

Cover Page

Order ID : Q2032

Project ID : South River WM Replacement

Client : CDM Smith

Lab Sample Number

Q2032-01
Q2032-02
Q2032-03
Q2032-04
Q2032-05
Q2032-06
Q2032-07
Q2032-08
Q2032-09
Q2032-11
Q2032-12

Client Sample Number

TP-11
TP-29
TP-29-99
TP-24
Q2032-04MS
Q2032-04MSD
TP-37
TP-32
COMP-1
FB-05132025
TB

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 5/23/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2032

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: PRADIP PRAJAPATI

Date: 05/23/2025

LAB CHRONICLE

OrderID:	Q2032	OrderDate:	5/13/2025 4:01:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2032-01	TP-11	SOIL	SVOC-TCL BNA -20	8270E	05/13/25	05/16/25	05/19/25	05/13/25
Q2032-02	TP-29	SOIL	SVOC-TCL BNA -20	8270E	05/13/25	05/16/25	05/19/25	05/13/25
Q2032-03	TP-29-99	SOIL	SVOC-TCL BNA -20	8270E	05/13/25	05/16/25	05/19/25	05/13/25
Q2032-04	TP-24	SOIL	SVOC-TCL BNA -20	8270E	05/13/25	05/16/25	05/19/25	05/13/25
Q2032-07	TP-37	SOIL	SVOC-TCL BNA -20	8270E	05/13/25	05/16/25	05/19/25	05/13/25
Q2032-08	TP-32	SOIL	SVOC-TCL BNA -20	8270E	05/13/25	05/16/25	05/19/25	05/13/25
Q2032-11	FB-05132025	Water	SVOC-TCL BNA -20	8270E	05/13/25	05/19/25	05/20/25	05/13/25

Hit Summary Sheet SW-846

SDG No.: Q2032
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TP-11								
Q2032-01	TP-11	SOIL	Bis(2-ethylhexyl)phthalate	190.000	J	77.4	220	ug/Kg
Total Svoc :				190.00				
Q2032-01	TP-11	SOIL	Isopropyl Alcohol	*	160.000	J	0	ug/Kg
Q2032-01	TP-11	SOIL	n-Hexadecanoic acid	*	380.000	J	0	ug/Kg
Q2032-01	TP-11	SOIL	Octadecanoic acid	*	140.000	J	0	ug/Kg
Q2032-01	TP-11	SOIL	Trichloroacetic acid, hexadecyl es	*	130.000	J	0	ug/Kg
Q2032-01	TP-11	SOIL	unknown10.028	*	130.000	J	0	ug/Kg
Q2032-01	TP-11	SOIL	1-Phenoxypropan-2-ol	*	170.000	J	0	ug/Kg
Q2032-01	TP-11	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	240.000	AB	0	ug/Kg
Total Tics :				1,350.00				
Total Concentration:				1,540.00				
Client ID : TP-29								
Q2032-02	TP-29	SOIL	(S)-(+)-1,2-Propanediol	*	88.100	J	0	ug/Kg
Q2032-02	TP-29	SOIL	1-Heneicosanol	*	98.500	J	0	ug/Kg
Q2032-02	TP-29	SOIL	1-Phenoxypropan-2-ol	*	98.500	J	0	ug/Kg
Q2032-02	TP-29	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB	0	ug/Kg
Q2032-02	TP-29	SOIL	n-Hexadecanoic acid	*	130.000	J	0	ug/Kg
Q2032-02	TP-29	SOIL	unknown10.033	*	2,100.000	J	0	ug/Kg
Total Tics :				2,765.10				
Total Concentration:				2,765.10				
Client ID : TP-29-99								
Q2032-03	TP-29-99	SOIL	1-Propanol, 3-phenoxy-	*	120.000	J	0	ug/Kg
Q2032-03	TP-29-99	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB	0	ug/Kg
Q2032-03	TP-29-99	SOIL	Heptafluorobutyric acid, hexadecyl	*	120.000	J	0	ug/Kg
Q2032-03	TP-29-99	SOIL	n-Hexadecanoic acid	*	150.000	J	0	ug/Kg
Q2032-03	TP-29-99	SOIL	unknown10.034	*	1,200.000	J	0	ug/Kg
Q2032-03	TP-29-99	SOIL	unknown3.422	*	150.000	J	0	ug/Kg
Total Tics :				1,990.00				
Total Concentration:				1,990.00				
Client ID : TP-24								
Q2032-04	TP-24	SOIL	1-Phenoxypropan-2-ol	*	180.000	J	0	ug/Kg
Q2032-04	TP-24	SOIL	1-Tetracosene	*	220.000	J	0	ug/Kg
Q2032-04	TP-24	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	310.000	AB	0	ug/Kg
Q2032-04	TP-24	SOIL	Benzophenone	*	96.400	J	0	ug/Kg
Q2032-04	TP-24	SOIL	n-Hexadecanoic acid	*	1,200.000	J	0	ug/Kg
Q2032-04	TP-24	SOIL	Octadecanoic acid	*	1,400.000	J	0	ug/Kg

Hit Summary Sheet SW-846

SDG No.: Q2032
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2032-04	TP-24	SOIL	Pentadecanoic acid	*	390.000	J 0	0	ug/Kg
Q2032-04	TP-24	SOIL	Propylene Glycol	*	130.000	J 0	0	ug/Kg
Q2032-04	TP-24	SOIL	unknown14.498	*	680.000	J 0	0	ug/Kg
Q2032-04	TP-24	SOIL	unknown14.522	*	1,000.000	J 0	0	ug/Kg
Total Tics :				5,606.40				
Total Concentration:				5,606.40				
Client ID : TP-37								
Q2032-07	TP-37	SOIL	1-Phenoxypropan-2-ol	*	130.000	J 0	0	ug/Kg
Q2032-07	TP-37	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB 0	0	ug/Kg
Q2032-07	TP-37	SOIL	n-Hexadecanoic acid	*	240.000	J 0	0	ug/Kg
Q2032-07	TP-37	SOIL	Trichloroacetic acid, hexadecyl es	*	230.000	J 0	0	ug/Kg
Q2032-07	TP-37	SOIL	unknown10.028	*	140.000	J 0	0	ug/Kg
Q2032-07	TP-37	SOIL	unknown3.422	*	170.000	J 0	0	ug/Kg
Total Tics :				1,160.00				
Total Concentration:				1,160.00				
Client ID : TP-32								
Q2032-08	TP-32	SOIL	1-Propanol, 3-phenoxy-	*	95.100	J 0	0	ug/Kg
Q2032-08	TP-32	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	250.000	AB 0	0	ug/Kg
Q2032-08	TP-32	SOIL	Heptafluorobutyric acid, hexadecyl	*	160.000	J 0	0	ug/Kg
Q2032-08	TP-32	SOIL	n-Hexadecanoic acid	*	380.000	J 0	0	ug/Kg
Q2032-08	TP-32	SOIL	Octadecanoic acid	*	110.000	J 0	0	ug/Kg
Q2032-08	TP-32	SOIL	unknown10.034	*	1,700.000	J 0	0	ug/Kg
Q2032-08	TP-32	SOIL	unknown3.422	*	100.000	J 0	0	ug/Kg
Total Tics :				2,795.10				
Total Concentration:				2,795.10				
Client ID : FB-05132025								
Q2032-11	FB-05132025	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	3.700	AB 0	0	ug/L
Q2032-11	FB-05132025	WATER	9-Octadecenoic acid, (E)-	*	2.800	J 0	0	ug/L
Total Tics :				6.50				
Total Concentration:				6.50				



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB168041BL	PB168041BL	2-Fluorophenol	150	137	92		18	112
		Phenol-d6	150	126	84		15	107
		Nitrobenzene-d5	100	78.6	79		18	107
		2-Fluorobiphenyl	100	81.1	81		20	109
		2,4,6-Tribromophenol	150	131	87		10	116
		Terphenyl-d14	100	83.8	84		10	105
PB168041BS	PB168041BS	2-Fluorophenol	150	130	86		18	112
		Phenol-d6	150	121	81		15	107
		Nitrobenzene-d5	100	74.1	74		18	107
		2-Fluorobiphenyl	100	82.8	83		20	109
		2,4,6-Tribromophenol	150	121	81		10	116
		Terphenyl-d14	100	82.5	82		10	105
Q2032-01	TP-11	2-Fluorophenol	150	73.1	49		18	112
		Phenol-d6	150	74.1	49		15	107
		Nitrobenzene-d5	100	50.9	51		18	107
		2-Fluorobiphenyl	100	47.7	48		20	109
		2,4,6-Tribromophenol	150	90.1	60		10	116
		Terphenyl-d14	100	50.0	50		10	105
Q2032-02	TP-29	2-Fluorophenol	150	72.0	48		18	112
		Phenol-d6	150	72.9	49		15	107
		Nitrobenzene-d5	100	47.6	48		18	107
		2-Fluorobiphenyl	100	41.5	42		20	109
		2,4,6-Tribromophenol	150	82.5	55		10	116
		Terphenyl-d14	100	43.7	44		10	105
Q2032-03	TP-29-99	2-Fluorophenol	150	78.5	52		18	112
		Phenol-d6	150	77.9	52		15	107
		Nitrobenzene-d5	100	49.8	50		18	107
		2-Fluorobiphenyl	100	49.1	49		20	109
		2,4,6-Tribromophenol	150	88.2	59		10	116
		Terphenyl-d14	100	45.3	45		10	105
Q2032-04	TP-24	2-Fluorophenol	150	114	76		18	112
		Phenol-d6	150	107	71		15	107
		Nitrobenzene-d5	100	65.4	65		18	107
		2-Fluorobiphenyl	100	67.0	67		20	109
		2,4,6-Tribromophenol	150	113	75		10	116
		Terphenyl-d14	100	60.4	60		10	105
Q2032-05MS	TP-24MS	2-Fluorophenol	150	115	77		18	112
		Phenol-d6	150	113	76		15	107
		Nitrobenzene-d5	100	64.0	64		18	107
		2-Fluorobiphenyl	100	63.8	64		20	109
		2,4,6-Tribromophenol	150	118	79		10	116
		Terphenyl-d14	100	65.3	65		10	105
Q2032-06MSD	TP-24MSD	2-Fluorophenol	150	105	70		18	112
		Phenol-d6	150	101	67		15	107
		Nitrobenzene-d5	100	60.4	60		18	107
		2-Fluorobiphenyl	100	62.3	62		20	109
		2,4,6-Tribromophenol	150	92.9	62		10	116
		Terphenyl-d14	100	59.3	59		10	105
Q2032-07	TP-37	2-Fluorophenol	150	80.3	54		18	112
		Phenol-d6	150	78.1	52		15	107
		Nitrobenzene-d5	100	61.7	62		18	107

Surrogate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2032-07	TP-37	2-Fluorobiphenyl	100	51.5	51		20	109
		2,4,6-Tribromophenol	150	96.3	64		10	116
		Terphenyl-d14	100	43.5	44		10	105
Q2032-08	TP-32	2-Fluorophenol	150	81.0	54		18	112
		Phenol-d6	150	74.4	50		15	107
		Nitrobenzene-d5	100	53.2	53		18	107
		2-Fluorobiphenyl	100	47.8	48		20	109
		2,4,6-Tribromophenol	150	89.8	60		10	116
		Terphenyl-d14	100	47.0	47		10	105

Surrogate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB168048BL	PB168048BL	2-Fluorophenol	150	133	88		10	139
		Phenol-d6	150	122	81		10	134
		Nitrobenzene-d5	100	76.1	76		49	133
		2-Fluorobiphenyl	100	76.8	77		52	132
		2,4,6-Tribromophenol	150	145	97		44	137
		Terphenyl-d14	100	90.1	90		48	125
PB168048BS	PB168048BS	2-Fluorophenol	150	122	82		10	139
		Phenol-d6	150	117	78		10	134
		Nitrobenzene-d5	100	69.5	69		49	133
		2-Fluorobiphenyl	100	74.5	74		52	132
		2,4,6-Tribromophenol	150	139	93		44	137
		Terphenyl-d14	100	76.9	77		48	125
PB168048BSD	PB168048BSD	2-Fluorophenol	150	128	85		10	139
		Phenol-d6	150	120	80		10	134
		Nitrobenzene-d5	100	75.8	76		49	133
		2-Fluorobiphenyl	100	78.1	78		52	132
		2,4,6-Tribromophenol	150	146	97		44	137
		Terphenyl-d14	100	79.4	79		48	125
Q2032-11	FB-05132025	2-Fluorophenol	150	56.8	38		10	139
		Phenol-d6	150	31.4	21		10	134
		Nitrobenzene-d5	100	77.8	78		49	133
		2-Fluorobiphenyl	100	78.6	79		52	132
		2,4,6-Tribromophenol	150	152	101		44	137
		Terphenyl-d14	100	86.0	86		48	125

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q2032-05MS	Client Sample ID:	TP-24MS					DataFile:	BP024691.D		
Benzaldehyde	2200	0	1600	ug/Kg	73				10	86	
Phenol	2200	0	2100	ug/Kg	95				67	126	
bis(2-Chloroethyl)ether	2200	0	1800	ug/Kg	82				54	125	
2-Chlorophenol	2200	0	2100	ug/Kg	95				79	107	
2-Methylphenol	2200	0	2000	ug/Kg	91				66	122	
2,2-oxybis(1-Chloropropane)	2200	0	1800	ug/Kg	82				65	110	
Acetophenone	2200	0	1900	ug/Kg	86				75	111	
3+4-Methylphenols	2200	0	2000	ug/Kg	91				66	104	
N-Nitroso-di-n-propylamine	2200	0	1800	ug/Kg	82				59	119	
Hexachloroethane	2200	0	1800	ug/Kg	82				65	117	
Nitrobenzene	2200	0	1900	ug/Kg	86				70	119	
Isophorone	2200	0	1900	ug/Kg	86				76	122	
2-Nitrophenol	2200	0	2200	ug/Kg	100				54	145	
2,4-Dimethylphenol	2200	0	2100	ug/Kg	95				44	135	
bis(2-Chloroethoxy)methane	2200	0	1900	ug/Kg	86				68	112	
2,4-Dichlorophenol	2200	0	2200	ug/Kg	100				72	118	
Naphthalene	2200	0	2000	ug/Kg	91				72	110	
4-Chloroaniline	2200	0	1100	ug/Kg	50				10	91	
Hexachlorobutadiene	2200	0	2000	ug/Kg	91				66	114	
Caprolactam	2200	0	2100	ug/Kg	95				51	134	
4-Chloro-3-methylphenol	2200	0	2100	ug/Kg	95				57	132	
2-Methylnaphthalene	2200	0	2000	ug/Kg	91				59	123	
Hexachlorocyclopentadiene	4500	0	4100	ug/Kg	91				10	175	
2,4,6-Trichlorophenol	2200	0	2200	ug/Kg	100				72	117	
2,4,5-Trichlorophenol	2200	0	2200	ug/Kg	100				72	117	
1,1-Biphenyl	2200	0	2000	ug/Kg	91				75	113	
2-Chloronaphthalene	2200	0	2000	ug/Kg	91				67	118	
2-Nitroaniline	2200	0	2100	ug/Kg	95				69	127	
Dimethylphthalate	2200	0	2000	ug/Kg	91				70	113	
Acenaphthylene	2200	0	2000	ug/Kg	91				79	118	
2,6-Dinitrotoluene	2200	0	2000	ug/Kg	91				70	125	
3-Nitroaniline	2200	0	1400	ug/Kg	64				30	99	
Acenaphthene	2200	0	2000	ug/Kg	91				70	121	
2,4-Dinitrophenol	4500	0	4100	ug/Kg	91				10	155	
4-Nitrophenol	4500	0	3900	ug/Kg	87				45	133	
Dibenzofuran	2200	0	2000	ug/Kg	91				72	110	
2,4-Dinitrotoluene	2200	0	2100	ug/Kg	95				55	128	
Diethylphthalate	2200	0	2000	ug/Kg	91				70	112	
4-Chlorophenyl-phenylether	2200	0	2000	ug/Kg	91				71	108	
Fluorene	2200	0	2000	ug/Kg	91				68	116	
4-Nitroaniline	2200	0	2000	ug/Kg	91				55	120	
4,6-Dinitro-2-methylphenol	2200	0	2200	ug/Kg	100				10	160	
N-Nitrosodiphenylamine	2200	0	2000	ug/Kg	91				73	118	
4-Bromophenyl-phenylether	2200	0	2100	ug/Kg	95				65	121	
Hexachlorobenzene	2200	0	2000	ug/Kg	91				67	118	
Atrazine	2200	0	2100	ug/Kg	95				79	127	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	4500	0	4700	ug/Kg	104				47	128	
Phenanthrene	2200	0	2000	ug/Kg	91				52	128	
Anthracene	2200	0	2000	ug/Kg	91				62	124	
Carbazole	2200	0	2100	ug/Kg	95				59	119	
Di-n-butylphthalate	2200	0	2200	ug/Kg	100				69	118	
Fluoranthene	2200	0	2100	ug/Kg	95				44	125	
Pyrene	2200	0	2100	ug/Kg	95				26	142	
Butylbenzylphthalate	2200	0	2300	ug/Kg	105				64	126	
3,3-Dichlorobenzidine	2200	0	1600	ug/Kg	73				33	116	
Benzo(a)anthracene	2200	0	2100	ug/Kg	95				71	114	
Chrysene	2200	0	2000	ug/Kg	91				57	121	
bis(2-Ethylhexyl)phthalate	2200	0	2300	ug/Kg	105				42	169	
Di-n-octyl phthalate	2200	0	2400	ug/Kg	109				23	175	
Benzo(b)fluoranthene	2200	0	2100	ug/Kg	95				67	121	
Benzo(k)fluoranthene	2200	0	2100	ug/Kg	95				57	134	
Benzo(a)pyrene	2200	0	2100	ug/Kg	95				70	142	
Indeno(1,2,3-cd)pyrene	2200	0	1900	ug/Kg	86				40	129	
Dibenz(a,h)anthracene	2200	0	2000	ug/Kg	91				43	123	
Benzo(g,h,i)perylene	2200	0	1900	ug/Kg	86				24	125	
1,2,4,5-Tetrachlorobenzene	2200	0	2100	ug/Kg	95				69	124	
1,4-Dioxane	2200	0	1500	ug/Kg	68				46	112	
2,3,4,6-Tetrachlorophenol	2200	0	2100	ug/Kg	95				69	112	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q2032-06MSD	Client Sample ID:	TP-24MSD					DataFile:	BP024692.D		
Benzaldehyde	2200	0	1500	ug/Kg	68		7		10	86	20
Phenol	2200	0	1800	ug/Kg	82		15		67	126	20
bis(2-Chloroethyl)ether	2200	0	1700	ug/Kg	77		6		54	125	20
2-Chlorophenol	2200	0	1900	ug/Kg	86		10		79	107	20
2-Methylphenol	2200	0	1800	ug/Kg	82		10		66	122	20
2,2-oxybis(1-Chloropropane)	2200	0	1600	ug/Kg	73		12		65	110	20
Acetophenone	2200	0	1800	ug/Kg	82		5		75	111	20
3+4-Methylphenols	2200	0	1700	ug/Kg	77		17		66	104	20
N-Nitroso-di-n-propylamine	2200	0	1500	ug/Kg	68		19		59	119	20
Hexachloroethane	2200	0	1700	ug/Kg	77		6		65	117	20
Nitrobenzene	2200	0	1800	ug/Kg	82		5		70	119	20
Isophorone	2200	0	1700	ug/Kg	77		11		76	122	20
2-Nitrophenol	2200	0	2000	ug/Kg	91		9		54	145	20
2,4-Dimethylphenol	2200	0	1900	ug/Kg	86		10		44	135	20
bis(2-Chloroethoxy)methane	2200	0	1700	ug/Kg	77		11		68	112	20
2,4-Dichlorophenol	2200	0	1900	ug/Kg	86		15		72	118	20
Naphthalene	2200	0	1800	ug/Kg	82		10		72	110	20
4-Chloroaniline	2200	0	980	ug/Kg	45		11		10	91	20
Hexachlorobutadiene	2200	0	1900	ug/Kg	86		6		66	114	20
Caprolactam	2200	0	1500	ug/Kg	68		33	*	51	134	20
4-Chloro-3-methylphenol	2200	0	1700	ug/Kg	77		21	*	57	132	20
2-Methylnaphthalene	2200	0	1700	ug/Kg	77		17		59	123	20
Hexachlorocyclopentadiene	4500	0	4300	ug/Kg	96		5		10	175	20
2,4,6-Trichlorophenol	2200	0	2000	ug/Kg	91		9		72	117	20
2,4,5-Trichlorophenol	2200	0	2000	ug/Kg	91		9		72	117	20
1,1-Biphenyl	2200	0	2000	ug/Kg	91		0		75	113	20
2-Chloronaphthalene	2200	0	2000	ug/Kg	91		0		67	118	20
2-Nitroaniline	2200	0	1800	ug/Kg	82		15		69	127	20
Dimethylphthalate	2200	0	1700	ug/Kg	77		17		70	113	20
Acenaphthylene	2200	0	1900	ug/Kg	86		6		79	118	20
2,6-Dinitrotoluene	2200	0	1800	ug/Kg	82		10		70	125	20
3-Nitroaniline	2200	0	1100	ug/Kg	50		25	*	30	99	20
Acenaphthene	2200	0	1800	ug/Kg	82		10		70	121	20
2,4-Dinitrophenol	4500	0	3200	ug/Kg	71		25	*	10	155	20
4-Nitrophenol	4500	0	2700	ug/Kg	60		37	*	45	133	20
Dibenzofuran	2200	0	1800	ug/Kg	82		10		72	110	20
2,4-Dinitrotoluene	2200	0	1700	ug/Kg	77		21	*	55	128	20
Diethylphthalate	2200	0	1600	ug/Kg	73		22	*	70	112	20
4-Chlorophenyl-phenylether	2200	0	1800	ug/Kg	82		10		71	108	20
Fluorene	2200	0	1700	ug/Kg	77		17		68	116	20
4-Nitroaniline	2200	0	1400	ug/Kg	64		35	*	55	120	20
4,6-Dinitro-2-methylphenol	2200	0	2000	ug/Kg	91		9		10	160	20
N-Nitrosodiphenylamine	2200	0	2100	ug/Kg	95		4		73	118	20
4-Bromophenyl-phenylether	2200	0	2100	ug/Kg	95		0		65	121	20
Hexachlorobenzene	2200	0	2000	ug/Kg	91		0		67	118	20
Atrazine	2200	0	1900	ug/Kg	86		10		79	127	20

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	4500	0	4000	ug/Kg	89		16		47	128	20
Phenanthrene	2200	0	1900	ug/Kg	86		6		52	128	20
Anthracene	2200	0	1900	ug/Kg	86		6		62	124	20
Carbazole	2200	0	1800	ug/Kg	82		15		59	119	20
Di-n-butylphthalate	2200	0	1800	ug/Kg	82		20		69	118	20
Fluoranthene	2200	0	1700	ug/Kg	77		21	*	44	125	20
Pyrene	2200	0	1900	ug/Kg	86		10		26	142	20
Butylbenzylphthalate	2200	0	2000	ug/Kg	91		14		64	126	20
3,3-Dichlorobenzidine	2200	0	1700	ug/Kg	77		5		33	116	20
Benzo(a)anthracene	2200	0	1900	ug/Kg	86		10		71	114	20
Chrysene	2200	0	1900	ug/Kg	86		6		57	121	20
bis(2-Ethylhexyl)phthalate	2200	0	2000	ug/Kg	91		14		42	169	20
Di-n-octyl phthalate	2200	0	2100	ug/Kg	95		14		23	175	20
Benzo(b)fluoranthene	2200	0	1900	ug/Kg	86		10		67	121	20
Benzo(k)fluoranthene	2200	0	1900	ug/Kg	86		10		57	134	20
Benzo(a)pyrene	2200	0	1900	ug/Kg	86		10		70	142	20
Indeno(1,2,3-cd)pyrene	2200	0	2100	ug/Kg	95		10		40	129	20
Dibenz(a,h)anthracene	2200	0	2100	ug/Kg	95		4		43	123	20
Benzo(g,h,i)perylene	2200	0	2100	ug/Kg	95		10		24	125	20
1,2,4,5-Tetrachlorobenzene	2200	0	2000	ug/Kg	91		4		69	124	20
1,4-Dioxane	2200	0	1500	ug/Kg	68		0		46	112	20
2,3,4,6-Tetrachlorophenol	2200	0	1700	ug/Kg	77		21	*	69	112	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: 8270E

DataFile: BP024689.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB168041BS	Benzaldehyde	1700	1100	ug/Kg	65				10	133	
	Phenol	1700	1400	ug/Kg	82				62	112	
	bis(2-Chloroethyl)ether	1700	1300	ug/Kg	76				60	101	
	2-Chlorophenol	1700	1400	ug/Kg	82				65	112	
	2-Methylphenol	1700	1400	ug/Kg	82				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1200	ug/Kg	71				51	100	
	Acetophenone	1700	1400	ug/Kg	82				66	98	
	3+4-Methylphenols	1700	1300	ug/Kg	76				58	111	
	N-Nitroso-di-n-propylamine	1700	1200	ug/Kg	71				63	95	
	Hexachloroethane	1700	1300	ug/Kg	76				72	108	
	Nitrobenzene	1700	1400	ug/Kg	82				57	101	
	Isophorone	1700	1300	ug/Kg	76				59	99	
	2-Nitrophenol	1700	1500	ug/Kg	88				61	111	
	2,4-Dimethylphenol	1700	1400	ug/Kg	82				46	141	
	bis(2-Chloroethoxy)methane	1700	1300	ug/Kg	76				66	97	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				62	107	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	560	ug/Kg	33				16	100	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				53	98	
	Caprolactam	1700	1100	ug/Kg	65		*		67	110	
	4-Chloro-3-methylphenol	1700	1300	ug/Kg	76				58	112	
	2-Methylnaphthalene	1700	1300	ug/Kg	76				60	104	
	Hexachlorocyclopentadiene	3300	3500	ug/Kg	106				45	165	
	2,4,6-Trichlorophenol	1700	1600	ug/Kg	94				59	102	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				61	98	
	1,1-Biphenyl	1700	1500	ug/Kg	88				57	103	
	2-Chloronaphthalene	1700	1500	ug/Kg	88				58	99	
	2-Nitroaniline	1700	1400	ug/Kg	82				66	101	
	Dimethylphthalate	1700	1300	ug/Kg	76				61	99	
	Acenaphthylene	1700	1400	ug/Kg	82				63	101	
	2,6-Dinitrotoluene	1700	1400	ug/Kg	82				61	104	
	3-Nitroaniline	1700	700	ug/Kg	41				28	100	
	Acenaphthene	1700	1400	ug/Kg	82				57	104	
	2,4-Dinitrophenol	3300	2500	ug/Kg	76				37	128	
	4-Nitrophenol	3300	2100	ug/Kg	64				48	119	
	Dibenzofuran	1700	1400	ug/Kg	82				63	99	
	2,4-Dinitrotoluene	1700	1300	ug/Kg	76				60	106	
	Diethylphthalate	1700	1300	ug/Kg	76				60	101	
	4-Chlorophenyl-phenylether	1700	1400	ug/Kg	82				58	98	
	Fluorene	1700	1400	ug/Kg	82				61	101	
	4-Nitroaniline	1700	1200	ug/Kg	71				64	103	
	4,6-Dinitro-2-methylphenol	1700	1500	ug/Kg	88				76	113	
	N-Nitrosodiphenylamine	1700	1600	ug/Kg	94				71	99	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				66	102	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: 8270E

DataFile: BP024689.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Limits		RPD
							Qual	Qual	Low	High	
PB168041BS	Hexachlorobenzene	1700	1600	ug/Kg	94				64	98	
	Atrazine	1700	1500	ug/Kg	88				47	152	
	Pentachlorophenol	3300	3200	ug/Kg	97				67	105	
	Phenanthrene	1700	1500	ug/Kg	88				59	103	
	Anthracene	1700	1500	ug/Kg	88				61	105	
	Carbazole	1700	1400	ug/Kg	82				61	99	
	Di-n-butylphthalate	1700	1400	ug/Kg	82				58	104	
	Fluoranthene	1700	1400	ug/Kg	82				57	107	
	Pyrene	1700	1600	ug/Kg	94				59	103	
	Butylbenzylphthalate	1700	1500	ug/Kg	88				55	103	
	3,3-Dichlorobenzidine	1700	1200	ug/Kg	71				42	91	
	Benzo(a)anthracene	1700	1500	ug/Kg	88				60	102	
	Chrysene	1700	1500	ug/Kg	88				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1500	ug/Kg	88				54	135	
	Di-n-octyl phthalate	1700	1700	ug/Kg	100				52	137	
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				62	109	
	Benzo(k)fluoranthene	1700	1400	ug/Kg	82				62	109	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1700	ug/Kg	100				63	101	
	Dibenz(a,h)anthracene	1700	1700	ug/Kg	100				61	112	
	Benzo(g,h,i)perylene	1700	1700	ug/Kg	100				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1600	ug/Kg	94				53	101	
	1,4-Dioxane	1700	1100	ug/Kg	65				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1400	ug/Kg	82				59	108	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: 8270E

DataFile: BP024707.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB168048BS	Benzaldehyde	50	30.6	ug/L	61				10	162	
	Phenol	50	40.0	ug/L	80				66	118	
	bis(2-Chloroethyl)ether	50	35.7	ug/L	71				62	103	
	2-Chlorophenol	50	41.7	ug/L	83				70	117	
	2-Methylphenol	50	39.9	ug/L	80				69	109	
	2,2-oxybis(1-Chloropropane)	50	34.9	ug/L	70				65	100	
	Acetophenone	50	38.9	ug/L	78				60	104	
	3+4-Methylphenols	50	38.8	ug/L	78				67	106	
	N-Nitroso-di-n-propylamine	50	33.4	ug/L	67				57	107	
	Hexachloroethane	50	38.0	ug/L	76				76	118	
	Nitrobenzene	50	37.8	ug/L	76				58	106	
	Isophorone	50	35.9	ug/L	72				61	102	
	2-Nitrophenol	50	43.7	ug/L	87				70	115	
	2,4-Dimethylphenol	50	42.9	ug/L	86				42	142	
	bis(2-Chloroethoxy)methane	50	37.2	ug/L	74				58	109	
	2,4-Dichlorophenol	50	43.9	ug/L	88				66	115	
	Naphthalene	50	39.4	ug/L	79				64	107	
	4-Chloroaniline	50	19.5	ug/L	39				10	85	
	Hexachlorobutadiene	50	42.4	ug/L	85				69	101	
	Caprolactam	50	39.7	ug/L	79				58	128	
	4-Chloro-3-methylphenol	50	41.9	ug/L	84				65	114	
	2-Methylnaphthalene	50	39.5	ug/L	79				64	107	
	Hexachlorocyclopentadiene	100	89.2	ug/L	89				36	160	
	2,4,6-Trichlorophenol	50	46.4	ug/L	93				61	110	
	2,4,5-Trichlorophenol	50	45.0	ug/L	90				70	106	
	1,1-Biphenyl	50	42.8	ug/L	86				72	98	
	2-Chloronaphthalene	50	43.0	ug/L	86				59	106	
	2-Nitroaniline	50	43.3	ug/L	87				73	114	
	Dimethylphthalate	50	42.4	ug/L	85				64	103	
	Acenaphthylene	50	41.4	ug/L	83				79	103	
	2,6-Dinitrotoluene	50	43.0	ug/L	86				64	110	
	3-Nitroaniline	50	26.3	ug/L	53				28	100	
	Acenaphthene	50	41.3	ug/L	83				59	113	
	2,4-Dinitrophenol	100	81.6	ug/L	82				36	166	
	4-Nitrophenol	100	75.5	ug/L	76				45	147	
	Dibenzofuran	50	42.2	ug/L	84				65	106	
	2,4-Dinitrotoluene	50	44.7	ug/L	89				60	115	
	Diethylphthalate	50	41.6	ug/L	83				63	105	
	4-Chlorophenyl-phenylether	50	42.5	ug/L	85				61	104	
	Fluorene	50	42.4	ug/L	85				64	107	
	4-Nitroaniline	50	40.0	ug/L	80				55	125	
	4,6-Dinitro-2-methylphenol	50	44.3	ug/L	89				62	132	
	N-Nitrosodiphenylamine	50	42.6	ug/L	85				61	109	
	4-Bromophenyl-phenylether	50	44.0	ug/L	88				73	103	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: 8270E

DataFile: BP024707.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB168048BS	Hexachlorobenzene	50	44.4	ug/L	89				73	106	
	Atrazine	50	44.4	ug/L	89				76	120	
	Pentachlorophenol	100	98.8	ug/L	99				47	114	
	Phenanthrene	50	40.6	ug/L	81				62	109	
	Anthracene	50	42.4	ug/L	85				65	110	
	Carbazole	50	42.9	ug/L	86				62	106	
	Di-n-butylphthalate	50	41.5	ug/L	83				64	106	
	Fluoranthene	50	42.5	ug/L	85				64	110	
	Pyrene	50	42.4	ug/L	85				71	103	
	Butylbenzylphthalate	50	43.1	ug/L	86				61	105	
	3,3-Dichlorobenzidine	50	33.0	ug/L	66				43	108	
	Benzo(a)anthracene	50	41.9	ug/L	84				62	107	
	Chrysene	50	40.8	ug/L	82				61	108	
	bis(2-Ethylhexyl)phthalate	50	44.3	ug/L	89				59	110	
	Di-n-octyl phthalate	50	45.4	ug/L	91				52	139	
	Benzo(b)fluoranthene	50	42.5	ug/L	85				77	113	
	Benzo(k)fluoranthene	50	42.7	ug/L	85				77	105	
	Benzo(a)pyrene	50	42.6	ug/L	85				72	131	
	Indeno(1,2,3-cd)pyrene	50	42.7	ug/L	85				72	105	
	Dibenz(a,h)anthracene	50	43.2	ug/L	86				78	115	
	Benzo(g,h,i)perylene	50	42.1	ug/L	84				75	118	
	1,2,4,5-Tetrachlorobenzene	50	43.5	ug/L	87				72	101	
	1,4-Dioxane	50	30.9	ug/L	62				38	125	
	2,3,4,6-Tetrachlorophenol	50	43.3	ug/L	87				63	116	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: 8270E

DataFile: BP024708.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Low	Limits	
							Qual	Qual		High	RPD
PB168048BSD	Benzaldehyde	50	33.3	ug/L	67	8			10	162	20
	Phenol	50	41.7	ug/L	83	4			66	118	20
	bis(2-Chloroethyl)ether	50	38.9	ug/L	78	9			62	103	20
	2-Chlorophenol	50	43.8	ug/L	88	5			70	117	20
	2-Methylphenol	50	40.8	ug/L	82	2			69	109	20
	2,2-oxybis(1-Chloropropane)	50	35.5	ug/L	71	2			65	100	20
	Acetophenone	50	41.6	ug/L	83	7			60	104	20
	3+4-Methylphenols	50	40.5	ug/L	81	4			67	106	20
	N-Nitroso-di-n-propylamine	50	34.9	ug/L	70	4			57	107	20
	Hexachloroethane	50	39.5	ug/L	79	4			76	118	20
	Nitrobenzene	50	42.2	ug/L	84	11			58	106	20
	Isophorone	50	37.7	ug/L	75	5			61	102	20
	2-Nitrophenol	50	47.7	ug/L	95	9			70	115	20
	2,4-Dimethylphenol	50	46.0	ug/L	92	7			42	142	20
	bis(2-Chloroethoxy)methane	50	39.7	ug/L	79	7			58	109	20
	2,4-Dichlorophenol	50	47.2	ug/L	94	7			66	115	20
	Naphthalene	50	42.5	ug/L	85	8			64	107	20
	4-Chloroaniline	50	34.9	ug/L	70	57		*	10	85	20
	Hexachlorobutadiene	50	45.8	ug/L	92	8			69	101	20
	Caprolactam	50	43.3	ug/L	87	9			58	128	20
	4-Chloro-3-methylphenol	50	42.8	ug/L	86	2			65	114	20
	2-Methylnaphthalene	50	41.9	ug/L	84	6			64	107	20
	Hexachlorocyclopentadiene	100	99.7	ug/L	100	11			36	160	20
	2,4,6-Trichlorophenol	50	49.8	ug/L	100	7			61	110	20
	2,4,5-Trichlorophenol	50	48.4	ug/L	97	7			70	106	20
	1,1-Biphenyl	50	45.9	ug/L	92	7			72	98	20
	2-Chloronaphthalene	50	46.2	ug/L	92	7			59	106	20
	2-Nitroaniline	50	45.1	ug/L	90	4			73	114	20
	Dimethylphthalate	50	44.8	ug/L	90	6			64	103	20
	Acenaphthylene	50	43.7	ug/L	87	5			79	103	20
	2,6-Dinitrotoluene	50	45.8	ug/L	92	6			64	110	20
	3-Nitroaniline	50	37.1	ug/L	74	34		*	28	100	20
	Acenaphthene	50	44.5	ug/L	89	7			59	113	20
	2,4-Dinitrophenol	100	86.7	ug/L	87	6			36	166	20
	4-Nitrophenol	100	78.4	ug/L	78	4			45	147	20
	Dibenzofuran	50	43.7	ug/L	87	3			65	106	20
	2,4-Dinitrotoluene	50	45.9	ug/L	92	3			60	115	20
	Diethylphthalate	50	44.1	ug/L	88	6			63	105	20
	4-Chlorophenyl-phenylether	50	45.4	ug/L	91	7			61	104	20
	Fluorene	50	45.6	ug/L	91	7			64	107	20
	4-Nitroaniline	50	43.8	ug/L	88	9			55	125	20
	4,6-Dinitro-2-methylphenol	50	49.0	ug/L	98	10			62	132	20
	N-Nitrosodiphenylamine	50	47.5	ug/L	95	11			61	109	20
	4-Bromophenyl-phenylether	50	48.0	ug/L	96	9			73	103	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2032

Client: CDM Smith

Analytical Method: 8270E

DataFile: BP024708.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Limits		
							Qual	Qual	Low	High	RPD
PB168048BSD	Hexachlorobenzene	50	47.6	ug/L	95	7			73	106	20
	Atrazine	50	47.6	ug/L	95	7			76	120	20
	Pentachlorophenol	100	110	ug/L	110	11			47	114	20
	Phenanthrene	50	44.4	ug/L	89	9			62	109	20
	Anthracene	50	46.9	ug/L	94	10			65	110	20
	Carbazole	50	46.9	ug/L	94	9			62	106	20
	Di-n-butylphthalate	50	46.4	ug/L	93	11			64	106	20
	Fluoranthene	50	45.0	ug/L	90	6			64	110	20
	Pyrene	50	43.3	ug/L	87	2			71	103	20
	Butylbenzylphthalate	50	44.7	ug/L	89	4			61	105	20
	3,3-Dichlorobenzidine	50	41.3	ug/L	83	22		*	43	108	20
	Benzo(a)anthracene	50	44.7	ug/L	89	6			62	107	20
	Chrysene	50	44.7	ug/L	89	9			61	108	20
	bis(2-Ethylhexyl)phthalate	50	47.2	ug/L	94	6			59	110	20
	Di-n-octyl phthalate	50	47.7	ug/L	95	5			52	139	20
	Benzo(b)fluoranthene	50	47.0	ug/L	94	10			77	113	20
	Benzo(k)fluoranthene	50	45.9	ug/L	92	7			77	105	20
	Benzo(a)pyrene	50	46.4	ug/L	93	9			72	131	20
	Indeno(1,2,3-cd)pyrene	50	45.4	ug/L	91	6			72	105	20
	Dibenz(a,h)anthracene	50	46.0	ug/L	92	6			78	115	20
	Benzo(g,h,i)perylene	50	44.9	ug/L	90	6			75	118	20
	1,2,4,5-Tetrachlorobenzene	50	47.0	ug/L	94	8			72	101	20
	1,4-Dioxane	50	31.5	ug/L	63	2			38	125	20
	2,3,4,6-Tetrachlorophenol	50	48.0	ug/L	96	10			63	116	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168041BL

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032

SAS No.: Q2032 SDG NO.: Q2032

Lab File ID: BP024688.D

Lab Sample ID: PB168041BL

Instrument ID: BNA_P

Date Extracted: 05/16/2025

Matrix: (soil/water) SOIL

Date Analyzed: 05/19/2025

Level: (low/med) LOW

Time Analyzed: 14:09

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168041BS	PB168041BS	BP024689.D	05/19/2025
TP-24	Q2032-04	BP024690.D	05/19/2025
TP-24MS	Q2032-05MS	BP024691.D	05/19/2025
TP-24MSD	Q2032-06MSD	BP024692.D	05/19/2025
TP-11	Q2032-01	BF142446.D	05/19/2025
TP-29	Q2032-02	BF142447.D	05/19/2025
TP-29-99	Q2032-03	BF142448.D	05/19/2025
TP-37	Q2032-07	BF142450.D	05/19/2025
TP-32	Q2032-08	BF142451.D	05/19/2025

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168048BL

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM Case No.: Q2032

SAS No.: Q2032 SDG NO.: Q2032

Lab File ID: BP024706.D

Lab Sample ID: PB168048BL

Instrument ID: BNA_P

Date Extracted: 05/19/2025

Matrix: (soil/water) Water

Date Analyzed: 05/20/2025

Level: (low/med) LOW

Time Analyzed: 13:55

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168048BS	PB168048BS	BP024707.D	05/20/2025
PB168048BSD	PB168048BSD	BP024708.D	05/20/2025
FB-05132025	Q2032-11	BP024716.D	05/20/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: CAMP02Lab Code: CHEMSAS No.: Q2032 SDG NO.: Q2032Lab File ID: BF142294.DDFTPP Injection Date: 05/05/2025Instrument ID: BNA_FDFTPP Injection Time: 13:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	25.8
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	34.9
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.2
275	10.0 - 60.0% of mass 198	22.8
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	15.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.6 (19.6) 2

1-Value is % mass 69

2-Value is % mass 442

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

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



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: CAMP02Lab Code: CHEMSAS No.: Q2032 SDG NO.: Q2032Lab File ID: BF142440.DDFTPP Injection Date: 05/19/2025Instrument ID: BNA_FDFTPP Injection Time: 09:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	28.2
68	Less than 2.0% of mass 69	0.4 (1.8) 1
69	Mass 69 relative abundance	24.2
70	Less than 2.0% of mass 69	0.1 (0.6) 1
127	10.0 - 80.0% of mass 198	33.2
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	5
275	10.0 - 60.0% of mass 198	22.4
365	Greater than 1% of mass 198	2.9
441	Present, but less than mass 443	15.8
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	BF142441.D	05/19/2025	10:09
TP-11	Q2032-01	BF142446.D	05/19/2025	12:39
TP-29	Q2032-02	BF142447.D	05/19/2025	13:08
TP-29-99	Q2032-03	BF142448.D	05/19/2025	13:37
TP-37	Q2032-07	BF142450.D	05/19/2025	14:35
TP-32	Q2032-08	BF142451.D	05/19/2025	15:04



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: CAMP02Lab Code: CHEMSAS No.: Q2032SDG NO.: Q2032Lab File ID: BP024613.DDFTPP Injection Date: 05/13/2025Instrument ID: BNA_PDFTPP Injection Time: 10:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	26.8
68	Less than 2.0% of mass 69	0.2 (0.6) 1
69	Mass 69 relative abundance	29
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	39.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.3
275	10.0 - 60.0% of mass 198	26.5
365	Greater than 1% of mass 198	4.3
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.4 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

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



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: CAMP02Lab Code: CHEMSAS No.: Q2032 SDG NO.: Q2032Lab File ID: BP024685.DDFTPP Injection Date: 05/19/2025Instrument ID: BNA_PDFTPP Injection Time: 11:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	21
68	Less than 2.0% of mass 69	0.3 (1.3) 1
69	Mass 69 relative abundance	22.3
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	32.6
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	4.9
275	10.0 - 60.0% of mass 198	23.7
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	15.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19 (19) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP024686.D	05/19/2025	12:48
PB168041BL	PB168041BL	BP024688.D	05/19/2025	14:09
PB168041BS	PB168041BS	BP024689.D	05/19/2025	14:50
TP-24	Q2032-04	BP024690.D	05/19/2025	15:35
TP-24MS	Q2032-05MS	BP024691.D	05/19/2025	16:16
TP-24MSD	Q2032-06MSD	BP024692.D	05/19/2025	16:57



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: CAMP02Lab Code: CHEMSAS No.: Q2032 SDG NO.: Q2032Lab File ID: BP024702.DDFTPP Injection Date: 05/20/2025Instrument ID: BNA_PDFTPP Injection Time: 10:31

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	22.2
68	Less than 2.0% of mass 69	0.3 (1.3) 1
69	Mass 69 relative abundance	23.8
70	Less than 2.0% of mass 69	0.1 (0.6) 1
127	10.0 - 80.0% of mass 198	33.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	4.7
275	10.0 - 60.0% of mass 198	24
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19 (19) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP024703.D	05/20/2025	11:52
PB168048BL	PB168048BL	BP024706.D	05/20/2025	13:55
PB168048BS	PB168048BS	BP024707.D	05/20/2025	14:35
PB168048BSD	PB168048BSD	BP024708.D	05/20/2025	15:16
FB-05132025	Q2032-11	BP024716.D	05/20/2025	20:42

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/19/2025

Lab File ID: BF142441.D Time Analyzed: 10:09

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	140943	6.904	537518	8.19	282968	9.94
UPPER LIMIT	281886	7.404	1075040	8.686	565936	10.439
LOWER LIMIT	70471.5	6.404	268759	7.686	141484	9.439
EPA SAMPLE NO.						
01 TP-11	141508	6.90	539614	8.19	301091	9.94
02 TP-29	142420	6.90	552520	8.19	298328	9.94
03 TP-29-99	126923	6.90	534005	8.18	245112	9.94
04 TP-37	127525	6.90	447596	8.18	242643	9.94
05 TP-32	128621	6.90	454103	8.18	244134	9.94

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/19/2025

Lab File ID: BF142441.D Time Analyzed: 10:09

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	485793	11.427	261281	14.068	285078	15.557
UPPER LIMIT	971586	11.927	522562	14.568	570156	16.057
LOWER LIMIT	242897	10.927	130641	13.568	142539	15.057
EPA SAMPLE NO.						
01 TP-11	542415	11.43	308431	14.06	297161	15.56
02 TP-29	493987	11.43	263579	14.07	296604	15.56
03 TP-29-99	429168	11.42	249248	14.06	249563	15.55
04 TP-37	434004	11.43	324890	14.06	309632	15.56
05 TP-32	432190	11.43	247849	14.06	251162	15.56

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/19/2025

Lab File ID: BP024686.D Time Analyzed: 12:48

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	148955	7.658	651543	10.43	426043	14.29
UPPER LIMIT	297910	8.158	1303090	10.928	852086	14.792
LOWER LIMIT	74477.5	7.158	325772	9.928	213022	13.792
EPA SAMPLE NO.						
01 PB168041BL	146055	7.66	546676	10.43	318784	14.29
02 PB168041BS	179011	7.66	689037	10.43	377539	14.29
03 TP-24	141952	7.65	538017	10.42	308977	14.29
04 TP-24MS	175701	7.65	713844	10.42	453670	14.29
05 TP-24MSD	196921	7.66	749405	10.43	420201	14.29

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/19/2025

Lab File ID: BP024686.D Time Analyzed: 12:48

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	875686	17.092	872281	21.527	779874	24.81
UPPER LIMIT	1751370	17.592	1744560	22.027	1559750	25.31
LOWER LIMIT	437843	16.592	436141	21.027	389937	24.31
EPA SAMPLE NO.						
01 PB168041BL	591988	17.09	589770	21.52	764959	24.80
02 PB168041BS	631736	17.08	602821	21.52	805398	24.81
03 TP-24	585624	17.09	714772	21.52	916273	24.82
04 TP-24MS	903382	17.10	992797	21.54	1067590	24.83
05 TP-24MSD	679242	17.09	638666	21.53	839473	24.81

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/20/2025

Lab File ID: BP024703.D Time Analyzed: 11:52

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	123667	7.657	504753	10.43	316846	14.29
UPPER LIMIT	247334	8.157	1009510	10.928	633692	14.787
LOWER LIMIT	61833.5	7.157	252377	9.928	158423	13.787
EPA SAMPLE NO.						
01 PB168048BL	134412	7.66	500749	10.43	300658	14.29
02 PB168048BS	124819	7.66	494827	10.43	304328	14.29
03 PB168048BSD	139801	7.66	538123	10.42	329718	14.29
04 FB-05132025	106183	7.66	406207	10.43	282716	14.29

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG NO.: Q2032

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/20/2025

Lab File ID: BP024703.D Time Analyzed: 11:52

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	620396	17.081	679929	21.516	792201	24.798
UPPER LIMIT	1240790	17.581	1359860	22.016	1584400	25.298
LOWER LIMIT	310198	16.581	339965	21.016	396101	24.298
EPA SAMPLE NO.						
01 PB168048BL	642481	17.09	691700	21.52	756782	24.82
02 PB168048BS	614284	17.08	693187	21.52	827509	24.79
03 PB168048BSD	642991	17.08	741643	21.52	838594	24.79
04 FB-05132025	572204	17.08	649834	21.51	736394	24.79

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.



