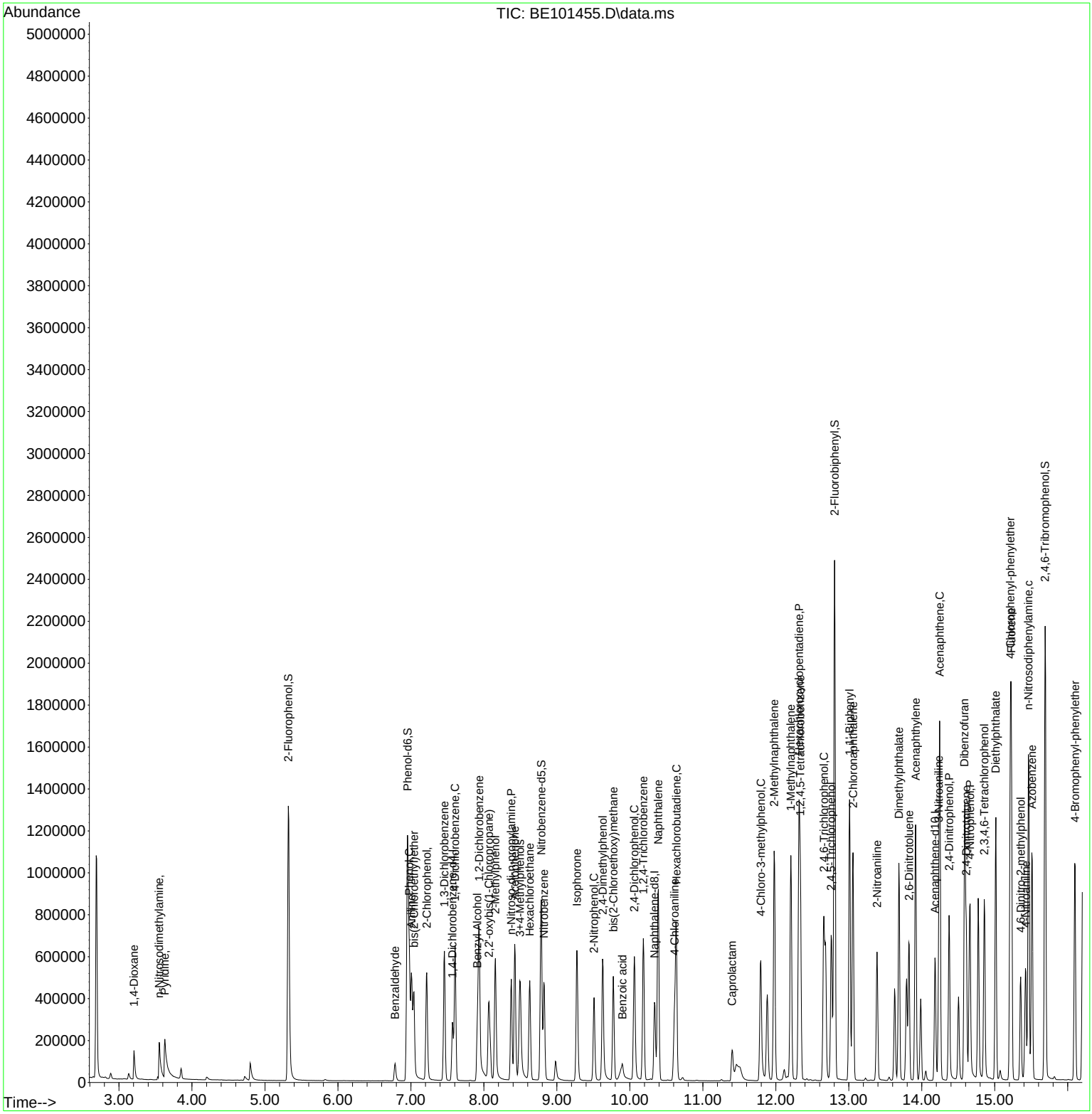
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101455.D
Acq On : 4 Nov 2024 14:04
Operator : RC/JU
Sample : PB164593BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 13:49:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164593BS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



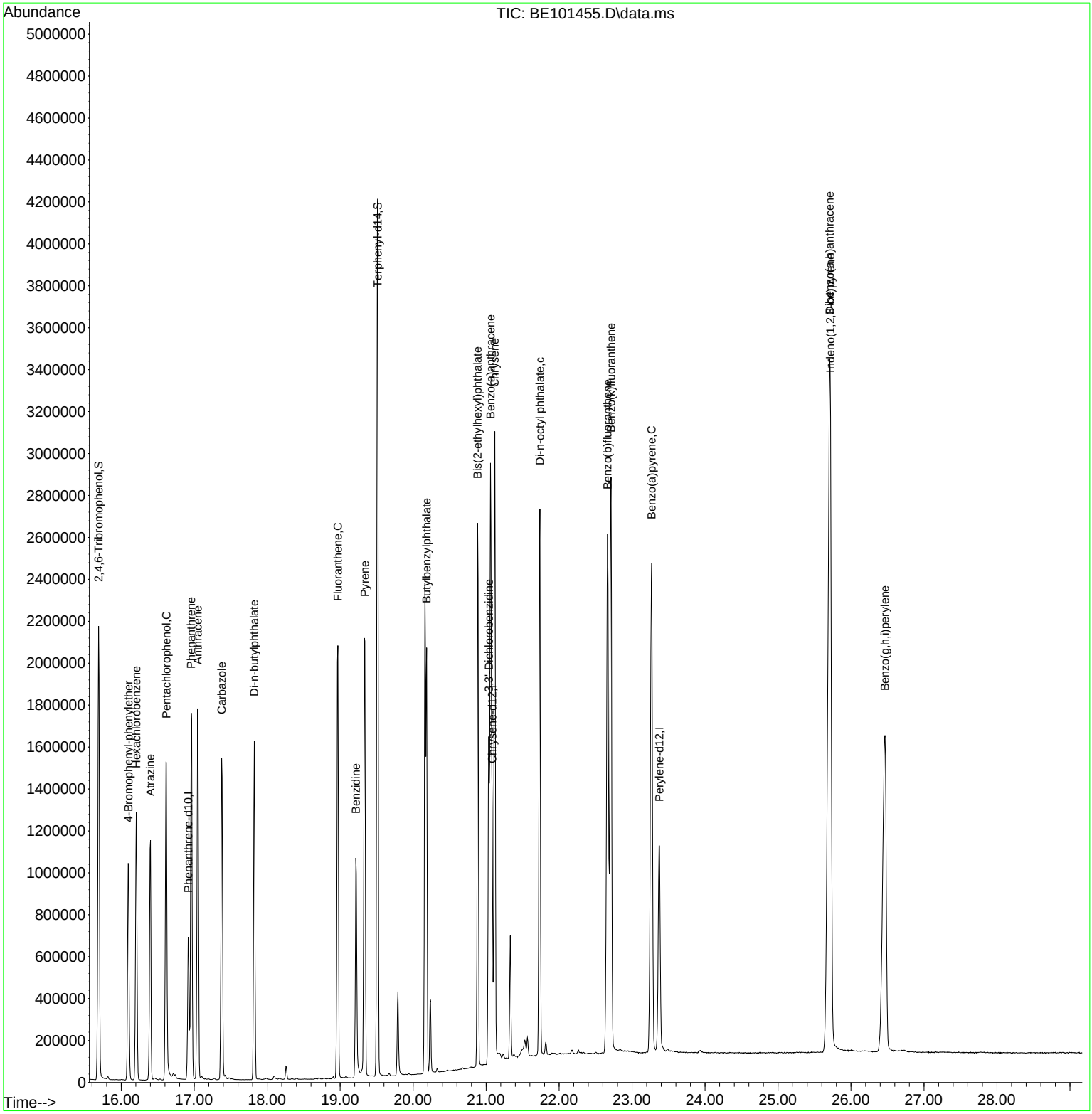
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE110424\
Data File : BE101455.D
Acq On : 4 Nov 2024 14:04
Operator : RC/JU
Sample : PB164593BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 13:49:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164593BS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