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-11	SDG No.:	Q2032
Lab Sample ID:	Q2032-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.3
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Level :	LOW
		Final Vol:	1000 uL
		Test:	SVOC-TCL BNA -20
		GPC Cleanup :	N
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142446.D	1	05/16/25 10:00	05/19/25 12:39	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	430	ug/Kg
108-95-2	Phenol	28.9	U	28.9	220	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	31.8	U	31.8	220	ug/Kg
95-57-8	2-Chlorophenol	31.9	U	31.9	220	ug/Kg
95-48-7	2-Methylphenol	39.1	U	39.1	220	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	49.0	U	49.0	220	ug/Kg
98-86-2	Acetophenone	38.6	U	38.6	220	ug/Kg
65794-96-9	3+4-Methylphenols	53.7	U	53.7	430	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	62.0	U	62.0	100	ug/Kg
67-72-1	Hexachloroethane	23.0	U	23.0	220	ug/Kg
98-95-3	Nitrobenzene	23.9	U	23.9	220	ug/Kg
78-59-1	Isophorone	42.9	U	42.9	220	ug/Kg
88-75-5	2-Nitrophenol	76.1	U	76.1	220	ug/Kg
105-67-9	2,4-Dimethylphenol	84.7	U	84.7	220	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	40.3	U	40.3	220	ug/Kg
120-83-2	2,4-Dichlorophenol	37.0	U	37.0	220	ug/Kg
91-20-3	Naphthalene	29.7	U	29.7	220	ug/Kg
106-47-8	4-Chloroaniline	46.3	U	46.3	220	ug/Kg
87-68-3	Hexachlorobutadiene	33.1	U	33.1	220	ug/Kg
105-60-2	Caprolactam	68.1	UQ	68.1	430	ug/Kg
59-50-7	4-Chloro-3-methylphenol	37.5	U	37.5	220	ug/Kg
91-57-6	2-Methylnaphthalene	33.5	U	33.5	220	ug/Kg
77-47-4	Hexachlorocyclopentadiene	150	U	150	430	ug/Kg
88-06-2	2,4,6-Trichlorophenol	25.9	U	25.9	220	ug/Kg
95-95-4	2,4,5-Trichlorophenol	38.1	U	38.1	220	ug/Kg
92-52-4	1,1-Biphenyl	28.5	U	28.5	220	ug/Kg
91-58-7	2-Chloronaphthalene	29.4	U	29.4	220	ug/Kg
88-74-4	2-Nitroaniline	62.9	U	62.9	220	ug/Kg
131-11-3	Dimethylphthalate	35.4	U	35.4	220	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-11	SDG No.:	Q2032
Lab Sample ID:	Q2032-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142446.D	1	05/16/25 10:00	05/19/25 12:39	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	37.8	U	37.8	220	ug/Kg
606-20-2	2,6-Dinitrotoluene	43.9	U	43.9	220	ug/Kg
99-09-2	3-Nitroaniline	60.1	U	60.1	220	ug/Kg
83-32-9	Acenaphthene	27.9	U	27.9	220	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	300	430	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	430	ug/Kg
132-64-9	Dibenzofuran	29.7	U	29.7	220	ug/Kg
121-14-2	2,4-Dinitrotoluene	65.5	U	65.5	220	ug/Kg
84-66-2	Diethylphthalate	37.0	U	37.0	220	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	34.9	U	34.9	220	ug/Kg
86-73-7	Fluorene	33.1	U	33.1	220	ug/Kg
100-01-6	4-Nitroaniline	83.9	U	83.9	220	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	430	ug/Kg
86-30-6	n-Nitrosodiphenylamine	43.0	U	43.0	220	ug/Kg
101-55-3	4-Bromophenyl-phenylether	36.4	U	36.4	220	ug/Kg
118-74-1	Hexachlorobenzene	33.1	U	33.1	220	ug/Kg
1912-24-9	Atrazine	44.5	U	44.5	220	ug/Kg
87-86-5	Pentachlorophenol	67.1	U	67.1	430	ug/Kg
85-01-8	Phenanthrene	27.3	U	27.3	220	ug/Kg
120-12-7	Anthracene	43.5	U	43.5	220	ug/Kg
86-74-8	Carbazole	40.8	U	40.8	220	ug/Kg
84-74-2	Di-n-butylphthalate	62.6	U	62.6	220	ug/Kg
206-44-0	Fluoranthene	39.2	U	39.2	220	ug/Kg
129-00-0	Pyrene	47.1	U	47.1	220	ug/Kg
85-68-7	Butylbenzylphthalate	93.4	U	93.4	220	ug/Kg
91-94-1	3,3-Dichlorobenzidine	48.0	U	48.0	430	ug/Kg
56-55-3	Benzo(a)anthracene	30.1	U	30.1	220	ug/Kg
218-01-9	Chrysene	26.0	U	26.0	220	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	190	J	77.4	220	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	430	ug/Kg
205-99-2	Benzo(b)fluoranthene	24.8	U	24.8	220	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-11	SDG No.:	Q2032
Lab Sample ID:	Q2032-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142446.D	1	05/16/25 10:00	05/19/25 12:39	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	29.3	U	29.3	220	ug/Kg
50-32-8	Benzo(a)pyrene	38.6	U	38.6	220	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	38.1	U	38.1	220	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	35.8	U	35.8	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	33.6	U	33.6	220	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	33.5	U	33.5	220	ug/Kg
123-91-1	1,4-Dioxane	59.1	U	59.1	220	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	35.8	U	35.8	220	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	73.1		18 - 112	49%	SPK: 150
13127-88-3	Phenol-d6	74.1		15 - 107	49%	SPK: 150
4165-60-0	Nitrobenzene-d5	50.9		18 - 107	51%	SPK: 100
321-60-8	2-Fluorobiphenyl	47.7		20 - 109	48%	SPK: 100
118-79-6	2,4,6-Tribromophenol	90.1		10 - 116	60%	SPK: 150
1718-51-0	Terphenyl-d14	50.0		10 - 105	50%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	142000	6.904
1146-65-2	Naphthalene-d8	540000	8.186
15067-26-2	Acenaphthene-d10	301000	9.939
1517-22-2	Phenanthrene-d10	542000	11.427
1719-03-5	Chrysene-d12	308000	14.063
1520-96-3	Perylene-d12	297000	15.557

TENTATIVE IDENTIFIED COMPOUNDS

000067-63-0	Isopropyl Alcohol	160	J	3.43	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	240	AB	5.12	ug/Kg
000770-35-4	1-Phenoxypropan-2-ol	170	J	8.49	ug/Kg
	unknown10.028	130	J	10.0	ug/Kg
000057-10-3	n-Hexadecanoic acid	380	J	12.0	ug/Kg
000057-11-4	Octadecanoic acid	140	J	12.7	ug/Kg
074339-54-1	Trichloroacetic acid, hexadecyl es	130	J	13.9	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-11	SDG No.:	Q2032
Lab Sample ID:	Q2032-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	76.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142446.D	1	05/16/25 10:00	05/19/25 12:39	PB168041

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
 Data File : BF142446.D
 Acq On : 19 May 2025 12:39
 Operator : RC/JU
 Sample : Q2032-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-11

Quant Time: May 19 13:19:41 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

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

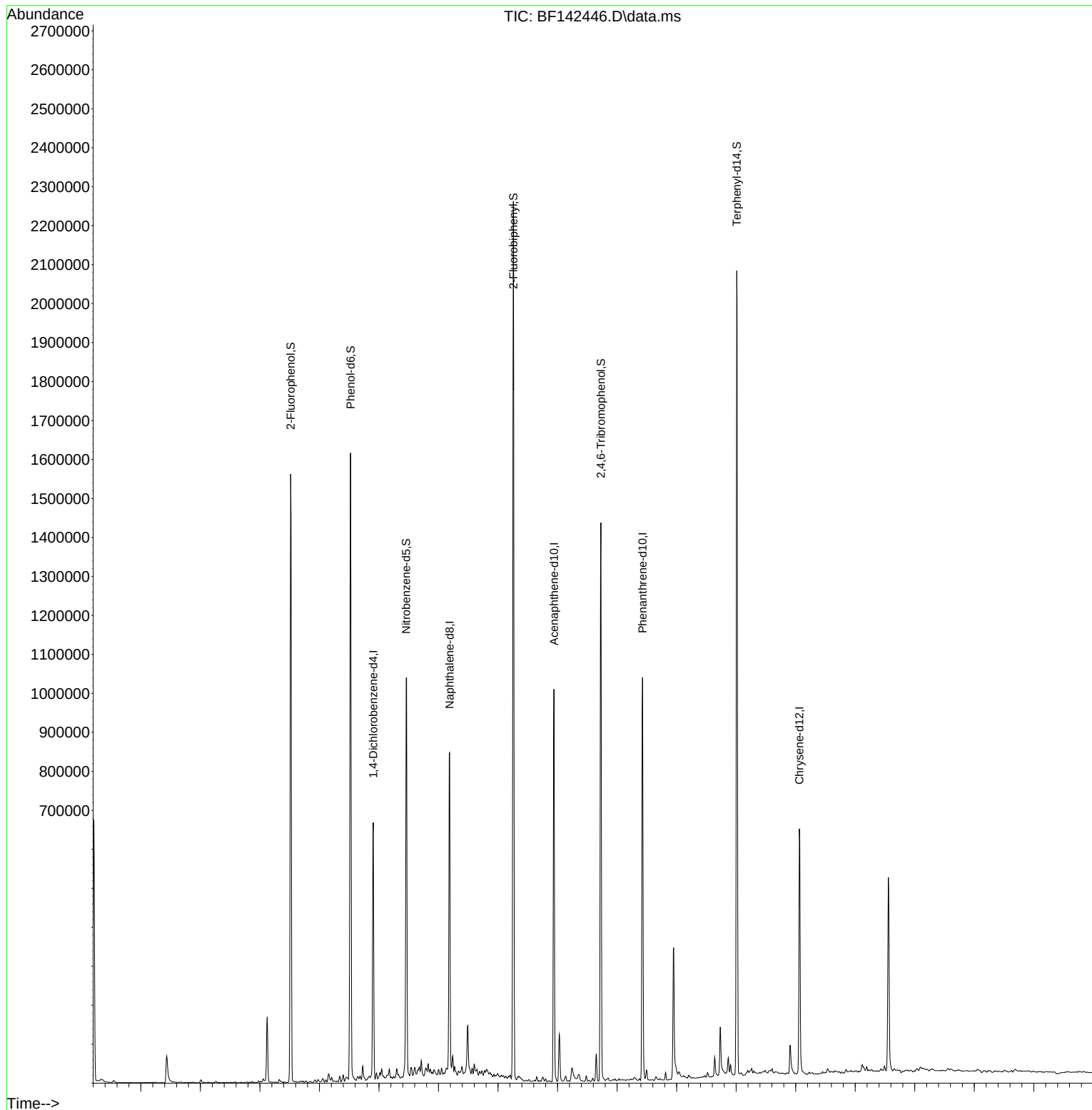
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	141508	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	539614	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	301091	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	542415	20.000	ng	0.00
76) Chrysene-d12	14.063	240	308431	20.000	ng	0.00
86) Perylene-d12	15.557	264	297161	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	605818	73.083	ng	0.00
7) Phenol-d6	6.522	99	755416	74.094	ng	0.00
23) Nitrobenzene-d5	7.457	82	450507	50.916	ng	-0.01
42) 2,4,6-Tribromophenol	10.727	330	261901	90.094	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	1006881	47.683	ng	0.00
79) Terphenyl-d14	13.010	244	1042244	50.015	ng	0.00
Target Compounds						
84) Bis(2-ethylhexyl)phtha...	14.045	149	2470	4.453	ng	Qvalue # 98

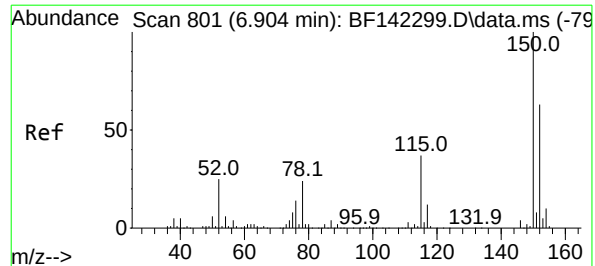
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142446.D
Acq On : 19 May 2025 12:39
Operator : RC/JU
Sample : Q2032-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-11

Quant Time: May 19 13:19:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.904 min Scan# 801

Delta R.T. 0.000 min

Lab File: BF142446.D

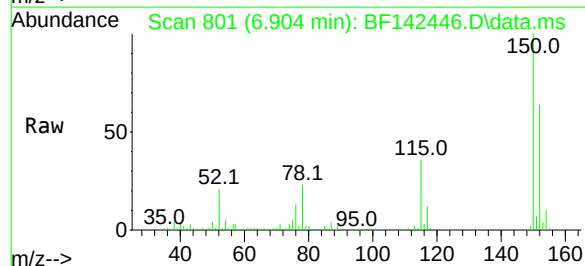
Acq: 19 May 2025 12:39

Instrument :

BNA_F

ClientSampleId :

TP-11



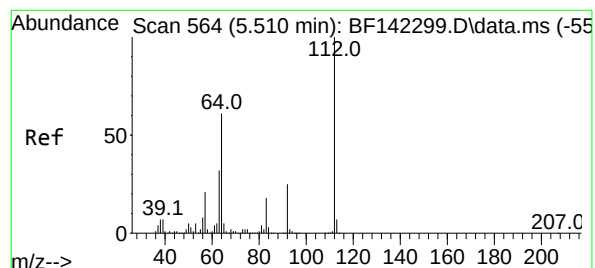
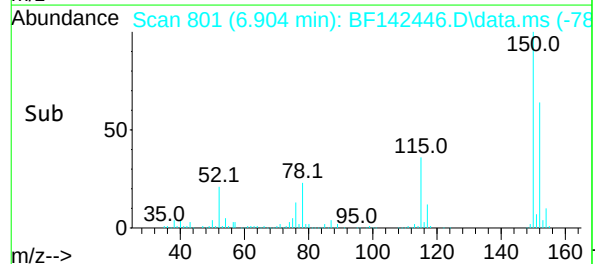
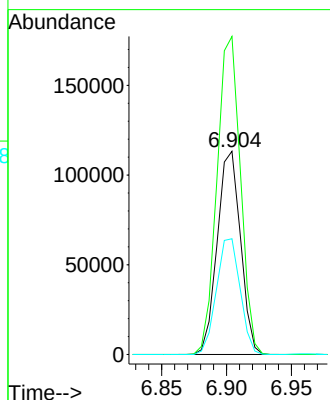
Tgt Ion:152 Resp: 141508

Ion Ratio Lower Upper

152 100

150 156.5 126.6 190.0

115 57.0 47.3 70.9



#5

2-Fluorophenol

Concen: 73.083 ng

RT: 5.516 min Scan# 565

Delta R.T. 0.006 min

Lab File: BF142446.D

Acq: 19 May 2025 12:39

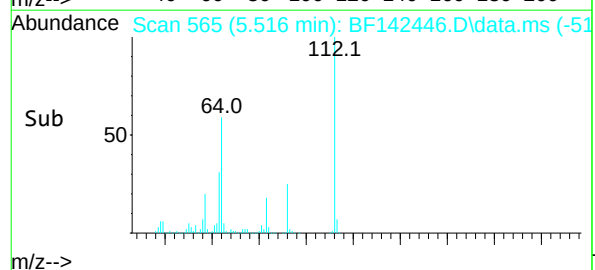
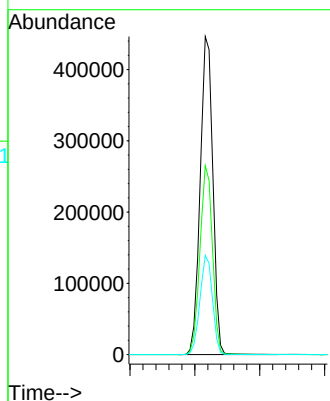
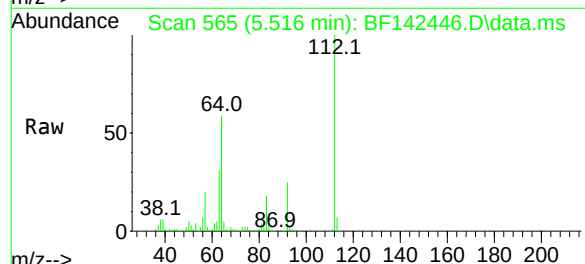
Tgt Ion:112 Resp: 605818

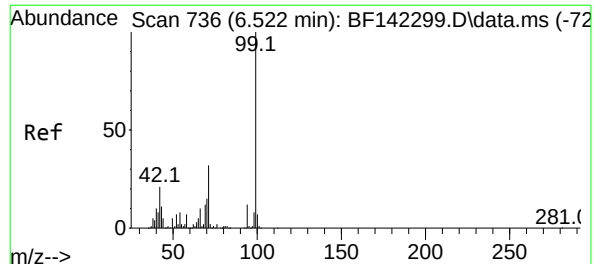
Ion Ratio Lower Upper

112 100

64 59.4 48.9 73.3

63 31.2 25.6 38.4





#7

Phenol-d6

Concen: 74.094 ng

RT: 6.522 min Scan# 736

Delta R.T. -0.000 min

Lab File: BF142446.D

Acq: 19 May 2025 12:39

Instrument :

BNA_F

ClientSampleId :

TP-11

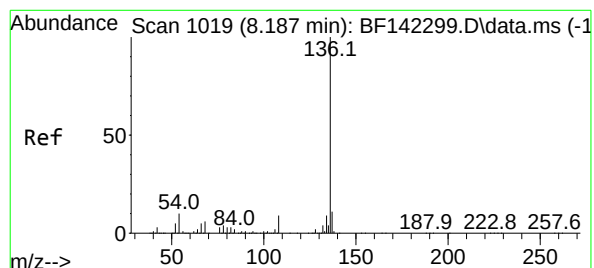
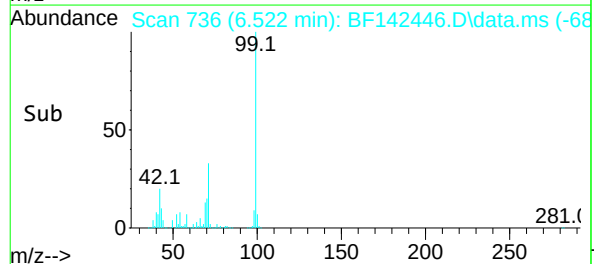
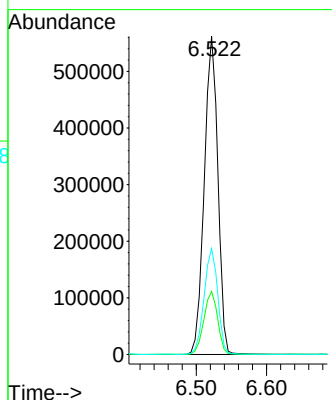
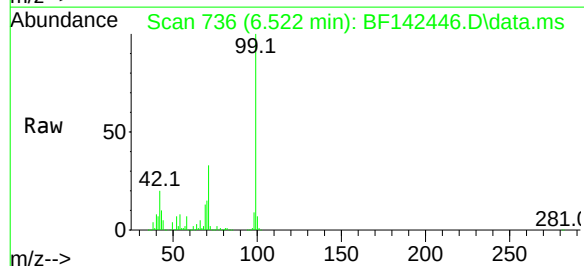
Tgt Ion: 99 Resp: 755416

Ion Ratio Lower Upper

99 100

42 19.8 17.0 25.4

71 33.3 25.8 38.8



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.186 min Scan# 1019

Delta R.T. -0.000 min

Lab File: BF142446.D

Acq: 19 May 2025 12:39

Tgt Ion: 136 Resp: 539614

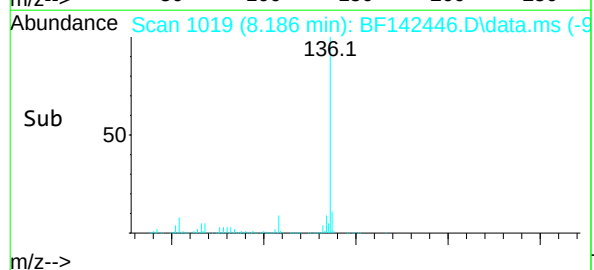
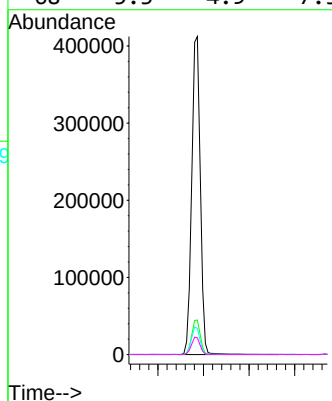
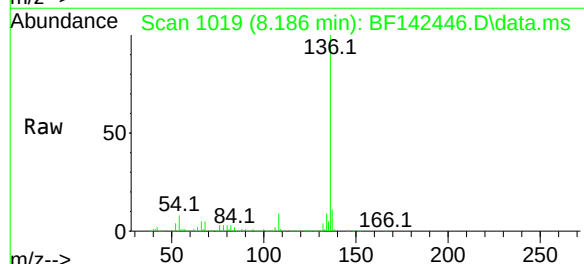
Ion Ratio Lower Upper

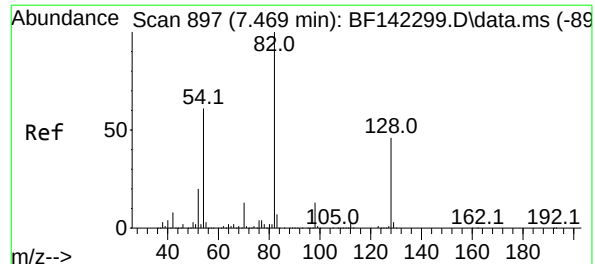
136 100

137 10.9 8.9 13.3

54 8.2 7.7 11.5

68 5.3 4.9 7.3





#23

Nitrobenzene-d5

Concen: 50.916 ng

RT: 7.457 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF142446.D

Acq: 19 May 2025 12:39

Instrument :

BNA_F

ClientSampleId :

TP-11

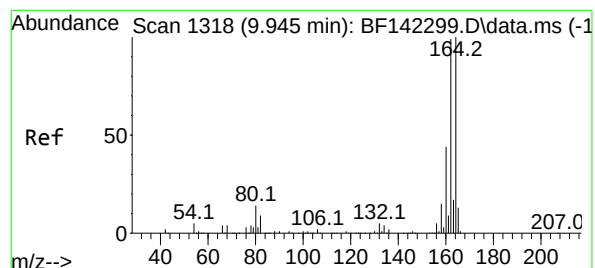
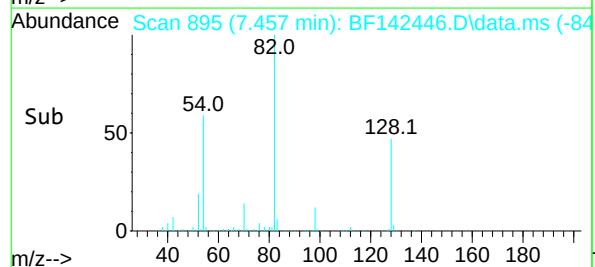
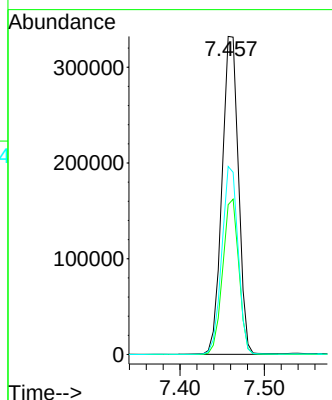
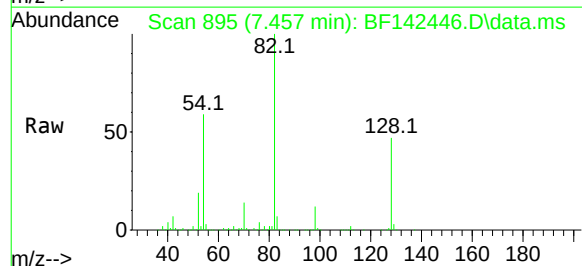
Tgt Ion: 82 Resp: 450507

Ion Ratio Lower Upper

82 100

128 47.1 37.0 55.6

54 59.1 48.6 73.0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.939 min Scan# 1317

Delta R.T. -0.006 min

Lab File: BF142446.D

Acq: 19 May 2025 12:39

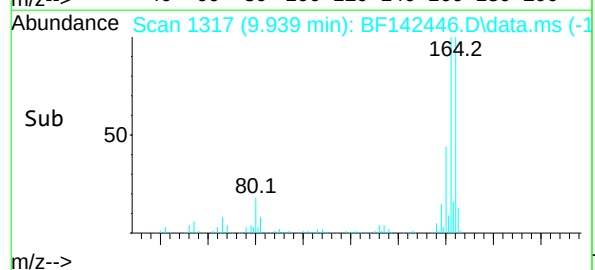
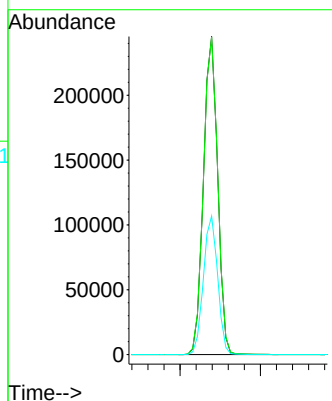
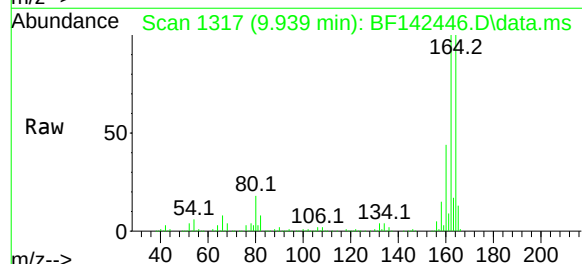
Tgt Ion: 164 Resp: 301091

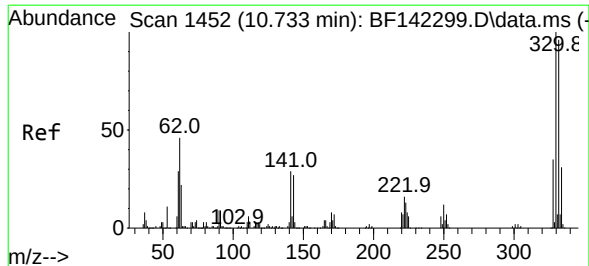
Ion Ratio Lower Upper

164 100

162 99.9 79.2 118.8

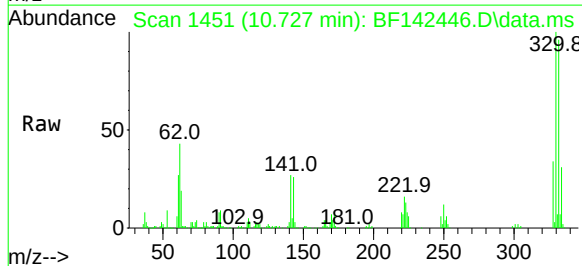
160 43.6 35.3 52.9



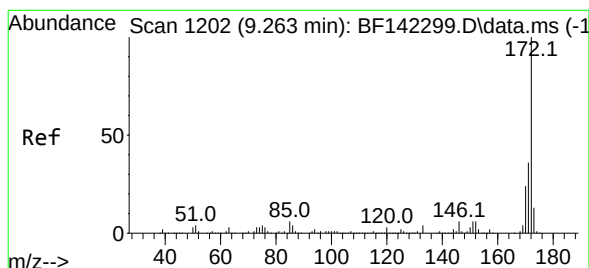
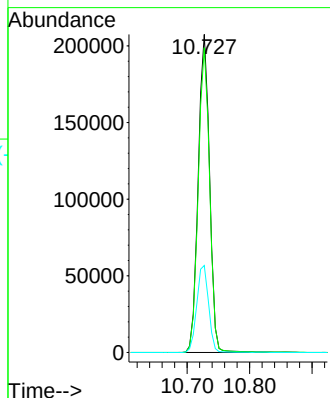
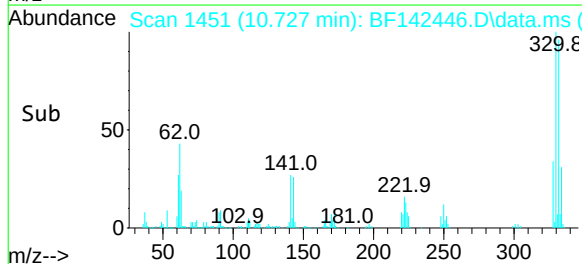


#42
2,4,6-Tribromophenol
Concen: 90.094 ng
RT: 10.727 min Scan# 1451
Delta R.T. -0.006 min
Lab File: BF142446.D
Acq: 19 May 2025 12:39

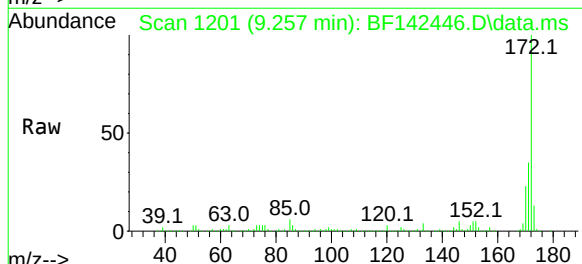
Instrument :
BNA_F
ClientSampleId :
TP-11



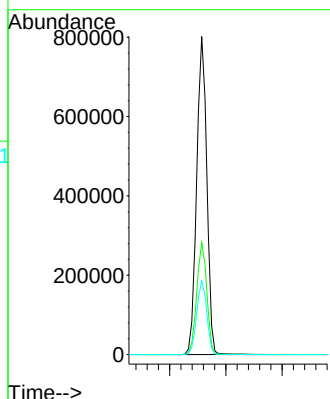
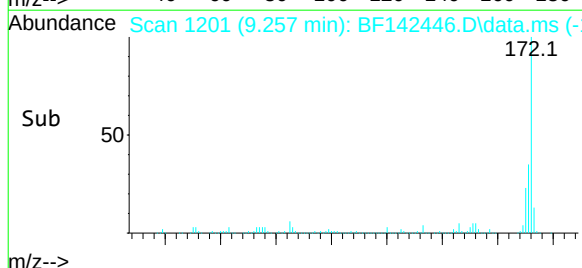
Tgt Ion: 330 Resp: 261901
Ion Ratio Lower Upper
330 100
332 96.0 76.8 115.2
141 28.5 24.9 37.3

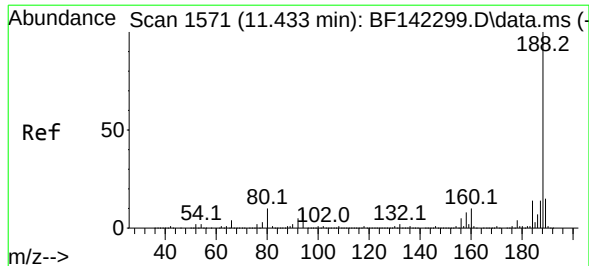


#45
2-Fluorobiphenyl
Concen: 47.683 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.006 min
Lab File: BF142446.D
Acq: 19 May 2025 12:39



Tgt Ion: 172 Resp: 1006881
Ion Ratio Lower Upper
172 100
171 35.2 28.6 42.8
170 23.1 19.0 28.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.427 min Scan# 15

Delta R.T. -0.006 min

Lab File: BF142446.D

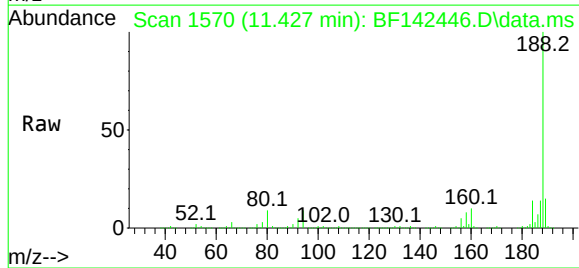
Acq: 19 May 2025 12:39

Instrument :

BNA_F

ClientSampleId :

TP-11



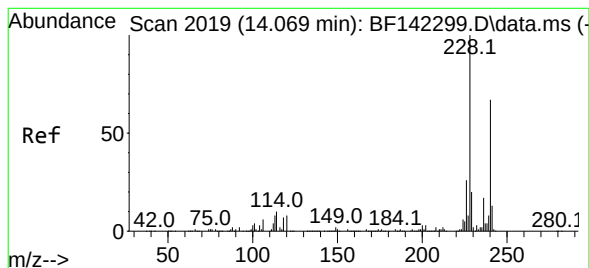
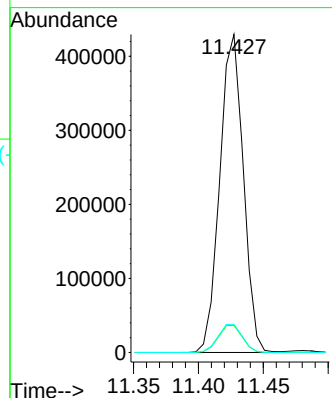
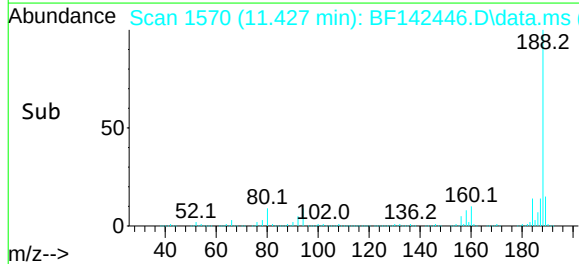
Tgt Ion:188 Resp: 542415

Ion Ratio Lower Upper

188 100

94 8.5 7.5 11.3

80 8.9 7.9 11.9



#76

Chrysene-d12

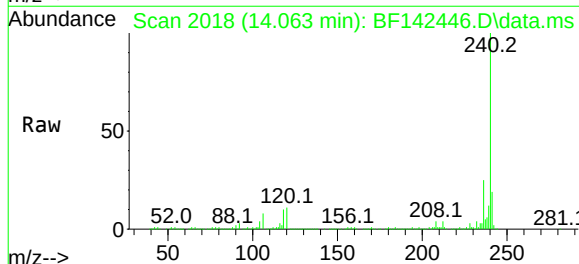
Concen: 20.000 ng

RT: 14.063 min Scan# 2018

Delta R.T. -0.006 min

Lab File: BF142446.D

Acq: 19 May 2025 12:39



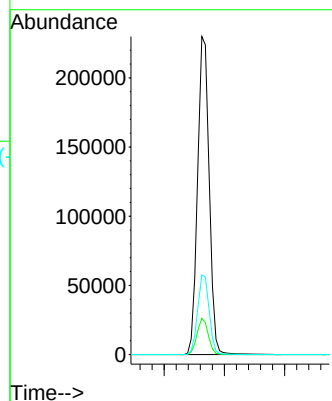
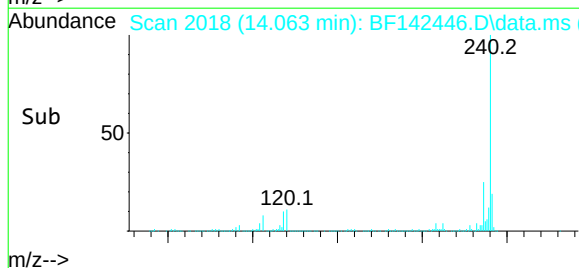
Tgt Ion:240 Resp: 308431

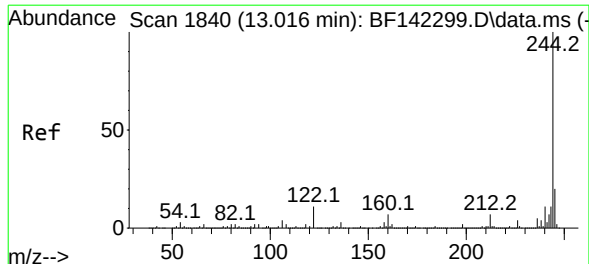
Ion Ratio Lower Upper

240 100

120 11.4 9.7 14.5

236 25.0 20.0 30.0





#79

Terphenyl-d14

Concen: 50.015 ng

RT: 13.010 min Scan# 18

Delta R.T. -0.006 min

Lab File: BF142446.D

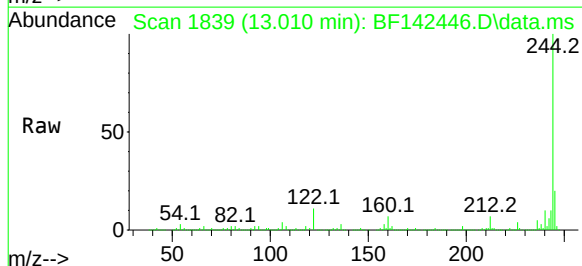
Acq: 19 May 2025 12:39

Instrument :

BNA_F

ClientSampleId :

TP-11



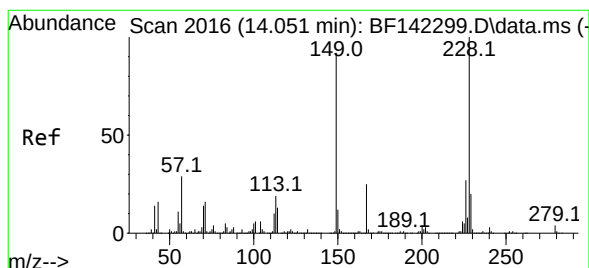
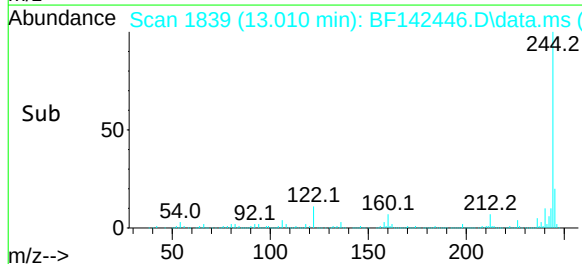
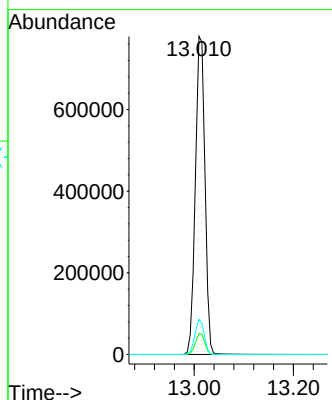
Tgt Ion:244 Resp: 1042244

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.2

122 11.1 9.0 13.4



#84

Bis(2-ethylhexyl)phthalate

Concen: 4.453 ng

RT: 14.045 min Scan# 2015

Delta R.T. -0.006 min

Lab File: BF142446.D

Acq: 19 May 2025 12:39

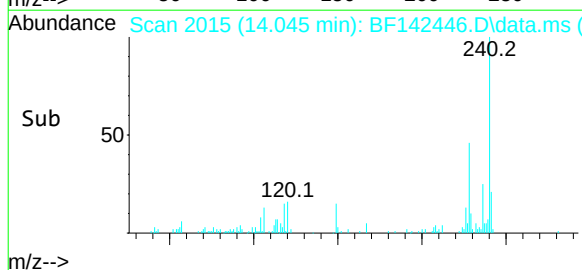
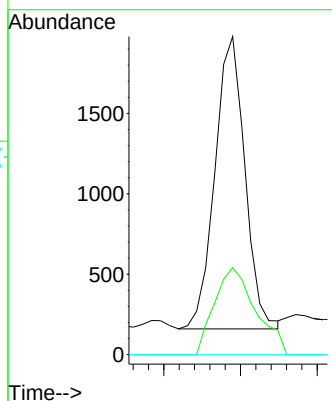
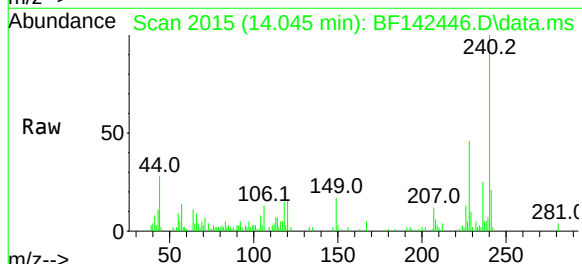
Tgt Ion:149 Resp: 2470

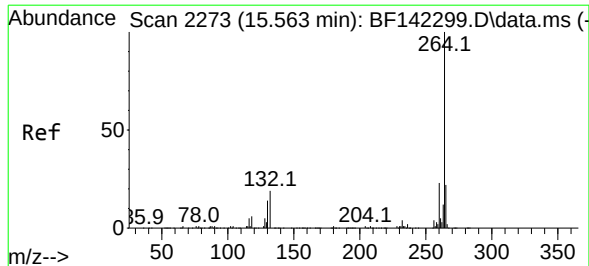
Ion Ratio Lower Upper

149 100

167 27.4 22.0 33.0

279 0.0 3.0 4.6#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.557 min Scan# 22

Delta R.T. -0.006 min

Lab File: BF142446.D

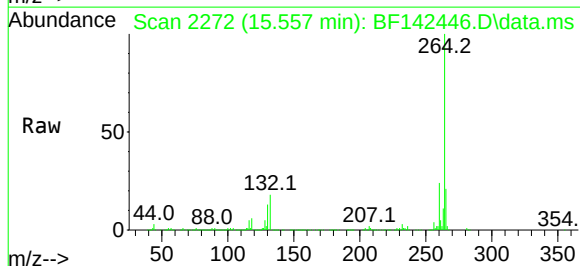
Acq: 19 May 2025 12:39

Instrument :

BNA_F

ClientSampleId :

TP-11



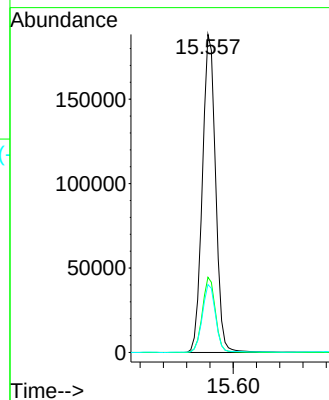
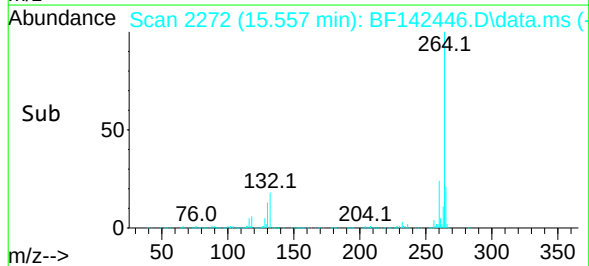
Tgt Ion:264 Resp: 297161

Ion Ratio Lower Upper

264 100

260 23.6 18.6 27.8

265 21.4 17.5 26.3



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
 Data File : BF142446.D
 Acq On : 19 May 2025 12:39
 Operator : RC/JU
 Sample : Q2032-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-11

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

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

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142446.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.434	206	211	229	rBV	68358	157276	5.60%	0.708%
2	5.122	492	498	504	rVB	166957	239926	8.54%	1.079%
3	5.516	559	565	571	rBV	1558707	2084689	74.23%	9.379%
4	6.151	669	673	679	rBV2	20553	38417	1.37%	0.173%
5	6.451	719	724	730	rVV6	10693	29709	1.06%	0.134%
6	6.522	730	736	748	rVB	1609050	2204865	78.51%	9.920%
7	6.728	767	771	780	rVB	36895	60023	2.14%	0.270%
8	6.904	792	801	806	rVB	658053	874973	31.16%	3.936%
9	7.175	843	847	851	rVB	22555	29785	1.06%	0.134%
10	7.298	864	868	871	rBV3	20995	28287	1.01%	0.127%
11	7.463	885	896	905	rBV	1025480	1467140	52.24%	6.601%
12	7.539	905	909	914	rVV5	21474	35088	1.25%	0.158%
13	7.598	914	919	924	rBV2	20358	36092	1.29%	0.162%
14	7.710	935	938	945	rVB2	39377	55706	1.98%	0.251%
15	7.786	946	951	955	rBV5	20171	42126	1.50%	0.190%
16	8.133	1005	1010	1013	rBV4	13985	29409	1.05%	0.132%
17	8.186	1013	1019	1024	rVV	824703	1137080	40.49%	5.116%
18	8.239	1024	1028	1031	rVV2	47984	72890	2.60%	0.328%
19	8.269	1031	1033	1041	rVB8	21841	36011	1.28%	0.162%
20	8.492	1063	1071	1080	rVB	123846	222408	7.92%	1.001%
21	8.598	1086	1089	1094	rBV	23861	33693	1.20%	0.152%
22	9.257	1195	1201	1206	rBV	2251343	2808341	100.00%	12.635%
23	9.939	1311	1317	1322	rBV	1007295	1252696	44.61%	5.636%
24	10.028	1326	1332	1342	rVV	121323	191860	6.83%	0.863%
25	10.239	1362	1368	1381	rBV	34550	105207	3.75%	0.473%
26	10.357	1382	1388	1404	rVB3	17321	48607	1.73%	0.219%
27	10.651	1432	1438	1445	rBV	70143	94899	3.38%	0.427%
28	10.727	1445	1451	1464	rBV	1432823	1869865	66.58%	8.413%
29	11.427	1564	1570	1577	rBV	1033742	1341647	47.77%	6.036%
30	11.492	1577	1581	1586	rVB3	25369	38258	1.36%	0.172%
31	11.951	1651	1659	1671	rBV2	338667	582409	20.74%	2.620%
32	12.039	1671	1674	1682	rVB4	13408	29156	1.04%	0.131%
33	12.639	1772	1776	1785	rBV	48931	72834	2.59%	0.328%
34	12.733	1787	1792	1806	rVV	124330	221833	7.90%	0.998%
35	12.868	1810	1815	1818	rVV	43355	64742	2.31%	0.291%
36	12.904	1818	1821	1831	rVB2	26761	39082	1.39%	0.176%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142446.D
Acq On : 19 May 2025 12:39
Operator : RC/JU
Sample : Q2032-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-11

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

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

37	13.010	1834	1839	1845	rVV	2060000	2725200	97.04%	12.261%
38	13.904	1987	1991	2003	rBV	72513	136243	4.85%	0.613%
39	14.063	2013	2018	2036	rVB	629037	895423	31.88%	4.029%
40	15.557	2266	2272	2284	rVB	496776	793293	28.25%	3.569%

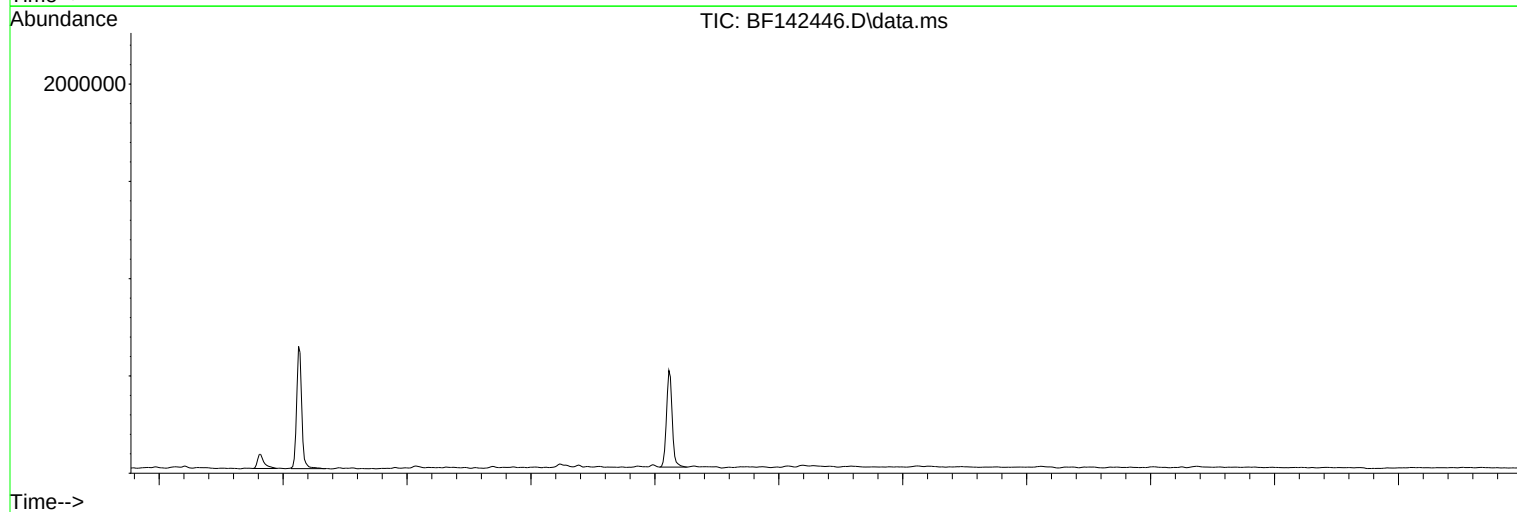
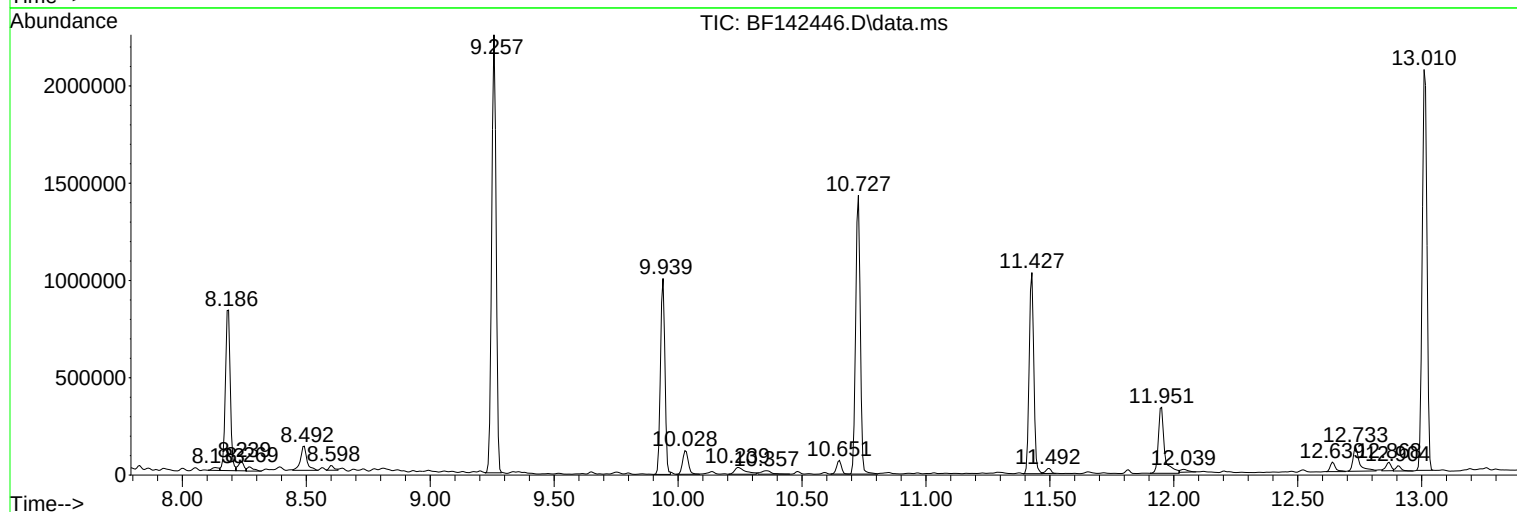
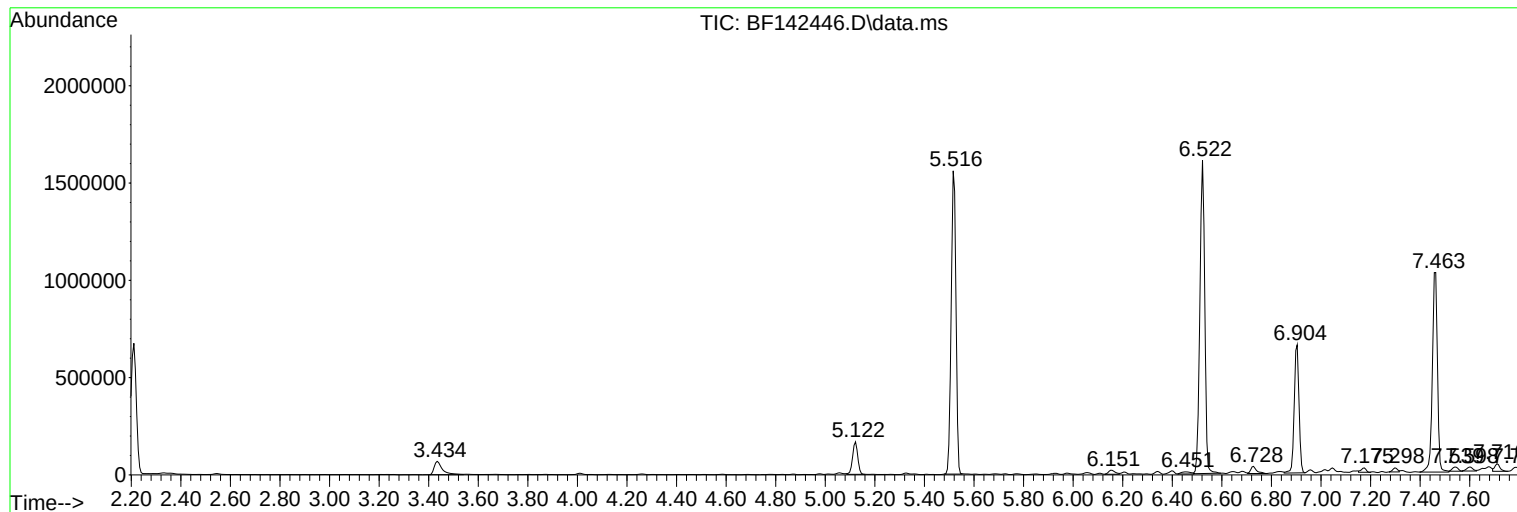
Sum of corrected areas: 22227188

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142446.D
Acq On : 19 May 2025 12:39
Operator : RC/JU
Sample : Q2032-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-11

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

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142446.D
Acq On : 19 May 2025 12:39
Operator : RC/JU
Sample : Q2032-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-11