Sample Results: **BF140209.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140209.D
Acq On : 01 Nov 2024 14:27
Operator : RC/JU
Sample : P4663-08MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 01 14:53:42 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 :
RES-BUILDING-PAD-NO-2MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	109344	20.000	ng		0.00
21) Naphthalene-d8	8.163	136	436831	20.000	ng		-0.01
39) Acenaphthene-d10	9.928	164	250775	20.000	ng		0.00
64) Phenanthrene-d10	11.422	188	453631	20.000	ng		0.00
76) Chrysene-d12	14.074	240	223586	20.000	ng		0.02
86) Perylene-d12	15.568	264	232464	20.000	ng		0.04
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	724961	103.793	ng		0.01
7) Phenol-d6	6.510	99	940607	103.977	ng		0.00
23) Nitrobenzene-d5	7.445	82	641831	81.433	ng		0.00
42) 2,4,6-Tribromophenol	10.722	330	260711	111.146	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1151750	75.904	ng		0.00
79) Terphenyl-d14	13.010	244	1184293	86.311	ng		0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.752	88	129899	39.888	ng		98
3) Pyridine	3.504	79	324457	40.195	ng		96
4) n-Nitrosodimethylamine	3.457	42	206659	47.651	ng	#	91
6) Aniline	6.545	93	340812	40.424	ng		97
8) 2-Chlorophenol	6.669	128	365786	51.227	ng		98
9) Benzaldehyde	6.434	77	64850	12.743	ng		98
10) Phenol	6.528	94	467149m	50.090	ng		
11) bis(2-Chloroethyl)ether	6.622	93	355594	49.330	ng		98
12) 1,3-Dichlorobenzene	6.828	146	390215	47.607	ng		100
13) 1,4-Dichlorobenzene	6.904	146	392139	47.886	ng		100
14) 1,2-Dichlorobenzene	7.051	146	375795	49.170	ng		100
15) Benzyl Alcohol	7.022	79	351797	53.015	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.157	45	638462	51.943	ng		99
17) 2-Methylphenol	7.134	107	310623	51.017	ng		97
18) Hexachloroethane	7.398	117	142700	48.867	ng		96
19) n-Nitroso-di-n-propyla...	7.292	70	276540	50.403	ng		99
20) 3+4-Methylphenols	7.287	107	376610	48.359	ng	#	77
22) Acetophenone	7.292	105	510174	47.682	ng		97
24) Nitrobenzene	7.463	77	421988	48.833	ng		99
25) Isophorone	7.704	82	763314	51.026	ng		99
26) 2-Nitrophenol	7.781	139	195206	59.879	ng		98
27) 2,4-Dimethylphenol	7.816	122	308534	56.758	ng		98
28) bis(2-Chloroethoxy)met...	7.910	93	445939	49.202	ng		99
29) 2,4-Dichlorophenol	8.022	162	310304	50.117	ng		99
30) 1,2,4-Trichlorobenzene	8.104	180	317160	46.293	ng		99
31) Naphthalene	8.187	128	1093246	48.526	ng		100
32) Benzoic acid	7.934	122	220440	46.495	ng		100
33) 4-Chloroaniline	8.234	127	162025	21.091	ng		99
34) Hexachlorobutadiene	8.304	225	211631	49.163	ng		98
35) Caprolactam	8.610	113	103436m	52.539	ng		
36) 4-Chloro-3-methylphenol	8.716	107	349680	51.004	ng		99
37) 2-Methylnaphthalene	8.881	142	694334	50.322	ng		100
38) 1-Methylnaphthalene	8.981	142	644168	47.585	ng		99
40) 1,2,4,5-Tetrachloroben...	9.045	216	331887	49.056	ng		99
41) Hexachlorocyclopentadiene	9.034	237	382117	162.321	ng		99
43) 2,4,6-Trichlorophenol	9.157	196	242443	50.615	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140209.D
Acq On : 01 Nov 2024 14:27
Operator : RC/JU
Sample : P4663-08MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 01 14:53:42 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 :
RES-BUILDING-PAD-NO-2MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	241760	48.921	ng		99
46) 1,1'-Biphenyl	9.345	154	845728	48.445	ng		99
47) 2-Chloronaphthalene	9.369	162	669578	47.621	ng		98
48) 2-Nitroaniline	9.469	65	247721	57.605	ng		98
49) Acenaphthylene	9.792	152	1054552	51.878	ng		99
50) Dimethylphthalate	9.651	163	803664	51.450	ng		100
51) 2,6-Dinitrotoluene	9.710	165	176490	52.184	ng		96
52) Acenaphthene	9.963	154	734613	55.865	ng		99
53) 3-Nitroaniline	9.881	138	120242	34.475	ng		96
54) 2,4-Dinitrophenol	9.992	184	186032	128.114	ng	#	1
55) Dibenzofuran	10.139	168	919276	48.725	ng		99
56) 4-Nitrophenol	10.045	139	284253	105.933	ng		93
57) 2,4-Dinitrotoluene	10.122	165	243168	58.467	ng		96
58) Fluorene	10.480	166	713514	49.653	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.257	232	201098	51.908	ng		99
60) Diethylphthalate	10.357	149	792783	51.692	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	359435	49.530	ng		98
62) 4-Nitroaniline	10.504	138	177917	54.011	ng		96
63) Azobenzene	10.633	77	941594	57.911	ng		96
65) 4,6-Dinitro-2-methylph...	10.528	198	128815	69.617	ng		98
66) n-Nitrosodiphenylamine	10.592	169	661283	48.706	ng		99
67) 4-Bromophenyl-phenylether	10.963	248	230172	49.253	ng		97
68) Hexachlorobenzene	11.028	284	250093	47.584	ng		98
69) Atrazine	11.122	200	219710	59.739	ng		99
70) Pentachlorophenol	11.227	266	300666	94.258	ng		99
71) Phenanthrene	11.445	178	1043455	48.697	ng		100
72) Anthracene	11.498	178	1057230	50.569	ng		100
73) Carbazole	11.651	167	926239	47.637	ng		99
74) Di-n-butylphthalate	11.980	149	1188190	52.893	ng		100
75) Fluoranthene	12.639	202	1039398	47.983	ng		99
77) Benzidine	12.763	184	323149	87.896	ng		98
78) Pyrene	12.869	202	1044880	53.389	ng		100
80) Butylbenzylphthalate	13.486	149	434089	73.982	ng		96
81) Benzo(a)anthracene	14.063	228	727202	49.963	ng		99
82) 3,3'-Dichlorobenzidine	14.021	252	168586	39.727	ng		97
83) Chrysene	14.098	228	683337	51.206	ng		100
84) Bis(2-ethylhexyl)phtha...	14.051	149	546086	82.954	ng		99
85) Di-n-octyl phthalate	14.668	149	775336	64.753	ng		99
87) Indeno(1,2,3-cd)pyrene	17.098	276	765016	51.155	ng		98
88) Benzo(b)fluoranthene	15.127	252	713676	50.398	ng		100
89) Benzo(k)fluoranthene	15.157	252	573519	46.962	ng		100
90) Benzo(a)pyrene	15.504	252	630220	54.087	ng		100
91) Dibenzo(a,h)anthracene	17.121	278	624384	50.048	ng		98
92) Benzo(g,h,i)perylene	17.562	276	554578	44.503	ng		98

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

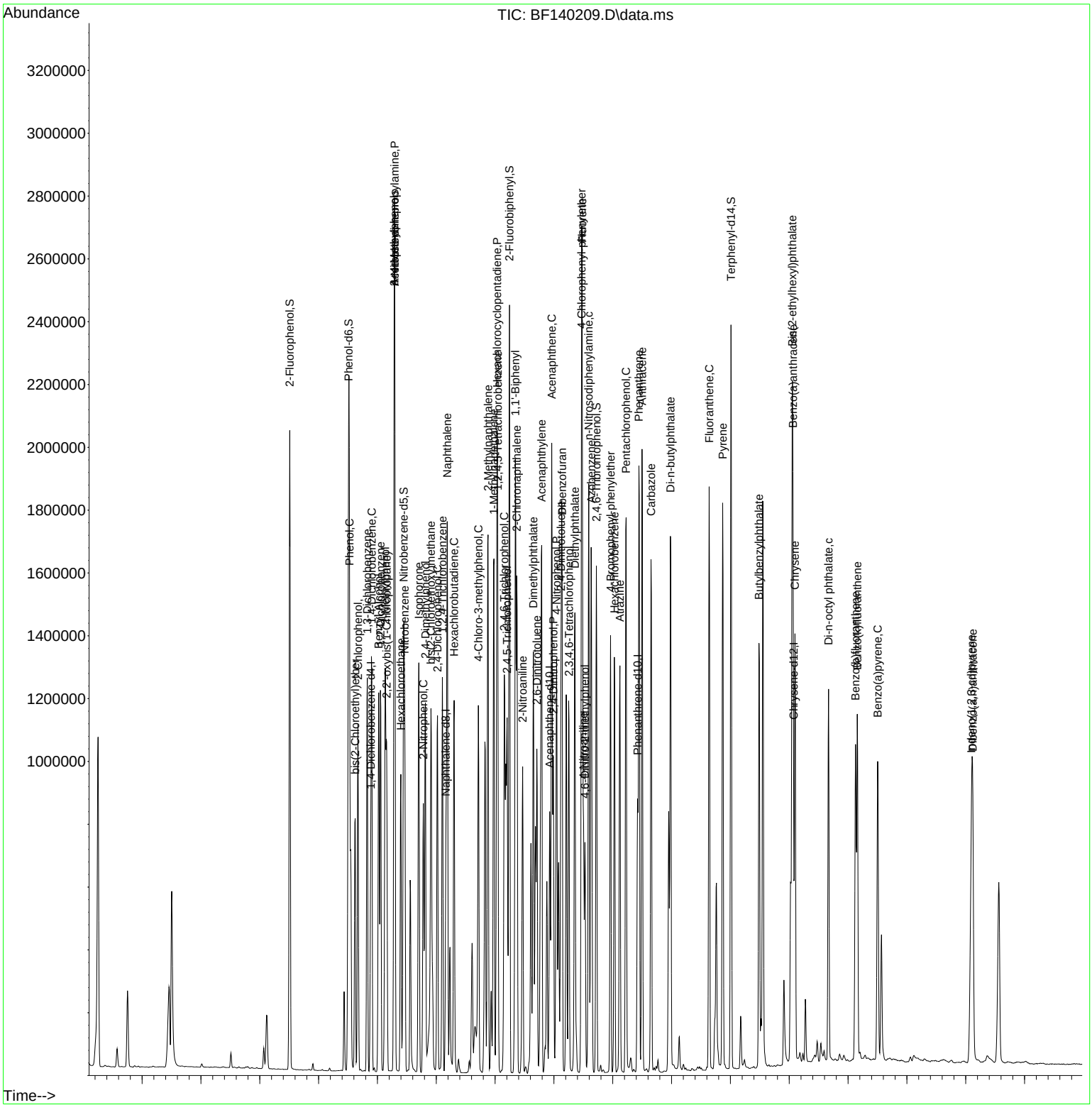
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140209.D
Acq On : 01 Nov 2024 14:27
Operator : RC/JU
Sample : P4663-08MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 01 14:53:42 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 :
RES-BUILDING-PAD-NO-2MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