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

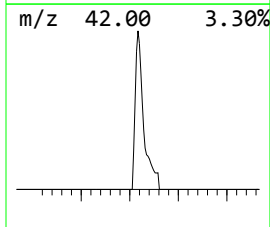
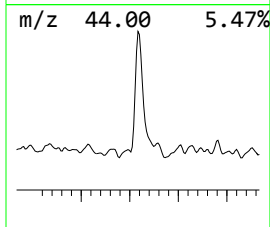
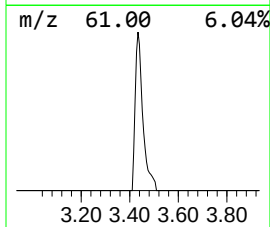
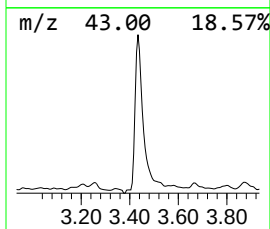
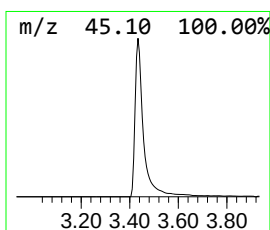
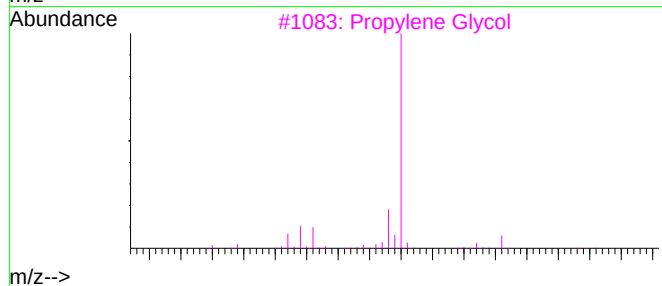
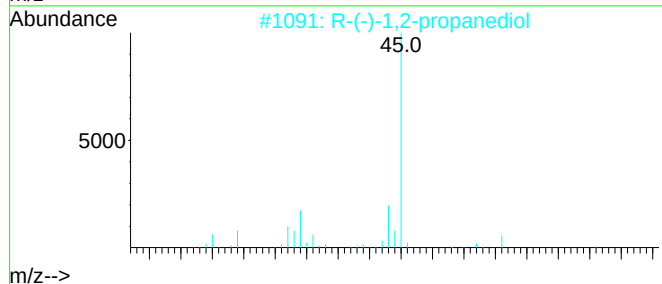
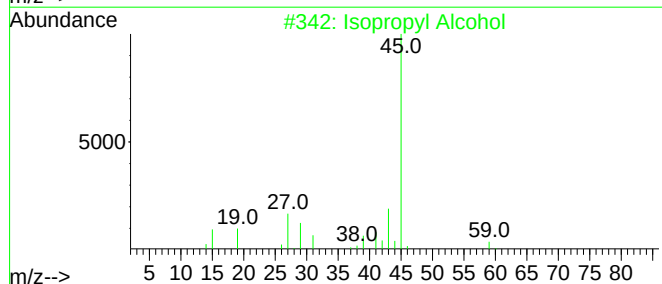
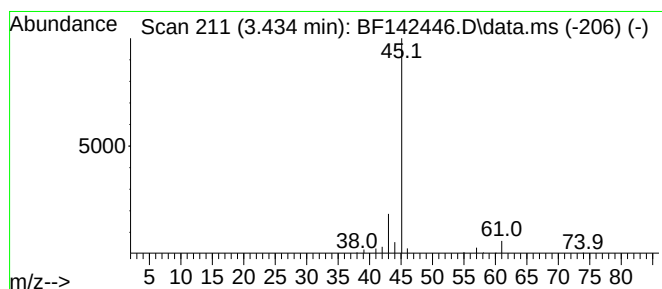
TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 1 Isopropyl Alcohol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.434	3.59 ng	157276	1,4-Dichlorobenzene-d4	6.904

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isopropyl Alcohol	60	C3H8O	000067-63-0	56
2	R-(-)-1,2-propanediol	76	C3H8O2	004254-14-2	43
3	Propylene Glycol	76	C3H8O2	000057-55-6	43
4	(S)-(+)-1,2-Propanediol	76	C3H8O2	004254-15-3	9
5	2-Butanol, 3-methyl-	88	C5H12O	000598-75-4	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142446.D
Acq On : 19 May 2025 12:39
Operator : RC/JU
Sample : Q2032-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-11

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

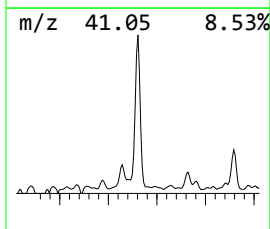
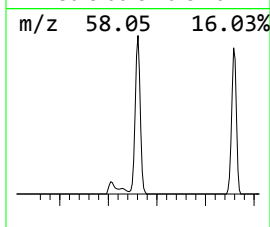
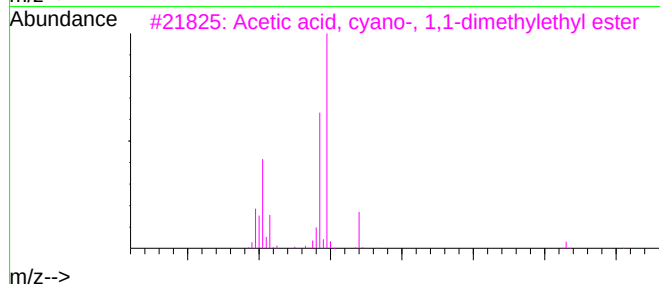
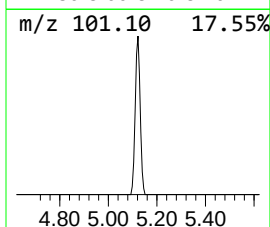
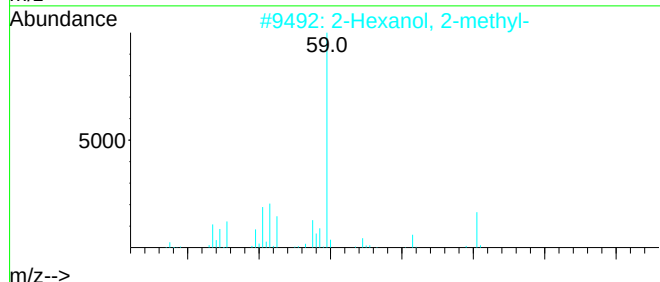
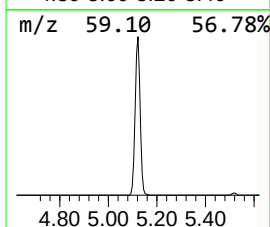
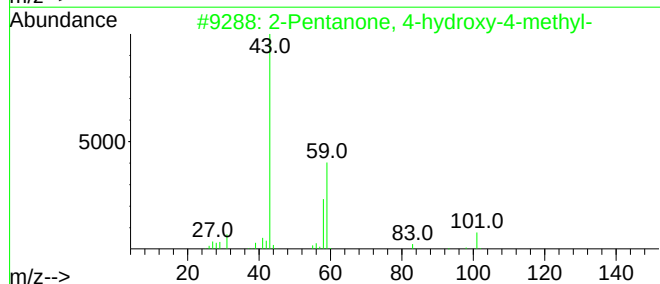
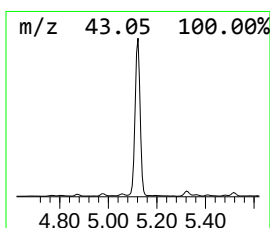
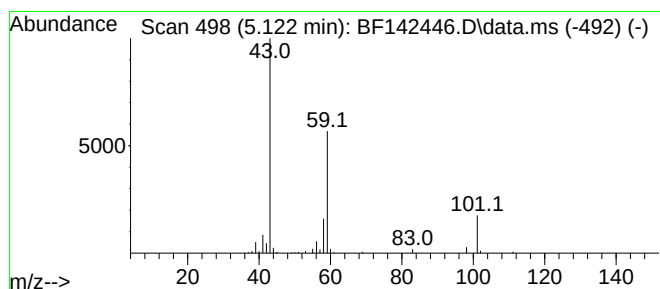
TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.122	5.48 ng	239926	1,4-Dichlorobenzene-d4	6.904

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2			2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28
3			Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
4			1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5			2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	10



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142446.D
Acq On : 19 May 2025 12:39
Operator : RC/JU
Sample : Q2032-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-11

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

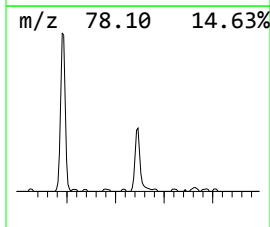
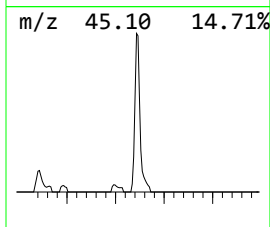
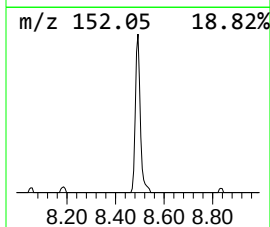
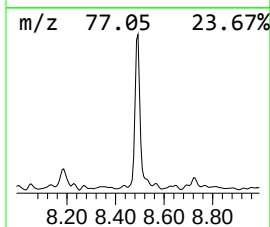
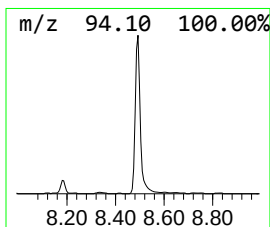
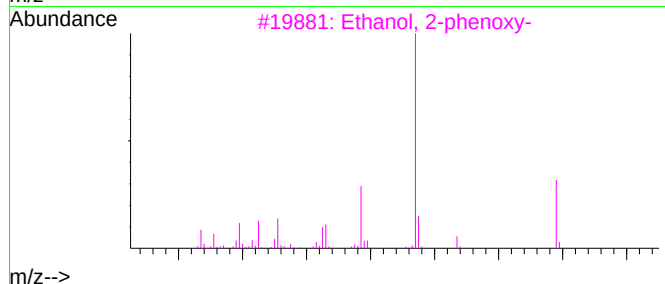
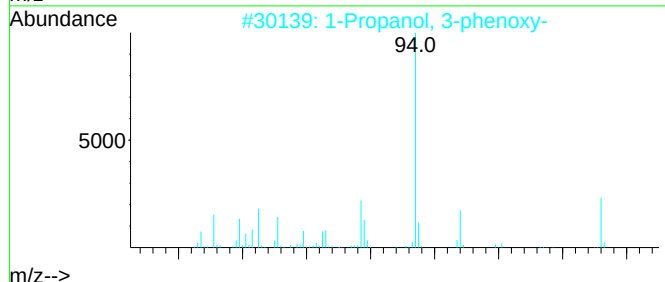
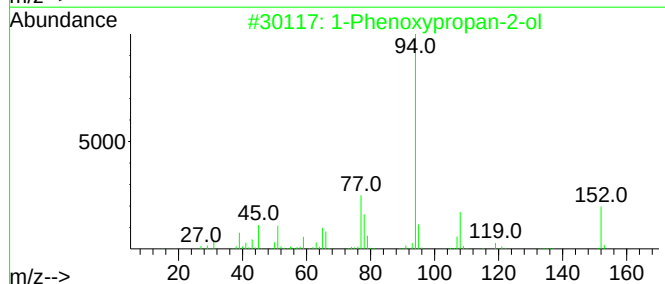
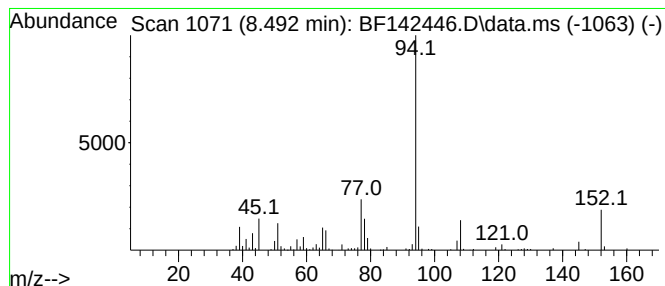
TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 3 1-Phenoxypropan-2-ol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.492	3.91 ng	222408	Naphthalene-d8	8.186

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Phenoxypropan-2-ol	152	C9H12O2	000770-35-4	97
2	1-Propanol, 3-phenoxy-	152	C9H12O2	006180-61-6	93
3	Ethanol, 2-phenoxy-	138	C8H10O2	000122-99-6	64
4	Carbonic acid, neopentyl phenyl ...	208	C12H16O3	013183-19-2	59
5	tert-Butyl phenyl carbonate	194	C11H14O3	006627-89-0	53



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142446.D
Acq On : 19 May 2025 12:39
Operator : RC/JU
Sample : Q2032-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-11

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

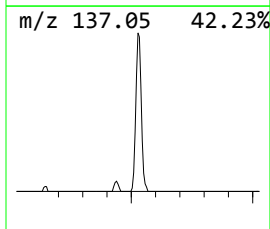
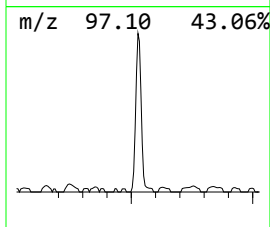
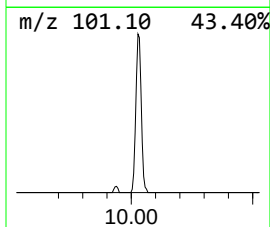
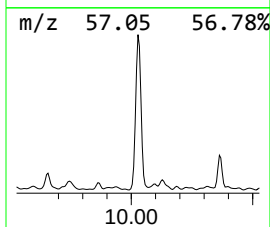
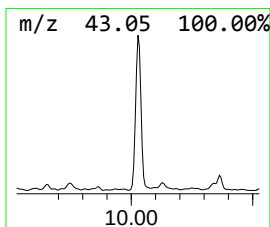
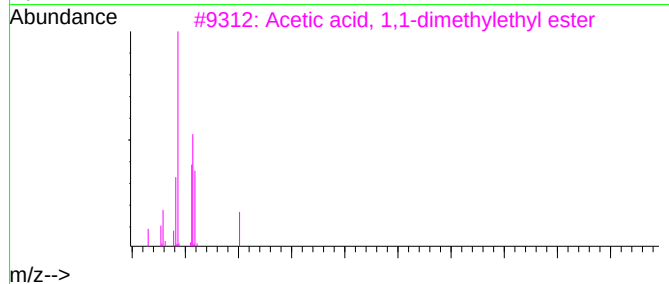
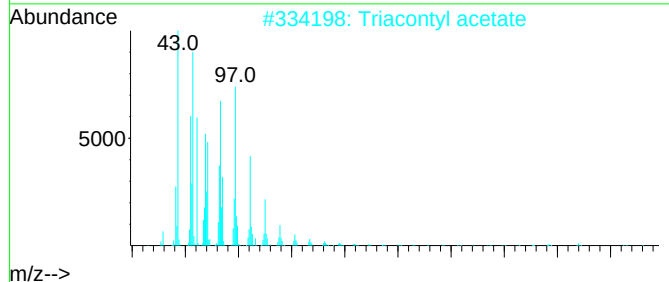
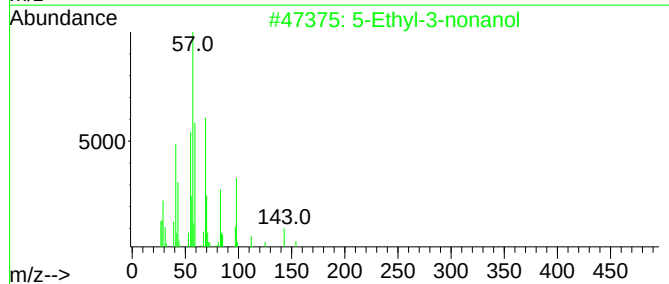
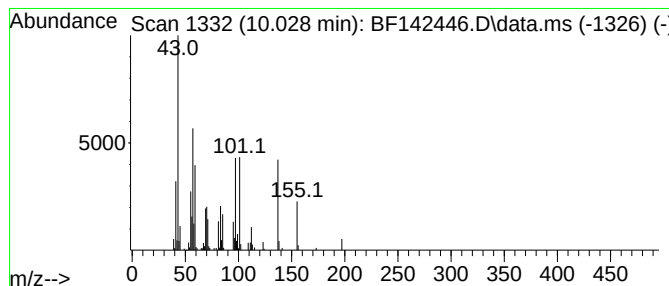
TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 4 unknown10.028 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.028	3.06 ng	191860	Acenaphthene-d10	9.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Ethyl-3-nonanol	172	C11H24O	019780-71-3	12
2	Triacetyl acetate	480	C32H64O2	041755-58-2	10
3	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	10
4	Pentanoic acid, 4,4-dimethyl-3-o...	158	C8H14O3	055107-14-7	10
5	Pent-4-enoyl amide, 2-methyl-N-p...	155	C9H17NO	1000420-35-2	10



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142446.D
Acq On : 19 May 2025 12:39
Operator : RC/JU
Sample : Q2032-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-11

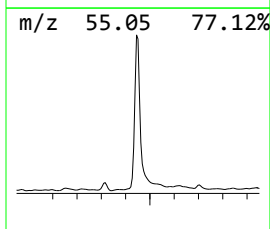
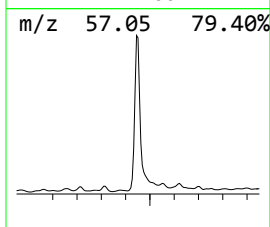
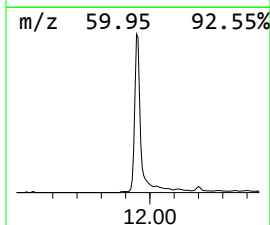
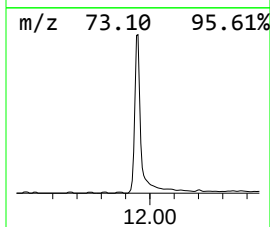
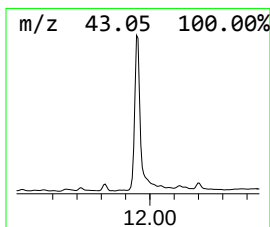
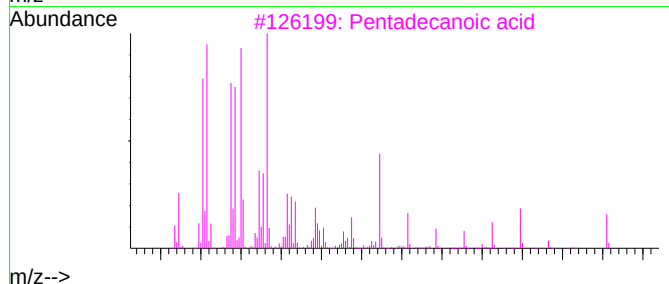
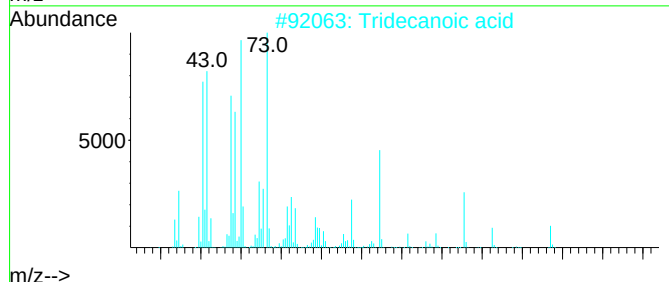
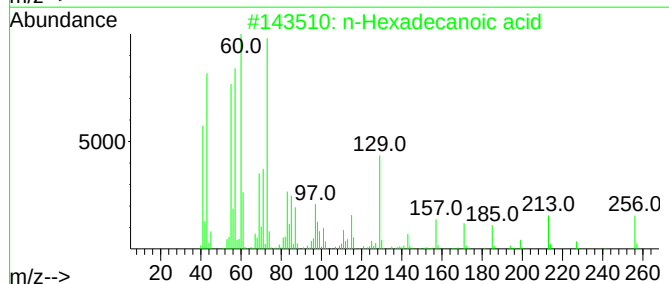
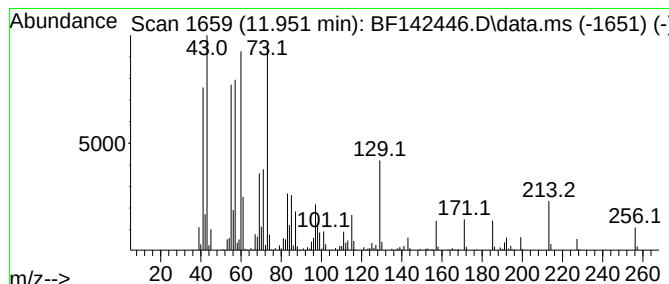
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 5 n-Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD		R.T.	
11.951	8.68 ng	582409	Phenanthrene-d10		11.427	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid		256	C16H32O2	000057-10-3	99
2	Tridecanoic acid		214	C13H26O2	000638-53-9	93
3	Pentadecanoic acid		242	C15H30O2	001002-84-2	91
4	Tetradecanoic acid		228	C14H28O2	000544-63-8	64
5	n-Decanoic acid		172	C10H20O2	000334-48-5	60



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142446.D
Acq On : 19 May 2025 12:39
Operator : RC/JU
Sample : Q2032-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

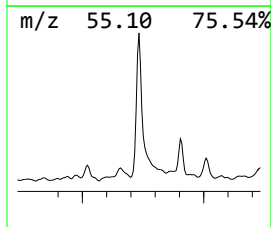
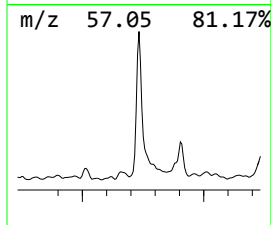
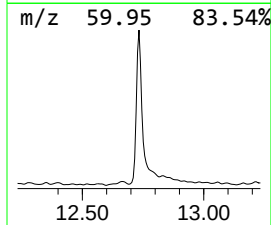
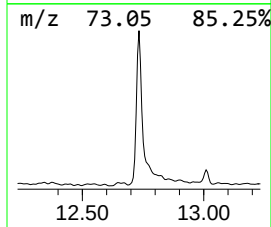
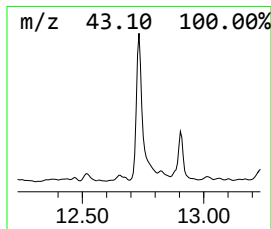
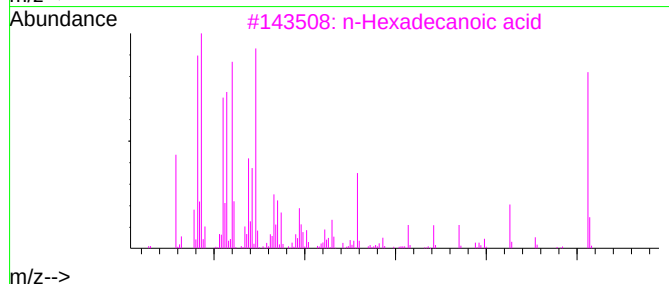
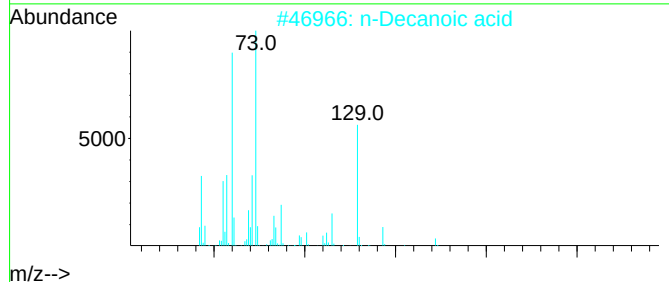
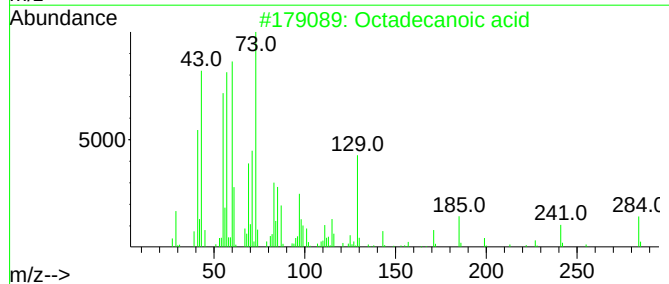
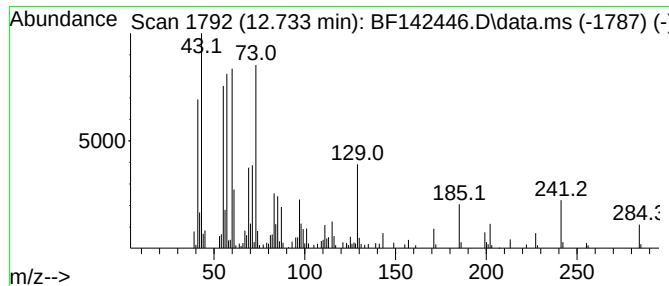
Instrument :
BNA_F
ClientSampleId :
TP-11

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

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

Peak Number 6 Octadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD		R.T.	
12.733	3.31 ng	221833	Phenanthrene-d10		11.427	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Octadecanoic acid		284	C18H36O2	000057-11-4	99
2	n-Decanoic acid		172	C10H20O2	000334-48-5	93
3	n-Hexadecanoic acid		256	C16H32O2	000057-10-3	93
4	Tetradecanoic acid		228	C14H28O2	000544-63-8	83
5	Pentadecanoic acid		242	C15H30O2	001002-84-2	64



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142446.D
Acq On : 19 May 2025 12:39
Operator : RC/JU
Sample : Q2032-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-11

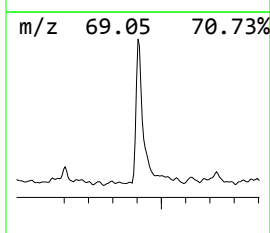
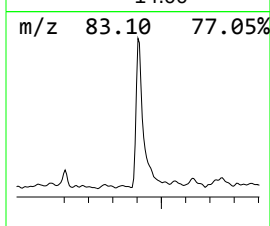
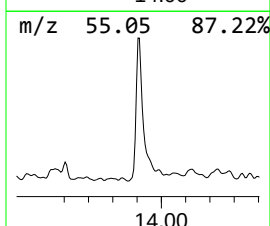
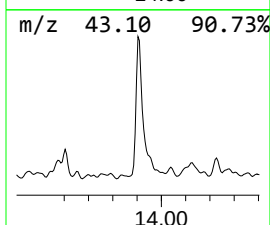
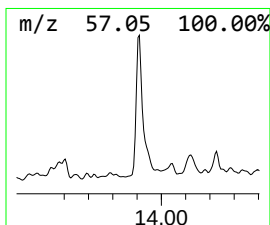
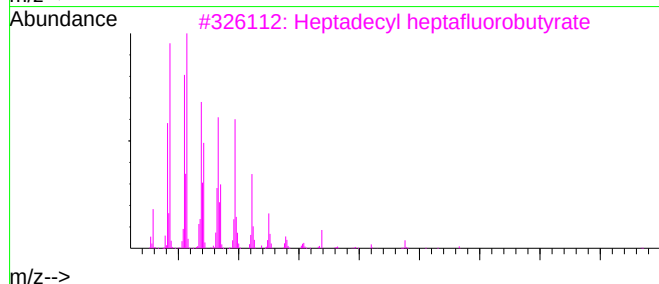
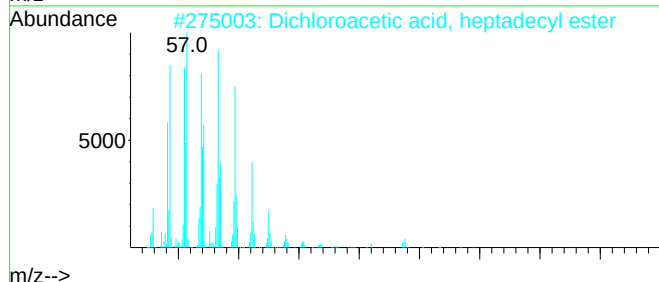
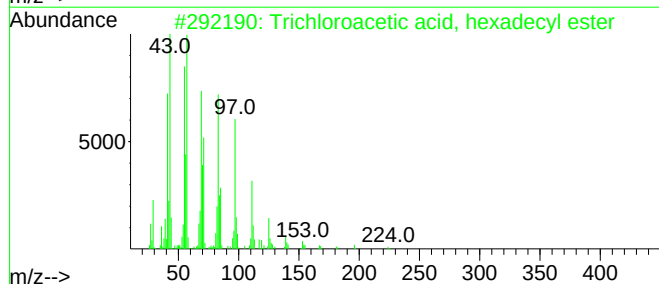
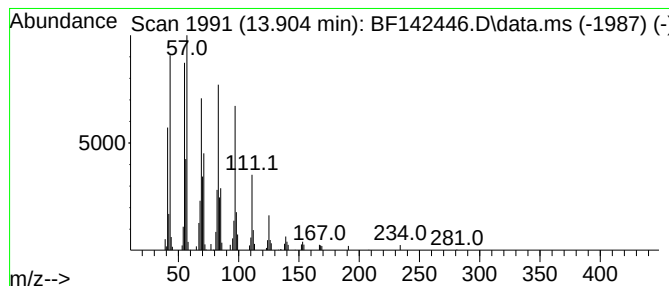
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 7 Trichloroacetic acid, hexad... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD		R.T.	
13.904	3.04 ng	136243	Chrysene-d12		14.063	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Trichloroacetic acid, hexadecyl ...		386	C18H33Cl3O2	074339-54-1	95
2	Dichloroacetic acid, heptadecyl ...		366	C19H36Cl2O2	1000282-98-2	95
3	Heptadecyl heptafluorobutyrate		452	C21H35F7O2	959085-66-6	94
4	1-Hexacosene		364	C26H52	018835-33-1	94
5	Heptafluorobutyric acid, pentade...		424	C19H31F7O2	959261-23-5	94



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142446.D
Acq On : 19 May 2025 12:39
Operator : RC/JU
Sample : Q2032-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-11

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

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Isopropyl Alcohol	3.434	3.6	ng	157276	1	6.904	874973	20.0
2-Pentanone, 4-...	5.122	5.5	ng	239926	1	6.904	874973	20.0
1-Phenoxypropan...	8.492	3.9	ng	222408	2	8.186	1137080	20.0
unknown10.028	10.028	3.1	ng	191860	3	9.939	1252700	20.0
n-Hexadecanoic ...	11.951	8.7	ng	582409	4	11.427	1341650	20.0
Octadecanoic acid	12.733	3.3	ng	221833	4	11.427	1341650	20.0
Trichloroacetic...	13.904	3.0	ng	136243	5	14.063	895423	20.0

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-29	SDG No.:	Q2032
Lab Sample ID:	Q2032-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.1
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Level :	LOW
		GPC Cleanup :	N
		PH :	
		Test:	SVOC-TCL BNA -20

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142447.D	1	05/16/25 10:00	05/19/25 13:08	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	380	ug/Kg
108-95-2	Phenol	25.6	U	25.6	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.2	U	28.2	200	ug/Kg
95-57-8	2-Chlorophenol	28.3	U	28.3	200	ug/Kg
95-48-7	2-Methylphenol	34.7	U	34.7	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.5	U	43.5	200	ug/Kg
98-86-2	Acetophenone	34.2	U	34.2	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.6	U	47.6	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	54.9	U	54.9	92.7	ug/Kg
67-72-1	Hexachloroethane	20.4	U	20.4	200	ug/Kg
98-95-3	Nitrobenzene	21.2	U	21.2	200	ug/Kg
78-59-1	Isophorone	38.0	U	38.0	200	ug/Kg
88-75-5	2-Nitrophenol	67.5	U	67.5	200	ug/Kg
105-67-9	2,4-Dimethylphenol	75.1	U	75.1	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.7	U	35.7	200	ug/Kg
120-83-2	2,4-Dichlorophenol	32.8	U	32.8	200	ug/Kg
91-20-3	Naphthalene	26.3	U	26.3	200	ug/Kg
106-47-8	4-Chloroaniline	41.0	U	41.0	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.3	U	29.3	200	ug/Kg
105-60-2	Caprolactam	60.4	UQ	60.4	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.3	U	33.3	200	ug/Kg
91-57-6	2-Methylnaphthalene	29.7	U	29.7	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	23.0	U	23.0	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.7	U	33.7	200	ug/Kg
92-52-4	1,1-Biphenyl	25.3	U	25.3	200	ug/Kg
91-58-7	2-Chloronaphthalene	26.1	U	26.1	200	ug/Kg
88-74-4	2-Nitroaniline	55.8	U	55.8	200	ug/Kg
131-11-3	Dimethylphthalate	31.4	U	31.4	200	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-29	SDG No.:	Q2032
Lab Sample ID:	Q2032-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.1
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Level :	LOW
		Test:	SVOC-TCL BNA -20
		Final Vol:	1000
		GPC Cleanup :	N
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142447.D	1	05/16/25 10:00	05/19/25 13:08	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.5	U	33.5	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.9	U	38.9	200	ug/Kg
99-09-2	3-Nitroaniline	53.3	U	53.3	200	ug/Kg
83-32-9	Acenaphthene	24.7	U	24.7	200	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	26.3	U	26.3	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	58.1	U	58.1	200	ug/Kg
84-66-2	Diethylphthalate	32.8	U	32.8	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.9	U	30.9	200	ug/Kg
86-73-7	Fluorene	29.3	U	29.3	200	ug/Kg
100-01-6	4-Nitroaniline	74.4	U	74.4	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	38.1	U	38.1	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.2	U	32.2	200	ug/Kg
118-74-1	Hexachlorobenzene	29.3	U	29.3	200	ug/Kg
1912-24-9	Atrazine	39.4	U	39.4	200	ug/Kg
87-86-5	Pentachlorophenol	59.5	U	59.5	380	ug/Kg
85-01-8	Phenanthrene	24.2	U	24.2	200	ug/Kg
120-12-7	Anthracene	38.6	U	38.6	200	ug/Kg
86-74-8	Carbazole	36.2	U	36.2	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.5	U	55.5	200	ug/Kg
206-44-0	Fluoranthene	34.8	U	34.8	200	ug/Kg
129-00-0	Pyrene	41.7	U	41.7	200	ug/Kg
85-68-7	Butylbenzylphthalate	82.8	U	82.8	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.5	U	42.5	380	ug/Kg
56-55-3	Benzo(a)anthracene	26.7	U	26.7	200	ug/Kg
218-01-9	Chrysene	23.1	U	23.1	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	68.6	U	68.6	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	22.0	U	22.0	200	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-29	SDG No.:	Q2032
Lab Sample ID:	Q2032-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.1
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142447.D	1	05/16/25 10:00	05/19/25 13:08	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	26.0	U	26.0	200	ug/Kg
50-32-8	Benzo(a)pyrene	34.2	U	34.2	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.7	U	33.7	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.8	U	31.8	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.8	U	29.8	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.7	U	29.7	200	ug/Kg
123-91-1	1,4-Dioxane	52.4	U	52.4	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.8	U	31.8	200	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	72.0		18 - 112	48%	SPK: 150
13127-88-3	Phenol-d6	72.9		15 - 107	49%	SPK: 150
4165-60-0	Nitrobenzene-d5	47.6		18 - 107	48%	SPK: 100
321-60-8	2-Fluorobiphenyl	41.5		20 - 109	42%	SPK: 100
118-79-6	2,4,6-Tribromophenol	82.5		10 - 116	55%	SPK: 150
1718-51-0	Terphenyl-d14	43.7		10 - 105	44%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	142000	6.904
1146-65-2	Naphthalene-d8	553000	8.186
15067-26-2	Acenaphthene-d10	298000	9.939
1517-22-2	Phenanthrene-d10	494000	11.427
1719-03-5	Chrysene-d12	264000	14.068
1520-96-3	Perylene-d12	297000	15.557

TENTATIVE IDENTIFIED COMPOUNDS

004254-15-3	(S)-(+)-1,2-Propanediol	88.1	J	3.43	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB	5.12	ug/Kg
000770-35-4	1-Phenoxypropan-2-ol	98.5	J	8.49	ug/Kg
	unknown10.033	2100	J	10.0	ug/Kg
000057-10-3	n-Hexadecanoic acid	130	J	11.9	ug/Kg
015594-90-8	1-Heneicosanol	98.5	J	13.9	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-29	SDG No.:	Q2032
Lab Sample ID:	Q2032-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.1
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	SVOC-TCL BNA -20
	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	1.0	GPC Cleanup : N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142447.D	1	05/16/25 10:00	05/19/25 13:08	PB168041

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142447.D
Acq On : 19 May 2025 13:08
Operator : RC/JU
Sample : Q2032-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-29

Quant Time: May 19 13:43:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	142420	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	552520	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	298328	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	493987	20.000	ng	0.00
76) Chrysene-d12	14.068	240	263579	20.000	ng	0.00
86) Perylene-d12	15.557	264	296604	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	601055	72.044	ng	0.00
7) Phenol-d6	6.522	99	747693	72.866	ng	0.00
23) Nitrobenzene-d5	7.457	82	431671	47.648	ng	-0.01
42) 2,4,6-Tribromophenol	10.727	330	237694	82.524	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	869008	41.535	ng	0.00
79) Terphenyl-d14	13.010	244	777869	43.681	ng	0.00

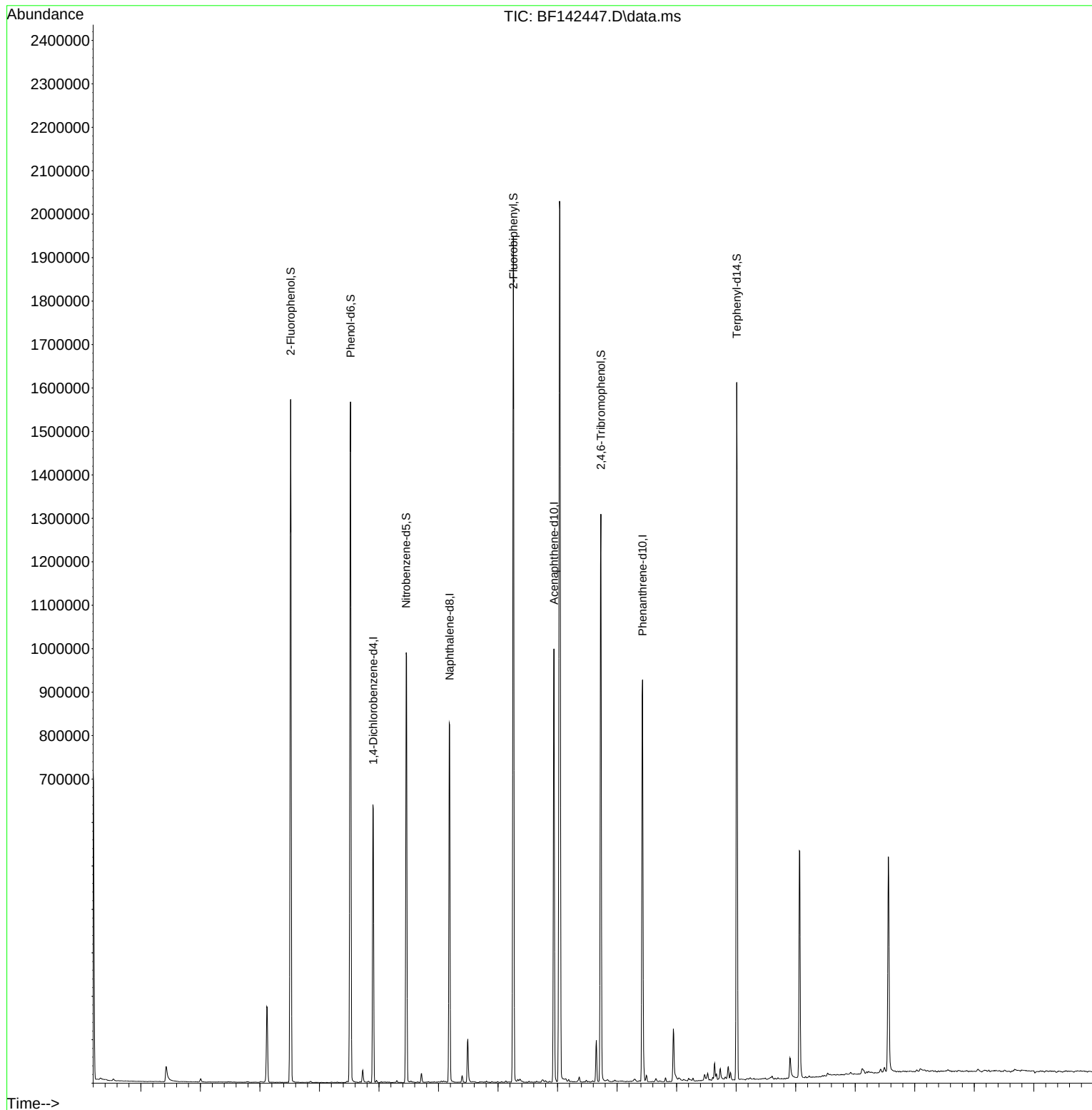
Target Compounds Qvalue

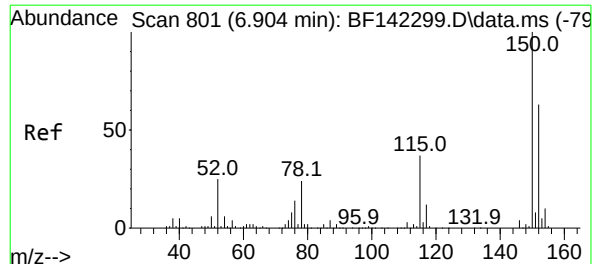
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142447.D
Acq On : 19 May 2025 13:08
Operator : RC/JU
Sample : Q2032-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-29

Quant Time: May 19 13:43:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.904 min Scan# 801

Delta R.T. 0.000 min

Lab File: BF142447.D

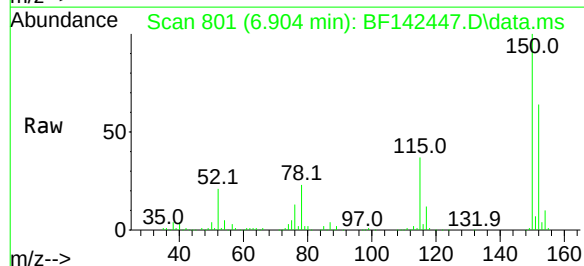
Acq: 19 May 2025 13:08

Instrument :

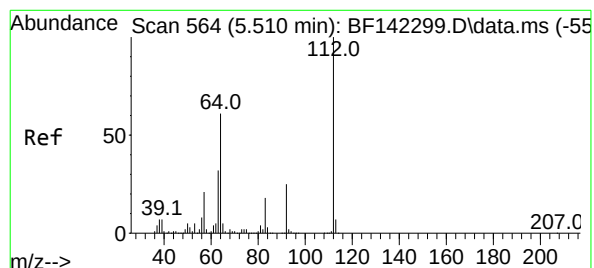
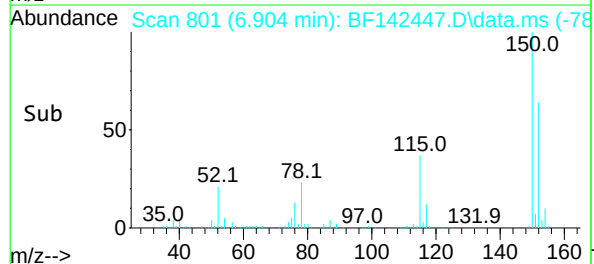
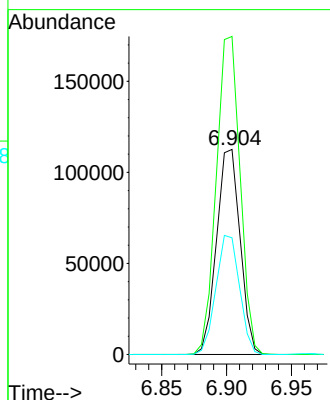
BNA_F

ClientSampleId :

TP-29



Tgt Ion:	152	Resp:	142420
Ion	Ratio	Lower	Upper
152	100		
150	155.1	126.6	190.0
115	56.9	47.3	70.9



#5

2-Fluorophenol

Concen: 72.044 ng

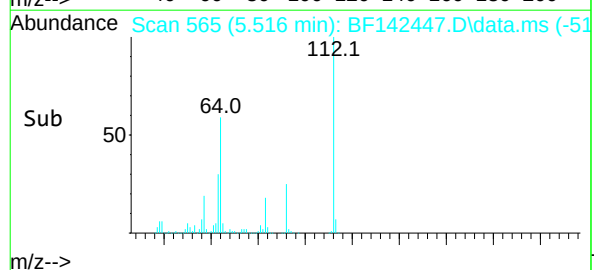
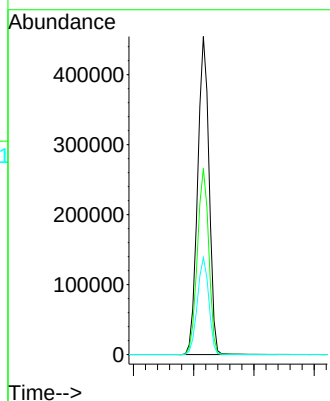
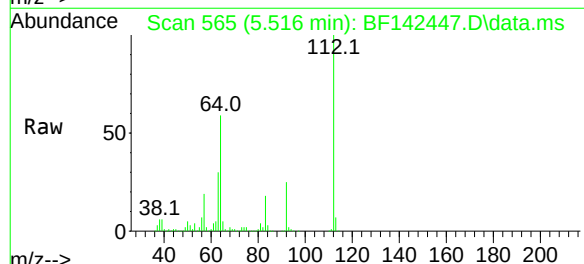
RT: 5.516 min Scan# 565

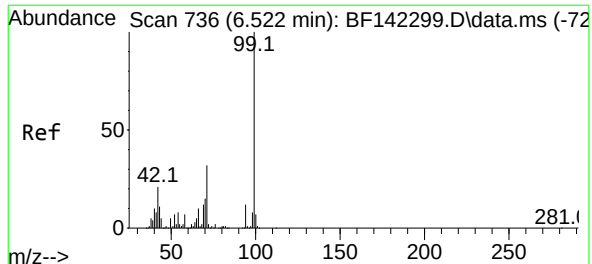
Delta R.T. 0.006 min

Lab File: BF142447.D

Acq: 19 May 2025 13:08

Tgt Ion:	112	Resp:	601055
Ion	Ratio	Lower	Upper
112	100		
64	58.5	48.9	73.3
63	30.5	25.6	38.4





#7

Phenol-d6

Concen: 72.866 ng

RT: 6.522 min Scan# 736

Delta R.T. -0.000 min

Lab File: BF142447.D

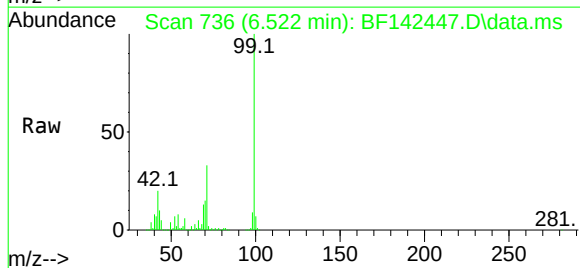
Acq: 19 May 2025 13:08

Instrument :

BNA_F

ClientSampleId :

TP-29



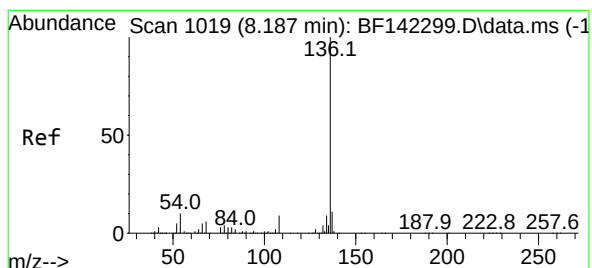
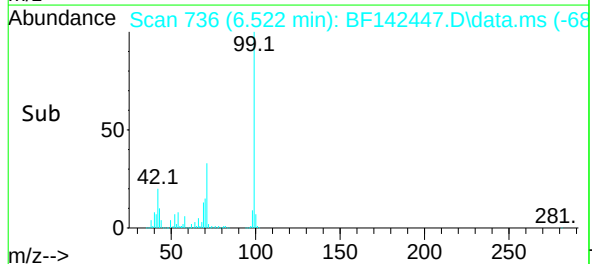
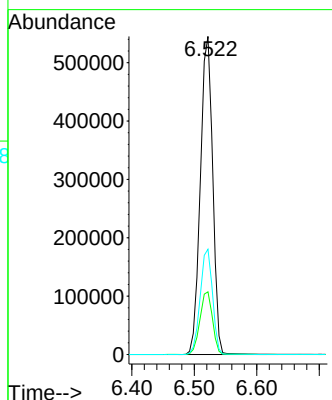
Tgt Ion: 99 Resp: 747693

Ion	Ratio	Lower	Upper

99	100		

42	19.7	17.0	25.4

71	33.1	25.8	38.8



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.186 min Scan# 1019

Delta R.T. -0.000 min

Lab File: BF142447.D

Acq: 19 May 2025 13:08

Tgt Ion: 136 Resp: 552520

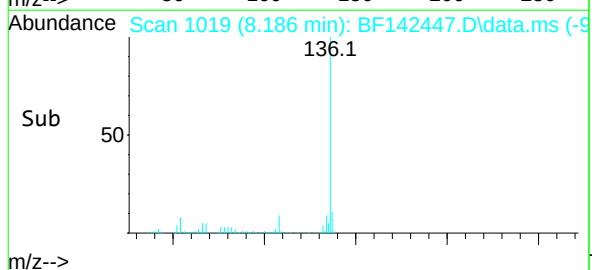
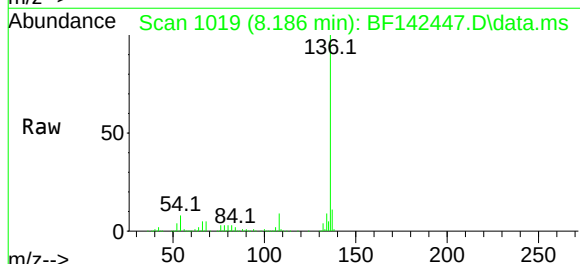
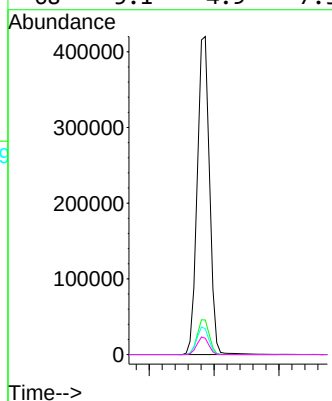
Ion	Ratio	Lower	Upper

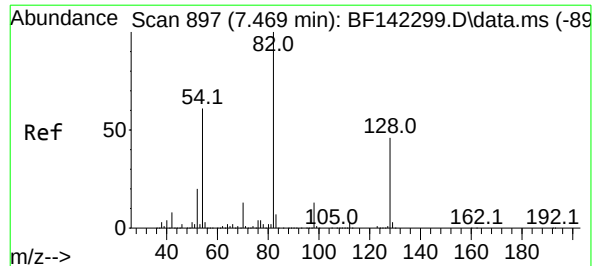
136	100		

137	10.9	8.9	13.3

54	8.1	7.7	11.5

68	5.1	4.9	7.3





#23

Nitrobenzene-d5

Concen: 47.648 ng

RT: 7.457 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF142447.D

Acq: 19 May 2025 13:08

Instrument :

BNA_F

ClientSampleId :

TP-29

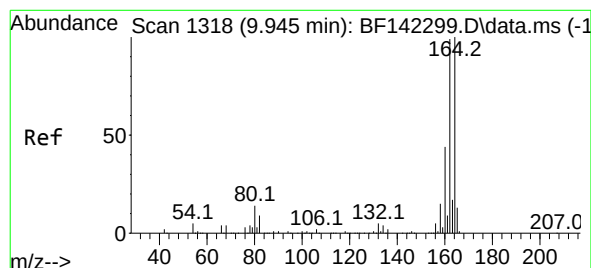
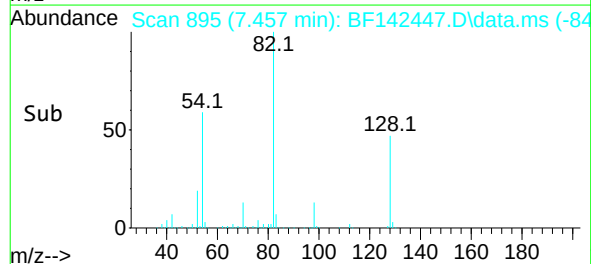
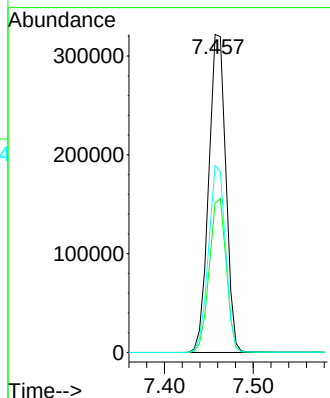
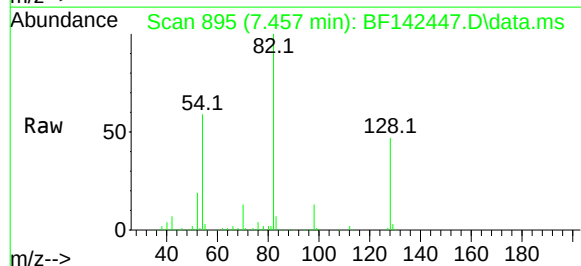
Tgt Ion: 82 Resp: 431671