Sample Results: **BF140210.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140210.D
Acq On : 01 Nov 2024 14:53
Operator : RC/JU
Sample : P4663-08MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 01 15:22:31 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 :
RES-BUILDING-PAD-NO-2MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	103190	20.000	ng		0.00
21) Naphthalene-d8	8.163	136	410116	20.000	ng		-0.01
39) Acenaphthene-d10	9.927	164	235405	20.000	ng		0.00
64) Phenanthrene-d10	11.422	188	418261	20.000	ng		0.00
76) Chrysene-d12	14.074	240	199568	20.000	ng		0.02
86) Perylene-d12	15.568	264	218473	20.000	ng		0.04
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	719985	109.228	ng		0.01
7) Phenol-d6	6.510	99	944685	110.656	ng		0.00
23) Nitrobenzene-d5	7.445	82	639376	86.406	ng		0.00
42) 2,4,6-Tribromophenol	10.722	330	263991	119.892	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1149538	80.705	ng		0.00
79) Terphenyl-d14	13.010	244	1161598	94.845	ng		0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.751	88	130135	42.344	ng		100
3) Pyridine	3.498	79	326485	42.858	ng		96
4) n-Nitrosodimethylamine	3.457	42	202155	49.392	ng	#	93
6) Aniline	6.545	93	340681	42.818	ng		97
8) 2-Chlorophenol	6.669	128	364924	54.155	ng		99
9) Benzaldehyde	6.434	77	62888	13.095	ng		98
10) Phenol	6.528	94	468692m	53.252	ng		
11) bis(2-Chloroethyl)ether	6.622	93	359602	52.861	ng		99
12) 1,3-Dichlorobenzene	6.828	146	389641	50.372	ng		100
13) 1,4-Dichlorobenzene	6.904	146	390095	50.478	ng		99
14) 1,2-Dichlorobenzene	7.051	146	376768	52.237	ng		100
15) Benzyl Alcohol	7.022	79	350314	55.940	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.157	45	640758	55.239	ng		99
17) 2-Methylphenol	7.134	107	309878	53.930	ng		97
18) Hexachloroethane	7.398	117	145267	52.712	ng		96
19) n-Nitroso-di-n-propyla...	7.292	70	272567	52.642	ng		98
20) 3+4-Methylphenols	7.286	107	378702	51.527	ng	#	78
22) Acetophenone	7.292	105	508774	50.649	ng		96
24) Nitrobenzene	7.463	77	422112	52.029	ng		98
25) Isophorone	7.704	82	759137	54.052	ng		99
26) 2-Nitrophenol	7.781	139	196295	64.135	ng		99
27) 2,4-Dimethylphenol	7.816	122	304549	59.675	ng		98
28) bis(2-Chloroethoxy)met...	7.910	93	446725	52.499	ng		99
29) 2,4-Dichlorophenol	8.022	162	310070	53.341	ng		99
30) 1,2,4-Trichlorobenzene	8.104	180	322741	50.176	ng		98
31) Naphthalene	8.186	128	1080096	51.065	ng		100
32) Benzoic acid	7.934	122	228012	51.225	ng		99
33) 4-Chloroaniline	8.233	127	162045	22.468	ng		100
34) Hexachlorobutadiene	8.304	225	207187	51.266	ng		100
35) Caprolactam	8.610	113	98252m	53.157	ng		
36) 4-Chloro-3-methylphenol	8.716	107	355329	55.204	ng		100
37) 2-Methylnaphthalene	8.880	142	689267	53.209	ng		99
38) 1-Methylnaphthalene	8.980	142	643338	50.620	ng		99
40) 1,2,4,5-Tetrachloroben...	9.045	216	331042	52.126	ng		99
41) Hexachlorocyclopentadiene	9.033	237	367664	166.379	ng		100
43) 2,4,6-Trichlorophenol	9.157	196	243379	54.128	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140210.D
Acq On : 01 Nov 2024 14:53
Operator : RC/JU
Sample : P4663-08MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 01 15:22:31 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 :
RES-BUILDING-PAD-NO-2MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	242814	52.342	ng		98
46) 1,1'-Biphenyl	9.345	154	838242	51.151	ng		99
47) 2-Chloronaphthalene	9.369	162	660337	50.030	ng		98
48) 2-Nitroaniline	9.469	65	248096	61.459	ng		97
49) Acenaphthylene	9.792	152	1045948	54.815	ng		99
50) Dimethylphthalate	9.651	163	801824	54.684	ng		99
51) 2,6-Dinitrotoluene	9.710	165	178745	56.301	ng		97
52) Acenaphthene	9.963	154	726773	58.878	ng		99
53) 3-Nitroaniline	9.880	138	119203	36.409	ng		99
54) 2,4-Dinitrophenol	9.992	184	178200	130.600	ng	#	1
55) Dibenzofuran	10.133	168	919611	51.925	ng		99
56) 4-Nitrophenol	10.045	139	285108	113.189	ng		93
57) 2,4-Dinitrotoluene	10.122	165	242431	62.095	ng		95
58) Fluorene	10.480	166	718120	53.237	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	198605	54.612	ng		99
60) Diethylphthalate	10.357	149	789983	54.872	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	359820	52.821	ng		98
62) 4-Nitroaniline	10.504	138	175527	56.765	ng		96
63) Azobenzene	10.633	77	941124	61.661	ng		96
65) 4,6-Dinitro-2-methylph...	10.527	198	125776	73.723	ng		98
66) n-Nitrosodiphenylamine	10.592	169	665221	53.139	ng		100
67) 4-Bromophenyl-phenylether	10.963	248	229535	53.270	ng		99
68) Hexachlorobenzene	11.027	284	246586	50.884	ng		96
69) Atrazine	11.122	200	213598	62.988	ng		100
70) Pentachlorophenol	11.227	266	302344	102.800	ng		99
71) Phenanthrene	11.445	178	1041649	52.723	ng		100
72) Anthracene	11.498	178	1056998	54.834	ng		100
73) Carbazole	11.651	167	921781	51.417	ng		99
74) Di-n-butylphthalate	11.980	149	1186133	57.267	ng		99
75) Fluoranthene	12.639	202	1032334	51.687	ng		99
77) Benzidine	12.763	184	336803	102.635	ng		99
78) Pyrene	12.868	202	1012412	57.955	ng		100
80) Butylbenzylphthalate	13.492	149	430637	82.227	ng		100
81) Benzo(a)anthracene	14.063	228	706811	54.407	ng		99
82) 3,3'-Dichlorobenzidine	14.021	252	177573	46.880	ng		100
83) Chrysene	14.098	228	662888	55.652	ng		100
84) Bis(2-ethylhexyl)phtha...	14.051	149	533105	90.728	ng		99
85) Di-n-octyl phthalate	14.668	149	758803	70.999	ng		100
87) Indeno(1,2,3-cd)pyrene	17.098	276	741236	52.739	ng		98
88) Benzo(b)fluoranthene	15.127	252	689931	51.842	ng		99
89) Benzo(k)fluoranthene	15.162	252	598776	52.170	ng		99
90) Benzo(a)pyrene	15.504	252	631809	57.696	ng		100
91) Dibenzo(a,h)anthracene	17.121	278	609721	52.002	ng		98
92) Benzo(g,h,i)perylene	17.562	276	533692	45.569	ng		98

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

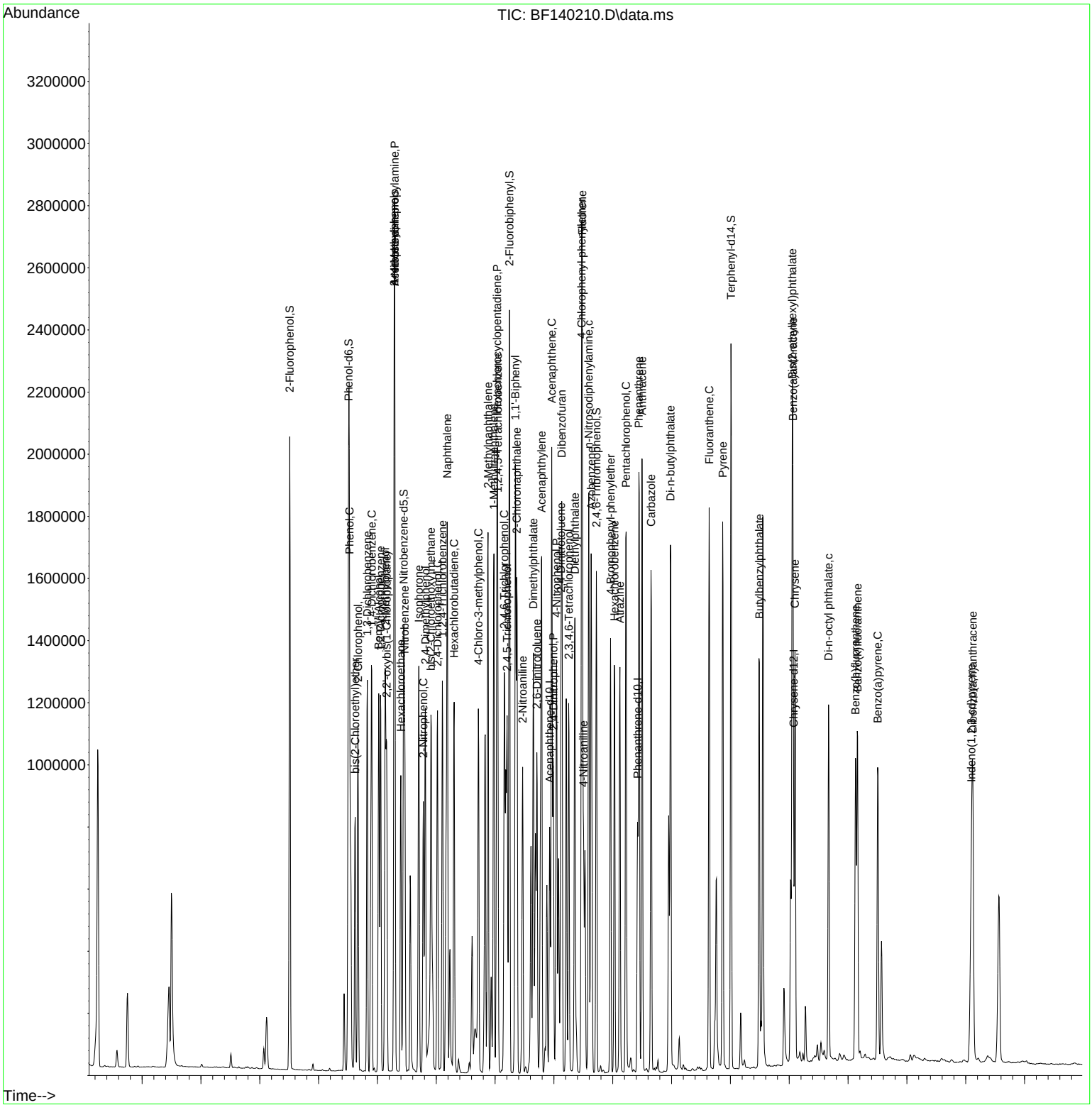
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140210.D
Acq On : 01 Nov 2024 14:53
Operator : RC/JU
Sample : P4663-08MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 01 15:22:31 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 :
RES-BUILDING-PAD-NO-2MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



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

Manual Integration Report

Sequence:	BE102824	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BE101390.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC005	BE101390.D	Caprolactam	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC005	BE101390.D	n-Nitrosodimethylamine	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC005	BE101390.D	Pyridine	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	Benzoic acid	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	Caprolactam	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	n-Nitrosodimethylamine	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	Pyridine	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC020	BE101392.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:56:57 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC020	BE101392.D	Pyridine	yogesh	10/29/2024 4:56:57 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICCC040	BE101393.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:57:01 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICCC040	BE101393.D	Pyridine	yogesh	10/29/2024 4:57:01 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BE102824	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC050	BE101394.D	Caprolactam	yogesh	10/29/2024 4:57:05 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC050	BE101394.D	Pyridine	yogesh	10/29/2024 4:57:05 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC060	BE101395.D	Benzo(k)fluoranthene	yogesh	10/29/2024 4:57:10 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC060	BE101395.D	Caprolactam	yogesh	10/29/2024 4:57:10 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC060	BE101395.D	Pyridine	yogesh	10/29/2024 4:57:10 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	Aniline	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	Caprolactam	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	Pyridine	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICV040	BE101397.D	Aniline	yogesh	10/29/2024 4:57:19 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICV040	BE101397.D	Pyridine	yogesh	10/29/2024 4:57:19 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BE110124	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4663-02	BE101450.D	Benzo(b)fluoranthene	yogesh	11/4/2024 1:47:10 AM	mohammad	11/4/2024 1:51:32 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	Be110424	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BE101453.D	bis(2-Chloroethyl)ether	Jagrut	11/5/2024 2:11:11 PM	mohammad	11/6/2024 3:14:23 AM	Peak Integrated by Software
SSTDCCC040	BE101453.D	Caprolactam	Jagrut	11/5/2024 2:11:11 PM	mohammad	11/6/2024 3:14:23 AM	Peak Integrated by Software
PB164593BS	BE101455.D	bis(2-Chloroethyl)ether	Jagrut	11/5/2024 2:11:14 PM	mohammad	11/6/2024 3:14:23 AM	Peak Integrated by Software
PB164593BS	BE101455.D	Caprolactam	Jagrut	11/5/2024 2:11:14 PM	mohammad	11/6/2024 3:14:23 AM	Peak Integrated by Software