Ion Ratio Lower Upper

82 100

128 47.0 37.0 55.6

54 58.7 48.6 73.0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.939 min Scan# 1317

Delta R.T. -0.006 min

Lab File: BF142447.D

Acq: 19 May 2025 13:08

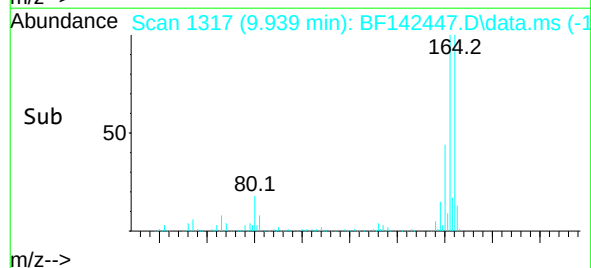
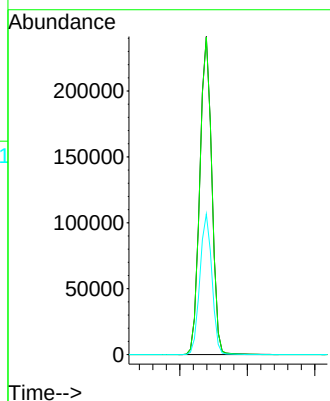
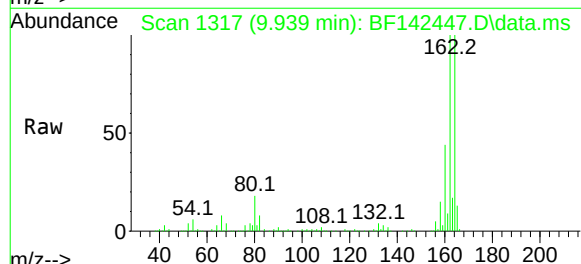
Tgt Ion: 164 Resp: 298328

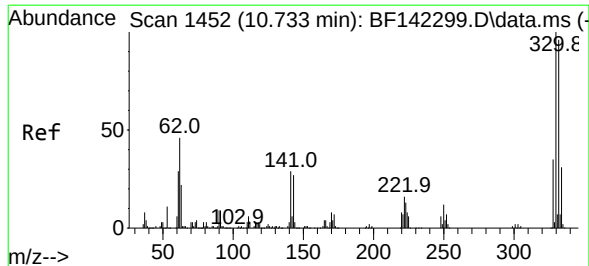
Ion Ratio Lower Upper

164 100

162 99.8 79.2 118.8

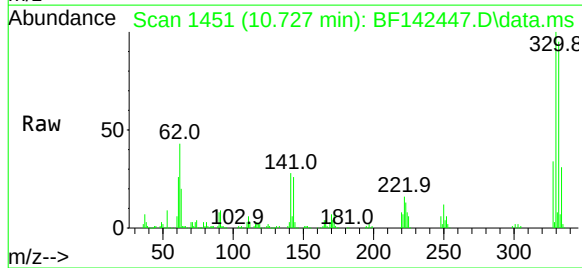
160 44.2 35.3 52.9



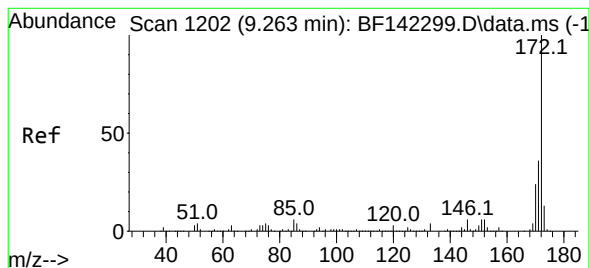
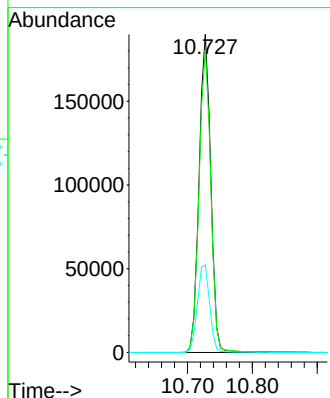
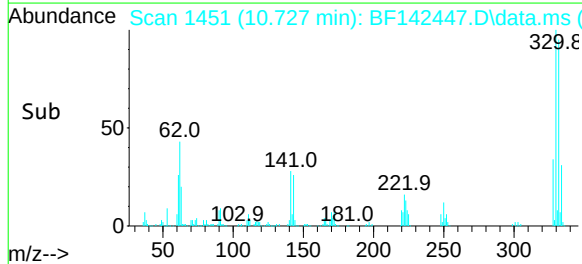


#42
2,4,6-Tribromophenol
Concen: 82.524 ng
RT: 10.727 min Scan# 1451
Delta R.T. -0.006 min
Lab File: BF142447.D
Acq: 19 May 2025 13:08

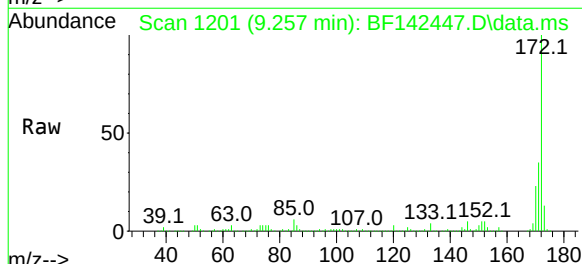
Instrument :
BNA_F
ClientSampleId :
TP-29



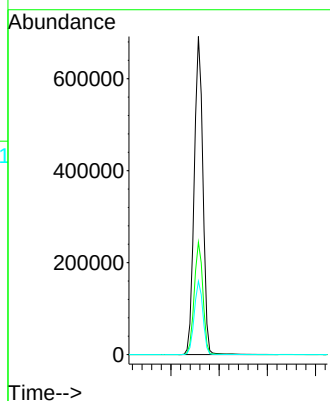
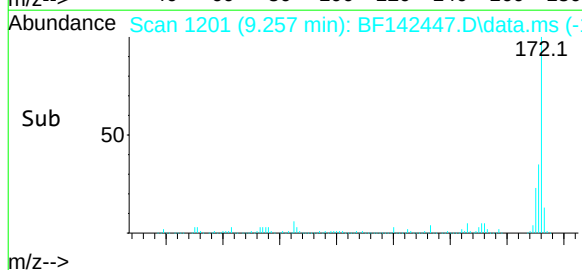
Tgt Ion: 330 Resp: 237694
Ion Ratio Lower Upper
330 100
332 95.6 76.8 115.2
141 29.1 24.9 37.3

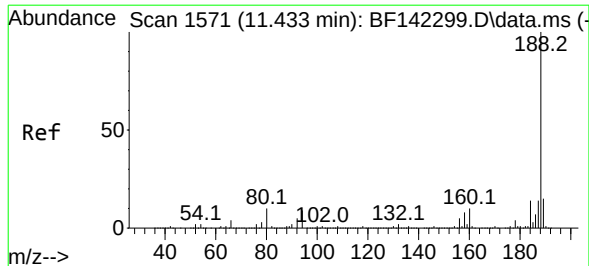


#45
2-Fluorobiphenyl
Concen: 41.535 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.006 min
Lab File: BF142447.D
Acq: 19 May 2025 13:08



Tgt Ion: 172 Resp: 869008
Ion Ratio Lower Upper
172 100
171 35.3 28.6 42.8
170 23.1 19.0 28.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.427 min Scan# 1571

Delta R.T. -0.006 min

Lab File: BF142447.D

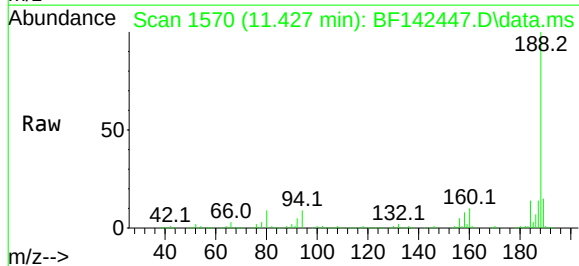
Acq: 19 May 2025 13:08

Instrument :

BNA_F

ClientSampleId :

TP-29



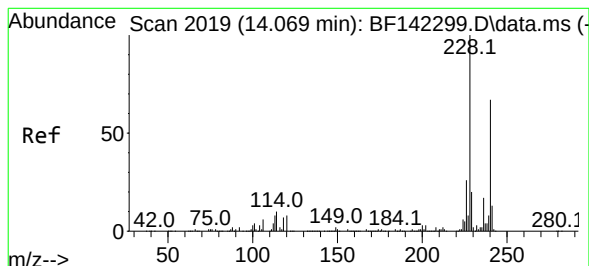
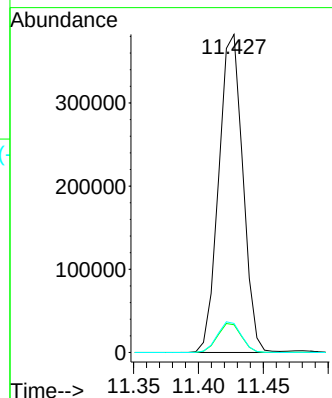
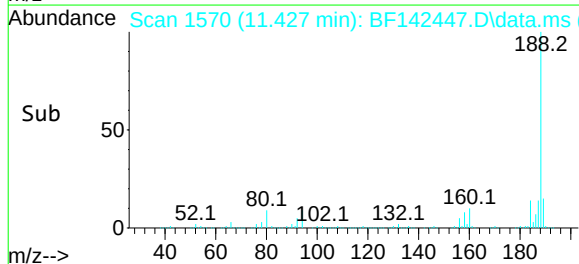
Tgt Ion:188 Resp: 493987

Ion Ratio Lower Upper

188 100

94 8.7 7.5 11.3

80 9.1 7.9 11.9



#76

Chrysene-d12

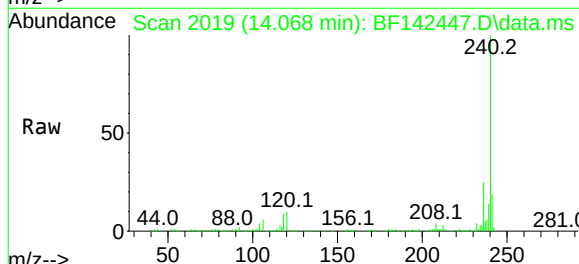
Concen: 20.000 ng

RT: 14.068 min Scan# 2019

Delta R.T. -0.000 min

Lab File: BF142447.D

Acq: 19 May 2025 13:08



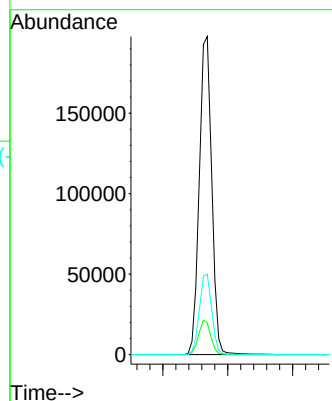
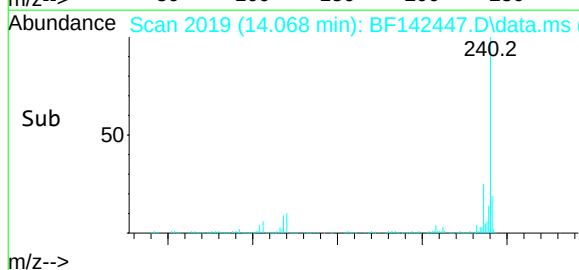
Tgt Ion:240 Resp: 263579

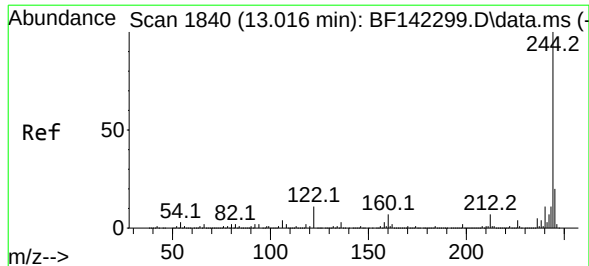
Ion Ratio Lower Upper

240 100

120 9.9 9.7 14.5

236 25.3 20.0 30.0





#79

Terphenyl-d14

Concen: 43.681 ng

RT: 13.010 min Scan# 18

Delta R.T. -0.006 min

Lab File: BF142447.D

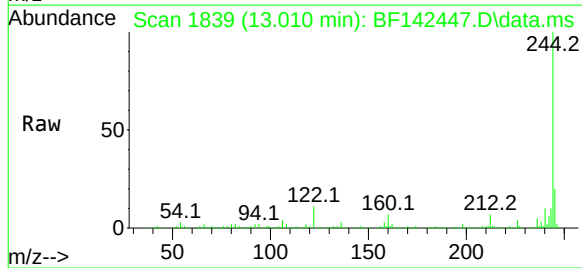
Acq: 19 May 2025 13:08

Instrument :

BNA_F

ClientSampleId :

TP-29



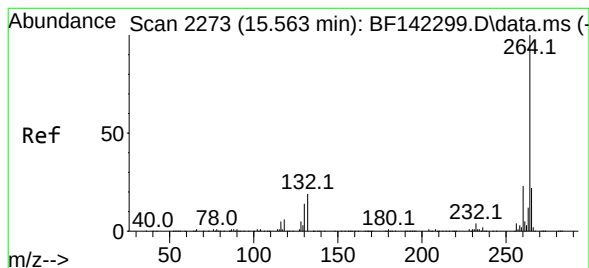
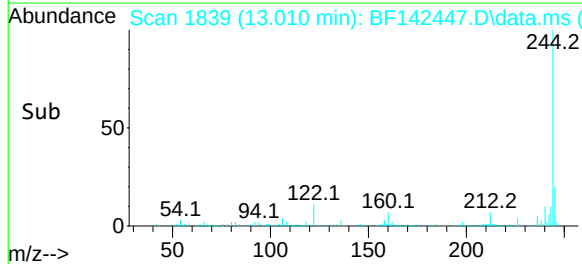
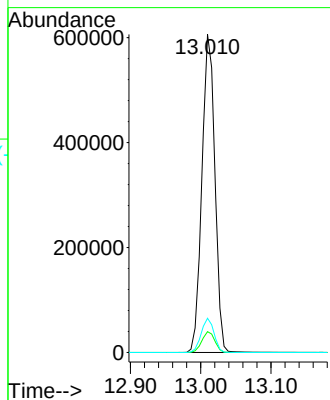
Tgt Ion:244 Resp: 777869

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.2

122 10.8 9.0 13.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.557 min Scan# 2272

Delta R.T. -0.006 min

Lab File: BF142447.D

Acq: 19 May 2025 13:08

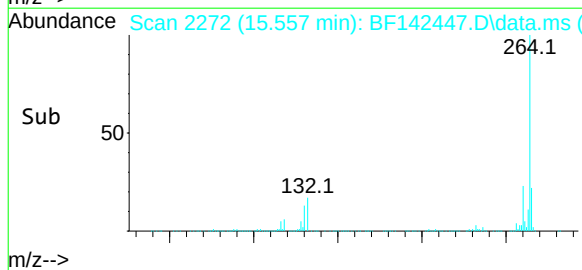
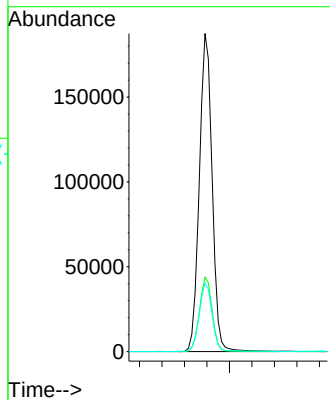
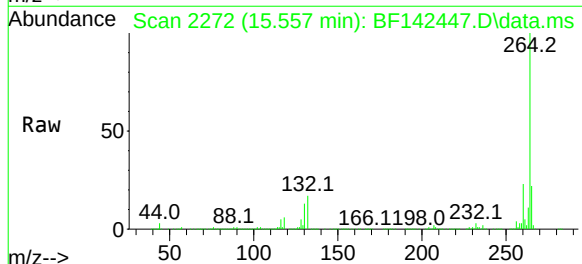
Tgt Ion:264 Resp: 296604

Ion Ratio Lower Upper

264 100

260 23.4 18.6 27.8

265 21.6 17.5 26.3



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
 Data File : BF142447.D
 Acq On : 19 May 2025 13:08
 Operator : RC/JU
 Sample : Q2032-02
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-29

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0
 Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

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

Signal : TIC: BF142447.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.428	205	210	229	rBV	35009	92699	2.79%	0.422%
2	5.116	488	497	505	rVB	173970	262310	7.89%	1.194%
3	5.516	559	565	570	rBV	1571774	2067053	62.20%	9.407%
4	6.522	729	736	741	rBV	1565290	2151527	64.75%	9.792%
5	6.728	766	771	781	rBV	27674	39277	1.18%	0.179%
6	6.898	795	800	806	rBV	639206	813456	24.48%	3.702%
7	7.457	889	895	901	rBV	989114	1327575	39.95%	6.042%
8	8.181	1013	1018	1034	rBV	826612	1089019	32.77%	4.956%
9	8.492	1066	1071	1081	rBV	99389	138896	4.18%	0.632%
10	9.257	1195	1201	1206	rBV	1946870	2420254	72.83%	11.015%
11	9.939	1311	1317	1322	rBV	997364	1232441	37.09%	5.609%
12	10.033	1326	1333	1339	rBV	2026504	3322973	100.00%	15.123%
13	10.651	1432	1438	1444	rBV	95240	119524	3.60%	0.544%
14	10.727	1445	1451	1463	rBV	1306003	1687714	50.79%	7.681%
15	11.427	1564	1570	1577	rBV	924193	1233736	37.13%	5.615%
16	11.945	1651	1658	1671	rBV2	121377	205879	6.20%	0.937%
17	12.639	1772	1776	1779	rBV	34714	41320	1.24%	0.188%
18	12.733	1784	1792	1800	rBV2	24909	41530	1.25%	0.189%
19	12.868	1810	1815	1818	rBV	27574	39822	1.20%	0.181%
20	13.010	1833	1839	1844	rBV	1605914	2043985	61.51%	9.302%
21	13.904	1986	1991	2007	rBV	46881	92637	2.79%	0.422%
22	14.063	2013	2018	2029	rVB	522216	725271	21.83%	3.301%
23	15.557	2266	2272	2289	rBV	493804	783612	23.58%	3.566%

Sum of corrected areas: 21972510

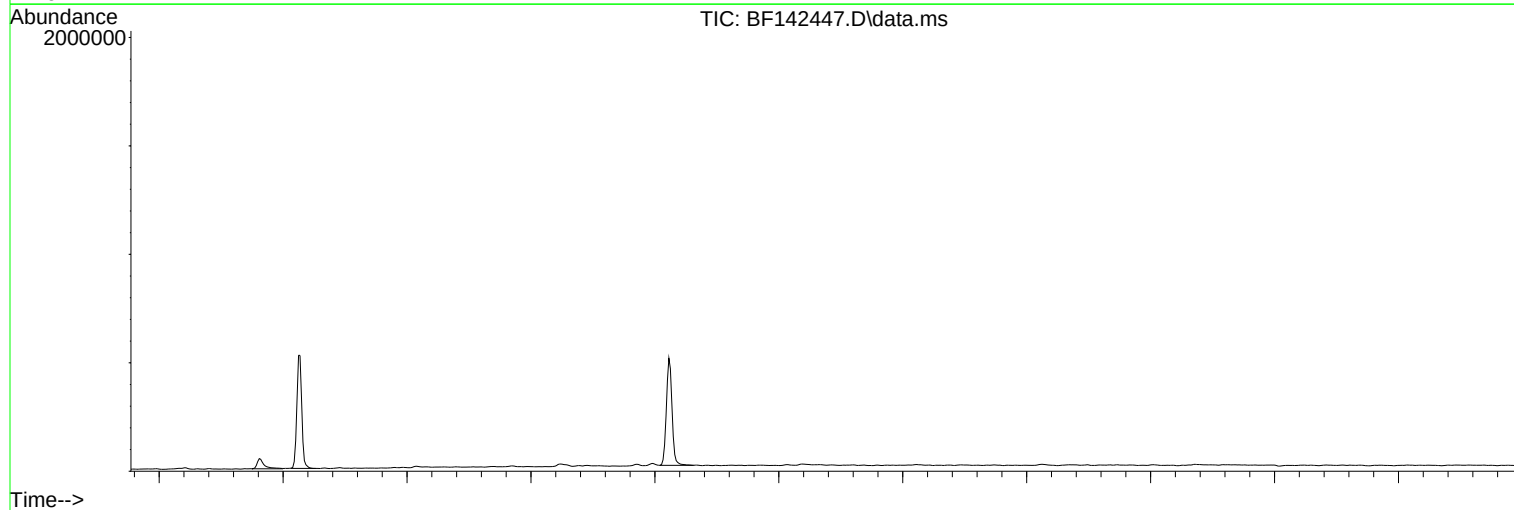
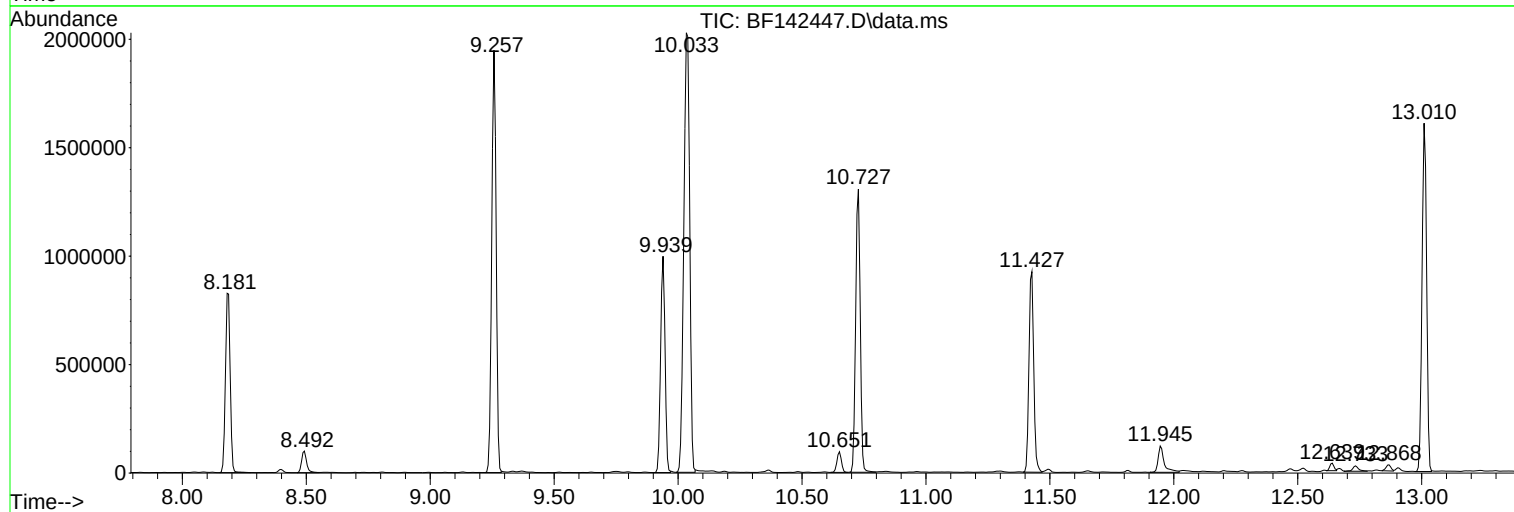
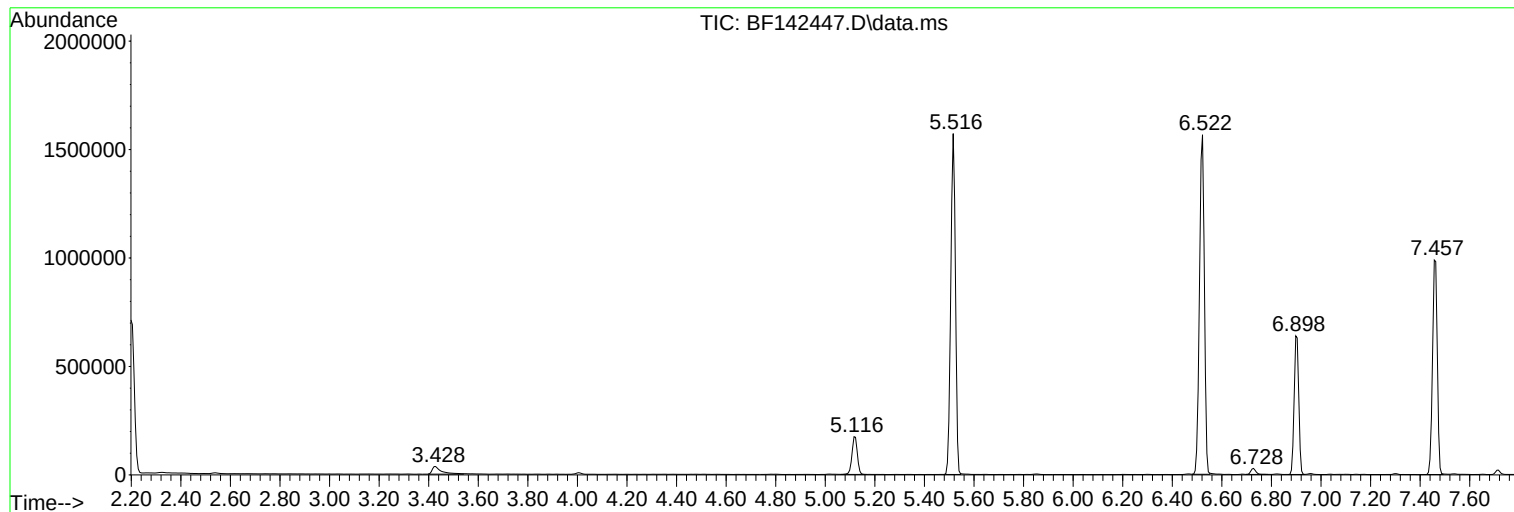
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Data File : BF142447.D
Acq On : 19 May 2025 13:08
Operator : RC/JU
Sample : Q2032-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-29

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

TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142447.D
Acq On : 19 May 2025 13:08
Operator : RC/JU
Sample : Q2032-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

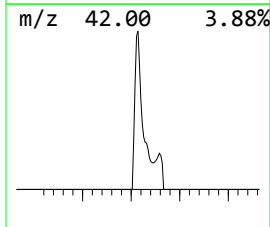
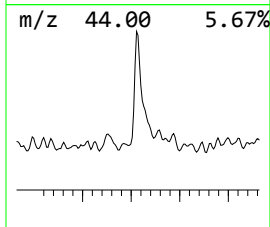
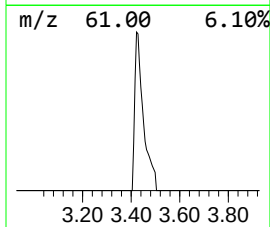
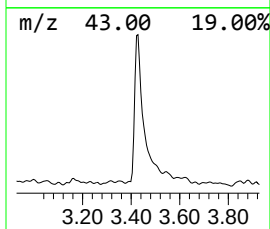
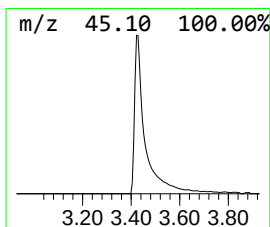
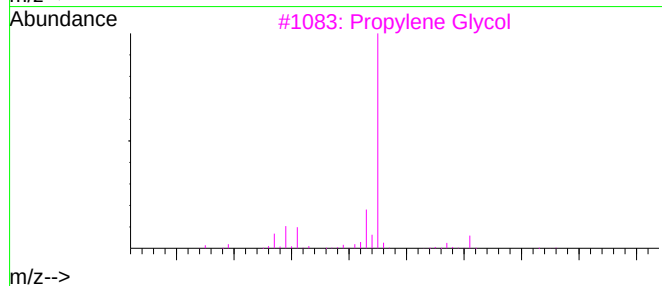
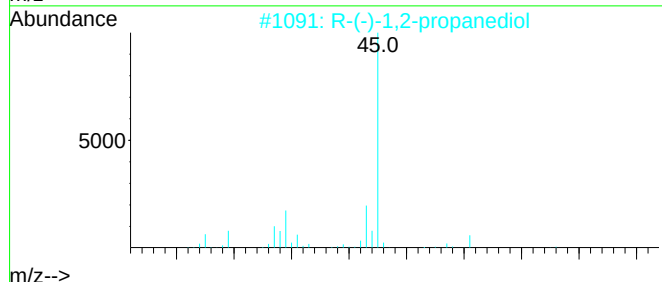
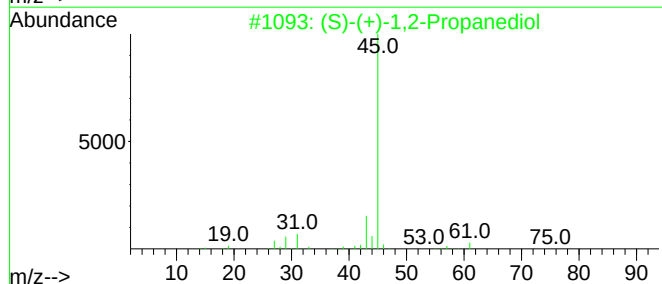
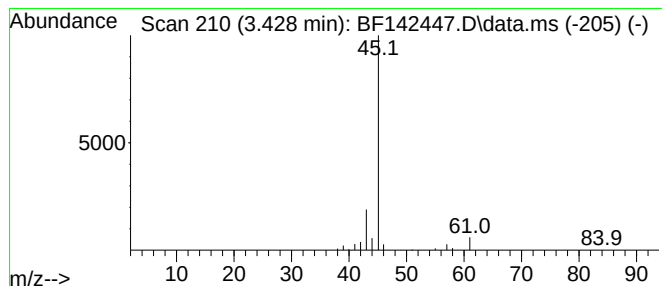
Instrument :
BNA_F
ClientSampleId :
TP-29

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

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

Peak Number 1 (S)-(+)-1,2-Propanediol Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.	
3.428	2.28 ng	92699	1,4-Dichlorobenzene-d4	6.904	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(S)-(+)-1,2-Propanediol	76	C3H8O2	004254-15-3	64
2	R-(-)-1,2-propanediol	76	C3H8O2	004254-14-2	43
3	Propylene Glycol	76	C3H8O2	000057-55-6	9
4	Isopropyl Alcohol	60	C3H8O	000067-63-0	9
5	Formamide	45	CH3NO	000075-12-7	7



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142447.D
Acq On : 19 May 2025 13:08
Operator : RC/JU
Sample : Q2032-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-29

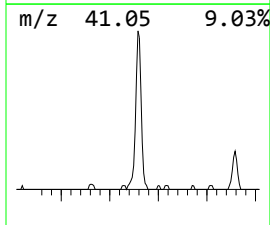
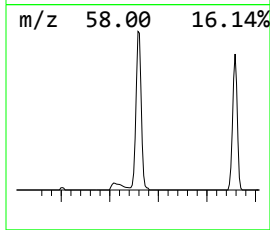
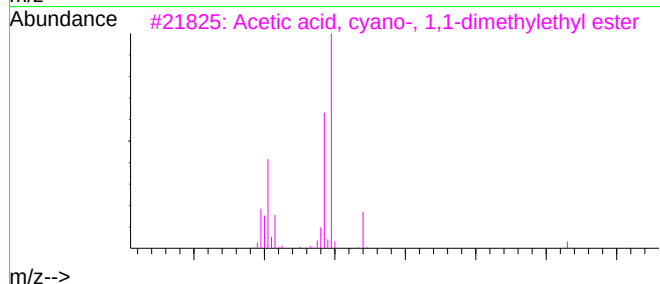
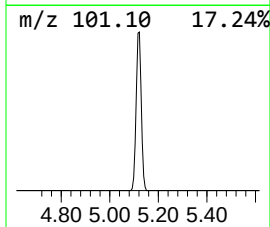
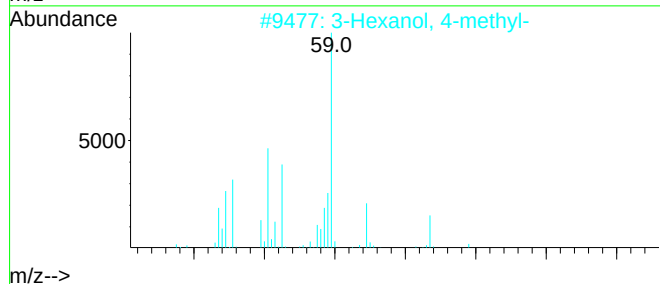
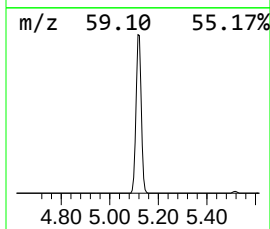
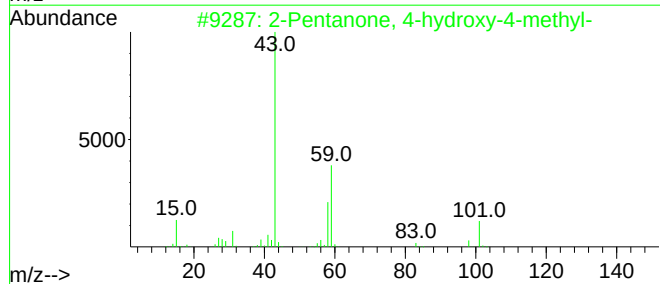
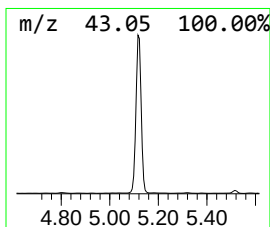
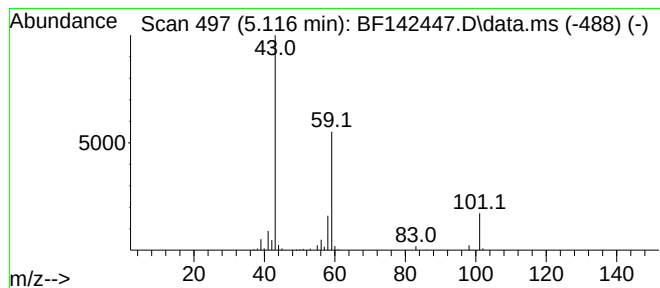
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	6.45 ng	262310	1,4-Dichlorobenzene-d4	6.904

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142447.D
Acq On : 19 May 2025 13:08
Operator : RC/JU
Sample : Q2032-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-29

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

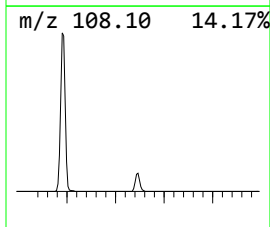
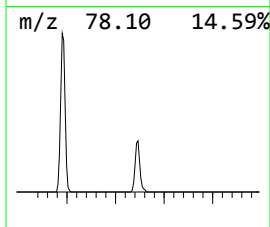
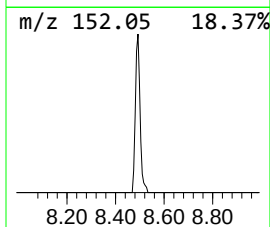
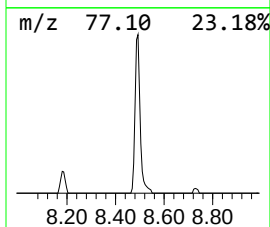
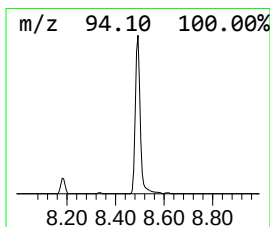
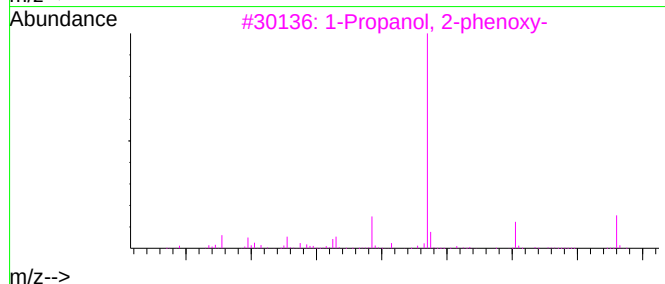
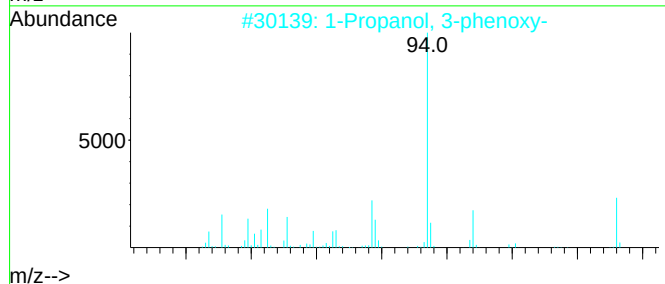
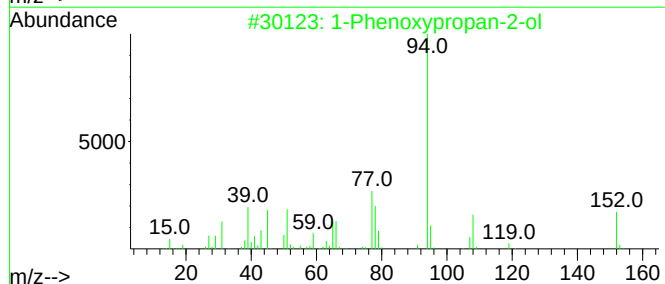
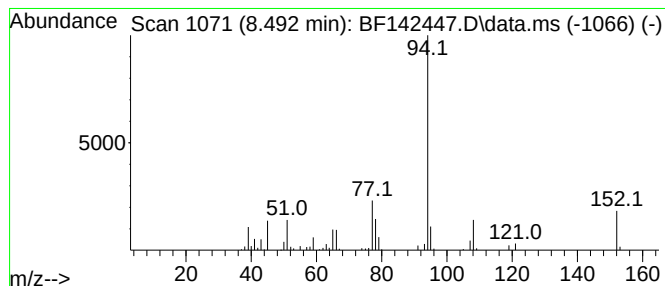
TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 3 1-Phenoxypropan-2-ol Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.492	2.55 ng	138896	Naphthalene-d8	8.186

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Phenoxypropan-2-ol	152	C9H12O2	000770-35-4	96
2	1-Propanol, 3-phenoxy-	152	C9H12O2	006180-61-6	91
3	1-Propanol, 2-phenoxy-	152	C9H12O2	004169-04-4	64
4	Ethanol, 2-phenoxy-	138	C8H10O2	000122-99-6	64
5	Carbonic acid, neopentyl phenyl ...	208	C12H16O3	013183-19-2	59



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142447.D
Acq On : 19 May 2025 13:08
Operator : RC/JU
Sample : Q2032-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-29

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

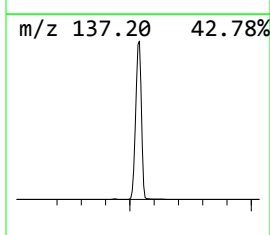
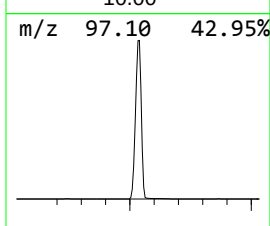
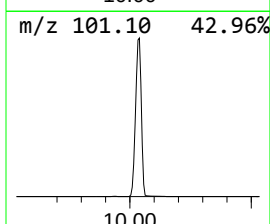
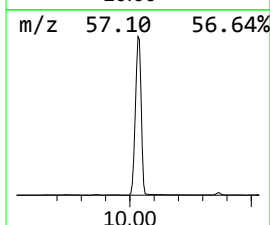
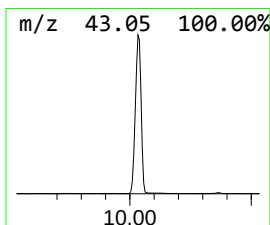
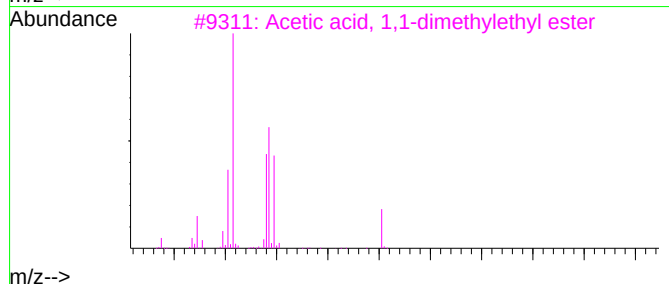
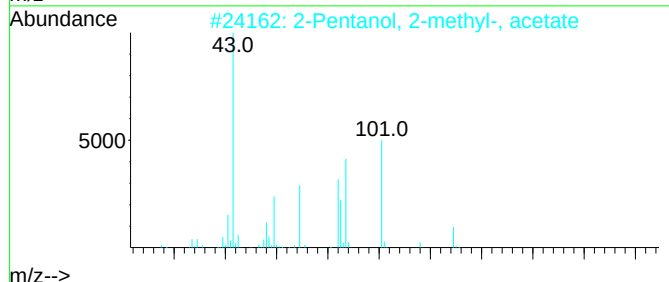
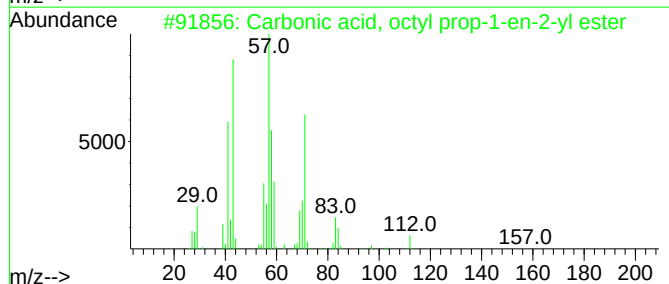
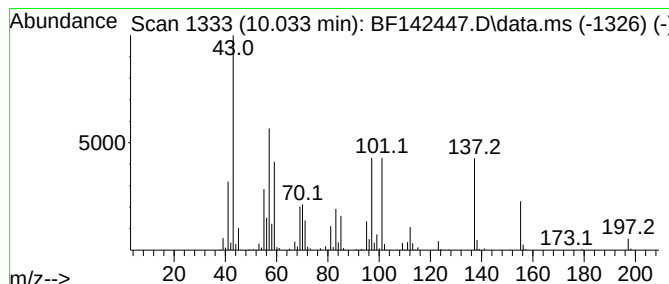
TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 4 unknown10.033 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.033	53.93 ng	3322970	Acenaphthene-d10	9.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonic acid, octyl prop-1-en-2...	214	C12H22O3	1000382-54-0	12
2	2-Pentanol, 2-methyl-, acetate	144	C8H16O2	034859-98-8	10
3	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	10
4	6,10,14-Trimethyl-pentadecan-2-ol	270	C18H38O	069729-17-5	10
5	11-Tricosene	322	C23H46	052078-56-5	10



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142447.D
Acq On : 19 May 2025 13:08
Operator : RC/JU
Sample : Q2032-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-29

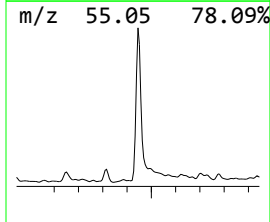
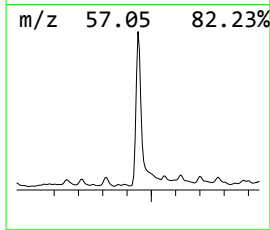
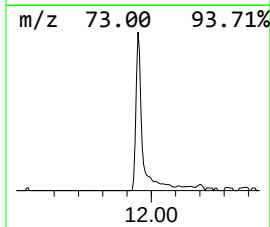
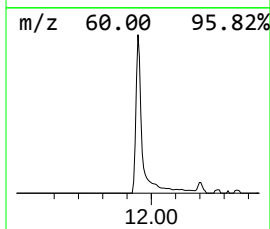
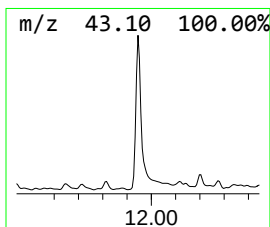
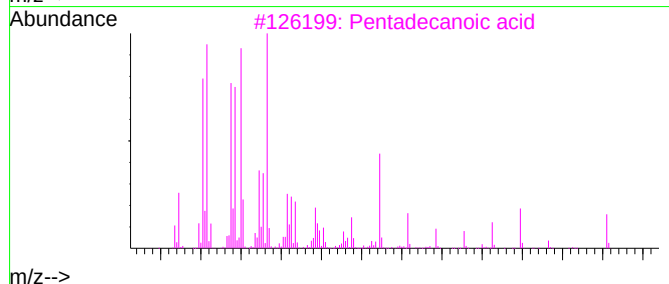
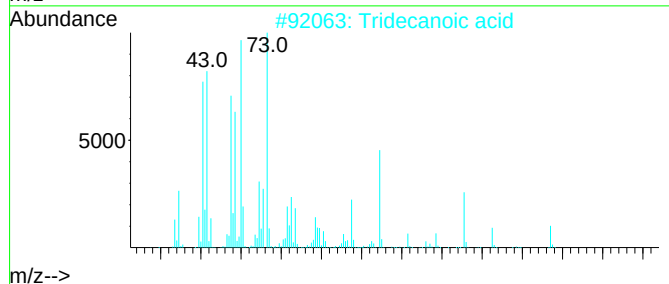
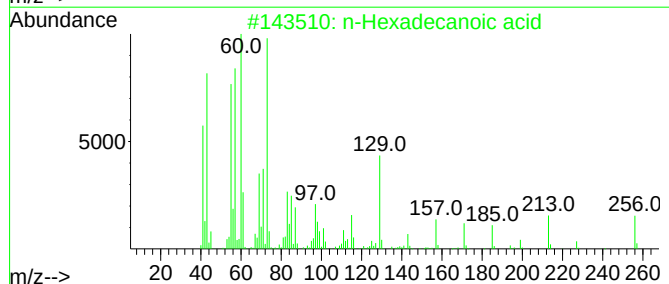
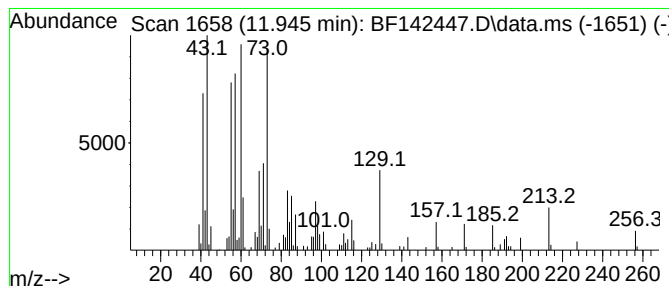
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 5 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD		R.T.	
11.945	3.34 ng	205879	Phenanthrene-d10		11.427	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid		256	C16H32O2	000057-10-3	99
2	Tridecanoic acid		214	C13H26O2	000638-53-9	89
3	Pentadecanoic acid		242	C15H30O2	001002-84-2	76
4	n-Decanoic acid		172	C10H20O2	000334-48-5	64
5	Tetradecanoic acid		228	C14H28O2	000544-63-8	64



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142447.D
Acq On : 19 May 2025 13:08
Operator : RC/JU
Sample : Q2032-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-29

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

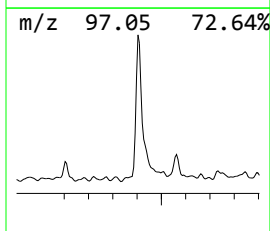
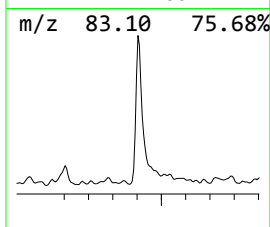
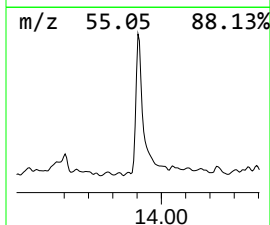
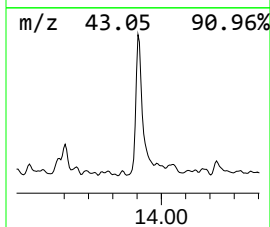
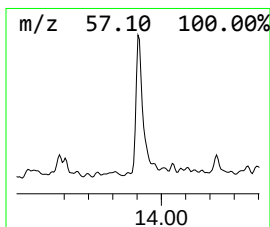
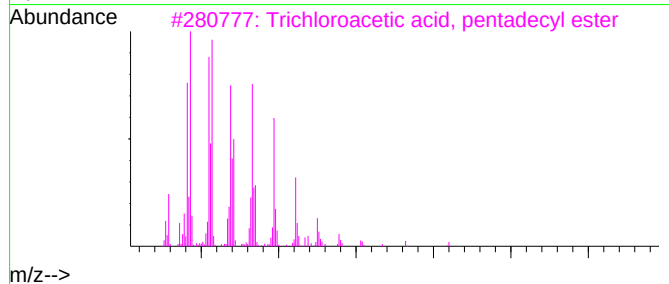
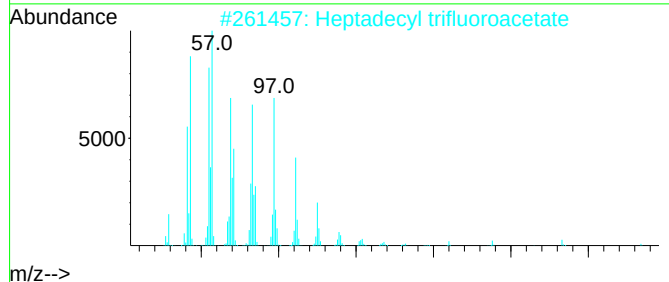
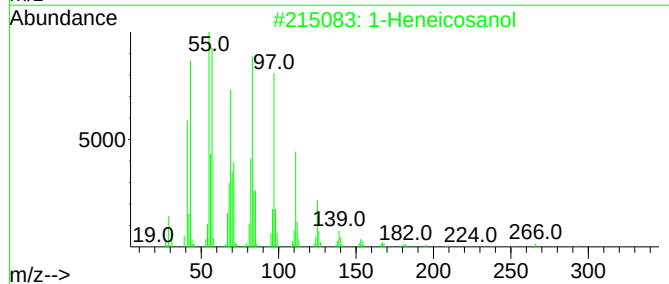
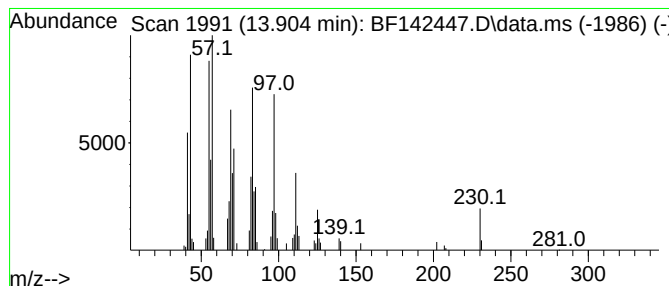
TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 6 1-Heneicosanol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	2.55 ng	92637	Chrysene-d12	14.068

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	93
2	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	93
3	Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	90
4	1-Nonadecene	266	C19H38	018435-45-5	90
5	1-Hexacosene	364	C26H52	018835-33-1	90



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142447.D
Acq On : 19 May 2025 13:08
Operator : RC/JU
Sample : Q2032-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-29

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

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
(S)-(+)-1,2-Pro...	3.428	2.3	ng	92699	1	6.904	813456	20.0
2-Pentanone, 4-...	5.116	6.5	ng	262310	1	6.904	813456	20.0
1-Phenoxypropan...	8.492	2.5	ng	138896	2	8.186	1089020	20.0
unknown10.033	10.033	53.9	ng	3322970	3	9.939	1232440	20.0
n-Hexadecanoic ...	11.945	3.3	ng	205879	4	11.427	1233740	20.0
1-Heneicosanol	13.904	2.5	ng	92637	5	14.068	725271	20.0