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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:	BF110124	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140200.D	Phenol	yogesh	11/4/2024 1:46:27 AM	mohammad	11/4/2024 1:51:22 AM	Peak Integrated by Software
P4663-08MS	BF140209.D	Caprolactam	yogesh	11/4/2024 1:46:31 AM	mohammad	11/4/2024 1:51:22 AM	Peak Integrated by Software
P4663-08MS	BF140209.D	Phenol	yogesh	11/4/2024 1:46:31 AM	mohammad	11/4/2024 1:51:22 AM	Peak Integrated by Software
P4663-08MSD	BF140210.D	Caprolactam	yogesh	11/4/2024 1:46:32 AM	mohammad	11/4/2024 1:51:22 AM	Peak Integrated by Software
P4663-08MSD	BF140210.D	Phenol	yogesh	11/4/2024 1:46:32 AM	mohammad	11/4/2024 1:51:22 AM	Peak Integrated by Software

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

Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE102824

Review By	yogesh	Review On	10/29/2024 4:57:44 AM		
Supervise By	mohammad	Supervise On	10/30/2024 2:48:38 AM		
SubDirectory	BE102824	HP Acquire Method	BNA_E	HP Processing Method	be102824

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	BE101388.D	28 Oct 2024 10:51	RC/JU	Ok
2	SSTDICC2.5	BE101389.D	28 Oct 2024 11:44	RC/JU	Ok
3	SSTDICC005	BE101390.D	28 Oct 2024 12:23	RC/JU	Ok,M
4	SSTDICC010	BE101391.D	28 Oct 2024 12:59	RC/JU	Ok,M
5	SSTDICC020	BE101392.D	28 Oct 2024 13:35	RC/JU	Ok,M
6	SSTDICCC040	BE101393.D	28 Oct 2024 14:11	RC/JU	Ok,M
7	SSTDICC050	BE101394.D	28 Oct 2024 14:49	RC/JU	Ok,M
8	SSTDICC060	BE101395.D	28 Oct 2024 15:25	RC/JU	Ok,M
9	SSTDICC080	BE101396.D	28 Oct 2024 16:01	RC/JU	Ok,M
10	SSTDICV040	BE101397.D	28 Oct 2024 16:37	RC/JU	Ok,M
11	PB164444BL	BE101398.D	28 Oct 2024 17:16	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE110124

Review By	yogesh	Review On	11/4/2024 1:47:04 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:51:32 AM		
SubDirectory	BE110124	HP Acquire Method	BNA_E	HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BE101443.D	1 Nov 2024 9:05	RC/JU	Ok
2	SSTDCCC040	BE101444.D	1 Nov 2024 9:41	RC/JU	Ok
3	PB164558BL	BE101445.D	1 Nov 2024 10:17	RC/JU	Ok
4	P4616-01MS	BE101446.D	1 Nov 2024 10:58	RC/JU	Ok,M
5	P4616-01MSD	BE101447.D	1 Nov 2024 14:00	RC/JU	Ok,M
6	P4663-06	BE101448.D	1 Nov 2024 14:33	RC/JU	Ok
7	P4645-01	BE101449.D	1 Nov 2024 15:09	RC/JU	Ok,M
8	P4663-02	BE101450.D	1 Nov 2024 15:45	RC/JU	Ok,M
9	P4659-01	BE101451.D	1 Nov 2024 16:21	RC/JU	Ok,M

M : Manual Integration

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

Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE110424

Review By	Jagrut	Review On	11/5/2024 2:11:37 PM				
Supervise By	mohammad	Supervise On	11/6/2024 3:14:23 AM				
SubDirectory	BE110424	HP Acquire Method	BNA_E			HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BE101452.D	4 Nov 2024 12:13	RC/JU	Ok
2	SSTDCCC040	BE101453.D	4 Nov 2024 12:49	RC/JU	Ok,M
3	PB164593BL	BE101454.D	4 Nov 2024 13:25	RC/JU	Ok
4	PB164593BS	BE101455.D	4 Nov 2024 14:04	RC/JU	Ok,M
5	P4667-13	BE101456.D	4 Nov 2024 15:42	RC/JU	Ok
6	P4680-05	BE101457.D	4 Nov 2024 16:18	RC/JU	Ok
7	P4680-01	BE101458.D	4 Nov 2024 16:51	RC/JU	ReRun
8	P4675-04	BE101459.D	4 Nov 2024 17:27	RC/JU	Ok
9	P4675-04MS	BE101460.D	4 Nov 2024 18:02	RC/JU	Ok,M
10	P4675-04MSD	BE101461.D	4 Nov 2024 18:38	RC/JU	Ok,M
11	P4675-03	BE101462.D	4 Nov 2024 19:14	RC/JU	Ok
12	P4675-01	BE101463.D	4 Nov 2024 19:50	RC/JU	Ok
13	P4675-02	BE101464.D	4 Nov 2024 20:26	RC/JU	ReRun
14	P4675-05	BE101465.D	4 Nov 2024 21:01	RC/JU	ReRun
15	P4675-06	BE101466.D	4 Nov 2024 21:37	RC/JU	ReRun
16	P4667-05	BE101467.D	4 Nov 2024 22:13	RC/JU	ReRun
17	P4667-01	BE101468.D	4 Nov 2024 22:49	RC/JU	Ok
18	P4667-09	BE101469.D	4 Nov 2024 23:25	RC/JU	Ok
19	P4679-01	BE101470.D	5 Nov 2024 00:01	RC/JU	Ok,M

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # 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,
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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110124