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-29-99	SDG No.:	Q2032
Lab Sample ID:	Q2032-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.8
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Level :	LOW
		Test:	SVOC-TCL BNA -20
		Final Vol:	1000
		GPC Cleanup :	N
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142448.D	1	05/16/25 10:00	05/19/25 13:37	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	380	ug/Kg
108-95-2	Phenol	25.5	U	25.5	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	28.0	U	28.0	200	ug/Kg
95-57-8	2-Chlorophenol	28.1	U	28.1	200	ug/Kg
95-48-7	2-Methylphenol	34.4	U	34.4	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.2	U	43.2	200	ug/Kg
98-86-2	Acetophenone	34.0	U	34.0	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.3	U	47.3	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	54.6	U	54.6	92.1	ug/Kg
67-72-1	Hexachloroethane	20.3	U	20.3	200	ug/Kg
98-95-3	Nitrobenzene	21.1	U	21.1	200	ug/Kg
78-59-1	Isophorone	37.8	U	37.8	200	ug/Kg
88-75-5	2-Nitrophenol	67.0	U	67.0	200	ug/Kg
105-67-9	2,4-Dimethylphenol	74.6	U	74.6	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.5	U	35.5	200	ug/Kg
120-83-2	2,4-Dichlorophenol	32.6	U	32.6	200	ug/Kg
91-20-3	Naphthalene	26.1	U	26.1	200	ug/Kg
106-47-8	4-Chloroaniline	40.8	U	40.8	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.1	U	29.1	200	ug/Kg
105-60-2	Caprolactam	60.0	UQ	60.0	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.1	U	33.1	200	ug/Kg
91-57-6	2-Methylnaphthalene	29.5	U	29.5	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.8	U	22.8	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.5	U	33.5	200	ug/Kg
92-52-4	1,1-Biphenyl	25.1	U	25.1	200	ug/Kg
91-58-7	2-Chloronaphthalene	25.9	U	25.9	200	ug/Kg
88-74-4	2-Nitroaniline	55.4	U	55.4	200	ug/Kg
131-11-3	Dimethylphthalate	31.2	U	31.2	200	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-29-99	SDG No.:	Q2032
Lab Sample ID:	Q2032-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.8
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142448.D	1	05/16/25 10:00	05/19/25 13:37	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.3	U	33.3	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.7	U	38.7	200	ug/Kg
99-09-2	3-Nitroaniline	53.0	U	53.0	200	ug/Kg
83-32-9	Acenaphthene	24.5	U	24.5	200	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	26.1	U	26.1	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	57.7	U	57.7	200	ug/Kg
84-66-2	Diethylphthalate	32.6	U	32.6	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.8	U	30.8	200	ug/Kg
86-73-7	Fluorene	29.1	U	29.1	200	ug/Kg
100-01-6	4-Nitroaniline	73.9	U	73.9	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.9	U	37.9	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.0	U	32.0	200	ug/Kg
118-74-1	Hexachlorobenzene	29.1	U	29.1	200	ug/Kg
1912-24-9	Atrazine	39.2	U	39.2	200	ug/Kg
87-86-5	Pentachlorophenol	59.1	U	59.1	380	ug/Kg
85-01-8	Phenanthrene	24.1	U	24.1	200	ug/Kg
120-12-7	Anthracene	38.4	U	38.4	200	ug/Kg
86-74-8	Carbazole	35.9	U	35.9	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.2	U	55.2	200	ug/Kg
206-44-0	Fluoranthene	34.6	U	34.6	200	ug/Kg
129-00-0	Pyrene	41.5	U	41.5	200	ug/Kg
85-68-7	Butylbenzylphthalate	82.2	U	82.2	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.3	U	42.3	380	ug/Kg
56-55-3	Benzo(a)anthracene	26.5	U	26.5	200	ug/Kg
218-01-9	Chrysene	22.9	U	22.9	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	68.2	U	68.2	200	ug/Kg
117-84-0	Di-n-octyl phthalate	100	U	100	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.9	U	21.9	200	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-29-99	SDG No.:	Q2032
Lab Sample ID:	Q2032-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.8
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142448.D	1	05/16/25 10:00	05/19/25 13:37	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.8	U	25.8	200	ug/Kg
50-32-8	Benzo(a)pyrene	34.0	U	34.0	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.5	U	33.5	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.6	U	31.6	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.6	U	29.6	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.5	U	29.5	200	ug/Kg
123-91-1	1,4-Dioxane	52.1	U	52.1	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.6	U	31.6	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	78.5		18 - 112	52%	SPK: 150
13127-88-3	Phenol-d6	77.9		15 - 107	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	49.8		18 - 107	50%	SPK: 100
321-60-8	2-Fluorobiphenyl	49.1		20 - 109	49%	SPK: 100
118-79-6	2,4,6-Tribromophenol	88.2		10 - 116	59%	SPK: 150
1718-51-0	Terphenyl-d14	45.3		10 - 105	45%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	127000	6.898			
1146-65-2	Naphthalene-d8	534000	8.181			
15067-26-2	Acenaphthene-d10	245000	9.939			
1517-22-2	Phenanthrene-d10	429000	11.422			
1719-03-5	Chrysene-d12	249000	14.063			
1520-96-3	Perylene-d12	250000	15.551			
TENTATIVE IDENTIFIED COMPOUNDS						
	unknown3.422	150	J		3.42	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB		5.12	ug/Kg
006180-61-6	1-Propanol, 3-phenoxy-	120	J		8.49	ug/Kg
	unknown10.034	1200	J		10.0	ug/Kg
000057-10-3	n-Hexadecanoic acid	150	J		11.9	ug/Kg
006385-15-5	Heptafluorobutyric acid, hexadecyl	120	J		13.9	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-29-99	SDG No.:	Q2032
Lab Sample ID:	Q2032-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.8
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142448.D	1	05/16/25 10:00	05/19/25 13:37	PB168041

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142448.D
Acq On : 19 May 2025 13:37
Operator : RC/JU
Sample : Q2032-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-29-99

Quant Time: May 19 14:03:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	126923	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	534005	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	245112	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	429168	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	249248	20.000	ng	0.00
86) Perylene-d12	15.551	264	249563	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	583863	78.528	ng	0.00
7) Phenol-d6	6.522	99	712746	77.942	ng	0.00
23) Nitrobenzene-d5	7.457	82	435826	49.774	ng	-0.01
42) 2,4,6-Tribromophenol	10.728	330	208806	88.234	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	843292	49.056	ng	0.00
79) Terphenyl-d14	13.010	244	762036	45.252	ng	0.00

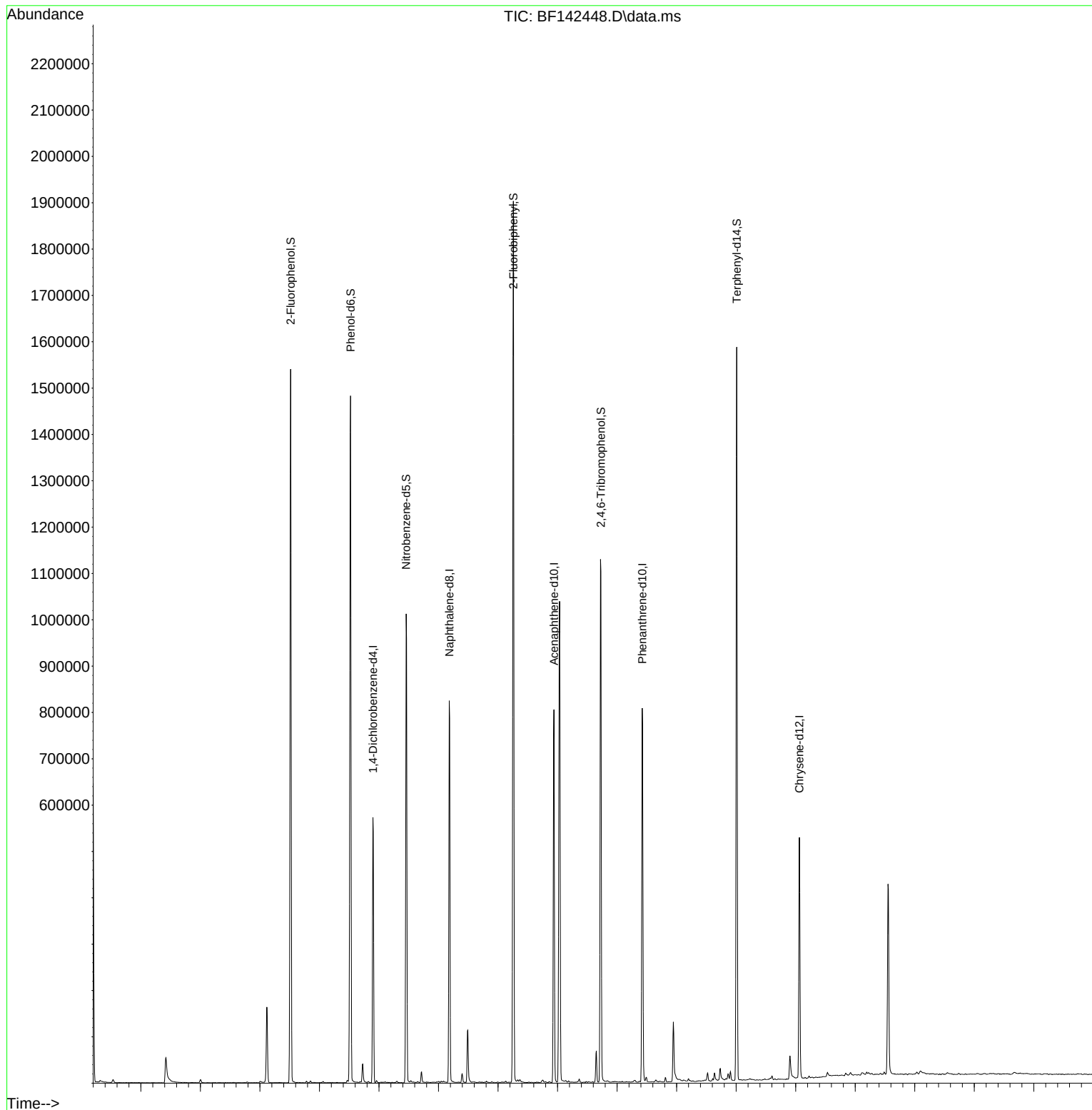
Target Compounds	Qvalue

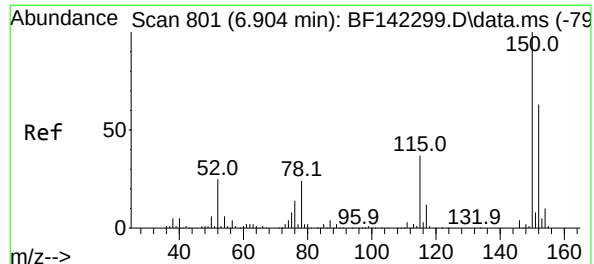
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142448.D
Acq On : 19 May 2025 13:37
Operator : RC/JU
Sample : Q2032-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-29-99

Quant Time: May 19 14:03:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.898 min Scan# 801

Delta R.T. -0.006 min

Lab File: BF142448.D

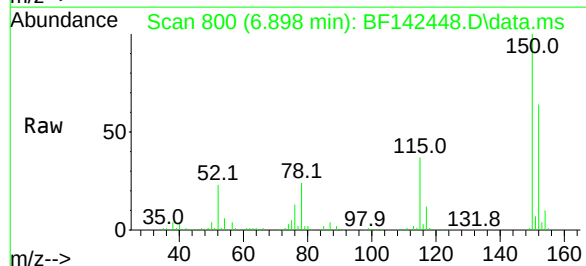
Acq: 19 May 2025 13:37

Instrument :

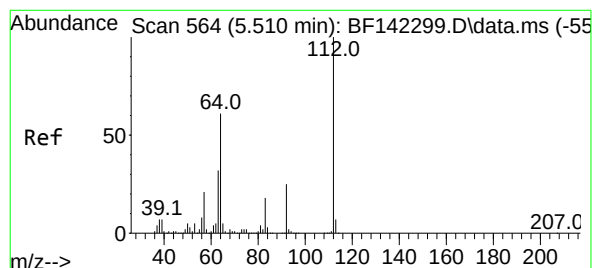
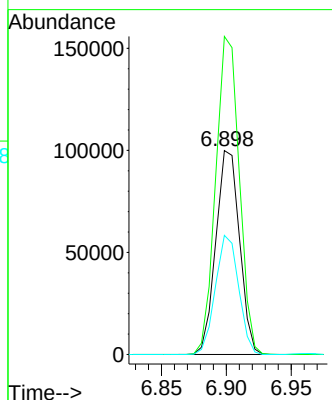
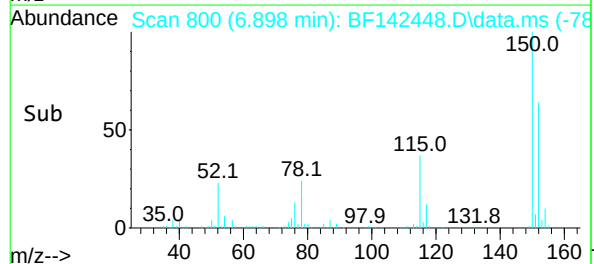
BNA_F

ClientSampleId :

TP-29-99



Tgt Ion:	152	Resp:	126923
Ion Ratio	Lower	Upper	
152	100		
150	156.0	126.6	190.0
115	58.4	47.3	70.9



#5

2-Fluorophenol

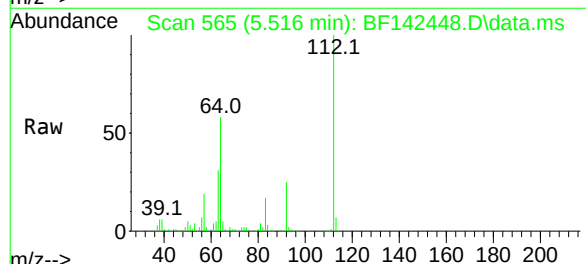
Concen: 78.528 ng

RT: 5.516 min Scan# 565

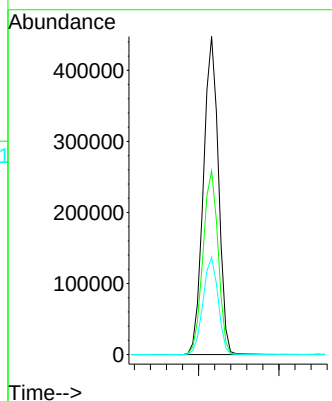
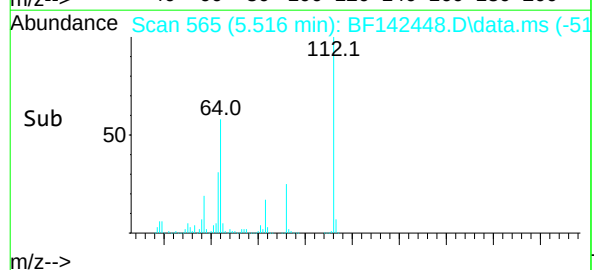
Delta R.T. 0.006 min

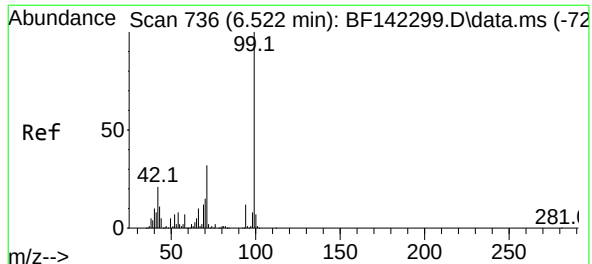
Lab File: BF142448.D

Acq: 19 May 2025 13:37



Tgt Ion:	112	Resp:	583863
Ion Ratio	Lower	Upper	
112	100		
64	57.8	48.9	73.3
63	30.5	25.6	38.4





#7

Phenol-d6

Concen: 77.942 ng

RT: 6.522 min Scan# 73

Delta R.T. 0.000 min

Lab File: BF142448.D

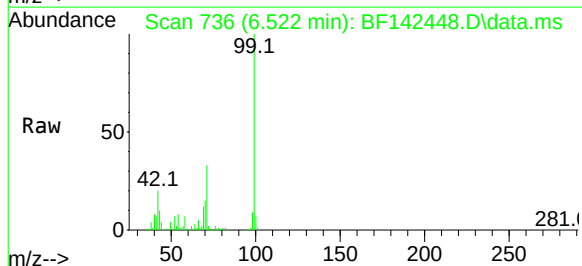
Acq: 19 May 2025 13:37

Instrument :

BNA_F

ClientSampleId :

TP-29-99



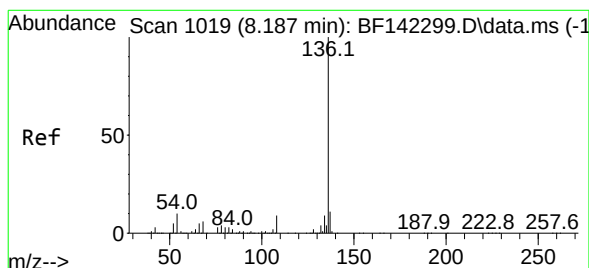
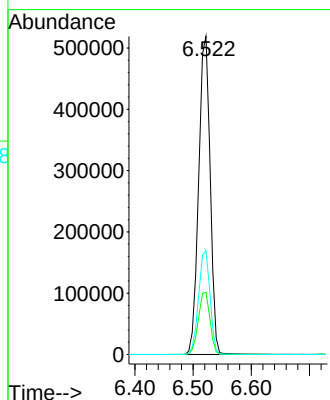
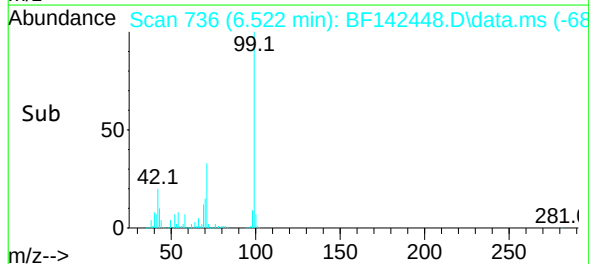
Tgt Ion: 99 Resp: 712746

Ion Ratio Lower Upper

99 100

42 19.5 17.0 25.4

71 32.7 25.8 38.8



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.181 min Scan# 1018

Delta R.T. -0.006 min

Lab File: BF142448.D

Acq: 19 May 2025 13:37

Tgt Ion: 136 Resp: 534005

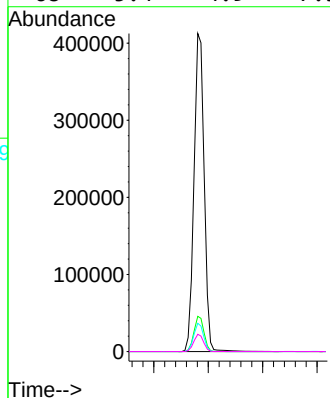
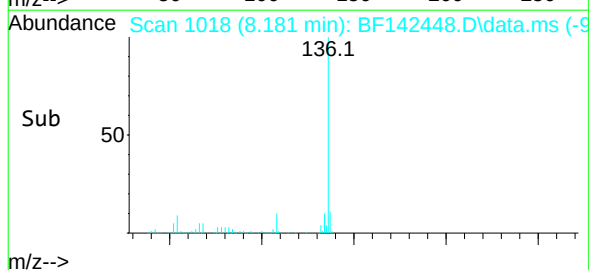
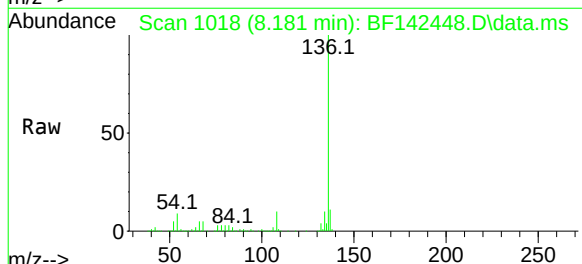
Ion Ratio Lower Upper

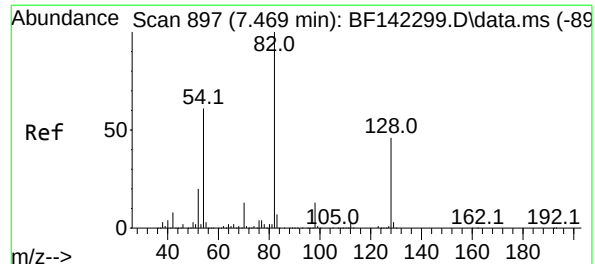
136 100

137 11.1 8.9 13.3

54 8.9 7.7 11.5

68 5.4 4.9 7.3





#23

Nitrobenzene-d5

Concen: 49.774 ng

RT: 7.457 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF142448.D

Acq: 19 May 2025 13:37

Instrument :

BNA_F

ClientSampleId :

TP-29-99

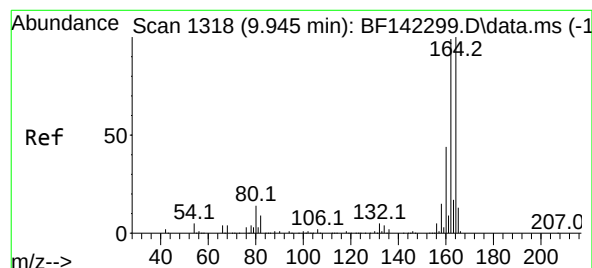
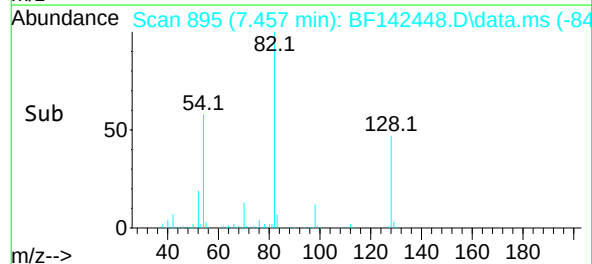
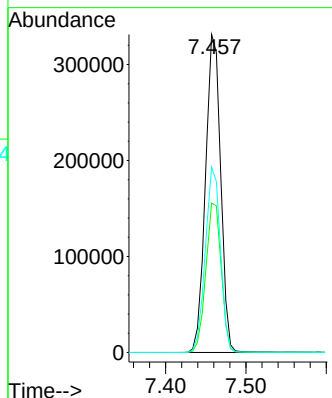
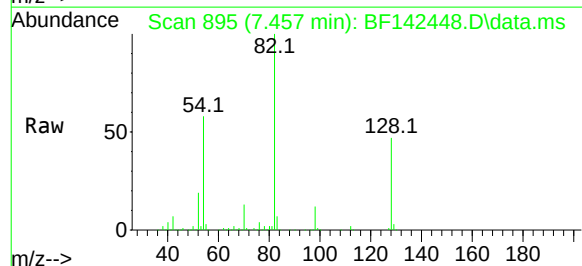
Tgt Ion: 82 Resp: 435826

Ion Ratio Lower Upper

82 100

128 46.9 37.0 55.6

54 58.3 48.6 73.0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.939 min Scan# 1317

Delta R.T. -0.006 min

Lab File: BF142448.D

Acq: 19 May 2025 13:37

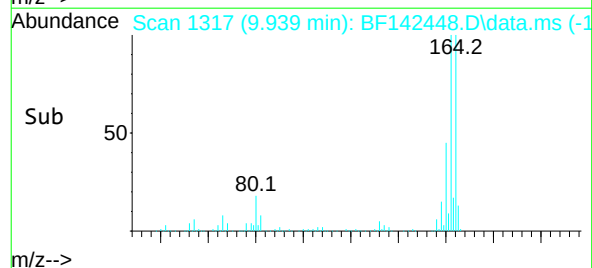
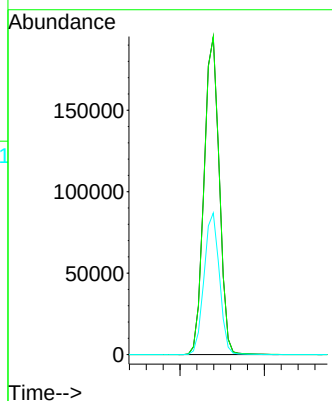
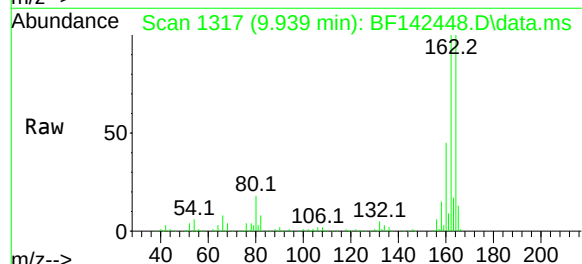
Tgt Ion: 164 Resp: 245112

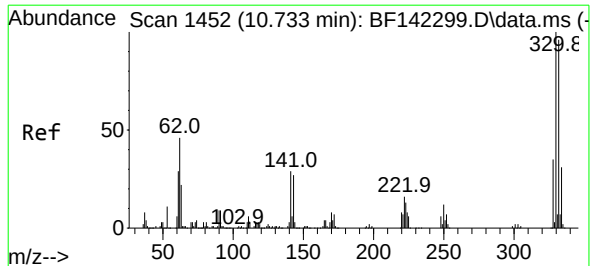
Ion Ratio Lower Upper

164 100

162 100.2 79.2 118.8

160 44.6 35.3 52.9





#42

2,4,6-Tribromophenol

Concen: 88.234 ng

RT: 10.728 min Scan# 1451

Delta R.T. -0.006 min

Lab File: BF142448.D

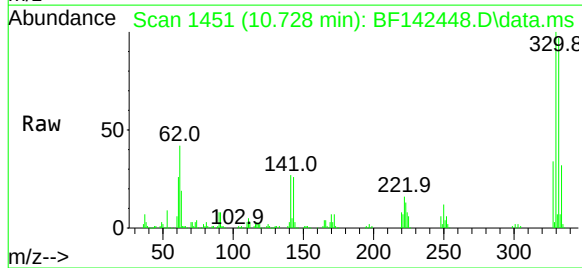
Acq: 19 May 2025 13:37

Instrument :

BNA_F

ClientSampleId :

TP-29-99



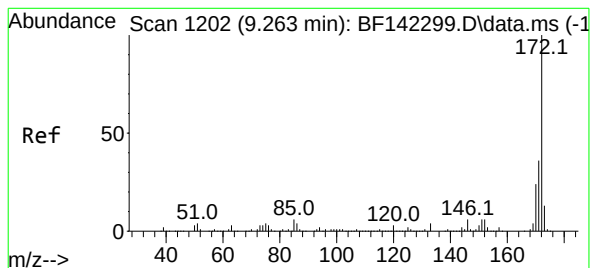
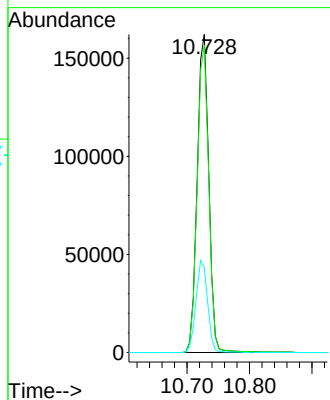
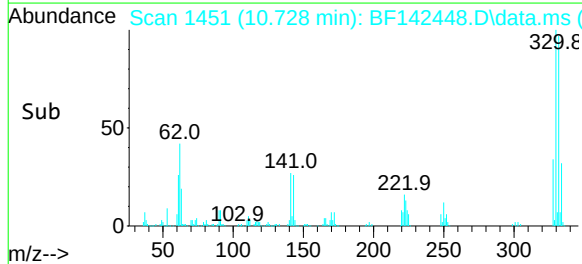
Tgt Ion: 330 Resp: 208806

Ion Ratio Lower Upper

330 100

332 96.7 76.8 115.2

141 29.2 24.9 37.3



#45

2-Fluorobiphenyl

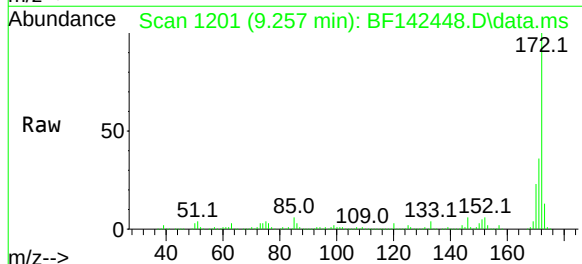
Concen: 49.056 ng

RT: 9.257 min Scan# 1201

Delta R.T. -0.006 min

Lab File: BF142448.D

Acq: 19 May 2025 13:37



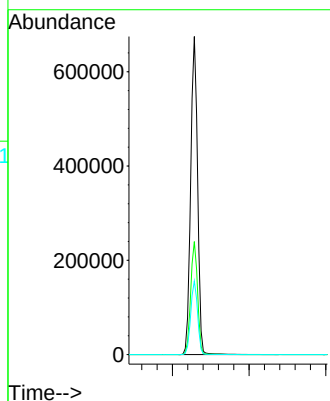
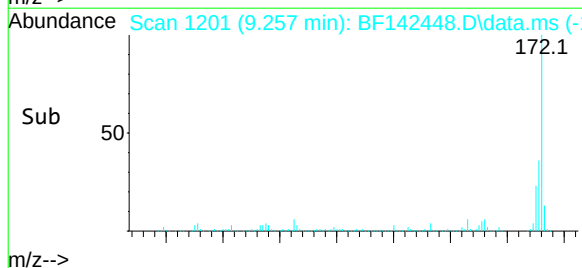
Tgt Ion: 172 Resp: 843292

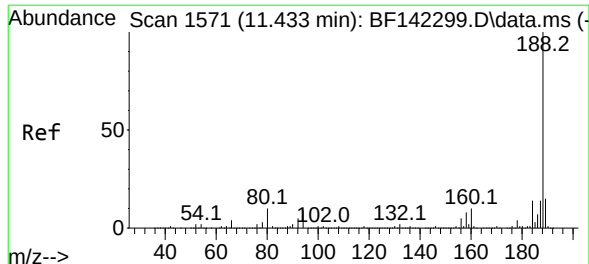
Ion Ratio Lower Upper

172 100

171 35.5 28.6 42.8

170 23.1 19.0 28.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.422 min Scan# 15

Delta R.T. -0.012 min

Lab File: BF142448.D

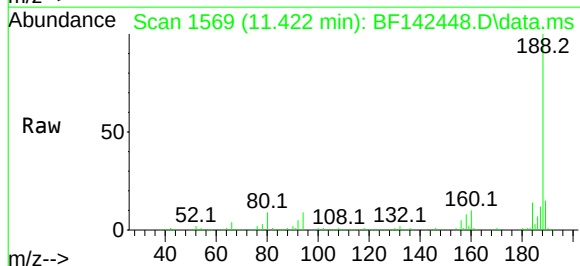
Acq: 19 May 2025 13:37

Instrument :

BNA_F

ClientSampleId :

TP-29-99



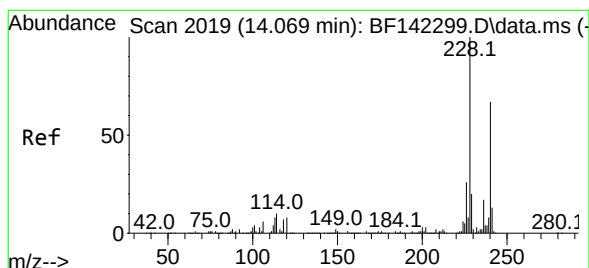
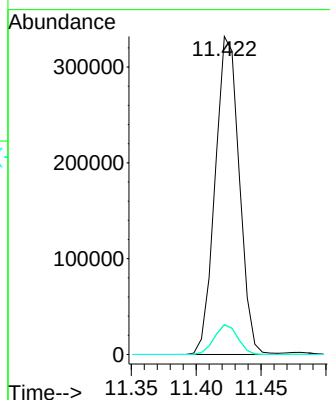
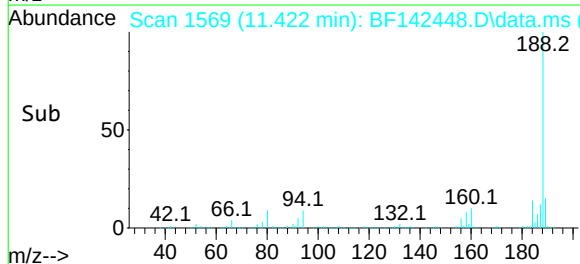
Tgt Ion:188 Resp: 429168

Ion Ratio Lower Upper

188 100

94 9.3 7.5 11.3

80 9.5 7.9 11.9



#76

Chrysene-d12

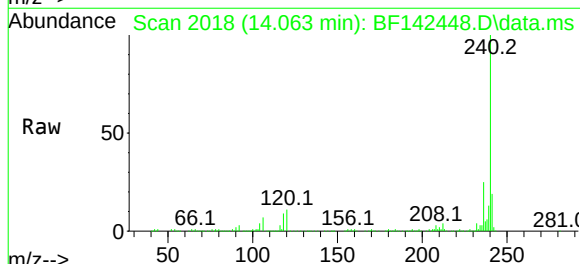
Concen: 20.000 ng

RT: 14.063 min Scan# 2018

Delta R.T. -0.006 min

Lab File: BF142448.D

Acq: 19 May 2025 13:37



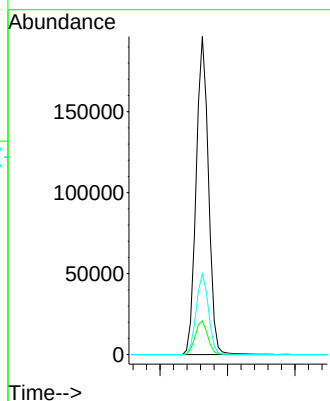
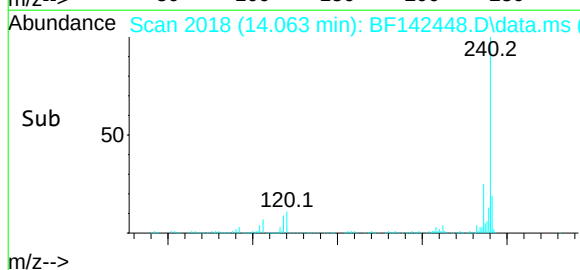
Tgt Ion:240 Resp: 249248

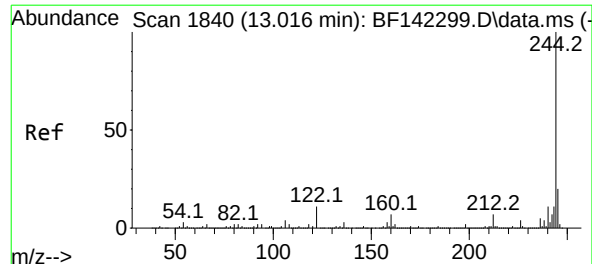
Ion Ratio Lower Upper

240 100

120 10.6 9.7 14.5

236 25.4 20.0 30.0





#79

Terphenyl-d14

Concen: 45.252 ng

RT: 13.010 min Scan# 18

Delta R.T. -0.006 min

Lab File: BF142448.D

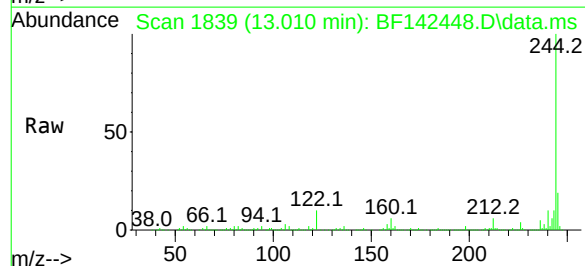
Acq: 19 May 2025 13:37

Instrument :

BNA_F

ClientSampleId :

TP-29-99



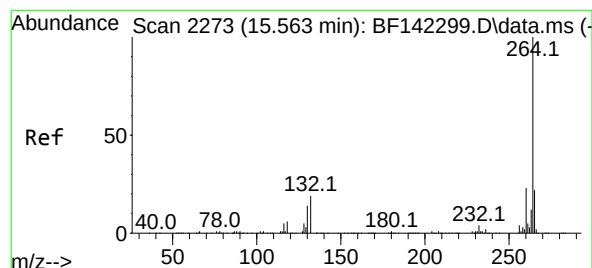
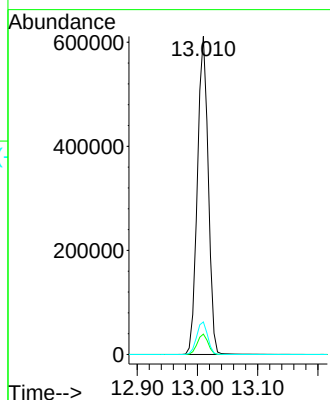
Tgt Ion:244 Resp: 762036

Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.2

122 10.2 9.0 13.4



#86

Perylene-d12

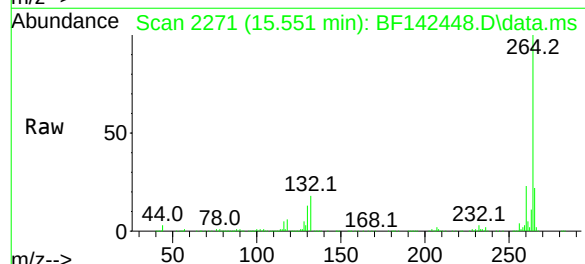
Concen: 20.000 ng

RT: 15.551 min Scan# 2271

Delta R.T. -0.012 min

Lab File: BF142448.D

Acq: 19 May 2025 13:37



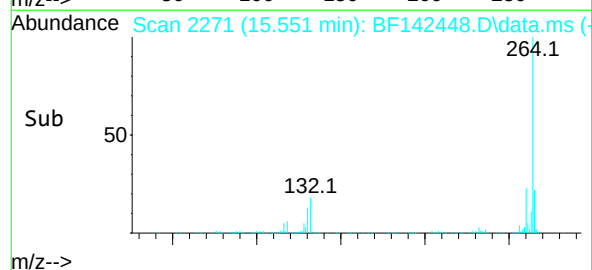
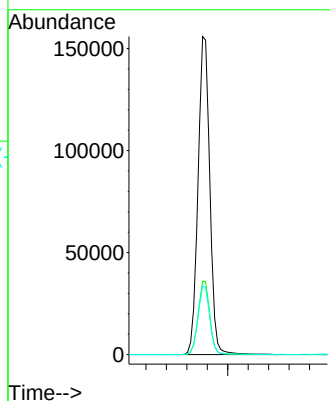
Tgt Ion:264 Resp: 249563

Ion Ratio Lower Upper

264 100

260 23.1 18.6 27.8

265 21.6 17.5 26.3



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
 Data File : BF142448.D
 Acq On : 19 May 2025 13:37
 Operator : RC/JU
 Sample : Q2032-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-29-99

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

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

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF142448.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.422	203	209	232	rBV	54005	140279	5.95%	0.736%
2	5.116	489	497	506	rVB	163063	235733	10.01%	1.237%
3	5.516	559	565	570	rBV	1539827	2011188	85.36%	10.556%
4	6.522	729	736	741	rBV	1479252	2033790	86.32%	10.674%
5	6.728	766	771	783	rVB	39798	58600	2.49%	0.308%
6	6.898	795	800	806	rBV	572475	717644	30.46%	3.767%
7	7.457	889	895	901	rBV	1011712	1332251	56.55%	6.992%
8	7.716	933	939	946	rBV	22887	31494	1.34%	0.165%
9	8.181	1013	1018	1027	rBV	823442	1054351	44.75%	5.534%
10	8.398	1050	1055	1063	rBV3	18740	27073	1.15%	0.142%
11	8.492	1066	1071	1082	rVV	112600	159647	6.78%	0.838%
12	9.257	1195	1201	1206	rBV	1901411	2356067	100.00%	12.366%
13	9.939	1311	1317	1322	rBV	804700	1013035	43.00%	5.317%
14	10.034	1326	1333	1342	rBV	1037388	1575549	66.87%	8.269%
15	10.651	1432	1438	1445	rBV	67773	85487	3.63%	0.449%
16	10.722	1445	1450	1463	rBV	1127824	1498428	63.60%	7.865%
17	11.422	1564	1569	1577	rBV	806291	1051212	44.62%	5.517%
18	11.945	1653	1658	1671	rBV2	128503	204345	8.67%	1.073%
19	12.733	1787	1792	1804	rVV	24747	43232	1.83%	0.227%
20	12.904	1818	1821	1829	rVB	19182	25114	1.07%	0.132%
21	13.010	1833	1839	1844	rBV	1581796	1972515	83.72%	10.353%
22	13.904	1986	1991	2008	rBV	50278	103623	4.40%	0.544%
23	14.063	2013	2018	2028	rVB	519604	668751	28.38%	3.510%
24	15.551	2265	2271	2285	rBV	410166	653617	27.74%	3.431%

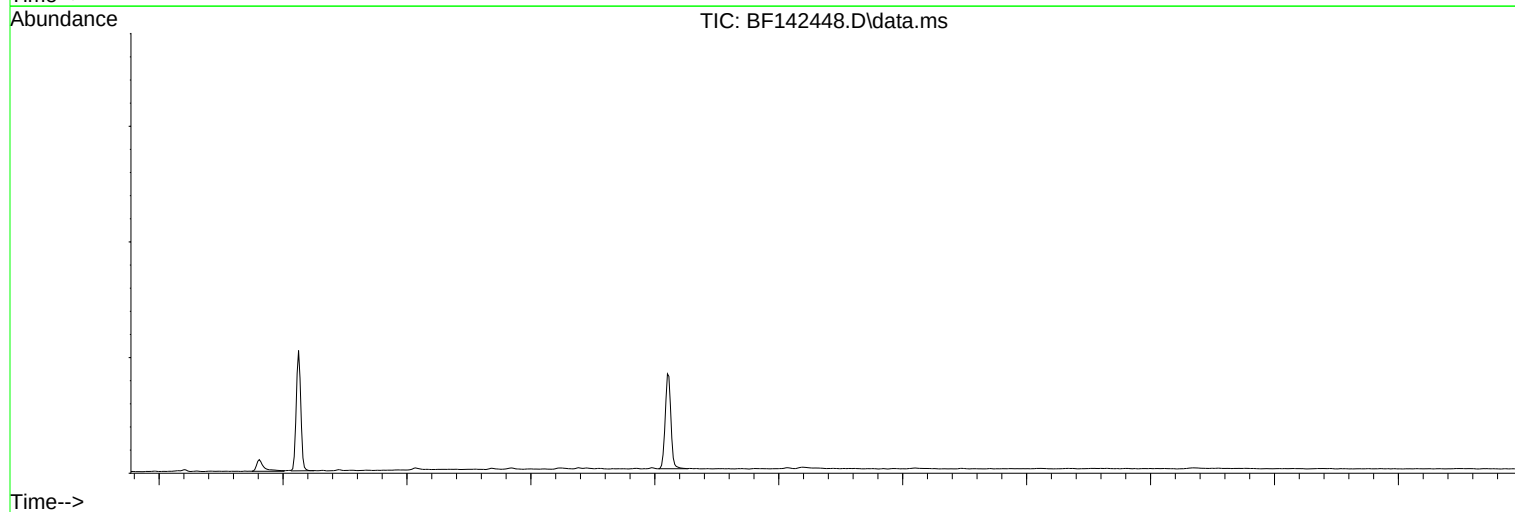
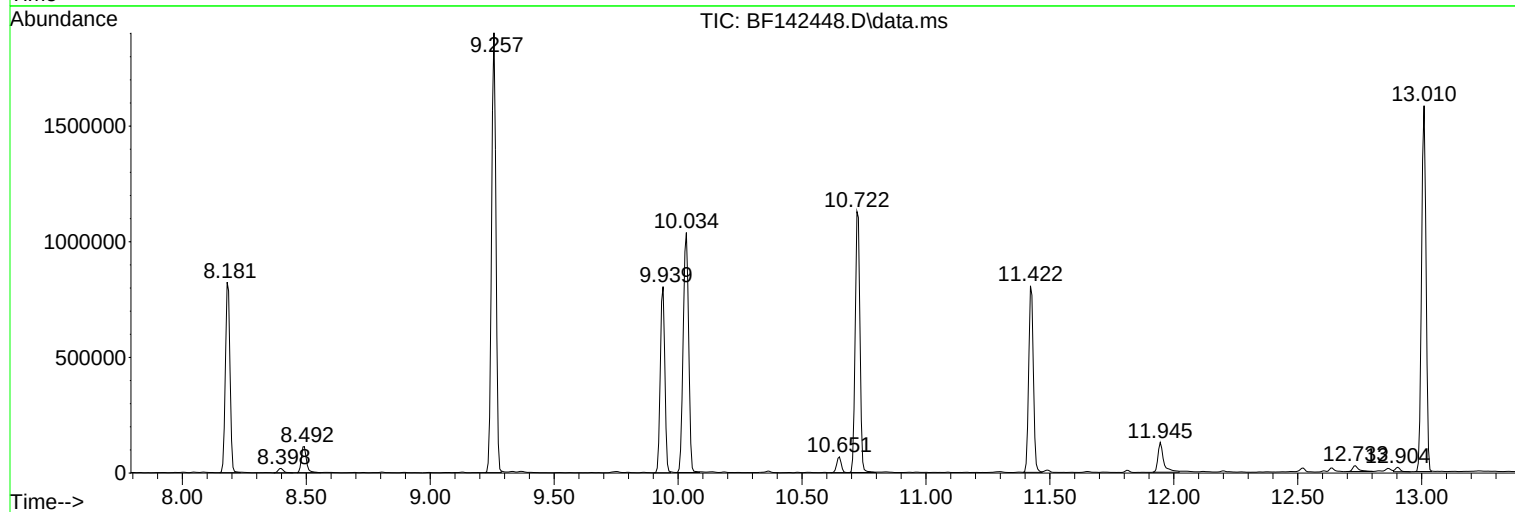
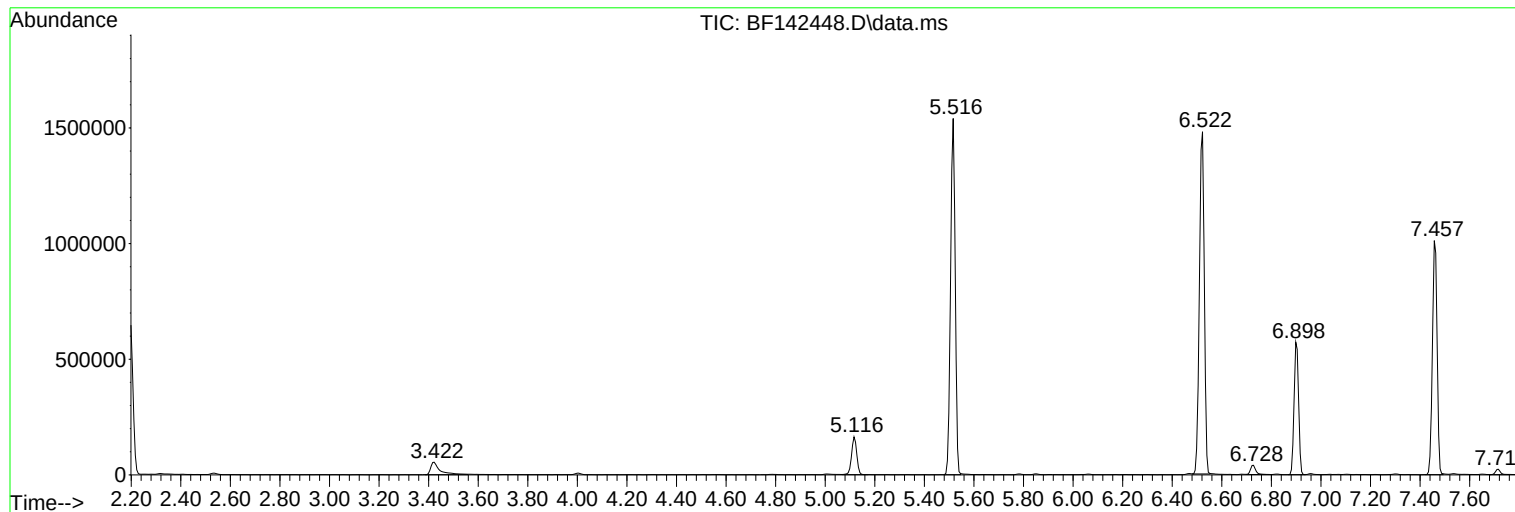
Sum of corrected areas: 19053025

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142448.D
Acq On : 19 May 2025 13:37
Operator : RC/JU
Sample : Q2032-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-29-99

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

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142448.D
Acq On : 19 May 2025 13:37
Operator : RC/JU
Sample : Q2032-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-29-99

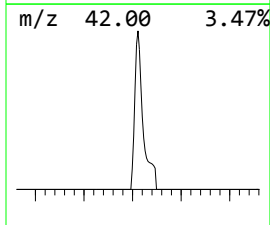
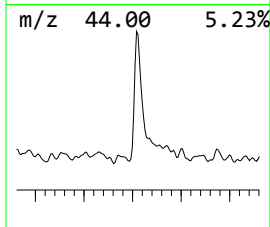
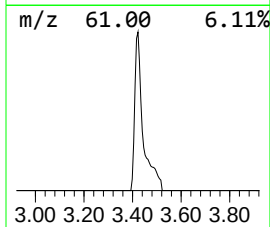
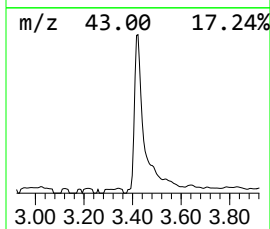
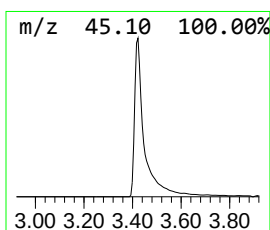
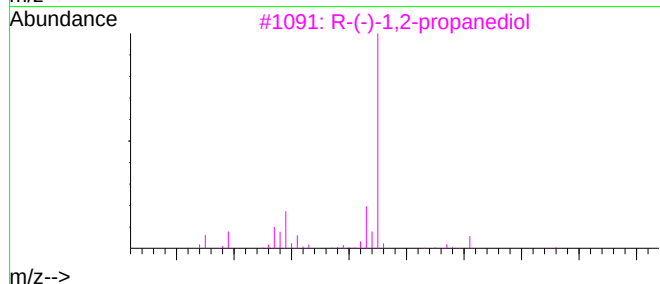
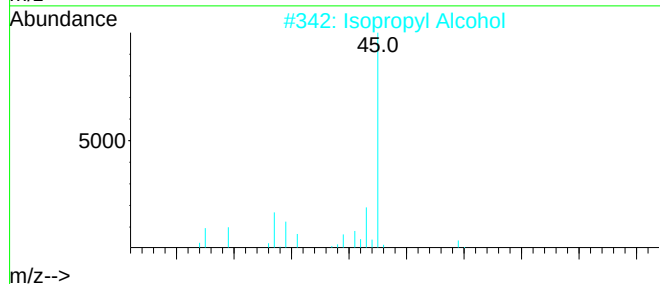
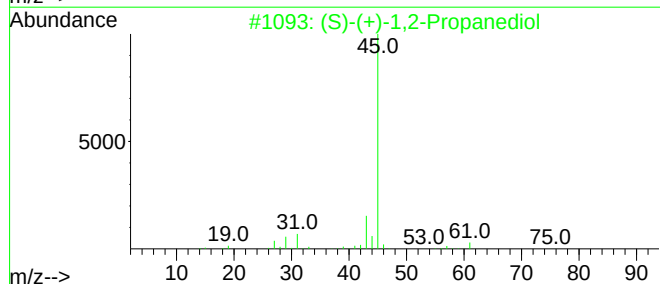
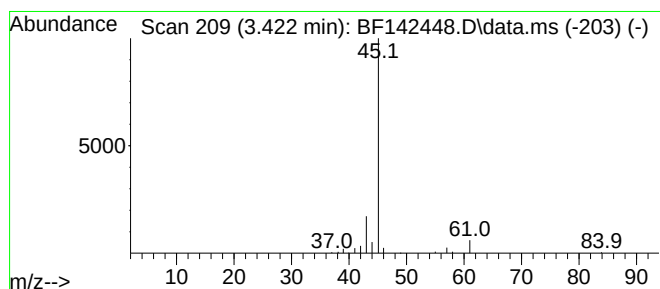
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 unknown3.422 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.422	3.91 ng	140279	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(S)-(+)-1,2-Propanediol	76	C3H8O2	004254-15-3	40
2	Isopropyl Alcohol	60	C3H8O	000067-63-0	9
3	R-(-)-1,2-propanediol	76	C3H8O2	004254-14-2	9
4	Propylene Glycol	76	C3H8O2	000057-55-6	9
5	Propanoic acid, 2-hydroxy-, meth...	104	C4H8O3	000547-64-8	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142448.D
Acq On : 19 May 2025 13:37
Operator : RC/JU
Sample : Q2032-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-29-99