Review By	yogesh	Review On	11/4/2024 1:46:46 AM				
Supervise By	mohammad	Supervise On	11/4/2024 1:51:22 AM				
SubDirectory	BF110124	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	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140199.D	01 Nov 2024 08:56	RC/JU	Ok
2	SSTDCCC040	BF140200.D	01 Nov 2024 09:22	RC/JU	Ok,M
3	PB164558BL	BF140201.D	01 Nov 2024 09:49	RC/JU	Ok
4	PB164558BS	BF140202.D	01 Nov 2024 10:15	RC/JU	Ok,M
5	PB164531BS	BF140203.D	01 Nov 2024 10:41	RC/JU	Ok,M
6	P4643-01	BF140204.D	01 Nov 2024 11:14	RC/JU	Ok
7	P4643-05	BF140205.D	01 Nov 2024 11:40	RC/JU	Ok
8	P4578-01RE	BF140206.D	01 Nov 2024 12:07	RC/JU	Confirms
9	P4578-02RE	BF140207.D	01 Nov 2024 12:33	RC/JU	Confirms
10	P4663-08	BF140208.D	01 Nov 2024 14:00	RC/JU	Ok
11	P4663-08MS	BF140209.D	01 Nov 2024 14:27	RC/JU	Ok,M
12	P4663-08MSD	BF140210.D	01 Nov 2024 14:53	RC/JU	Ok,M
13	P4659-01	BF140211.D	01 Nov 2024 15:20	RC/JU	ReRun
14	P4663-04	BF140212.D	01 Nov 2024 15:47	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE102824

Review By	yogesh	Review On	10/29/2024 4:57:44 AM		
Supervise By	mohammad	Supervise On	10/30/2024 2:48:38 AM		
SubDirectory	BE102824	HP Acquire Method	BNA_E	HP Processing Method	be102824

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	BE101388.D	28 Oct 2024 10:51		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BE101389.D	28 Oct 2024 11:44		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BE101390.D	28 Oct 2024 12:23	Compound #32,54,56,65 removed from 5ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BE101391.D	28 Oct 2024 12:59		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BE101392.D	28 Oct 2024 13:35	Compound #32,54 Kept on LR	RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BE101393.D	28 Oct 2024 14:11	The Calibration is Good For 8270 DOD Except com#77 and Not good for 625.1 Method	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BE101394.D	28 Oct 2024 14:49	Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BE101395.D	28 Oct 2024 15:25	Compound #69 removed from 60ppm	RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BE101396.D	28 Oct 2024 16:01	Compound #9,69,79 removed from 80ppm	RC/JU	Ok,M
10	SSTDICV040	ICVBE102824	BE101397.D	28 Oct 2024 16:37	ICV Fail for Com#77 for Both DOD and NON-DOD	RC/JU	Ok,M
11	PB164444BL	PB164444BL	BE101398.D	28 Oct 2024 17:16		RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE110124

Review By	yogesh	Review On	11/4/2024 1:47:04 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:51:32 AM		
SubDirectory	BE110124	HP Acquire Method	BNA_E	HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/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	BE101443.D	1 Nov 2024 9:05		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BE101444.D	1 Nov 2024 9:41		RC/JU	Ok
3	PB164558BL	PB164558BL	BE101445.D	1 Nov 2024 10:17		RC/JU	Ok
4	P4616-01MS	BP-F10MS	BE101446.D	1 Nov 2024 10:58		RC/JU	Ok,M
5	P4616-01MSD	BP-F10MSD	BE101447.D	1 Nov 2024 14:00		RC/JU	Ok,M
6	P4663-06	RES-BUILDING-PAD-N	BE101448.D	1 Nov 2024 14:33		RC/JU	Ok
7	P4645-01	Z-02-WC	BE101449.D	1 Nov 2024 15:09		RC/JU	Ok,M
8	P4663-02	TENNANT-PAD-2-3-ST	BE101450.D	1 Nov 2024 15:45		RC/JU	Ok,M
9	P4659-01	MH-2	BE101451.D	1 Nov 2024 16:21		RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE110424

Review By	Jagrut	Review On	11/5/2024 2:11:37 PM		
Supervise By	mohammad	Supervise On	11/6/2024 3:14:23 AM		
SubDirectory	BE110424	HP Acquire Method	BNA_E	HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/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	BE101452.D	4 Nov 2024 12:13		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BE101453.D	4 Nov 2024 12:49		RC/JU	Ok,M
3	PB164593BL	PB164593BL	BE101454.D	4 Nov 2024 13:25		RC/JU	Ok
4	PB164593BS	PB164593BS	BE101455.D	4 Nov 2024 14:04		RC/JU	Ok,M
5	P4667-13	BP-F-7	BE101456.D	4 Nov 2024 15:42		RC/JU	Ok
6	P4680-05	BP-F25	BE101457.D	4 Nov 2024 16:18		RC/JU	Ok
7	P4680-01	BP-F26	BE101458.D	4 Nov 2024 16:51	Internal Standard Fail	RC/JU	ReRun
8	P4675-04	COMP-4	BE101459.D	4 Nov 2024 17:27	Internal Standard Fail	RC/JU	Ok
9	P4675-04MS	COMP-4MS	BE101460.D	4 Nov 2024 18:02	Internal Standard Fail	RC/JU	Ok,M
10	P4675-04MSD	COMP-4MSD	BE101461.D	4 Nov 2024 18:38	Internal Standard Fail	RC/JU	Ok,M
11	P4675-03	COMP-3	BE101462.D	4 Nov 2024 19:14		RC/JU	Ok
12	P4675-01	COMP-1	BE101463.D	4 Nov 2024 19:50		RC/JU	Ok
13	P4675-02	COMP-2	BE101464.D	4 Nov 2024 20:26	Internal Standard Fail	RC/JU	ReRun
14	P4675-05	COMP-5	BE101465.D	4 Nov 2024 21:01	Internal Standard Fail	RC/JU	ReRun
15	P4675-06	COMP-6	BE101466.D	4 Nov 2024 21:37	Internal Standard Fail	RC/JU	ReRun
16	P4667-05	BP-F-5	BE101467.D	4 Nov 2024 22:13	Internal Standard Fail	RC/JU	ReRun
17	P4667-01	BP-F-6	BE101468.D	4 Nov 2024 22:49		RC/JU	Ok
18	P4667-09	BP-F-10	BE101469.D	4 Nov 2024 23:25		RC/JU	Ok

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE110424

Review By	Jagrut	Review On	11/5/2024 2:11:37 PM		
Supervise By	mohammad	Supervise On	11/6/2024 3:14:23 AM		
SubDirectory	BE110424	HP Acquire Method	BNA_E	HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4679-01	MH-1	BE101470.D	5 Nov 2024 00:01		RC/JU	Ok,M

M : Manual Integration

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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

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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

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110124

Review By	yogesh	Review On	11/4/2024 1:46:46 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:51:22 AM		
SubDirectory	BF110124	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	S12324,10ul/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	BF140199.D	01 Nov 2024 08:56		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140200.D	01 Nov 2024 09:22		RC/JU	Ok,M
3	PB164558BL	PB164558BL	BF140201.D	01 Nov 2024 09:49		RC/JU	Ok
4	PB164558BS	PB164558BS	BF140202.D	01 Nov 2024 10:15		RC/JU	Ok,M
5	PB164531BS	PB164531BS	BF140203.D	01 Nov 2024 10:41		RC/JU	Ok,M
6	P4643-01	BP-F9-ADDITIONAL	BF140204.D	01 Nov 2024 11:14		RC/JU	Ok
7	P4643-05	BP-F8	BF140205.D	01 Nov 2024 11:40		RC/JU	Ok
8	P4578-01RE	WB-305-SWRE	BF140206.D	01 Nov 2024 12:07	Surrogate Fail	RC/JU	Confirms
9	P4578-02RE	WB-305-SW-1RE	BF140207.D	01 Nov 2024 12:33	Surrogate Fail	RC/JU	Confirms
10	P4663-08	RES-BUILDING-PAD-N	BF140208.D	01 Nov 2024 14:00		RC/JU	Ok
11	P4663-08MS	RES-BUILDING-PAD-N	BF140209.D	01 Nov 2024 14:27		RC/JU	Ok,M
12	P4663-08MSD	RES-BUILDING-PAD-N	BF140210.D	01 Nov 2024 14:53		RC/JU	Ok,M
13	P4659-01	MH-2	BF140211.D	01 Nov 2024 15:20	Internal standard fail	RC/JU	ReRun
14	P4663-04	RES-BUILDING-PAD-N	BF140212.D	01 Nov 2024 15:47		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164593

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 11/01/2024

Extraction Start Time : 09:43

Extraction End Date : 11/01/2024

Extraction End Time : 13:55

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
MeCl2/Acetone/1:1	N/A	EP2538
Baked Na2SO4	N/A	EP2554
Sand	N/A	E2865
Methylene Chloride	N/A	E3822
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. P 4663 All samples Added in batch at 11:00.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/01/24	RP (Ext Lab)	Rel SVOC
14:00	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164593

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 10/01/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164593BL	SBLK593	SVOC-TCL BNA -20	30.01	N/A	ritesh	RUPESH	1			U6-1
PB164593BS	SLCS593	SVOC-TCL BNA -20	30.03	N/A	ritesh	RUPESH	1			2
P4645-01	Z-02-WC	SVOC-TCL BNA -20	50.03	N/A	ritesh	RUPESH	1	D		3
P4659-01	MH-2	SVOC-TCL BNA -20	50.07	N/A	ritesh	RUPESH	1	D		4
P4663-02	TENNANT-PAD-2-3-STOCKPILE	SVOCMS Group1	30.02	N/A	ritesh	RUPESH	1	D		5
P4663-04	RES-BUILDING-PAD-NO-11	SVOCMS Group1	30.06	N/A	ritesh	RUPESH	1	D		6
P4663-06	RES-BUILDING-PAD-NO-3	SVOCMS Group1	30.08	N/A	ritesh	RUPESH	1	D		U7-1
P4663-08	RES-BUILDING-PAD-NO-2	SVOCMS Group1	30.03	N/A	ritesh	RUPESH	1	D		2
P4663-08MS	RES-BUILDING-PAD-NO-2 MS	SVOCMS Group1	30.05	N/A	ritesh	RUPESH	1	D		3
P4663-08MSD	RES-BUILDING-PAD-NO-2 MSD	SVOCMS Group1	30.07	N/A	ritesh	RUPESH	1	D		4

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

11/01/24

16J93
9:43

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4659 **WorkList ID :** 185006 **Department :** Extraction **Date :** 11-01-2024 08:36:29

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4645-01	Z-02-WC	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K63	10/31/2024	8270E
P4659-01	MH-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K61	10/31/2024	8270E

Date/Time 11/01/24 9:40
Raw Sample Received by: RJ (Eol Labs)
Raw Sample Relinquished by: JD CSM)

Date/Time 11/01/24 9:55
Raw Sample Received by: JD CSM)
Raw Sample Relinquished by: RJ (Eol Labs)

1643913
11:00

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4663 **WorkList ID :** 185017 **Department :** Extraction **Date :** 11-01-2024 11:00:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E
P4663-04	RES-BUILDING-PAD-NO-11	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-04	RES-BUILDING-PAD-NO-11	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-04	RES-BUILDING-PAD-NO-11	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E
P4663-06	RES-BUILDING-PAD-NO-3	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-06	RES-BUILDING-PAD-NO-3	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-06	RES-BUILDING-PAD-NO-3	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E
P4663-08	RES-BUILDING-PAD-NO-2	Solid	PCB	Cool 4 deg C	UNIO02	K41	10/31/2024	8082A
P4663-08	RES-BUILDING-PAD-NO-2	Solid	Pesticide-TCL	Cool 4 deg C	UNIO02	K41	10/31/2024	8081B
P4663-08	RES-BUILDING-PAD-NO-2	Solid	SVOCMS Group1	Cool 4 deg C	UNIO02	K41	10/31/2024	8270E

Date/Time 11/01/24 11:00
Raw Sample Received by: RJ (Eurofins)
Raw Sample Relinquished by: RM

Date/Time 11/01/24 11:15
Raw Sample Received by: RM
Raw Sample Relinquished by: RJ (Eurofins)

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

LAB CHRONICLE

OrderID:	P4663	**OrderDate:**	10/31/2024 3:05:00 PM
Client:	Union Paving & Construction Company	**Project:**	Rt. 10 Whippany
Contact:	Gregory Butler	**Location:**	K41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4663-02	**TENNANT-PAD-2-3-STOCKPILE**	**SOIL**			**10/31/24**			**10/31/24**
			SVOCMS Group1	8270E		11/01/24	11/01/24	
P4663-04	**RES-BUILDING-PAD-NO-11**	**SOIL**			**10/31/24**			**10/31/24**
			SVOCMS Group1	8270E		11/01/24	11/01/24	
P4663-06	**RES-BUILDING-PAD-NO-3**	**SOIL**			**10/31/24**			**10/31/24**
			SVOCMS Group1	8270E		11/01/24	11/01/24	
P4663-08	**RES-BUILDING-PAD-NO-2**	**SOIL**			**10/31/24**			**10/31/24**
			SVOCMS Group1	8270E		11/01/24	11/01/24	