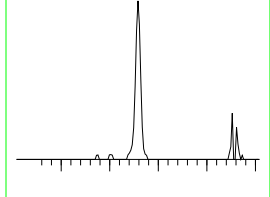
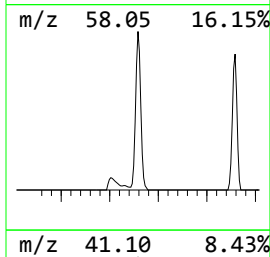
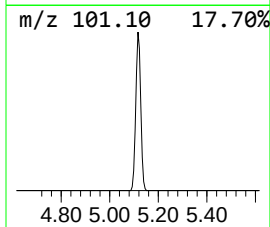
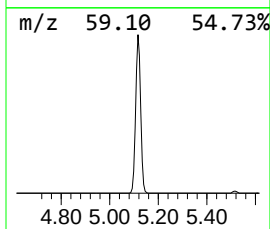
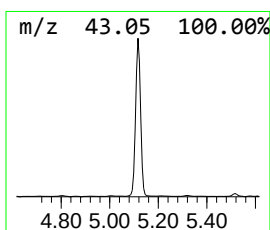
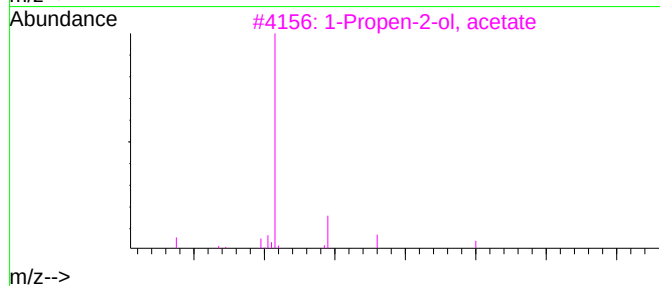
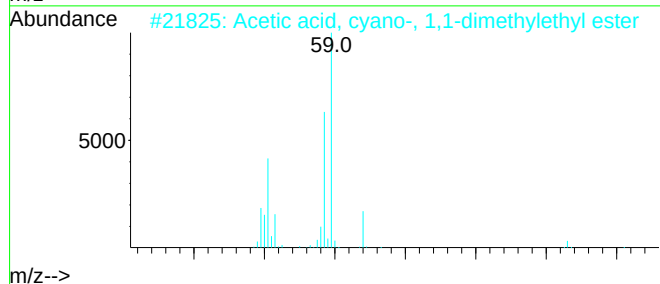
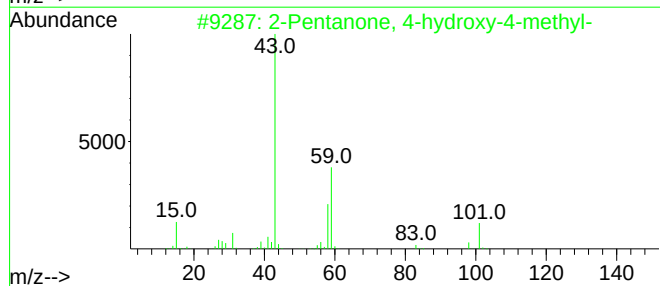
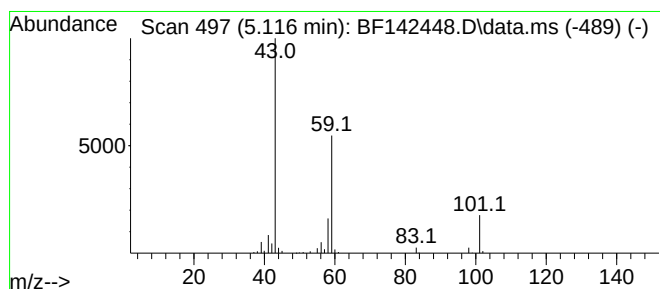
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	6.57 ng	235733	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	10
5	1,2-Butanediol	90	C4H10O2	000584-03-2	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142448.D
Acq On : 19 May 2025 13:37
Operator : RC/JU
Sample : Q2032-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

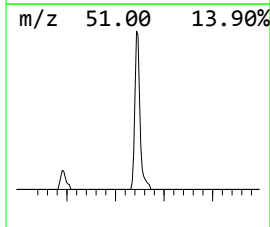
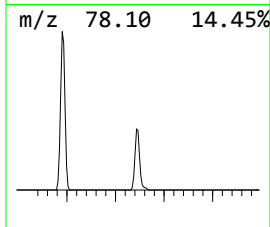
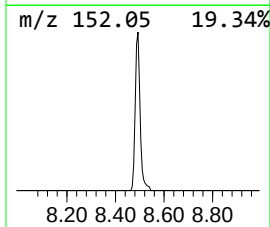
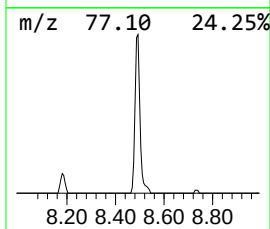
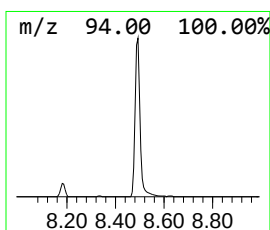
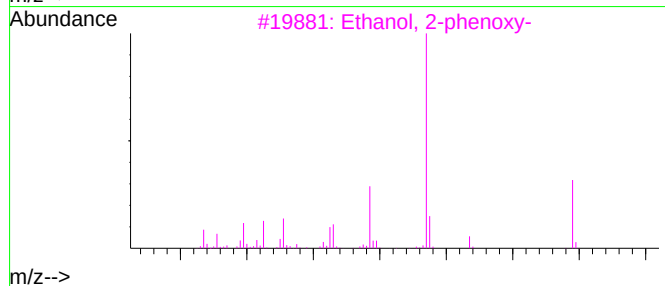
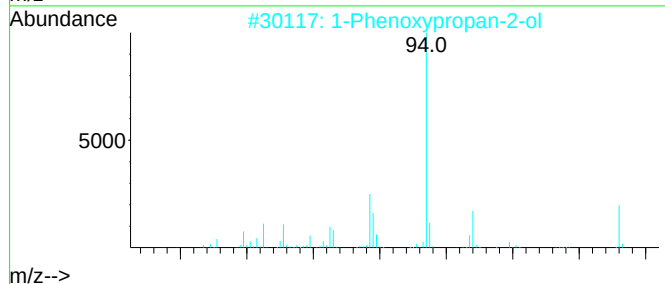
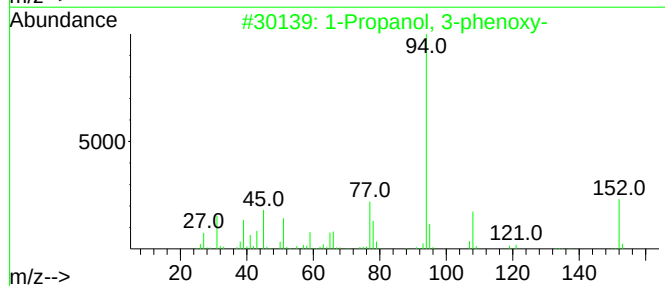
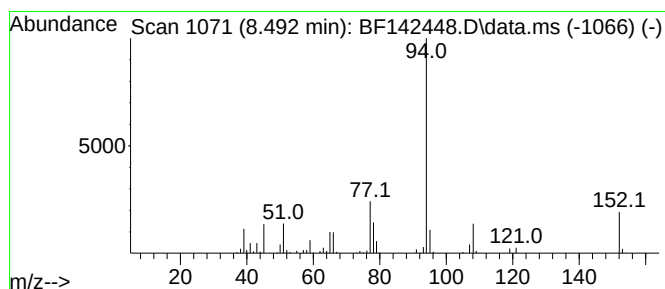
Instrument :
BNA_F
ClientSampleId :
TP-29-99

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

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

Peak Number 3 1-Propanol, 3-phenoxy- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD			R.T.
8.492	3.03 ng	159647	Naphthalene-d8			8.181
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	1-Propanol, 3-phenoxy-		152	C9H12O2	006180-61-6	97
2	1-Phenoxypropan-2-ol		152	C9H12O2	000770-35-4	96
3	Ethanol, 2-phenoxy-		138	C8H10O2	000122-99-6	59
4	Benzene, (1-methylpropoxy)-		150	C10H14O	010574-17-1	50
5	Pyrimidine, 5-methyl-		94	C5H6N2	002036-41-1	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142448.D
Acq On : 19 May 2025 13:37
Operator : RC/JU
Sample : Q2032-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-29-99

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

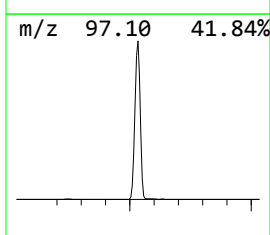
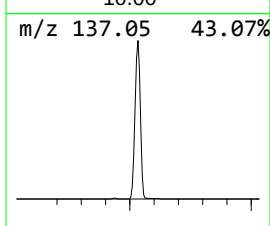
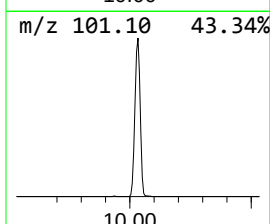
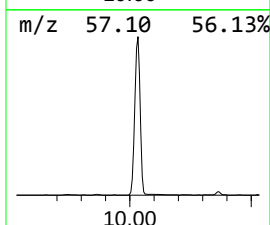
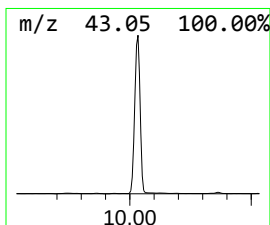
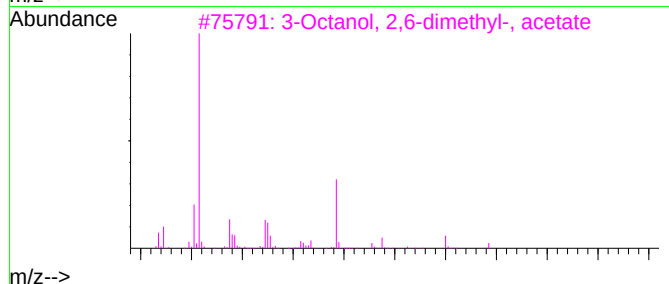
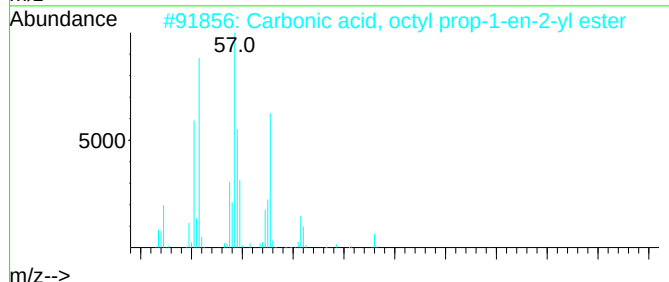
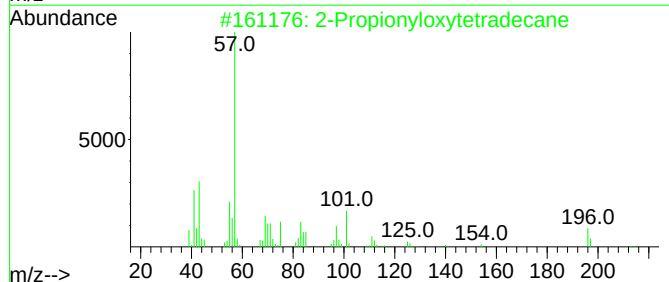
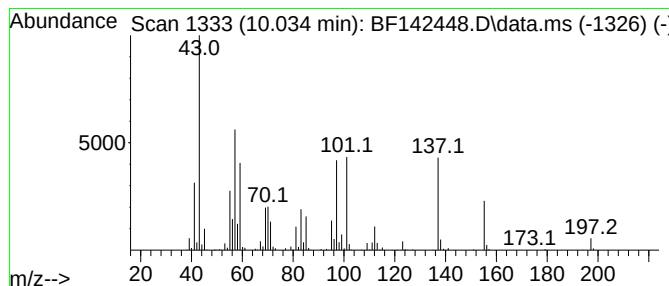
TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 4 unknown10.034 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.034	31.11 ng	1575550	Acenaphthene-d10	9.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propionyloxytetradecane	270	C17H34O2	1000245-62-7	12
2	Carbonic acid, octyl prop-1-en-2...	214	C12H22O3	1000382-54-0	12
3	3-Octanol, 2,6-dimethyl-, acetate	200	C12H24O2	123232-57-5	10
4	6,10,14-Trimethyl-pentadecan-2-ol	270	C18H38O	069729-17-5	10
5	2-Piperidinone, N-[4-bromo-n-but...	233	C9H16BrNO	195194-80-0	10



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142448.D
Acq On : 19 May 2025 13:37
Operator : RC/JU
Sample : Q2032-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-29-99

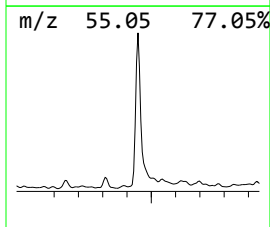
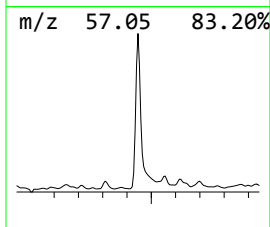
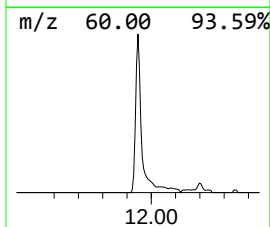
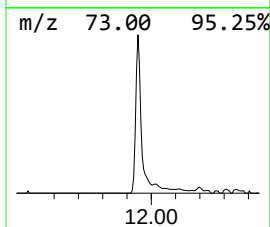
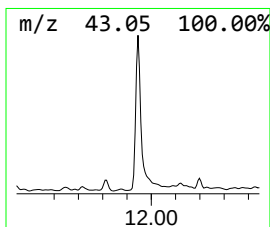
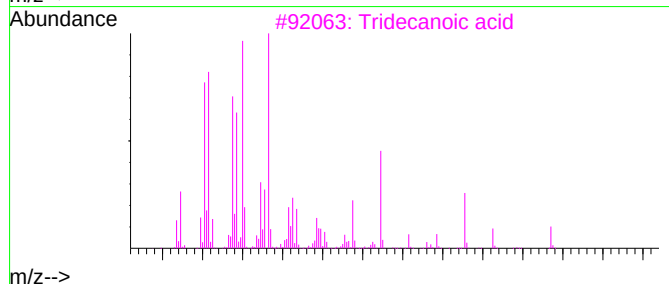
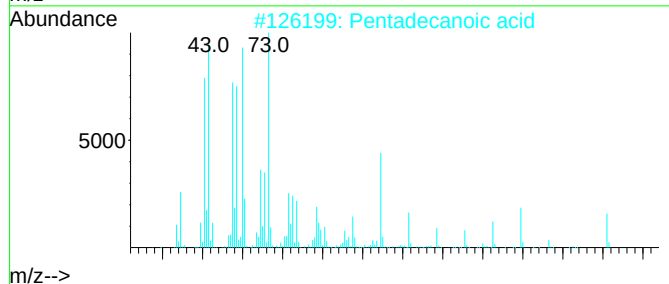
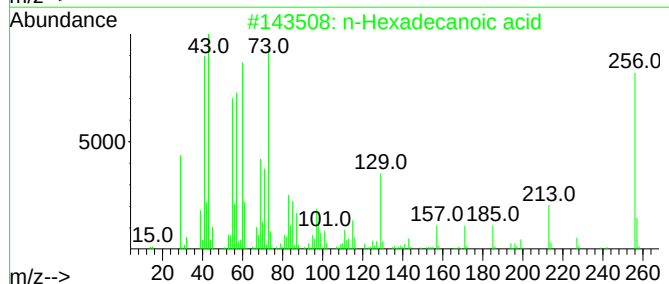
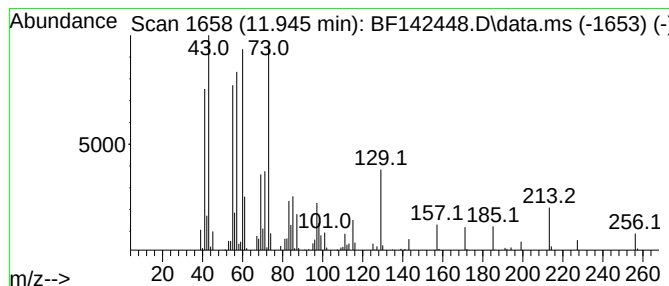
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 5 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD		R.T.	
11.945	3.89 ng	204345	Phenanthrene-d10		11.422	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid		256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid		242	C15H30O2	001002-84-2	90
3	Tridecanoic acid		214	C13H26O2	000638-53-9	89
4	Tetradecanoic acid		228	C14H28O2	000544-63-8	74
5	n-Decanoic acid		172	C10H20O2	000334-48-5	60



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142448.D
Acq On : 19 May 2025 13:37
Operator : RC/JU
Sample : Q2032-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-29-99

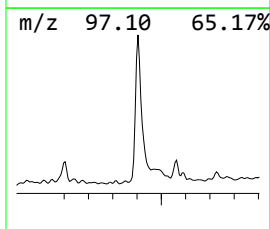
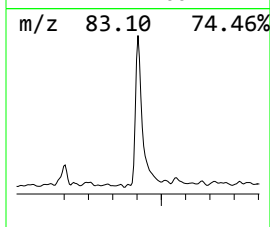
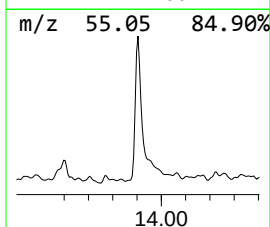
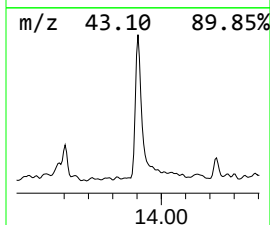
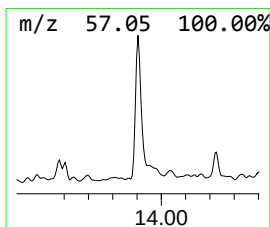
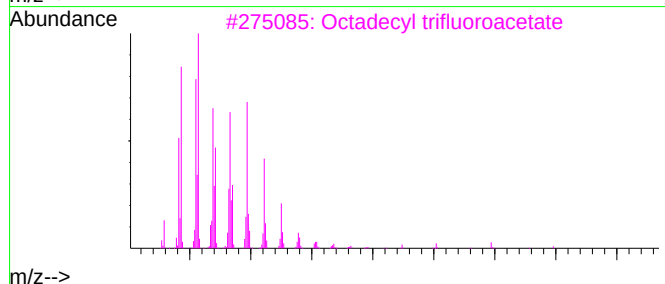
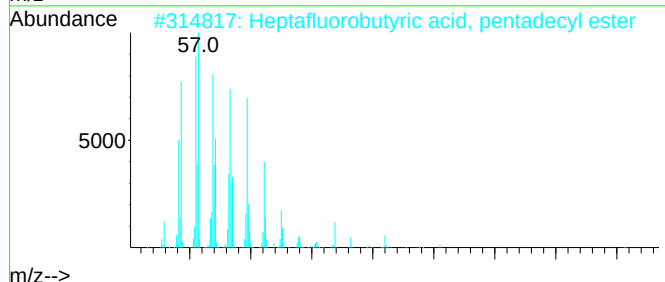
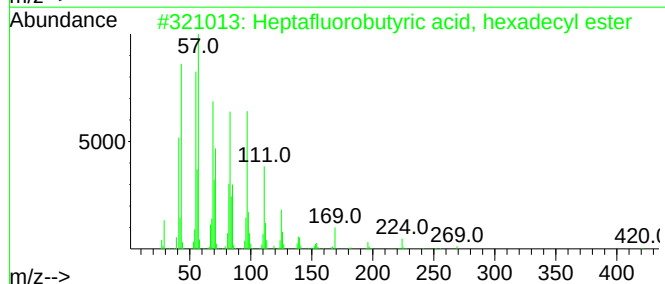
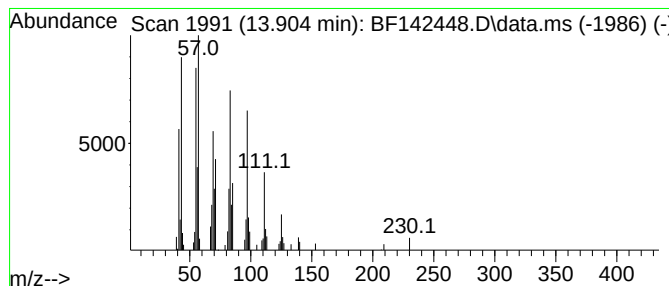
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Heptafluorobutyric acid, he... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	3.10 ng	103623	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptafluorobutyric acid, hexadec...	438	C20H33F7O2	006385-15-5	95
2	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	95
3	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	95
4	Pentafluoropropionic acid, penta...	374	C18H31F5O2	959092-08-1	95
5	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	95



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142448.D
Acq On : 19 May 2025 13:37
Operator : RC/JU
Sample : Q2032-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-29-99

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

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown3.422	3.422	3.9	ng	140279	1	6.898	717644	20.0
2-Pentanone, 4-...	5.116	6.6	ng	235733	1	6.898	717644	20.0
1-Propanol, 3-p...	8.492	3.0	ng	159647	2	8.181	1054350	20.0
unknown10.034	10.034	31.1	ng	1575550	3	9.939	1013040	20.0
n-Hexadecanoic ...	11.945	3.9	ng	204345	4	11.422	1051210	20.0
Heptafluorobuty...	13.904	3.1	ng	103623	5	14.063	668751	20.0

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24	SDG No.:	Q2032
Lab Sample ID:	Q2032-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	74.2
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Level :	LOW
		Test:	SVOC-TCL BNA -20
		Final Vol:	1000 uL
		GPC Cleanup :	N
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024690.D	1	05/16/25 10:00	05/19/25 15:35	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	U	210	440	ug/Kg
108-95-2	Phenol	29.7	U	29.7	230	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	32.7	U	32.7	230	ug/Kg
95-57-8	2-Chlorophenol	32.8	U	32.8	230	ug/Kg
95-48-7	2-Methylphenol	40.2	U	40.2	230	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	50.5	U	50.5	230	ug/Kg
98-86-2	Acetophenone	39.7	U	39.7	230	ug/Kg
65794-96-9	3+4-Methylphenols	55.3	U	55.3	440	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	63.8	U	63.8	110	ug/Kg
67-72-1	Hexachloroethane	23.7	U	23.7	230	ug/Kg
98-95-3	Nitrobenzene	24.6	U	24.6	230	ug/Kg
78-59-1	Isophorone	44.1	U	44.1	230	ug/Kg
88-75-5	2-Nitrophenol	78.3	U	78.3	230	ug/Kg
105-67-9	2,4-Dimethylphenol	87.2	U	87.2	230	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	41.4	U	41.4	230	ug/Kg
120-83-2	2,4-Dichlorophenol	38.1	U	38.1	230	ug/Kg
91-20-3	Naphthalene	30.5	U	30.5	230	ug/Kg
106-47-8	4-Chloroaniline	47.6	U	47.6	230	ug/Kg
87-68-3	Hexachlorobutadiene	34.0	U	34.0	230	ug/Kg
105-60-2	Caprolactam	70.1	UQ	70.1	440	ug/Kg
59-50-7	4-Chloro-3-methylphenol	38.6	U	38.6	230	ug/Kg
91-57-6	2-Methylnaphthalene	34.4	U	34.4	230	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	440	ug/Kg
88-06-2	2,4,6-Trichlorophenol	26.6	U	26.6	230	ug/Kg
95-95-4	2,4,5-Trichlorophenol	39.2	U	39.2	230	ug/Kg
92-52-4	1,1-Biphenyl	29.3	U	29.3	230	ug/Kg
91-58-7	2-Chloronaphthalene	30.3	U	30.3	230	ug/Kg
88-74-4	2-Nitroaniline	64.7	U	64.7	230	ug/Kg
131-11-3	Dimethylphthalate	36.5	U	36.5	230	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24	SDG No.:	Q2032
Lab Sample ID:	Q2032-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	74.2
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024690.D	1	05/16/25 10:00	05/19/25 15:35	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	38.9	U	38.9	230	ug/Kg
606-20-2	2,6-Dinitrotoluene	45.2	U	45.2	230	ug/Kg
99-09-2	3-Nitroaniline	61.9	U	61.9	230	ug/Kg
83-32-9	Acenaphthene	28.7	U	28.7	230	ug/Kg
51-28-5	2,4-Dinitrophenol	310	U	310	440	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	440	ug/Kg
132-64-9	Dibenzofuran	30.5	U	30.5	230	ug/Kg
121-14-2	2,4-Dinitrotoluene	67.4	U	67.4	230	ug/Kg
84-66-2	Diethylphthalate	38.1	U	38.1	230	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	35.9	U	35.9	230	ug/Kg
86-73-7	Fluorene	34.0	U	34.0	230	ug/Kg
100-01-6	4-Nitroaniline	86.4	U	86.4	230	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	U	140	440	ug/Kg
86-30-6	n-Nitrosodiphenylamine	44.3	U	44.3	230	ug/Kg
101-55-3	4-Bromophenyl-phenylether	37.4	U	37.4	230	ug/Kg
118-74-1	Hexachlorobenzene	34.0	U	34.0	230	ug/Kg
1912-24-9	Atrazine	45.7	U	45.7	230	ug/Kg
87-86-5	Pentachlorophenol	69.0	U	69.0	440	ug/Kg
85-01-8	Phenanthrene	28.1	U	28.1	230	ug/Kg
120-12-7	Anthracene	44.8	U	44.8	230	ug/Kg
86-74-8	Carbazole	42.0	U	42.0	230	ug/Kg
84-74-2	Di-n-butylphthalate	64.4	U	64.4	230	ug/Kg
206-44-0	Fluoranthene	40.4	U	40.4	230	ug/Kg
129-00-0	Pyrene	48.4	U	48.4	230	ug/Kg
85-68-7	Butylbenzylphthalate	96.1	U	96.1	230	ug/Kg
91-94-1	3,3-Dichlorobenzidine	49.4	U	49.4	440	ug/Kg
56-55-3	Benzo(a)anthracene	30.9	U	30.9	230	ug/Kg
218-01-9	Chrysene	26.8	U	26.8	230	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	79.7	U	79.7	230	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	440	ug/Kg
205-99-2	Benzo(b)fluoranthene	25.6	U	25.6	230	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24	SDG No.:	Q2032
Lab Sample ID:	Q2032-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	74.2
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024690.D	1	05/16/25 10:00	05/19/25 15:35	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	30.1	U	30.1	230	ug/Kg
50-32-8	Benzo(a)pyrene	39.7	U	39.7	230	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	39.2	U	39.2	230	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	36.9	U	36.9	230	ug/Kg
191-24-2	Benzo(g,h,i)perylene	34.6	U	34.6	230	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	34.4	U	34.4	230	ug/Kg
123-91-1	1,4-Dioxane	60.8	U	60.8	230	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	36.9	U	36.9	230	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	114		18 - 112	76%	SPK: 150
13127-88-3	Phenol-d6	107		15 - 107	71%	SPK: 150
4165-60-0	Nitrobenzene-d5	65.4		18 - 107	65%	SPK: 100
321-60-8	2-Fluorobiphenyl	67.0		20 - 109	67%	SPK: 100
118-79-6	2,4,6-Tribromophenol	113		10 - 116	75%	SPK: 150
1718-51-0	Terphenyl-d14	60.4		10 - 105	60%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	142000	7.651
1146-65-2	Naphthalene-d8	538000	10.422
15067-26-2	Acenaphthene-d10	309000	14.286
1517-22-2	Phenanthrene-d10	586000	17.092
1719-03-5	Chrysene-d12	715000	21.521
1520-96-3	Perylene-d12	916000	24.815

TENTATIVE IDENTIFIED COMPOUNDS

000057-55-6	Propylene Glycol	130	J	3.47	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	310	AB	4.82	ug/Kg
000770-35-4	1-Phenoxypropan-2-ol	180	J	11.2	ug/Kg
	unknown14.498	680	J	14.5	ug/Kg
	unknown14.522	1000	J	14.5	ug/Kg
000119-61-9	Benzophenone	96.4	J	15.7	ug/Kg
000057-11-4	Octadecanoic acid	1400	J	16.0	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24	SDG No.:	Q2032
Lab Sample ID:	Q2032-04	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	74.2
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024690.D	1	05/16/25 10:00	05/19/25 15:35	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000057-10-3	n-Hexadecanoic acid	1200	J		18.0	ug/Kg
001002-84-2	Pentadecanoic acid	390	J		19.4	ug/Kg
010192-32-2	1-Tetracosene	220	J		21.2	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
Data File : BP024690.D
Acq On : 19 May 2025 15:35
Operator : RC/JU
Sample : Q2032-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-24

Quant Time: May 19 18:58:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.651	152	141952	20.000	ng	-0.01
21) Naphthalene-d8	10.422	136	538017	20.000	ng	-0.01
39) Acenaphthene-d10	14.286	164	308977	20.000	ng	-0.02
64) Phenanthrene-d10	17.092	188	585624	20.000	ng	0.00
76) Chrysene-d12	21.521	240	714772	20.000	ng	0.00
86) Perylene-d12	24.815	264	916273	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.293	112	942490	113.560	ng	0.00
7) Phenol-d6	6.863	99	1132163	106.884	ng	0.01
23) Nitrobenzene-d5	8.804	82	696352	65.396	ng	0.00
42) 2,4,6-Tribromophenol	15.816	330	591929	113.006	ng	0.00
45) 2-Fluorobiphenyl	12.898	172	1581258	67.048	ng	0.00
79) Terphenyl-d14	19.810	244	2518645	60.421	ng	0.00

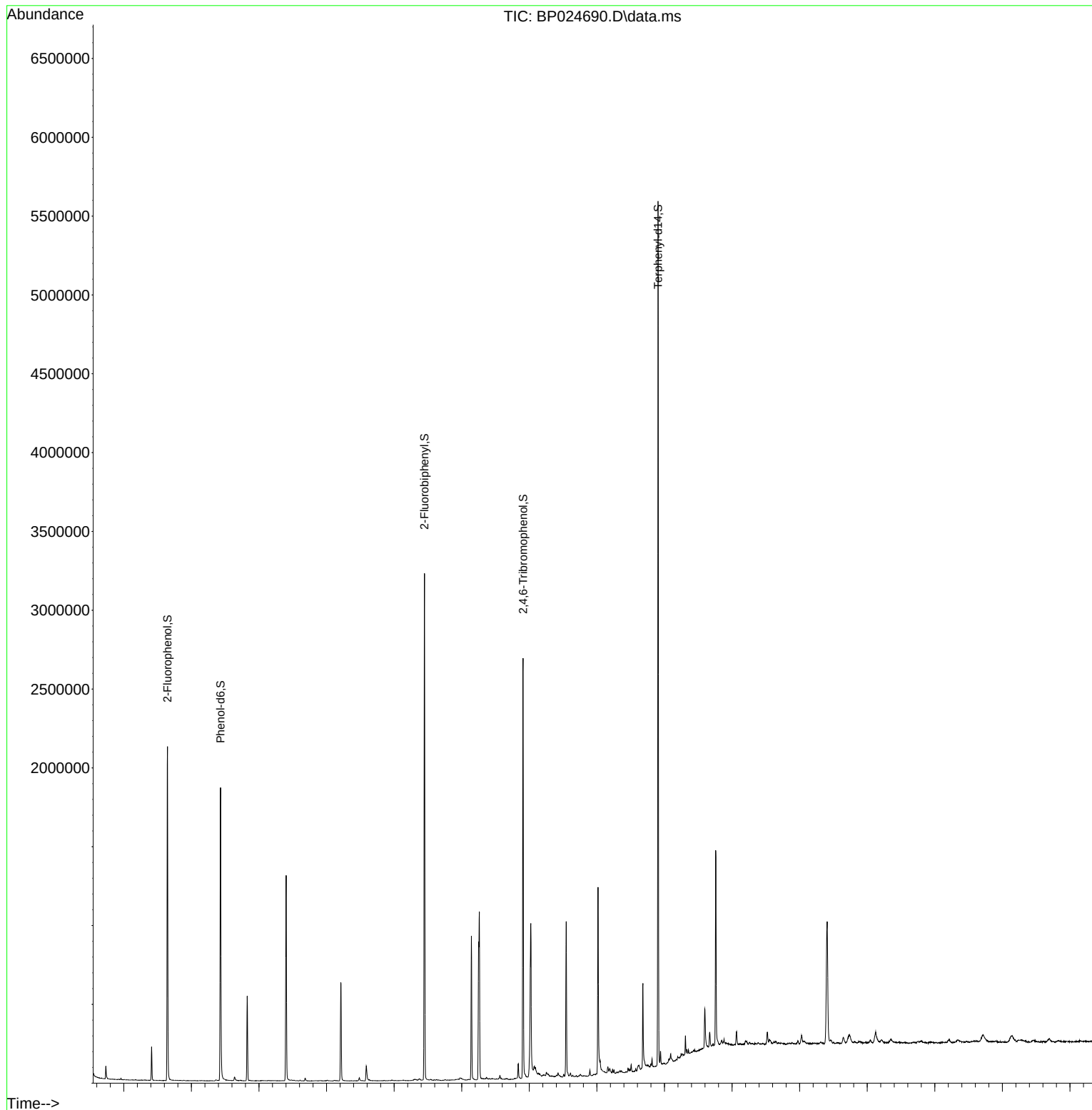
Target Compounds	Qvalue

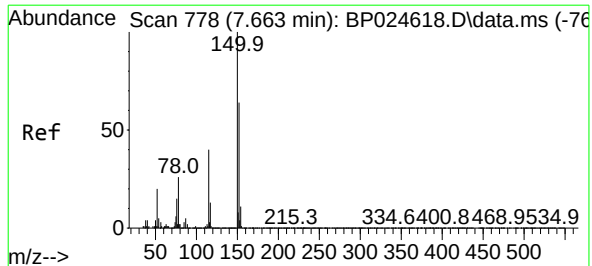
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
Data File : BP024690.D
Acq On : 19 May 2025 15:35
Operator : RC/JU
Sample : Q2032-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-24

Quant Time: May 19 18:58:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

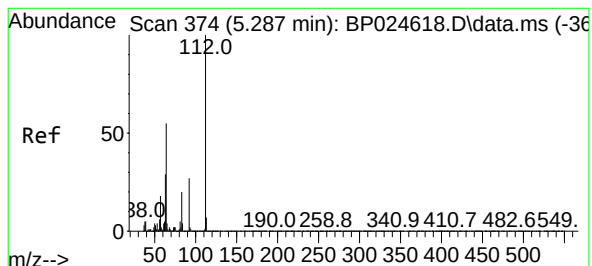
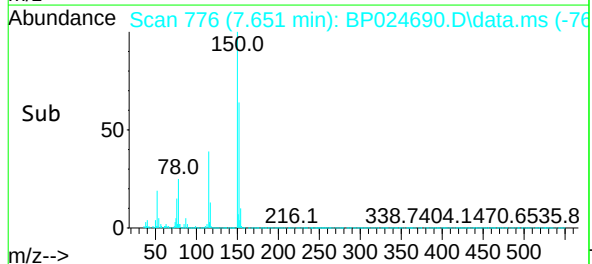
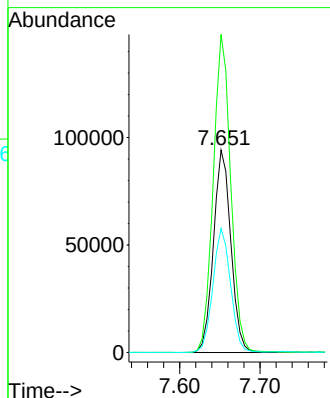
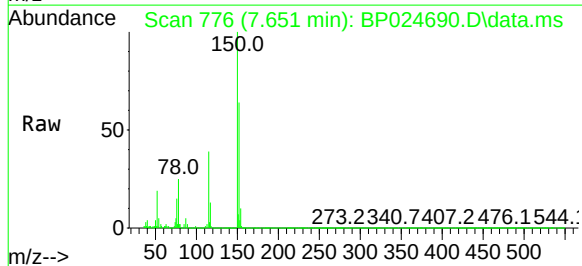




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.651 min Scan# 778
Delta R.T. -0.012 min
Lab File: BP024690.D
Acq: 19 May 2025 15:35

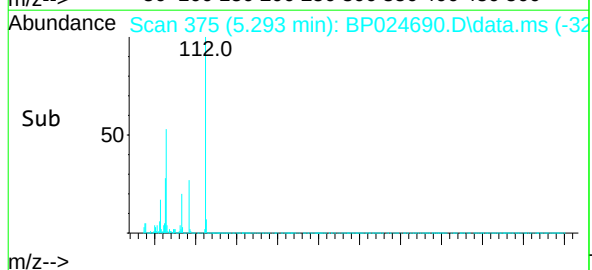
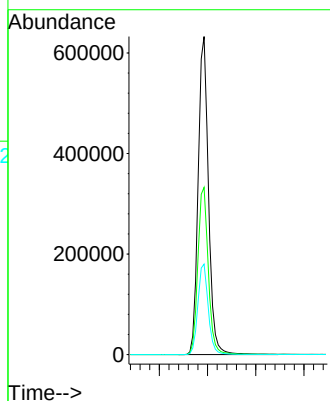
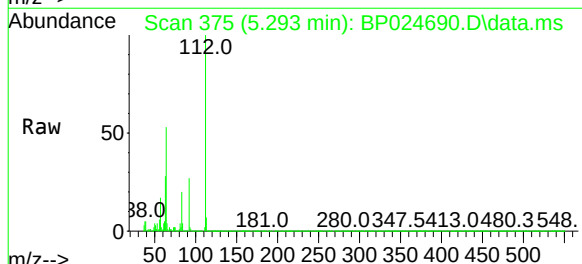
Instrument :
BNA_P
ClientSampleId :
TP-24

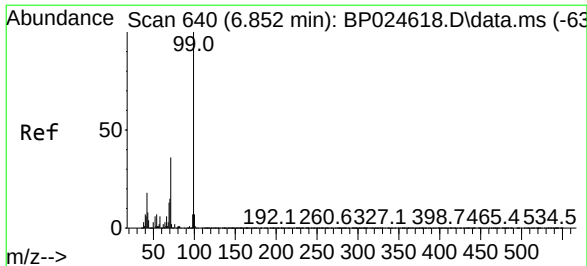
Tgt Ion	Ratio	Lower	Upper
152	100		
150	157.1	125.9	188.9
115	61.3	50.1	75.1



#5
2-Fluorophenol
Concen: 113.560 ng
RT: 5.293 min Scan# 375
Delta R.T. 0.006 min
Lab File: BP024690.D
Acq: 19 May 2025 15:35

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.6	44.1	66.1
63	28.5	23.5	35.3





#7

Phenol-d6

Concen: 106.884 ng

RT: 6.863 min Scan# 64

Delta R.T. 0.012 min

Lab File: BP024690.D

Acq: 19 May 2025 15:35

Instrument :

BNA_P

ClientSampleId :

TP-24

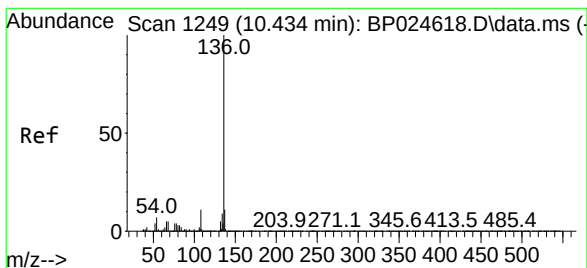
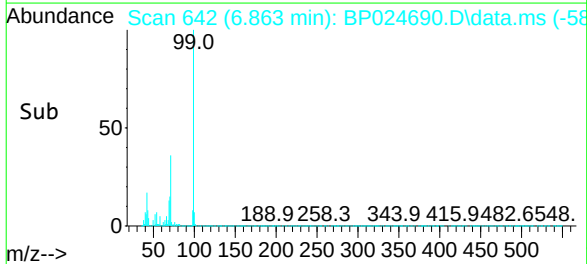
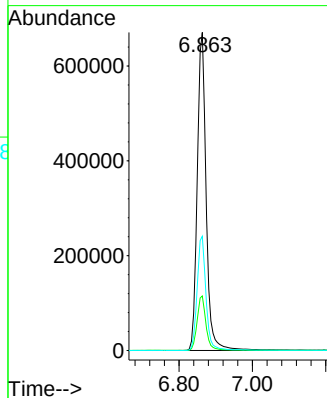
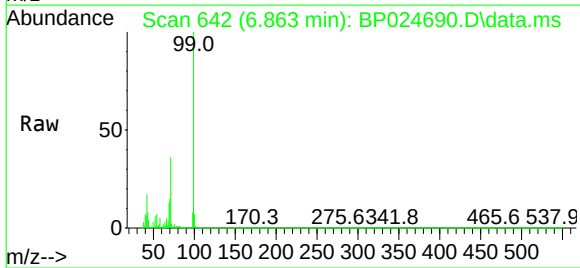
Tgt Ion: 99 Resp: 1132163

Ion Ratio Lower Upper

99 100

42 17.1 14.4 21.6

71 35.9 29.2 43.8



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.422 min Scan# 1247

Delta R.T. -0.012 min

Lab File: BP024690.D

Acq: 19 May 2025 15:35

Tgt Ion: 136 Resp: 538017

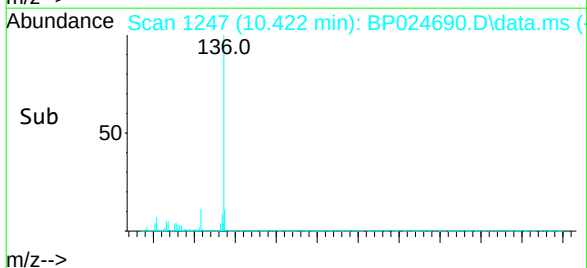
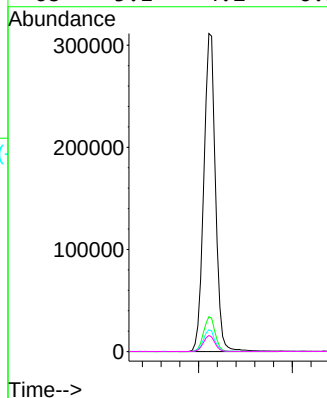
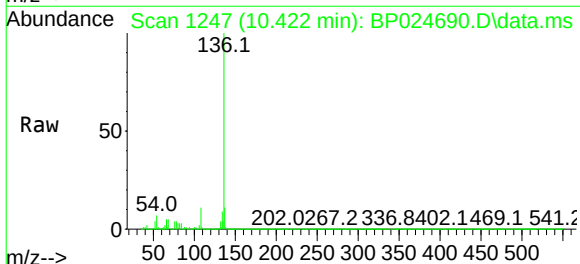
Ion Ratio Lower Upper

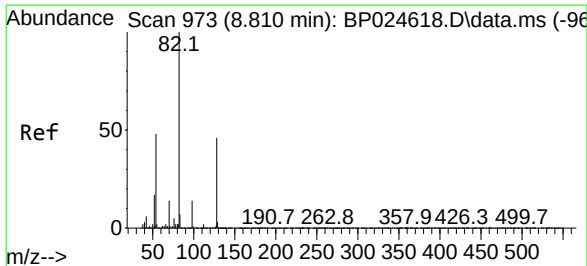
136 100

137 11.0 8.8 13.2

54 6.8 5.5 8.3

68 5.1 4.2 6.2





#23

Nitrobenzene-d5

Concen: 65.396 ng

RT: 8.804 min Scan# 97

Delta R.T. -0.006 min

Lab File: BP024690.D

Acq: 19 May 2025 15:35

Instrument :

BNA_P

ClientSampleId :

TP-24

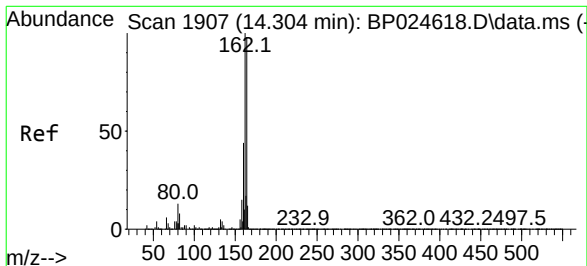
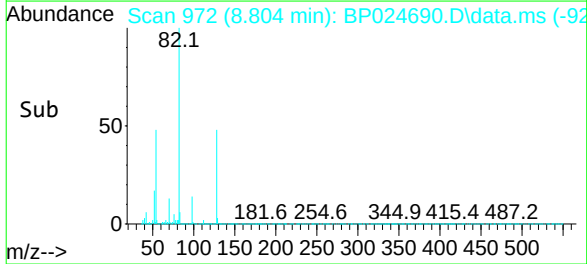
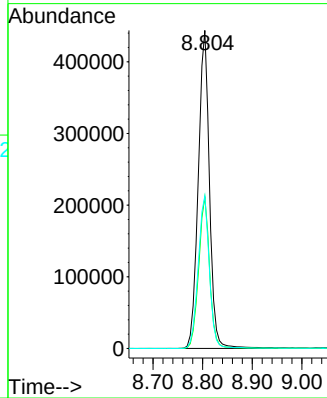
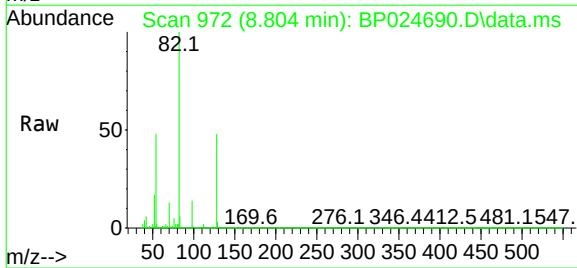
Tgt Ion: 82 Resp: 696352

Ion Ratio Lower Upper

82 100

128 47.6 37.0 55.4

54 48.0 38.7 58.1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.286 min Scan# 1904

Delta R.T. -0.018 min

Lab File: BP024690.D

Acq: 19 May 2025 15:35

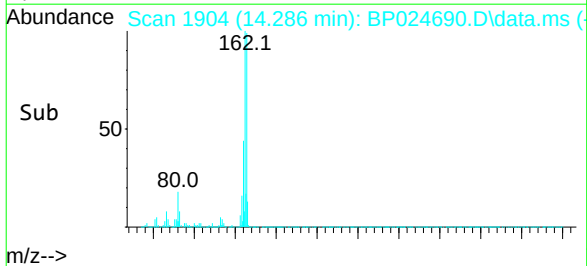
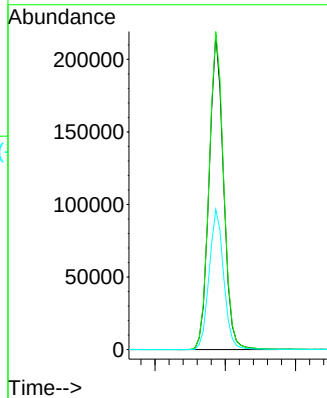
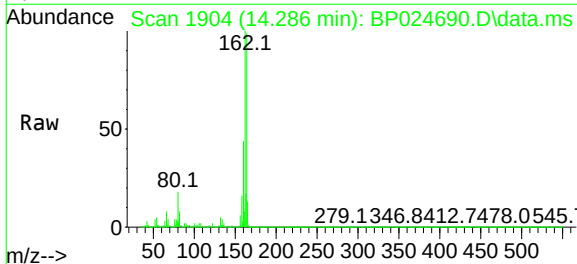
Tgt Ion: 164 Resp: 308977

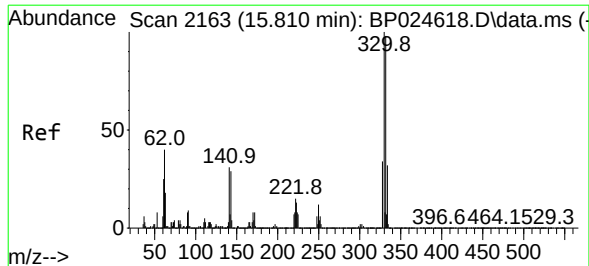
Ion Ratio Lower Upper

164 100

162 101.0 81.8 122.6

160 44.5 36.3 54.5





#42

2,4,6-Tribromophenol

Concen: 113.006 ng

RT: 15.816 min Scan# 2163

Delta R.T. 0.006 min

Lab File: BP024690.D

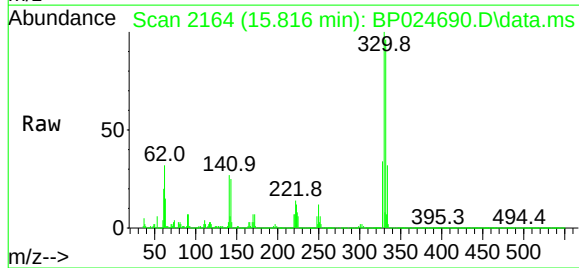
Acq: 19 May 2025 15:35

Instrument :

BNA_P

ClientSampleId :

TP-24



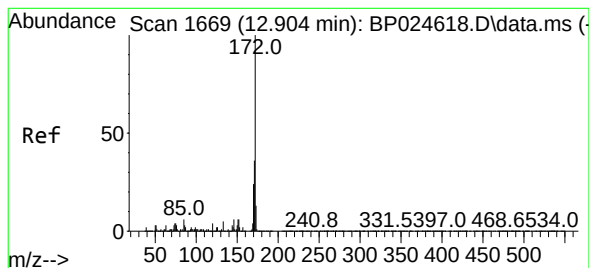
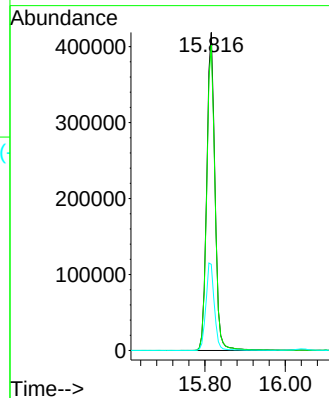
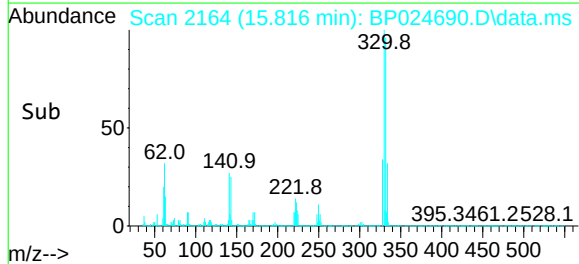
Tgt Ion:330 Resp: 591929

Ion Ratio Lower Upper

330 100

332 96.6 78.2 117.4

141 28.4 24.3 36.5



#45

2-Fluorobiphenyl

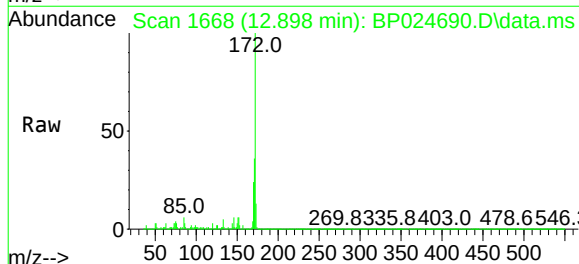
Concen: 67.048 ng

RT: 12.898 min Scan# 1668

Delta R.T. -0.006 min

Lab File: BP024690.D

Acq: 19 May 2025 15:35



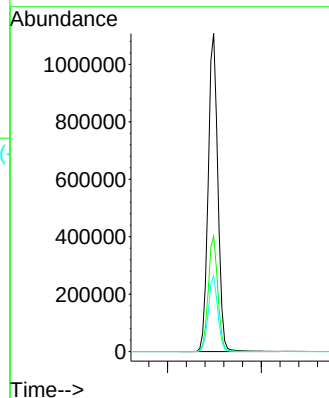
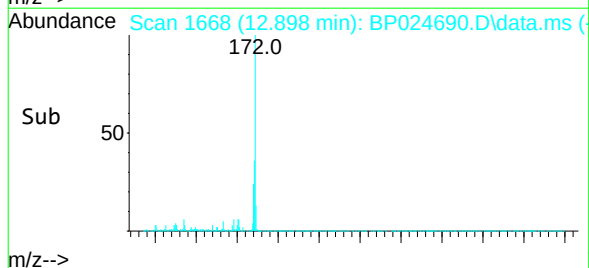
Tgt Ion:172 Resp: 1581258

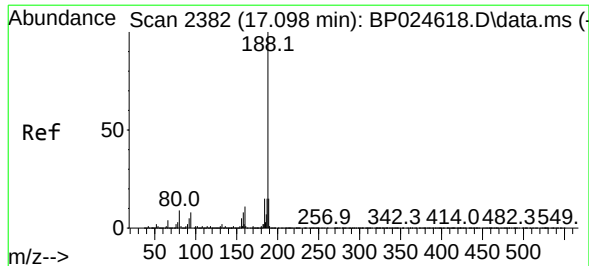
Ion Ratio Lower Upper

172 100

171 36.3 28.8 43.2

170 23.7 18.8 28.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.092 min Scan# 2382

Delta R.T. -0.006 min

Lab File: BP024690.D

Acq: 19 May 2025 15:35

Instrument :

BNA_P

ClientSampleId :

TP-24

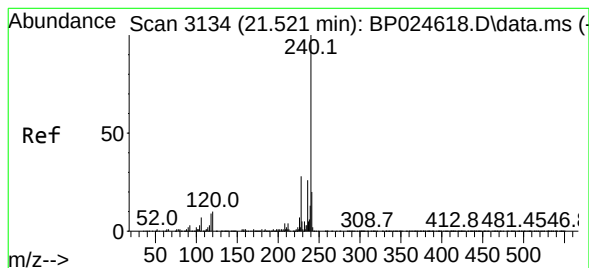
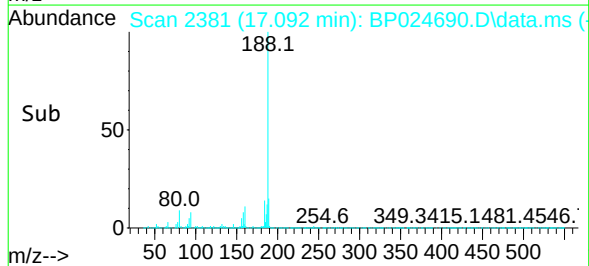
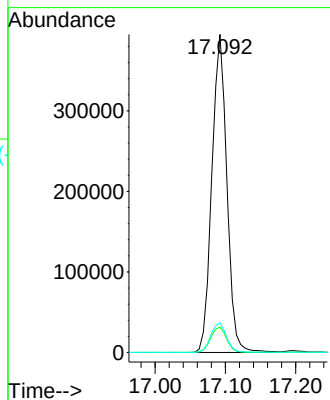
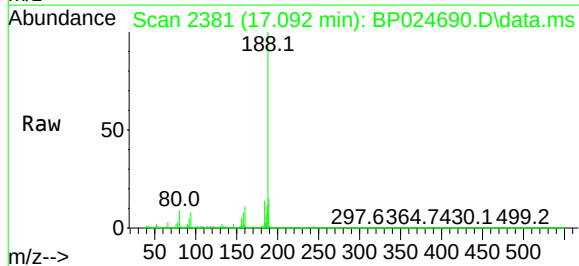
Tgt Ion:188 Resp: 585624

Ion Ratio Lower Upper

188 100

94 8.0 6.5 9.7

80 9.4 7.3 10.9



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.521 min Scan# 3134

Delta R.T. -0.000 min

Lab File: BP024690.D

Acq: 19 May 2025 15:35

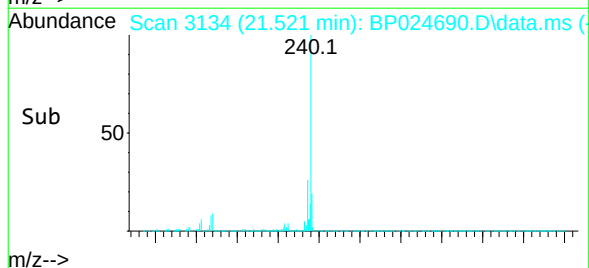
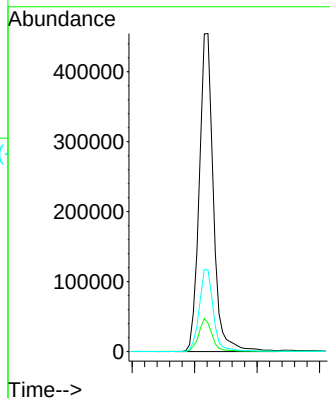
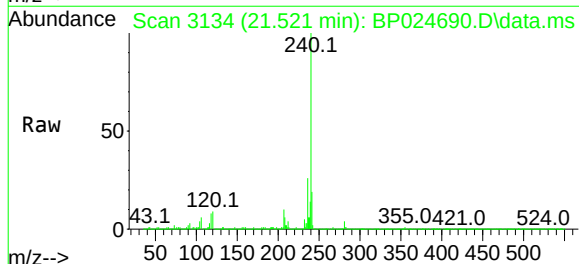
Tgt Ion:240 Resp: 714772

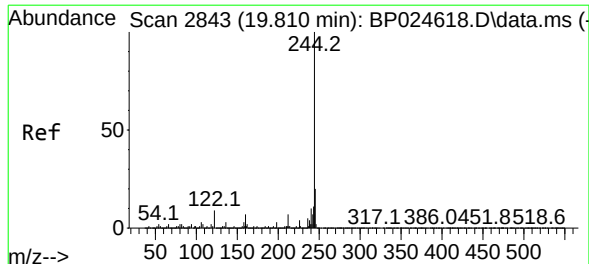
Ion Ratio Lower Upper

240 100

120 8.9 7.8 11.6

236 25.6 20.6 31.0





#79

Terphenyl-d14

Concen: 60.421 ng

RT: 19.810 min Scan# 28

Delta R.T. -0.000 min

Lab File: BP024690.D

Acq: 19 May 2025 15:35

Instrument :

BNA_P

ClientSampleId :

TP-24

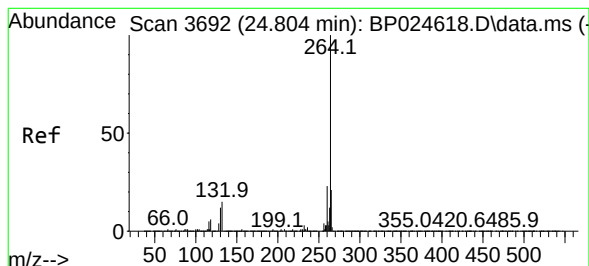
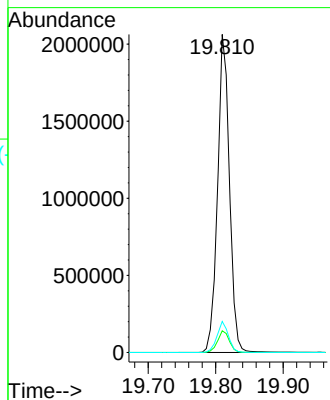
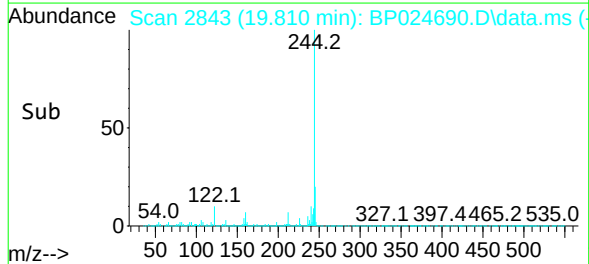
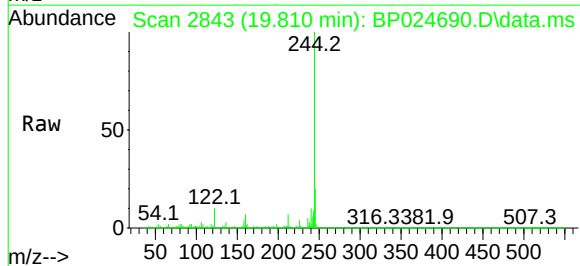
Tgt Ion:244 Resp: 2518645

Ion Ratio Lower Upper

244 100

212 6.8 5.5 8.3

122 9.8 7.4 11.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.815 min Scan# 3694

Delta R.T. 0.012 min

Lab File: BP024690.D

Acq: 19 May 2025 15:35

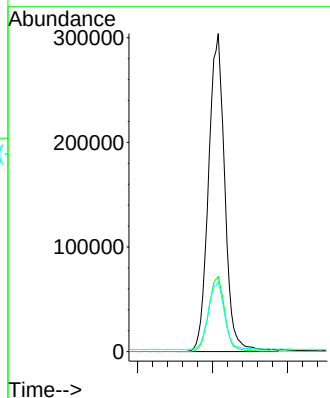
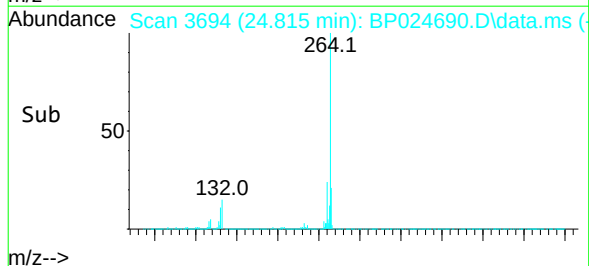
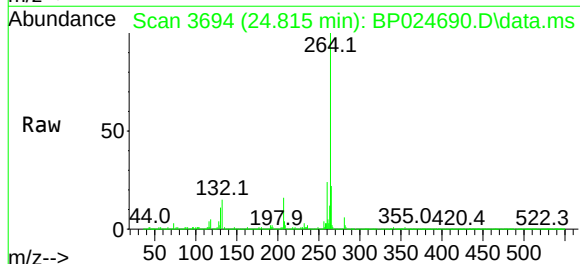
Tgt Ion:264 Resp: 916273

Ion Ratio Lower Upper

264 100

260 23.6 18.7 28.1

265 22.0 17.0 25.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
 Data File : BP024690.D
 Acq On : 19 May 2025 15:35
 Operator : RC/JU
 Sample : Q2032-04
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 TP-24

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

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

Signal : TIC: BP024690.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.469	61	65	73	rBV	80682	115114	1.72%	0.275%
2	4.822	287	295	303	rBV	213128	286319	4.29%	0.684%
3	5.293	368	375	397	rBV	2118735	3172550	47.53%	7.576%
4	6.863	634	642	669	rBV	1858315	3160236	47.34%	7.546%
5	7.651	767	776	785	rBV	538046	824819	12.36%	1.970%
6	8.804	963	972	986	rBV	1302350	2045412	30.64%	4.884%
7	10.422	1239	1247	1260	rBV	624956	1083384	16.23%	2.587%
8	11.175	1368	1375	1386	rBV	93880	215290	3.23%	0.514%
9	12.898	1661	1668	1684	rBV	3213354	4599697	68.91%	10.983%
10	14.286	1898	1904	1917	rBV	911668	1319010	19.76%	3.150%
11	14.498	1934	1940	1941	rBV	874614	1005140	15.06%	2.400%
12	14.522	1941	1944	1952	rVB	1057680	1495949	22.41%	3.572%
13	15.675	2134	2140	2146	rBV	91324	141717	2.12%	0.338%
14	15.816	2156	2164	2182	rBV	2665319	3970020	59.47%	9.480%
15	16.045	2189	2203	2212	rBV	973556	2369865	35.50%	5.659%
16	17.092	2374	2381	2388	rBV2	980255	1489689	22.32%	3.557%
17	18.033	2535	2541	2551	rBV	1184083	1940789	29.07%	4.634%
18	19.233	2738	2745	2755	rBV7	29091	99577	1.49%	0.238%
19	19.363	2762	2767	2780	rBV	536055	846088	12.67%	2.020%
20	19.810	2837	2843	2851	rBV	5481647	6675415	100.00%	15.940%
21	19.880	2852	2855	2861	rVB	80442	112474	1.68%	0.269%
22	20.621	2977	2981	2985	rBV	119160	147685	2.21%	0.353%
23	21.192	3074	3078	3091	rBV	238923	466593	6.99%	1.114%
24	21.339	3099	3103	3112	rVB2	87119	163382	2.45%	0.390%
25	21.515	3128	3133	3150	rBV	1232909	1926307	28.86%	4.600%
26	24.815	3684	3694	3707	rVB	758910	2206528	33.05%	5.269%

Sum of corrected areas: 41879049

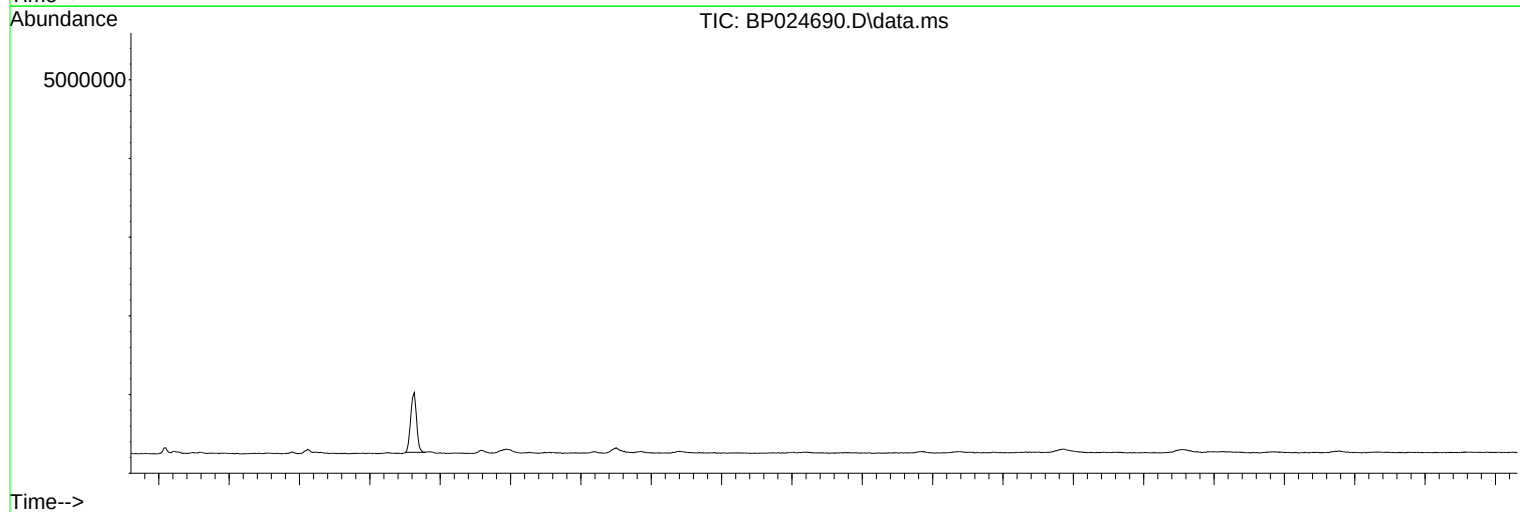
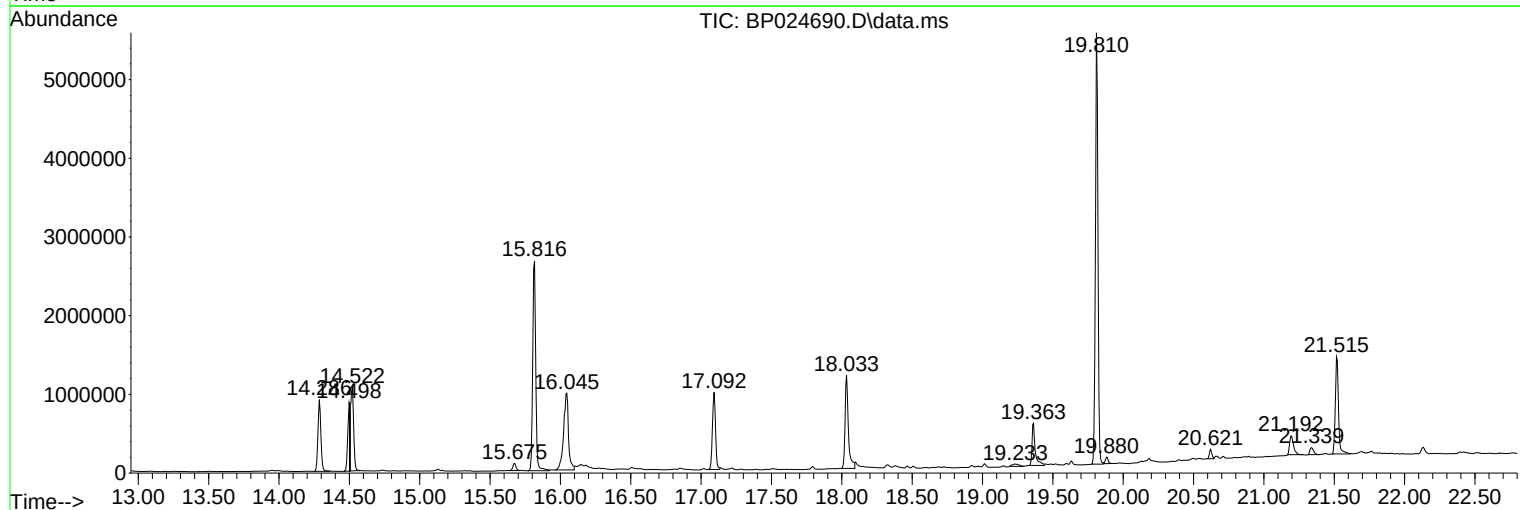
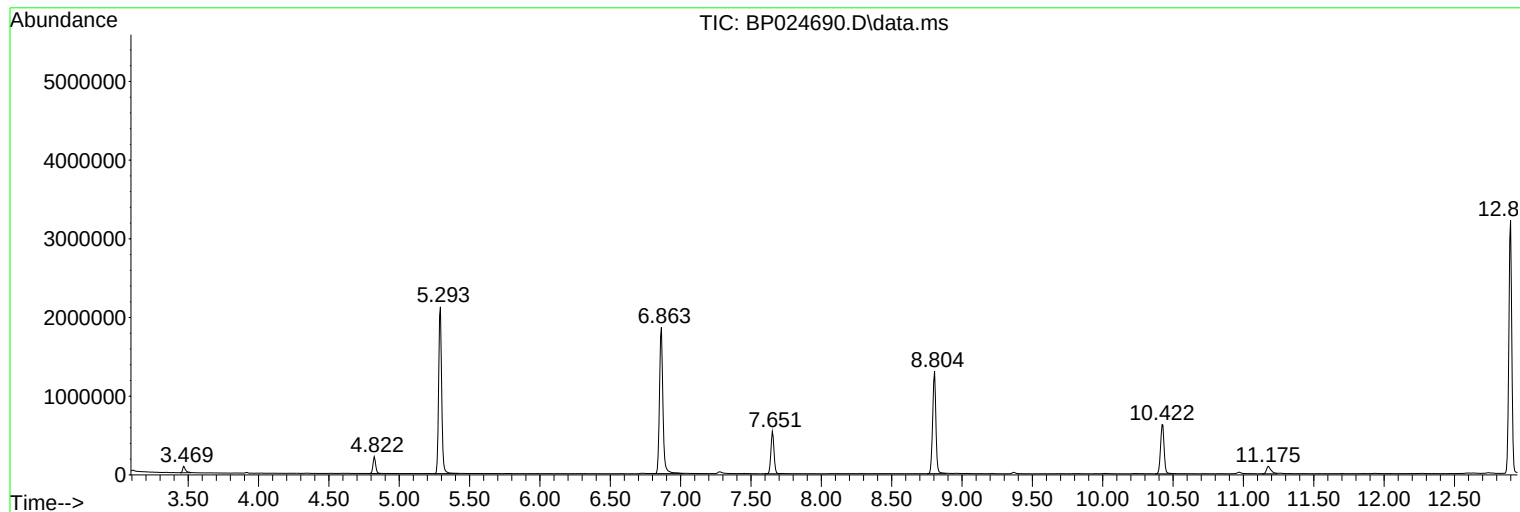
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Operator : RC/JU
Sample : Q2032-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-24

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

TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P



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Acq On : 19 May 2025 15:35
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Sample : Q2032-04
Misc :
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Instrument :
BNA_P
ClientSampleId :
TP-24

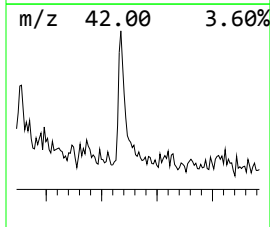
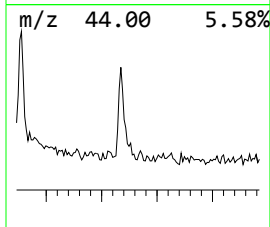
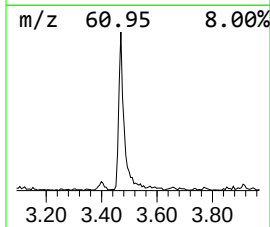
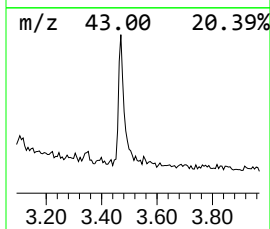
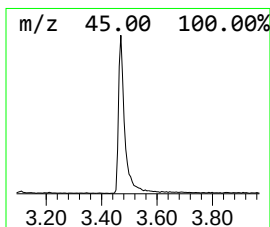
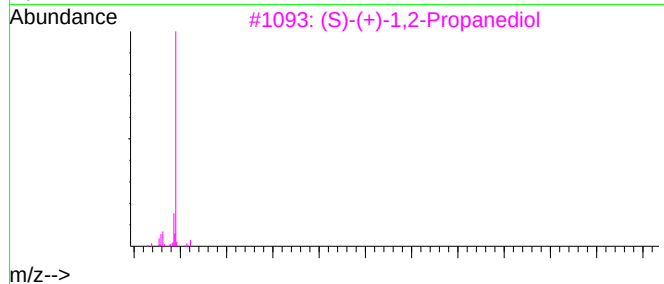
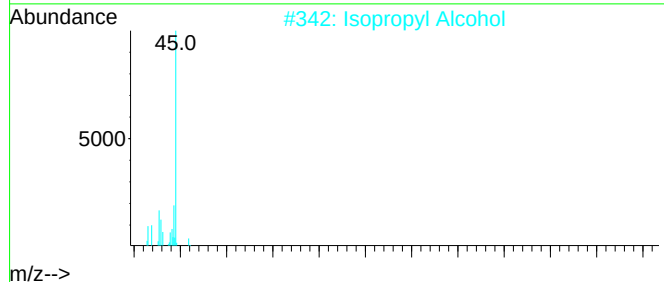
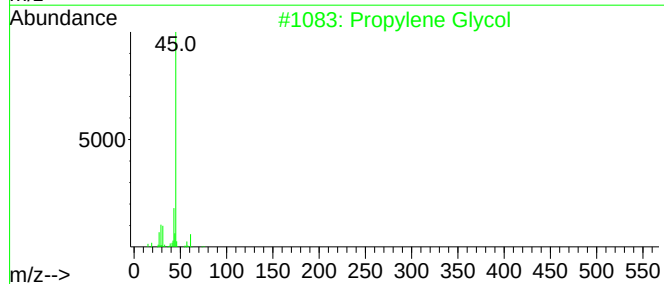
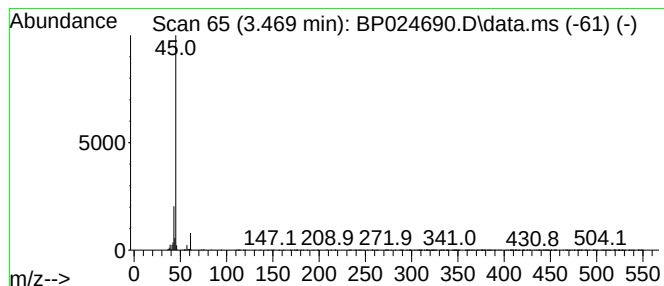
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Propylene Glycol Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.469	2.79 ng	115114	1,4-Dichlorobenzene-d4	7.651

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propylene Glycol	76	C3H8O2	000057-55-6	78
2	Isopropyl Alcohol	60	C3H8O	000067-63-0	56
3	(S)-(+)-1,2-Propanediol	76	C3H8O2	004254-15-3	40
4	2-Heptanol, (S)-	116	C7H16O	006033-23-4	9
5	2-Pentanol, 4-methyl-	102	C6H14O	000108-11-2	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
Data File : BP024690.D
Acq On : 19 May 2025 15:35
Operator : RC/JU
Sample : Q2032-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

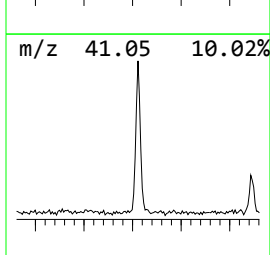
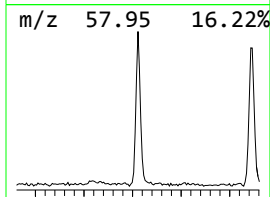
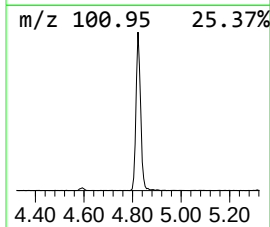
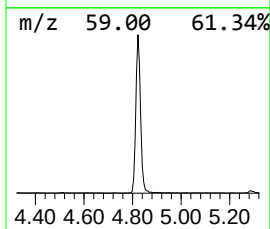
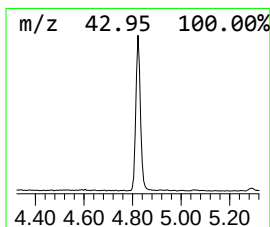
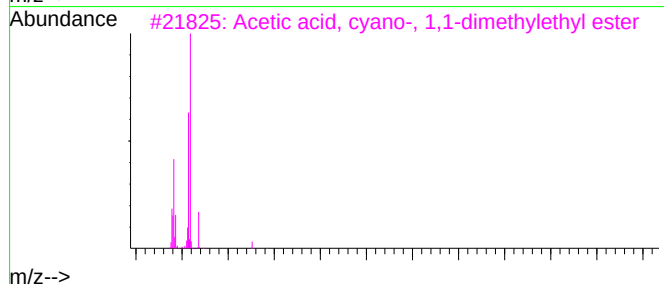
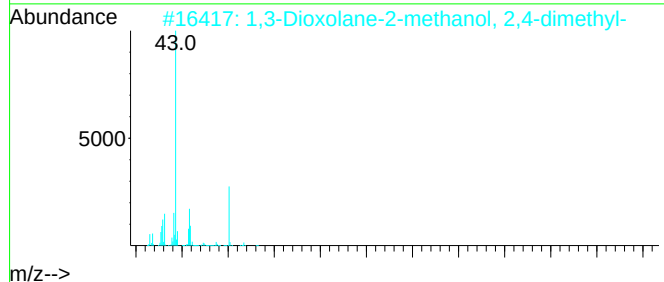
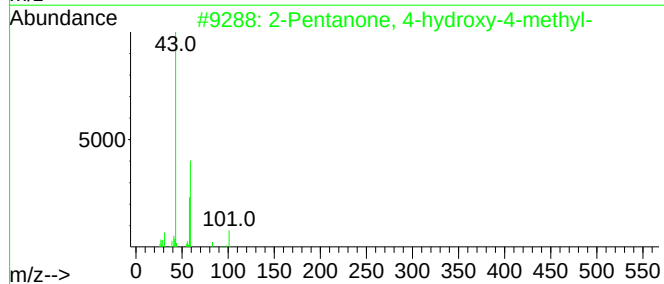
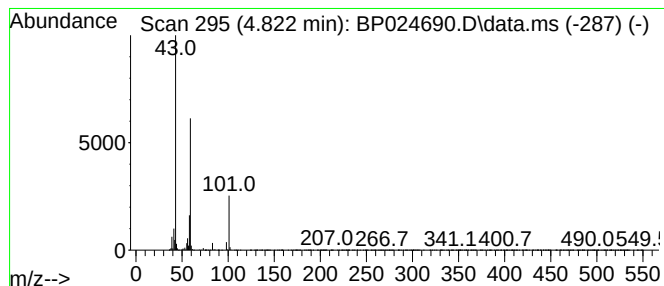
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ClientSampleId :
TP-24

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

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

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.	
4.822	6.94 ng	286319	1,4-Dichlorobenzene-d4	7.651	
Hit# of 5	Tentative ID		MW MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-		116 C6H12O2	000123-42-2	56
2	1,3-Dioxolane-2-methanol, 2,4-di...		132 C6H12O3	053951-43-2	25
3	Acetic acid, cyano-, 1,1-dimethy...		141 C7H11NO2	001116-98-9	25
4	Tetraglyme		222 C10H22O5	000143-24-8	23
5	2,5,8,11-Tetraoxadodecane		178 C8H18O4	000112-49-2	17



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
Data File : BP024690.D
Acq On : 19 May 2025 15:35
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Sample : Q2032-04
Misc :
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Instrument :
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ClientSampleId :
TP-24

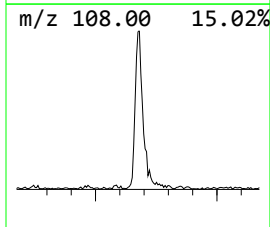
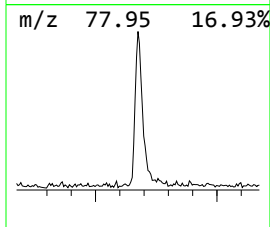
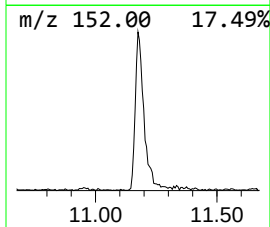
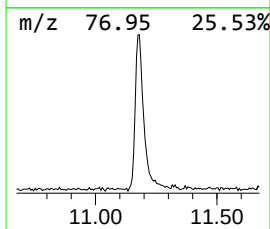
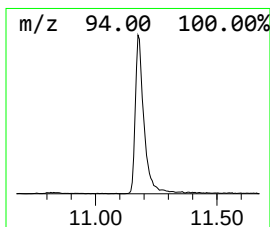
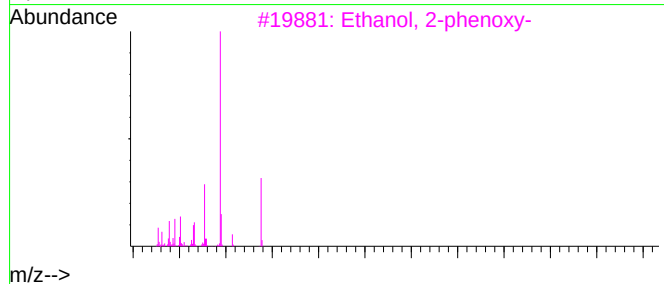
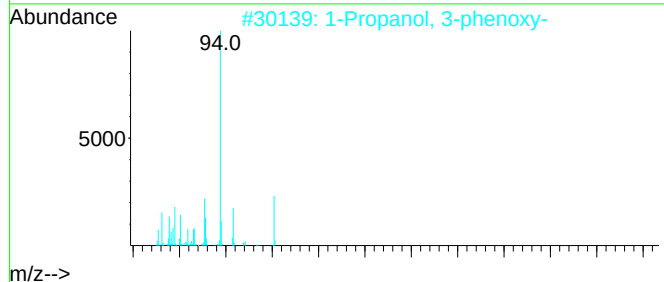
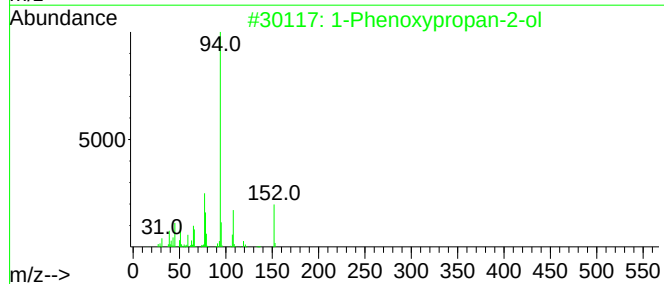
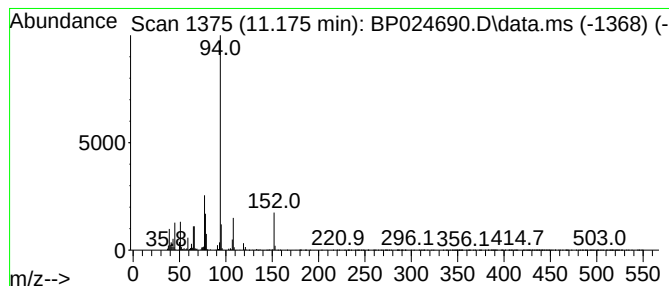
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 1-Phenoxypropan-2-ol Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.175	3.97 ng	215290	Naphthalene-d8	10.422

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Phenoxypropan-2-ol	152	C9H12O2	000770-35-4	96
2	1-Propanol, 3-phenoxy-	152	C9H12O2	006180-61-6	87
3	Ethanol, 2-phenoxy-	138	C8H10O2	000122-99-6	64
4	3-(.alpha.-Hydroxyethyl)-aniline	137	C8H11NO	002454-37-7	59
5	1-Propanol, 2-phenoxy-	152	C9H12O2	004169-04-4	59



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
Data File : BP024690.D
Acq On : 19 May 2025 15:35
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Sample : Q2032-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

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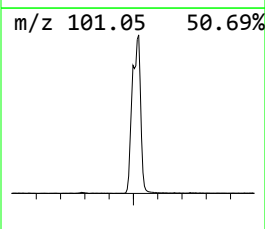
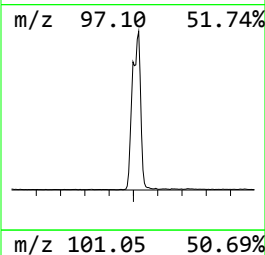
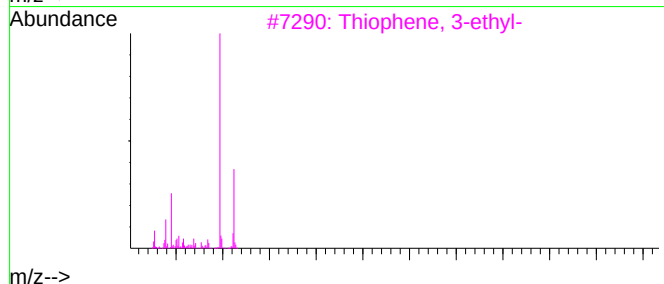
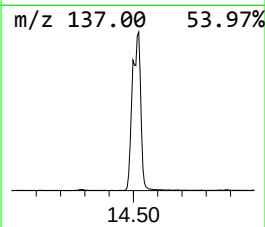
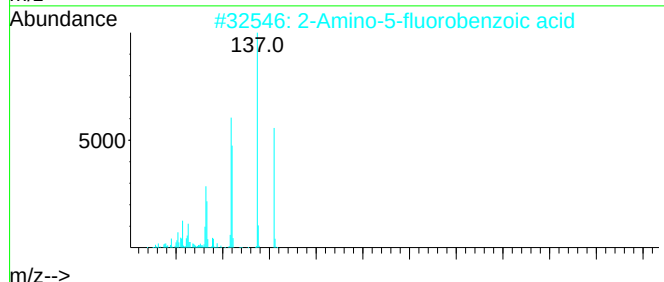
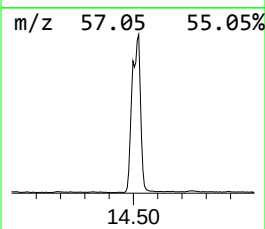
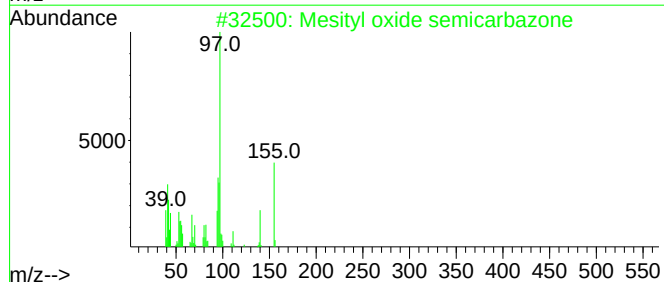
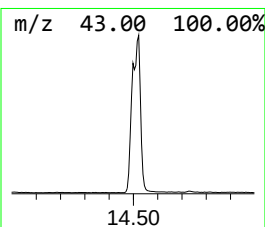
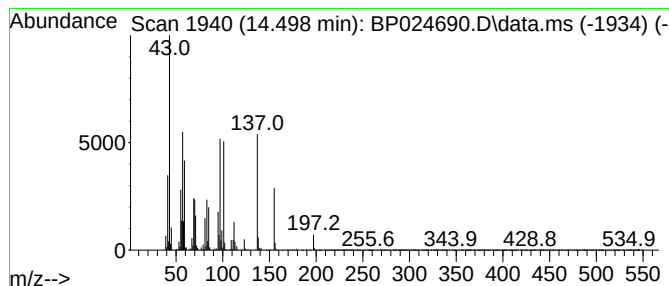
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 unknown14.498 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.498	15.24 ng	1005140	Acenaphthene-d10	14.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Mesityl oxide semicarbazone	155	C7H13N3O	003780-62-9	18
2	2-Amino-5-fluorobenzoic acid	155	C7H6FN02	000446-08-2	11
3	Thiophene, 3-ethyl-	112	C6H8S	001795-01-3	11
4	Cyclohexane, 1,3-dimethyl-	112	C8H16	000591-21-9	11
5	6-Undecyl-5,6-dihydro-2H-pyran-2...	252	C16H28O2	081017-06-3	11



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
Data File : BP024690.D
Acq On : 19 May 2025 15:35
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Sample : Q2032-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
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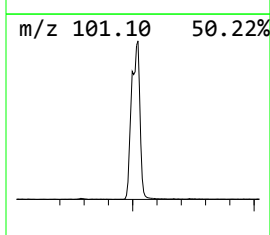
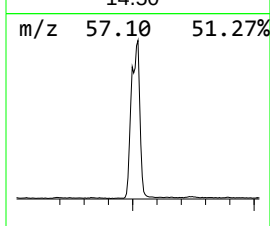
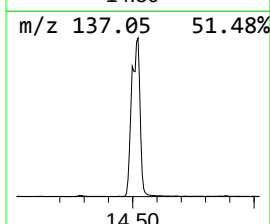
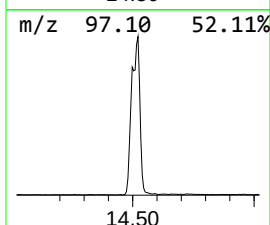
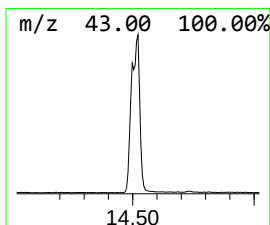
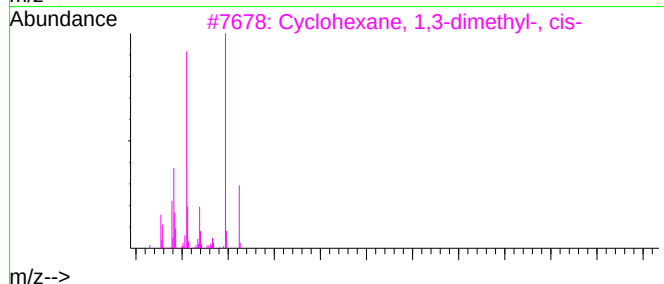
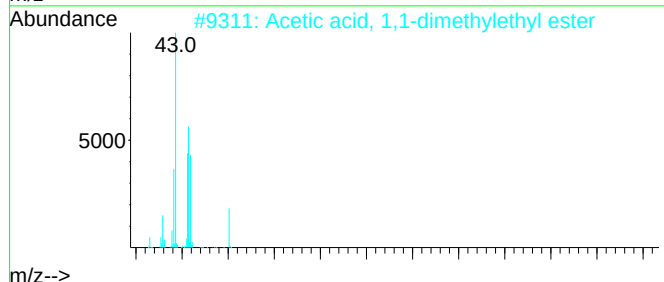
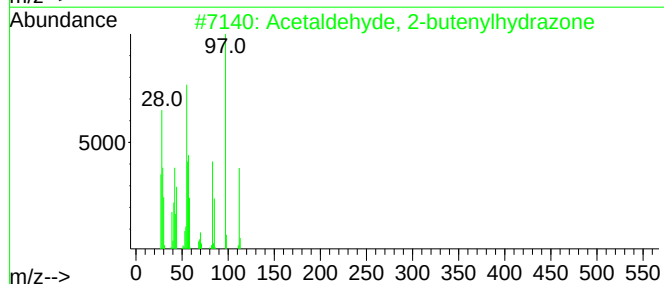
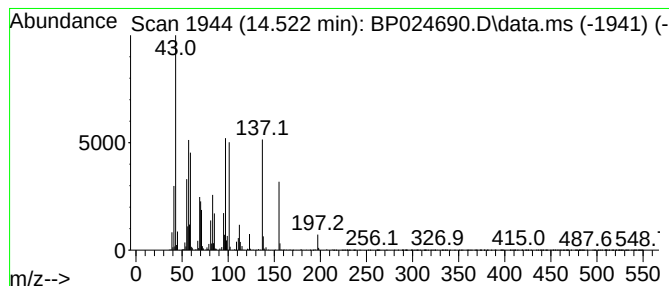
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TIC Integration Parameters: LSCINT.P

Peak Number 5 unknown14.522 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.522	22.68 ng	1495950	Acenaphthene-d10	14.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetaldehyde, 2-butenylhydrazone	112	C6H12N2	075268-07-4	14
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	14
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	11
4	Dodecane, 1-bromo-	248	C12H25Br	000143-15-7	11
5	7-Oxabicyclo[4.1.0]heptane, 1-me...	112	C7H12O	001713-33-3	11



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
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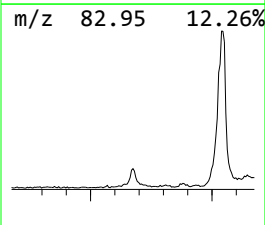
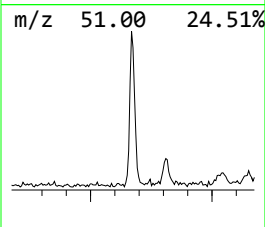
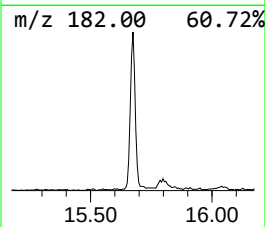
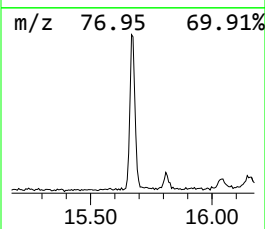
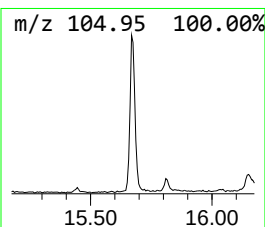
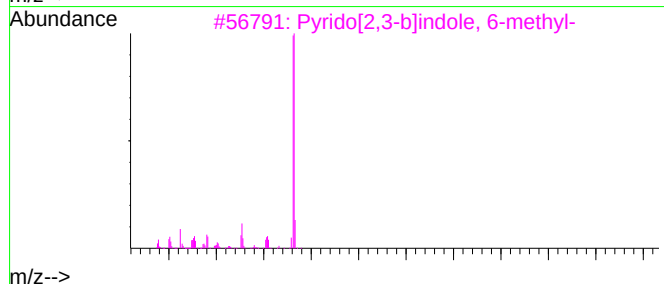
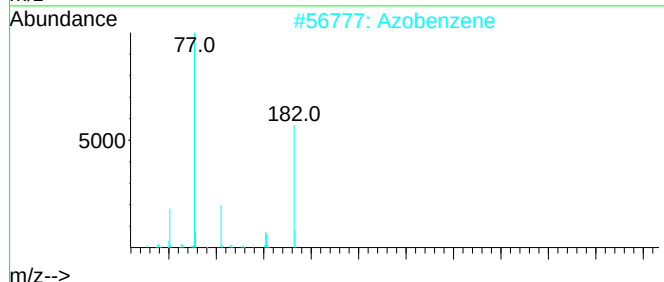
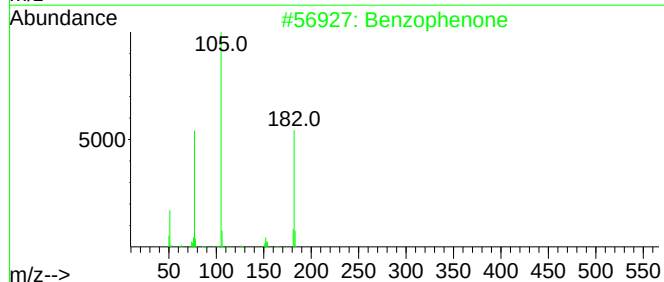
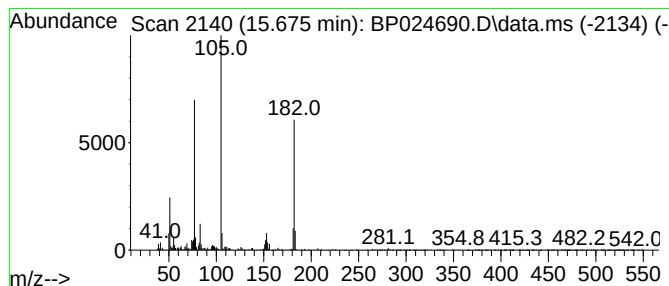
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Benzophenone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.675	2.15 ng	141717	Acenaphthene-d10	14.286

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	97
2	Azobenzene	182	C12H10N2	000103-33-3	37
3	Pyrido[2,3-b]indole, 6-methyl-	182	C12H10N2	108349-67-3	27
4	Phenazine, 5,10-dihydro-	182	C12H10N2	000613-32-1	27
5	9-Borabicyclo[3.3.1]nonane, 9-et...	182	C10H19BS	1000155-58-6	25



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
Data File : BP024690.D
Acq On : 19 May 2025 15:35
Operator : RC/JU
Sample : Q2032-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-24

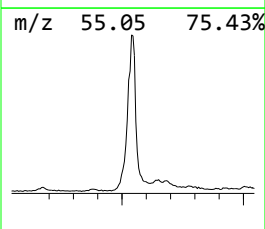
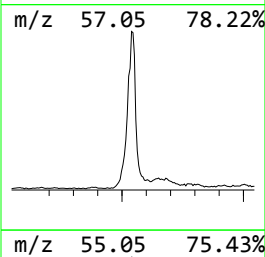
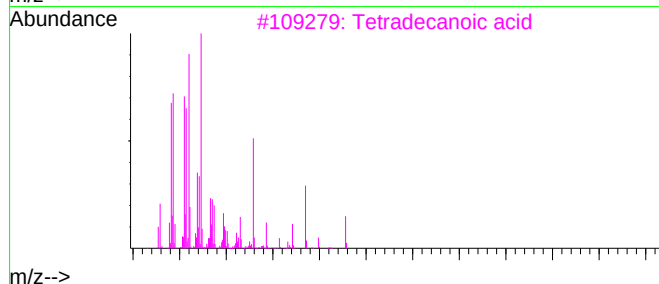
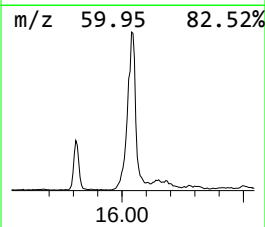
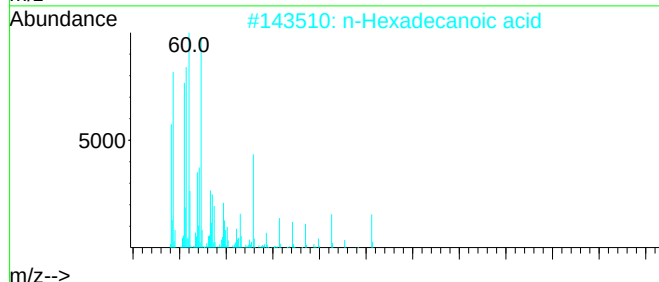
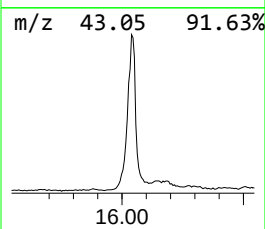
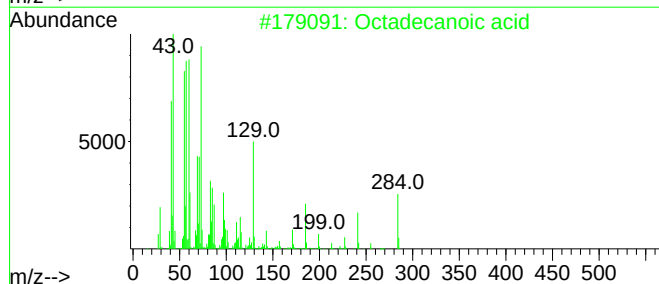
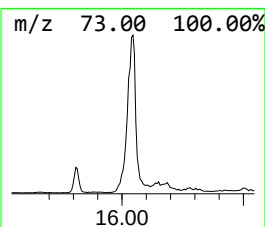
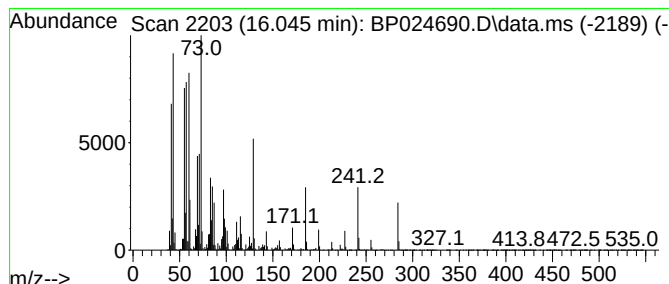
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Octadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.045	31.82 ng	2369870	Phenanthrene-d10	17.092

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	81
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	81
4	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	72
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	70



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
Data File : BP024690.D
Acq On : 19 May 2025 15:35
Operator : RC/JU
Sample : Q2032-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

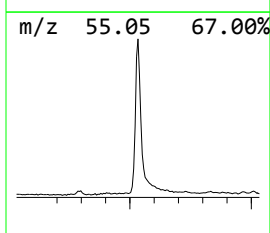
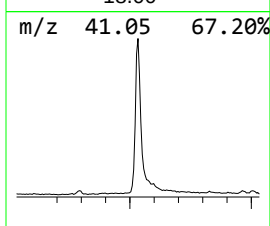
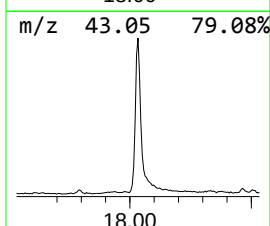
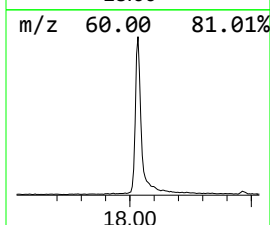
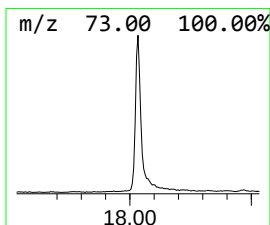
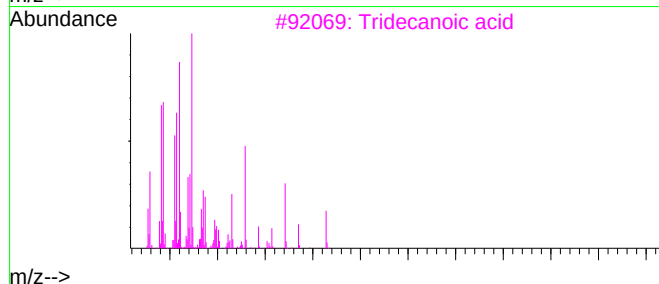
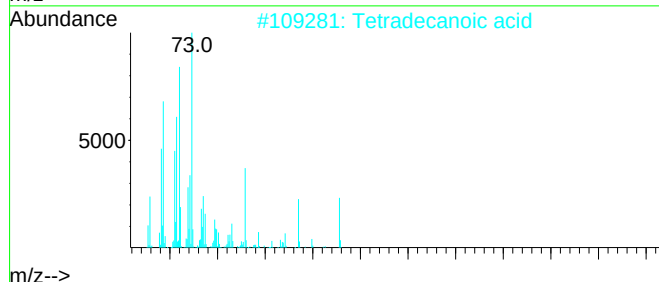
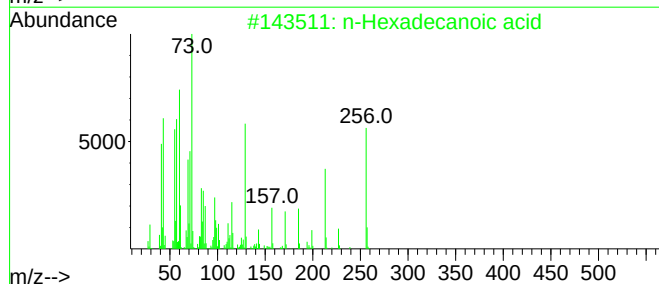
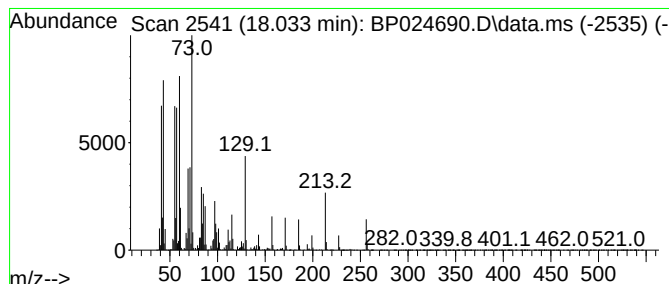
Instrument :
BNA_P
ClientSampleId :
TP-24

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

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

Peak Number 8 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD		R.T.	
18.033	26.06 ng	1940790	Phenanthrene-d10		17.092	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid		256	C16H32O2	000057-10-3	99
2	Tetradecanoic acid		228	C14H28O2	000544-63-8	95
3	Tridecanoic acid		214	C13H26O2	000638-53-9	94
4	Pentadecanoic acid		242	C15H30O2	001002-84-2	93
5	Undecanoic acid		186	C11H22O2	000112-37-8	83



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
Data File : BP024690.D
Acq On : 19 May 2025 15:35
Operator : RC/JU
Sample : Q2032-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

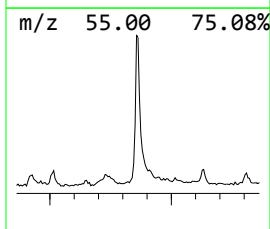
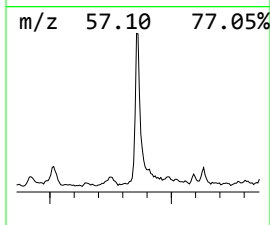
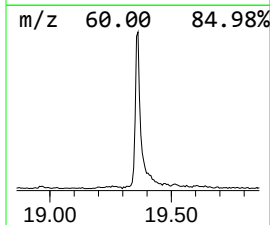
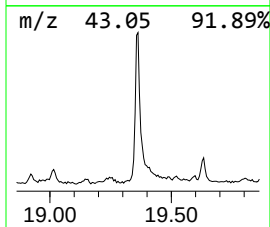
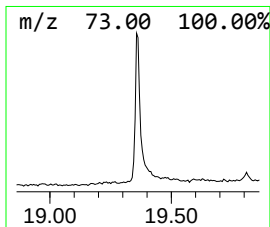
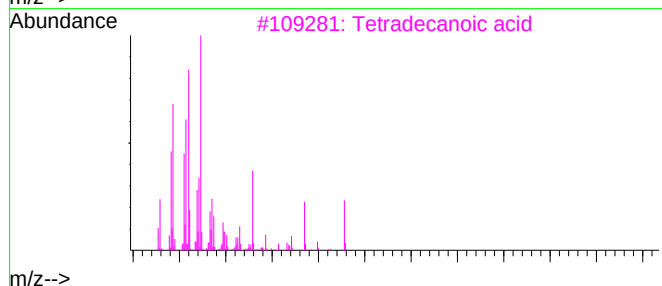
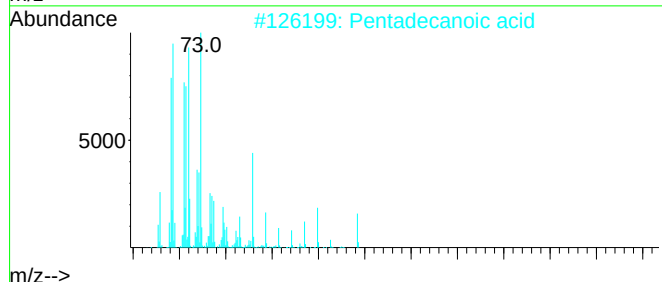
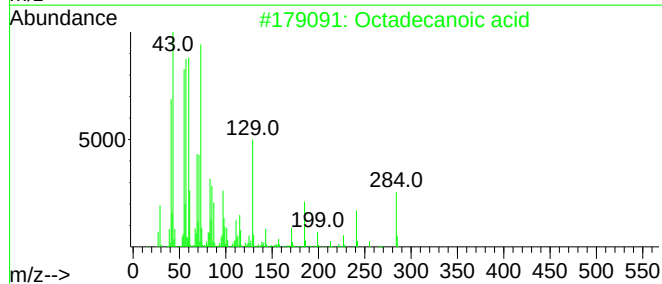
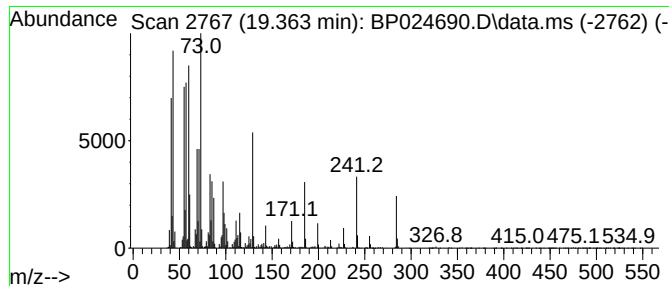
Instrument :
BNA_P
ClientSampleId :
TP-24

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

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

Peak Number 9 Pentadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD		R.T.	
19.363	8.78 ng	846088	Chrysene-d12		21.521	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Octadecanoic acid		284	C18H36O2	000057-11-4	99
2	Pentadecanoic acid		242	C15H30O2	001002-84-2	92
3	Tetradecanoic acid		228	C14H28O2	000544-63-8	74
4	n-Hexadecanoic acid		256	C16H32O2	000057-10-3	74
5	Tridecanoic acid		214	C13H26O2	000638-53-9	72



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
Data File : BP024690.D
Acq On : 19 May 2025 15:35
Operator : RC/JU
Sample : Q2032-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-24

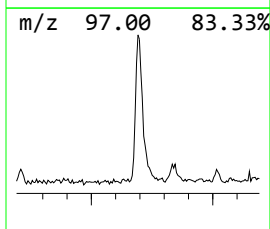
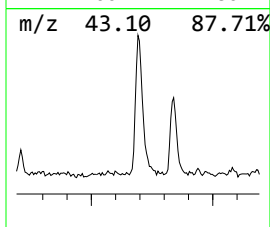
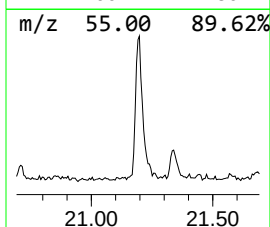
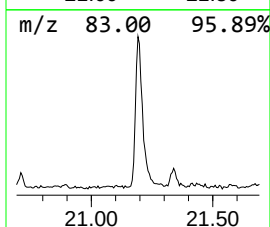
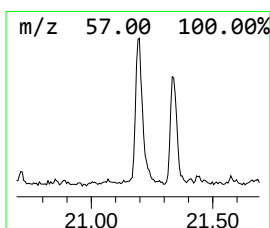
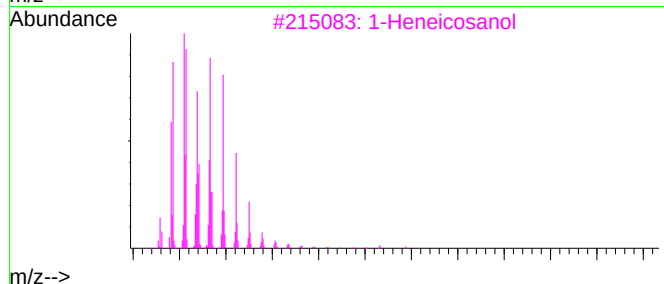
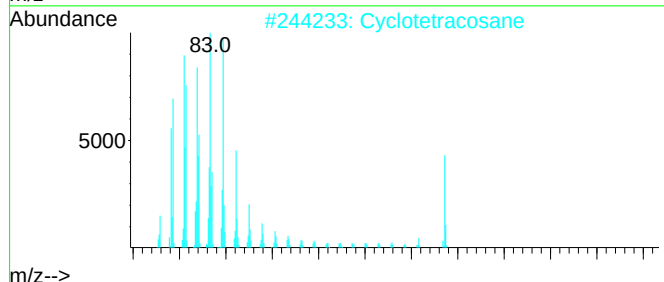
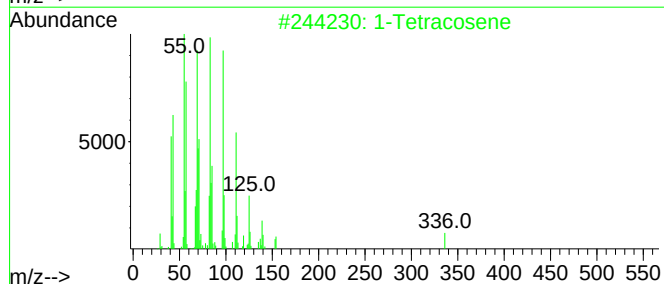
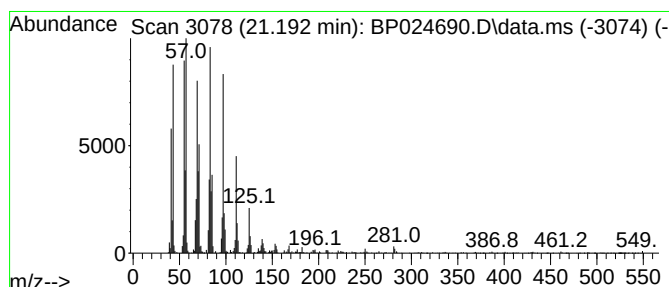
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 1-Tetracosene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.192	4.84 ng	466593	Chrysene-d12	21.521

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Tetracosene	336	C24H48	010192-32-2	96
2	Cyclotetracosane	336	C24H48	000297-03-0	95
3	1-Heneicosanol	312	C21H44O	015594-90-8	95
4	Heptafluorobutyric acid, n-tetra...	410	C18H29F7O2	007365-36-8	94
5	Behenic alcohol	326	C22H46O	000661-19-8	94



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
Data File : BP024690.D
Acq On : 19 May 2025 15:35
Operator : RC/JU
Sample : Q2032-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-24

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

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Propylene Glycol	3.469	2.8	ng	115114	1	7.651	824819	20.0
2-Pentanone, 4-...	4.822	6.9	ng	286319	1	7.651	824819	20.0
1-Phenoxypropan...	11.175	4.0	ng	215290	2	10.422	1083380	20.0
unknown14.498	14.498	15.2	ng	1005140	3	14.286	1319010	20.0
unknown14.522	14.522	22.7	ng	1495950	3	14.286	1319010	20.0
Benzophenone	15.675	2.1	ng	141717	3	14.286	1319010	20.0
Octadecanoic acid	16.045	31.8	ng	2369870	4	17.092	1489690	20.0
n-Hexadecanoic ...	18.033	26.1	ng	1940790	4	17.092	1489690	20.0
Pentadecanoic acid	19.363	8.8	ng	846088	5	21.521	1926310	20.0
1-Tetracosene	21.192	4.8	ng	466593	5	21.521	1926310	20.0

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-37	SDG No.:	Q2032
Lab Sample ID:	Q2032-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82.5
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142450.D	1	05/16/25 10:00	05/19/25 14:35	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	400	ug/Kg
108-95-2	Phenol	26.8	U	26.8	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	29.4	U	29.4	210	ug/Kg
95-57-8	2-Chlorophenol	29.5	U	29.5	210	ug/Kg
95-48-7	2-Methylphenol	36.2	U	36.2	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	45.4	U	45.4	210	ug/Kg
98-86-2	Acetophenone	35.7	U	35.7	210	ug/Kg
65794-96-9	3+4-Methylphenols	49.8	U	49.8	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	57.4	U	57.4	96.9	ug/Kg
67-72-1	Hexachloroethane	21.3	U	21.3	210	ug/Kg
98-95-3	Nitrobenzene	22.2	U	22.2	210	ug/Kg
78-59-1	Isophorone	39.7	U	39.7	210	ug/Kg
88-75-5	2-Nitrophenol	70.5	U	70.5	210	ug/Kg
105-67-9	2,4-Dimethylphenol	78.5	U	78.5	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	37.3	U	37.3	210	ug/Kg
120-83-2	2,4-Dichlorophenol	34.3	U	34.3	210	ug/Kg
91-20-3	Naphthalene	27.5	U	27.5	210	ug/Kg
106-47-8	4-Chloroaniline	42.9	U	42.9	210	ug/Kg
87-68-3	Hexachlorobutadiene	30.6	U	30.6	210	ug/Kg
105-60-2	Caprolactam	63.1	UQ	63.1	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	34.8	U	34.8	210	ug/Kg
91-57-6	2-Methylnaphthalene	31.0	U	31.0	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	140	U	140	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	24.0	U	24.0	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	35.2	U	35.2	210	ug/Kg
92-52-4	1,1-Biphenyl	26.4	U	26.4	210	ug/Kg
91-58-7	2-Chloronaphthalene	27.2	U	27.2	210	ug/Kg
88-74-4	2-Nitroaniline	58.2	U	58.2	210	ug/Kg
131-11-3	Dimethylphthalate	32.8	U	32.8	210	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-37	SDG No.:	Q2032
Lab Sample ID:	Q2032-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82.5
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Level :	LOW
		Test:	SVOC-TCL BNA -20
		GPC Cleanup :	N
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142450.D	1	05/16/25 10:00	05/19/25 14:35	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	35.0	U	35.0	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	40.7	U	40.7	210	ug/Kg
99-09-2	3-Nitroaniline	55.7	U	55.7	210	ug/Kg
83-32-9	Acenaphthene	25.8	U	25.8	210	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	400	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	400	ug/Kg
132-64-9	Dibenzofuran	27.5	U	27.5	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	60.7	U	60.7	210	ug/Kg
84-66-2	Diethylphthalate	34.3	U	34.3	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	32.3	U	32.3	210	ug/Kg
86-73-7	Fluorene	30.6	U	30.6	210	ug/Kg
100-01-6	4-Nitroaniline	77.7	U	77.7	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	39.8	U	39.8	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	33.7	U	33.7	210	ug/Kg
118-74-1	Hexachlorobenzene	30.6	U	30.6	210	ug/Kg
1912-24-9	Atrazine	41.2	U	41.2	210	ug/Kg
87-86-5	Pentachlorophenol	62.1	U	62.1	400	ug/Kg
85-01-8	Phenanthrene	25.3	U	25.3	210	ug/Kg
120-12-7	Anthracene	40.3	U	40.3	210	ug/Kg
86-74-8	Carbazole	37.8	U	37.8	210	ug/Kg
84-74-2	Di-n-butylphthalate	58.0	U	58.0	210	ug/Kg
206-44-0	Fluoranthene	36.3	U	36.3	210	ug/Kg
129-00-0	Pyrene	43.6	U	43.6	210	ug/Kg
85-68-7	Butylbenzylphthalate	86.5	U	86.5	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	44.4	U	44.4	400	ug/Kg
56-55-3	Benzo(a)anthracene	27.9	U	27.9	210	ug/Kg
218-01-9	Chrysene	24.1	U	24.1	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	71.7	U	71.7	210	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	23.0	U	23.0	210	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-37	SDG No.:	Q2032
Lab Sample ID:	Q2032-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82.5
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142450.D	1	05/16/25 10:00	05/19/25 14:35	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	27.1	U	27.1	210	ug/Kg
50-32-8	Benzo(a)pyrene	35.7	U	35.7	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	35.2	U	35.2	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	33.2	U	33.2	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	31.1	U	31.1	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	31.0	U	31.0	210	ug/Kg
123-91-1	1,4-Dioxane	54.7	U	54.7	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	33.2	U	33.2	210	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	80.3		18 - 112	54%	SPK: 150
13127-88-3	Phenol-d6	78.1		15 - 107	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	61.7		18 - 107	62%	SPK: 100
321-60-8	2-Fluorobiphenyl	51.5		20 - 109	51%	SPK: 100
118-79-6	2,4,6-Tribromophenol	96.3		10 - 116	64%	SPK: 150
1718-51-0	Terphenyl-d14	43.5		10 - 105	44%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	128000	6.898
1146-65-2	Naphthalene-d8	448000	8.181
15067-26-2	Acenaphthene-d10	243000	9.939
1517-22-2	Phenanthrene-d10	434000	11.427
1719-03-5	Chrysene-d12	325000	14.063
1520-96-3	Perylene-d12	310000	15.557

TENTATIVE IDENTIFIED COMPOUNDS

	unknown3.422	170	J	3.42	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB	5.12	ug/Kg
000770-35-4	1-Phenoxypropan-2-ol	130	J	8.49	ug/Kg
	unknown10.028	140	J	10.0	ug/Kg
000057-10-3	n-Hexadecanoic acid	240	J	11.9	ug/Kg
074339-54-1	Trichloroacetic acid, hexadecyl es	230	J	13.9	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-37	SDG No.:	Q2032
Lab Sample ID:	Q2032-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82.5
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142450.D	1	05/16/25 10:00	05/19/25 14:35	PB168041

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142450.D
Acq On : 19 May 2025 14:35
Operator : RC/JU
Sample : Q2032-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-37

Quant Time: May 19 15:02:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	127525	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	447596	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	242643	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	434004	20.000	ng	0.00
76) Chrysene-d12	14.063	240	324890	20.000	ng	0.00
86) Perylene-d12	15.557	264	309632	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	599807	80.291	ng	0.00
7) Phenol-d6	6.522	99	717563	78.098	ng	0.00
23) Nitrobenzene-d5	7.457	82	452702	61.683	ng	-0.01
42) 2,4,6-Tribromophenol	10.727	330	225712	96.348	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	875746	51.463	ng	0.00
79) Terphenyl-d14	13.010	244	955320	43.522	ng	0.00

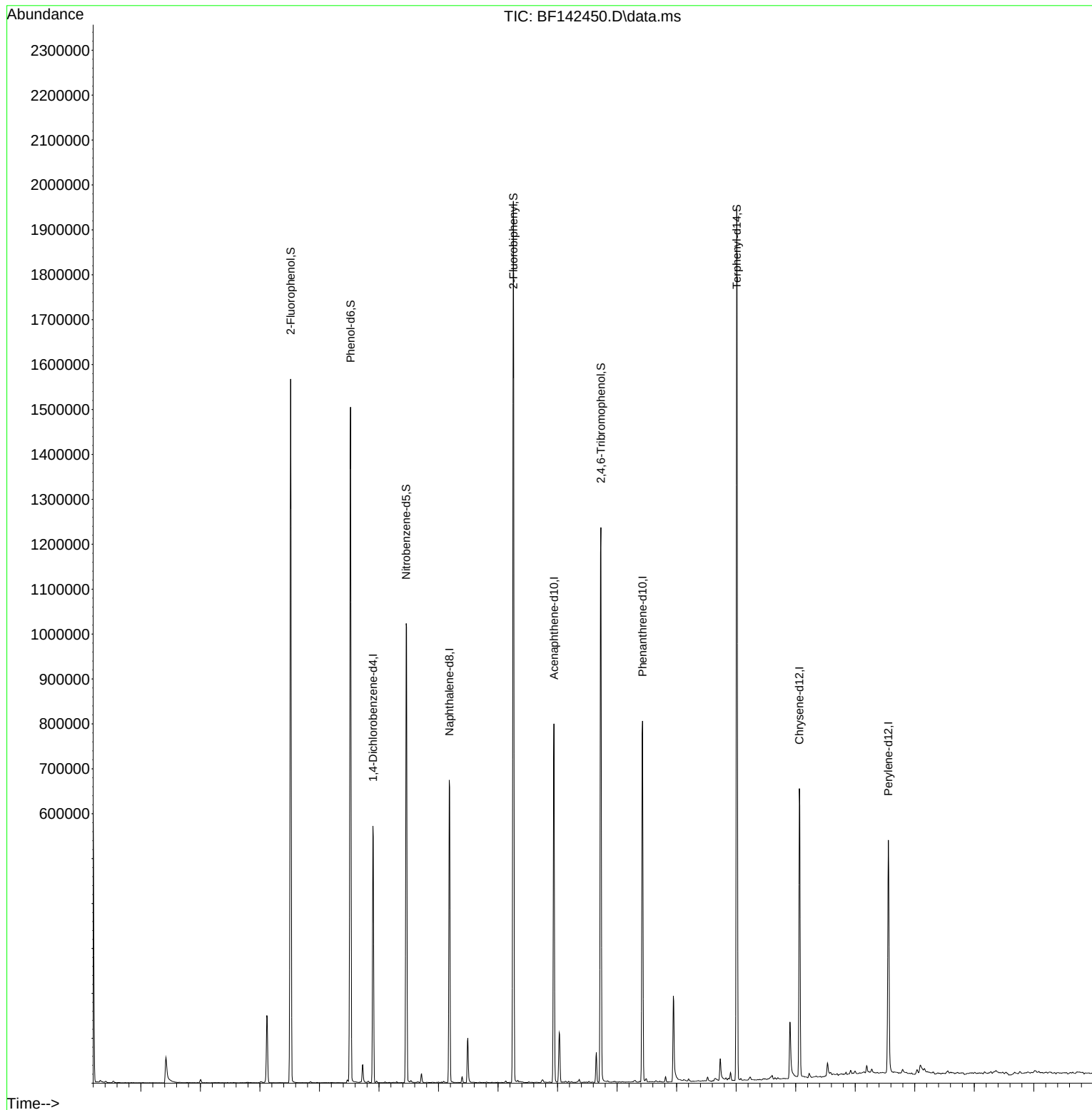
Target Compounds	Qvalue

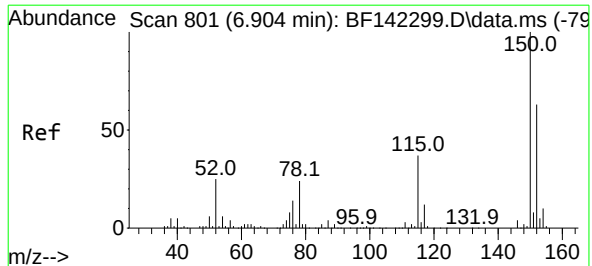
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142450.D
Acq On : 19 May 2025 14:35
Operator : RC/JU
Sample : Q2032-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-37

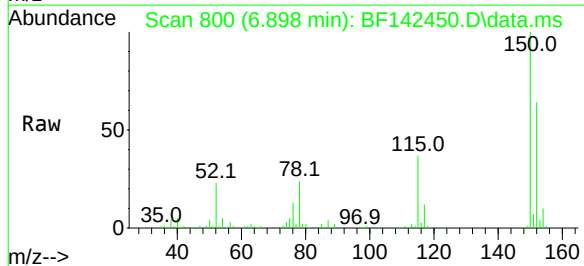
Quant Time: May 19 15:02:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration



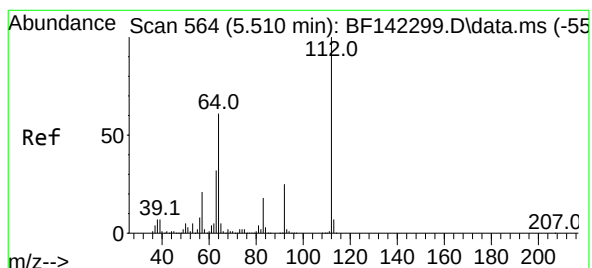
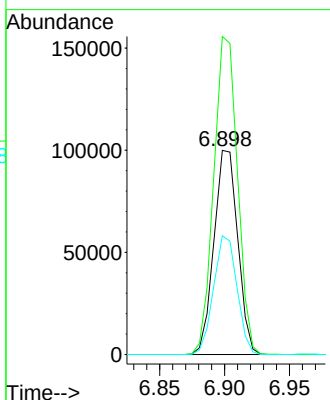
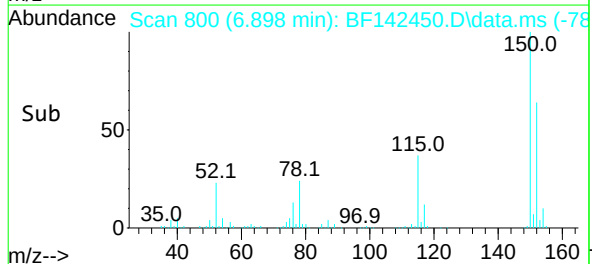


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 801
Delta R.T. -0.006 min
Lab File: BF142450.D
Acq: 19 May 2025 14:35

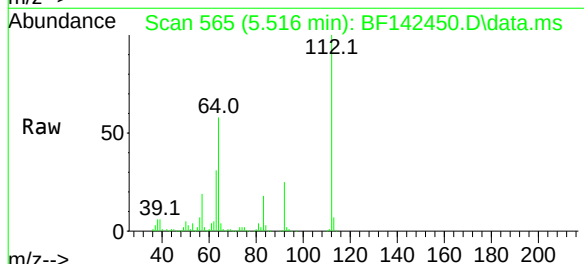
Instrument :
BNA_F
ClientSampleId :
TP-37



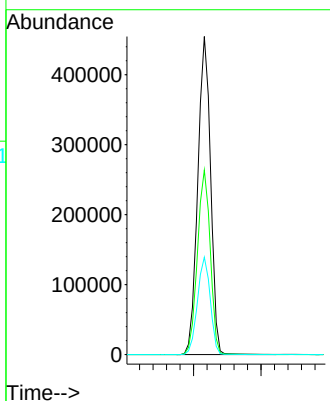
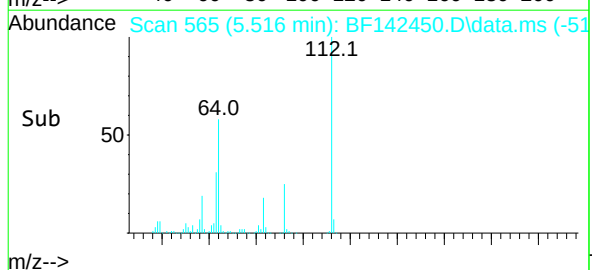
Tgt Ion:152 Resp: 127525
Ion Ratio Lower Upper
152 100
150 155.8 126.6 190.0
115 58.2 47.3 70.9

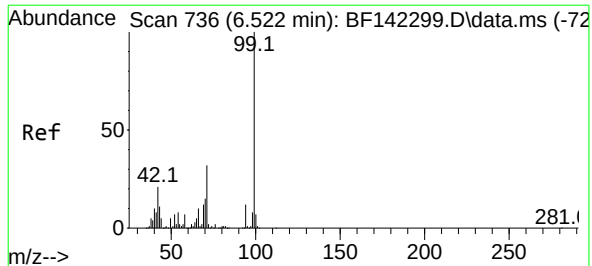


#5
2-Fluorophenol
Concen: 80.291 ng
RT: 5.516 min Scan# 565
Delta R.T. 0.006 min
Lab File: BF142450.D
Acq: 19 May 2025 14:35



Tgt Ion:112 Resp: 599807
Ion Ratio Lower Upper
112 100
64 58.0 48.9 73.3
63 30.6 25.6 38.4





#7

Phenol-d6

Concen: 78.098 ng

RT: 6.522 min Scan# 736

Delta R.T. -0.000 min

Lab File: BF142450.D

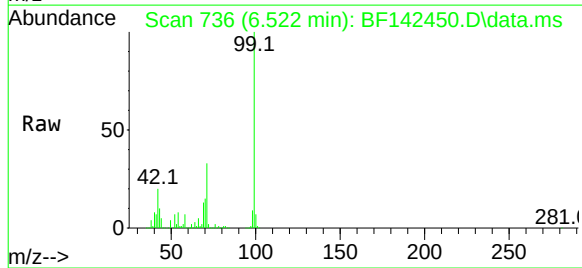
Acq: 19 May 2025 14:35

Instrument :

BNA_F

ClientSampleId :

TP-37



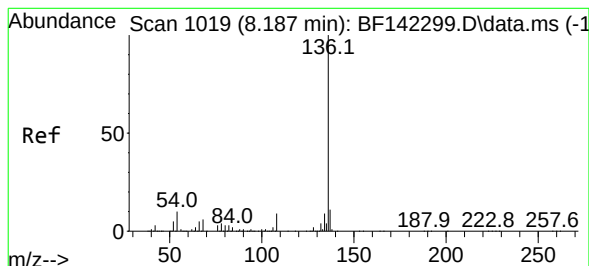
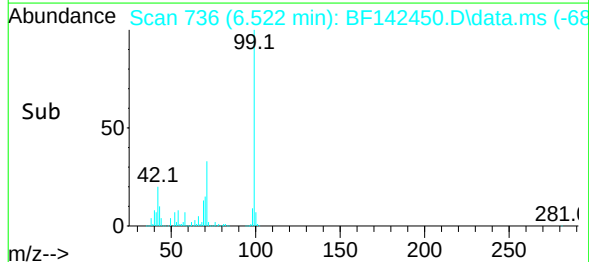
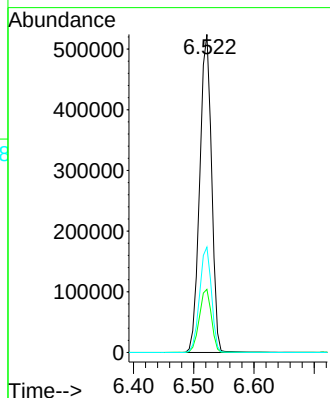
Tgt Ion: 99 Resp: 717563

Ion Ratio Lower Upper

99 100

42 19.9 17.0 25.4

71 33.2 25.8 38.8



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.181 min Scan# 1018

Delta R.T. -0.006 min

Lab File: BF142450.D

Acq: 19 May 2025 14:35

Tgt Ion: 136 Resp: 447596

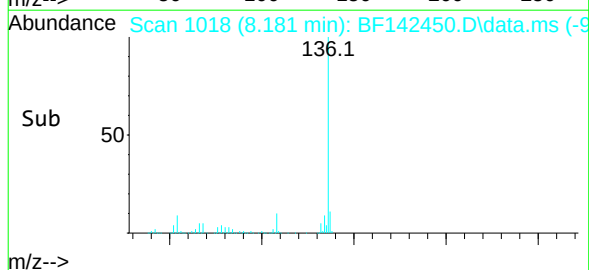
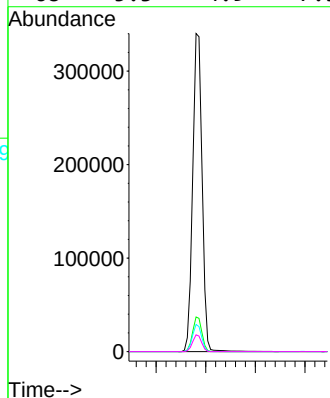
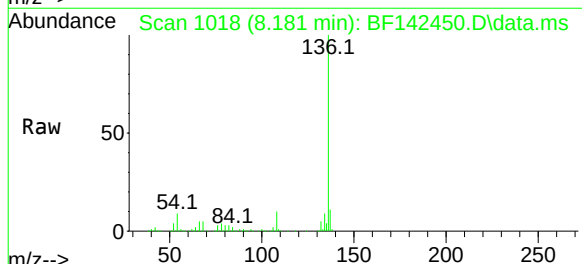
Ion Ratio Lower Upper

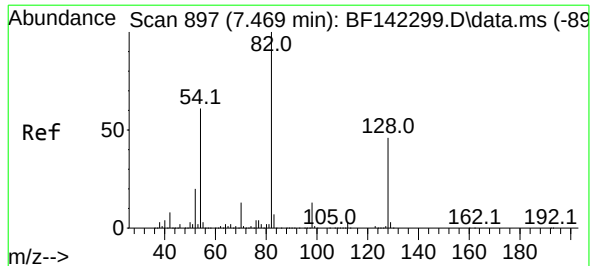
136 100

137 10.9 8.9 13.3

54 8.5 7.7 11.5

68 5.3 4.9 7.3





#23

Nitrobenzene-d5

Concen: 61.683 ng

RT: 7.457 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF142450.D

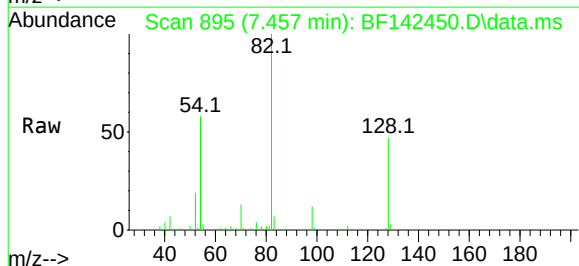
Acq: 19 May 2025 14:35

Instrument :

BNA_F

ClientSampleId :

TP-37



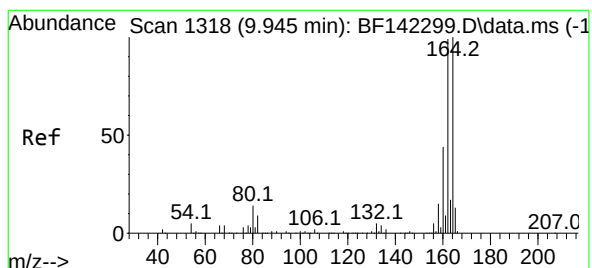
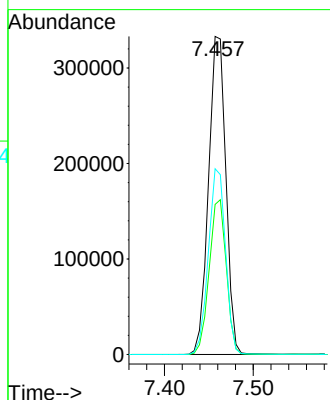
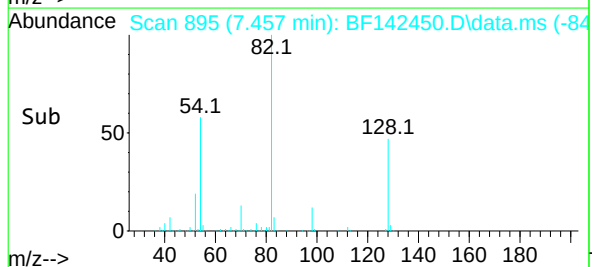
Tgt Ion: 82 Resp: 452702

Ion Ratio Lower Upper

82 100

128 47.2 37.0 55.6

54 58.4 48.6 73.0



#39

Acenaphthene-d10

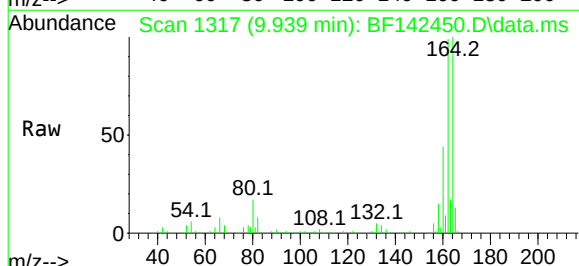
Concen: 20.000 ng

RT: 9.939 min Scan# 1317

Delta R.T. -0.006 min

Lab File: BF142450.D

Acq: 19 May 2025 14:35



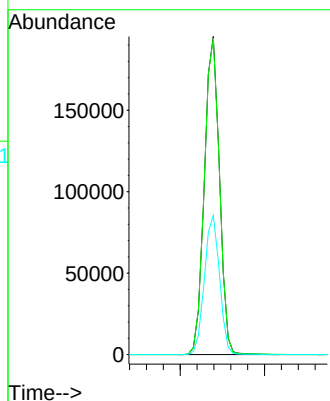
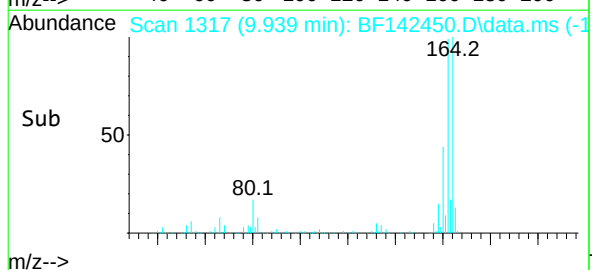
Tgt Ion: 164 Resp: 242643

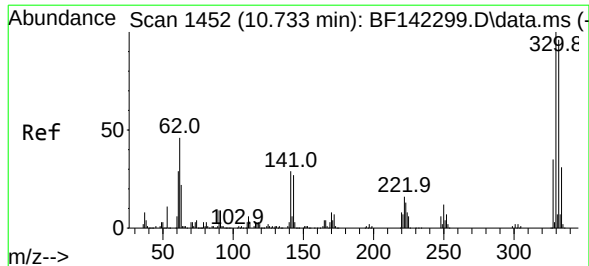
Ion Ratio Lower Upper

164 100

162 99.4 79.2 118.8

160 43.7 35.3 52.9





#42

2,4,6-Tribromophenol

Concen: 96.348 ng

RT: 10.727 min Scan# 14

Delta R.T. -0.006 min

Lab File: BF142450.D

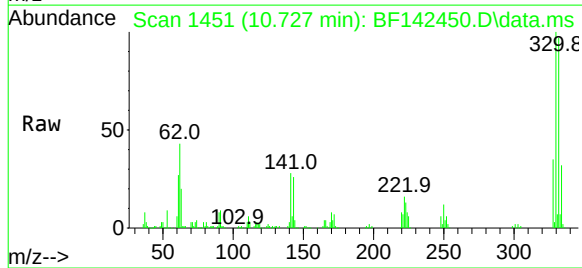
Acq: 19 May 2025 14:35

Instrument :

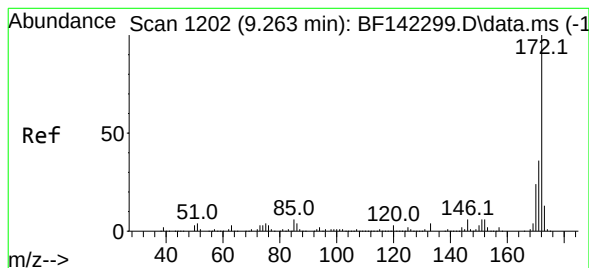
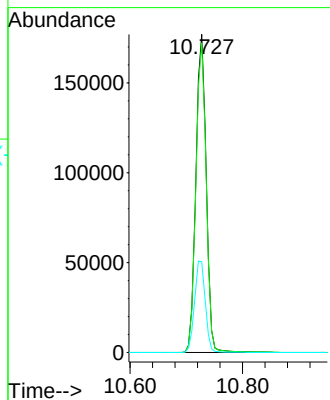
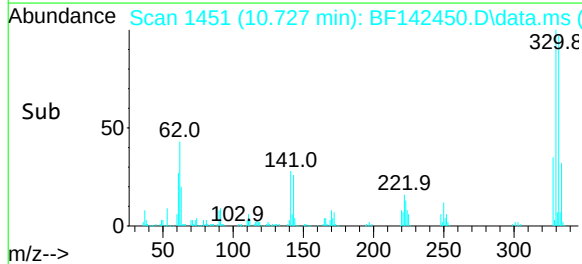
BNA_F

ClientSampleId :

TP-37



Tgt Ion:	330	Resp:	225712
Ion	Ratio	Lower	Upper
330	100		
332	97.4	76.8	115.2
141	30.0	24.9	37.3



#45

2-Fluorobiphenyl

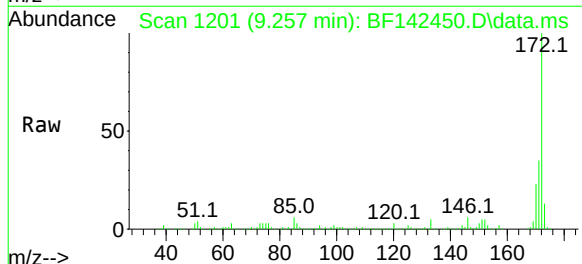
Concen: 51.463 ng

RT: 9.257 min Scan# 1201

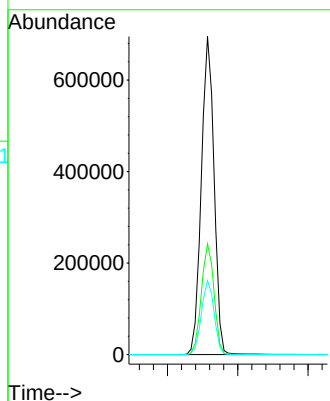
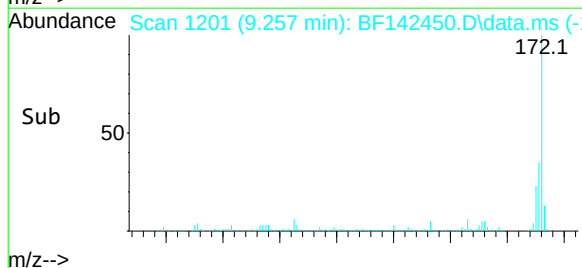
Delta R.T. -0.006 min

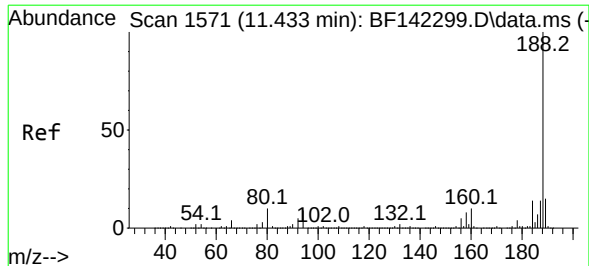
Lab File: BF142450.D

Acq: 19 May 2025 14:35



Tgt Ion:	172	Resp:	875746
Ion	Ratio	Lower	Upper
172	100		
171	34.8	28.6	42.8
170	23.3	19.0	28.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.427 min Scan# 15

Delta R.T. -0.006 min

Lab File: BF142450.D

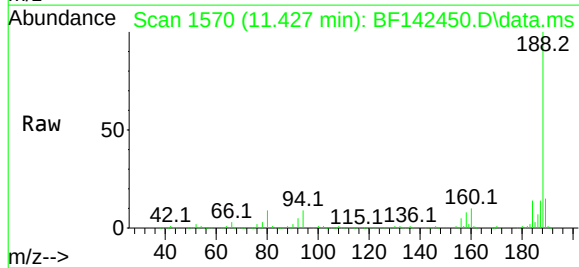
Acq: 19 May 2025 14:35

Instrument :

BNA_F

ClientSampleId :

TP-37



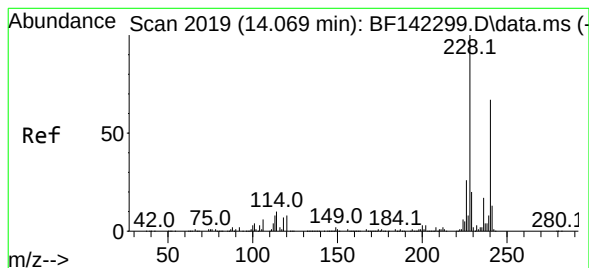
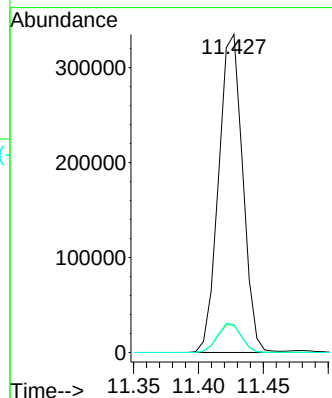
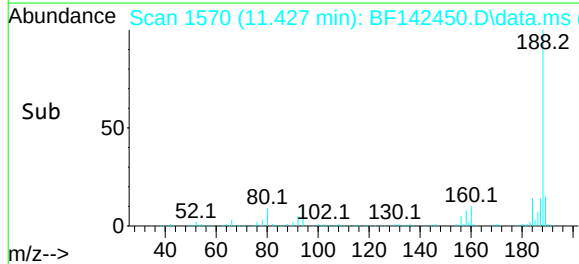
Tgt Ion:188 Resp: 434004

Ion Ratio Lower Upper

188 100

94 8.5 7.5 11.3

80 8.8 7.9 11.9



#76

Chrysene-d12

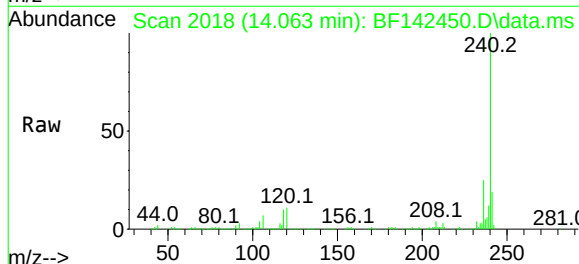
Concen: 20.000 ng

RT: 14.063 min Scan# 2018

Delta R.T. -0.006 min

Lab File: BF142450.D

Acq: 19 May 2025 14:35



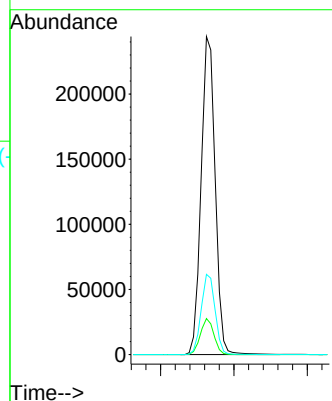
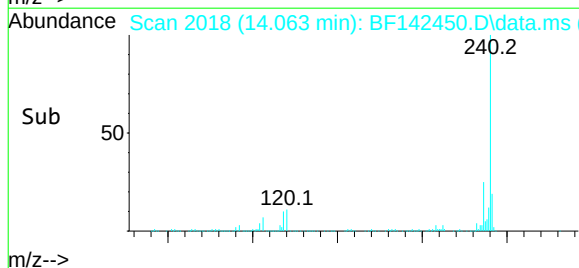
Tgt Ion:240 Resp: 324890

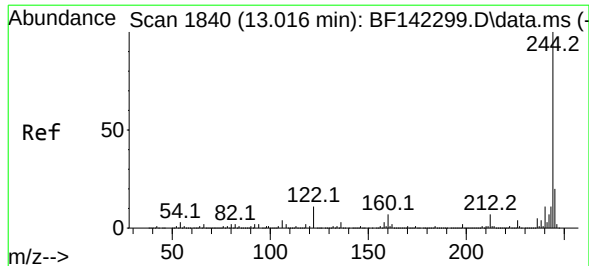
Ion Ratio Lower Upper

240 100

120 11.3 9.7 14.5

236 25.2 20.0 30.0





#79

Terphenyl-d14

Concen: 43.522 ng

RT: 13.010 min Scan# 18

Delta R.T. -0.006 min

Lab File: BF142450.D

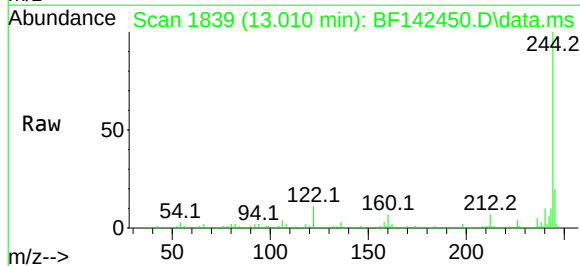
Acq: 19 May 2025 14:35

Instrument :

BNA_F

ClientSampleId :

TP-37



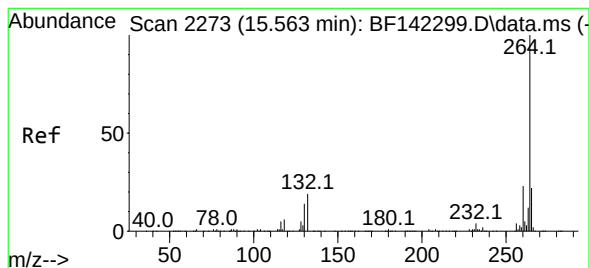
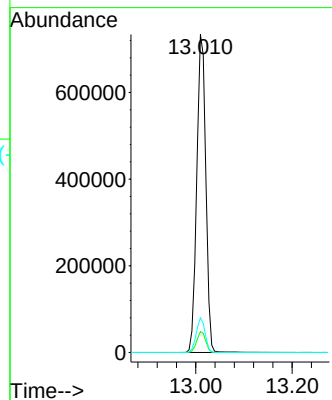
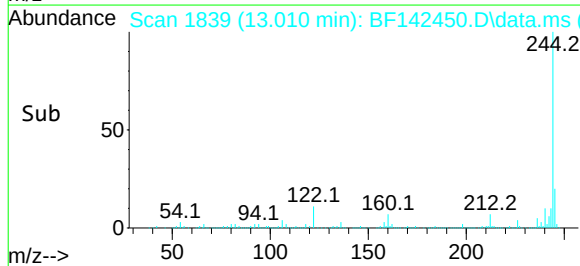
Tgt Ion:244 Resp: 955320

Ion Ratio Lower Upper

244 100

212 6.5 5.4 8.2

122 10.9 9.0 13.4



#86

Perylene-d12

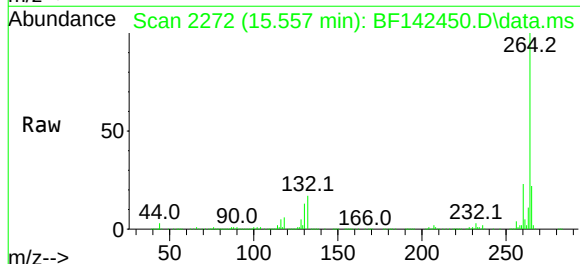
Concen: 20.000 ng

RT: 15.557 min Scan# 2272

Delta R.T. -0.006 min

Lab File: BF142450.D

Acq: 19 May 2025 14:35



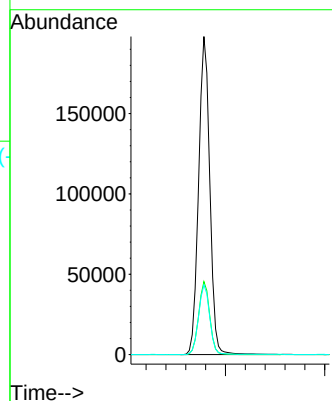
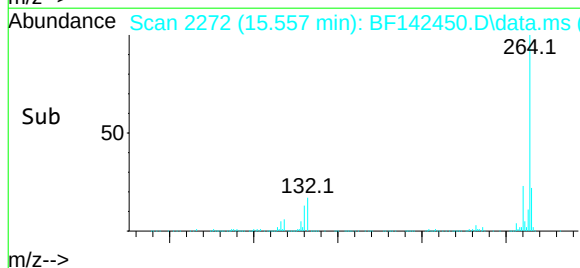
Tgt Ion:264 Resp: 309632

Ion Ratio Lower Upper

264 100

260 23.0 18.6 27.8

265 21.9 17.5 26.3



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
 Data File : BF142450.D
 Acq On : 19 May 2025 14:35
 Operator : RC/JU
 Sample : Q2032-07
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-37

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0
 Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

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

Signal : TIC: BF142450.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.422	204	209	236	rBV	56448	147062	5.89%	0.776%
2	5.116	489	497	509	rVB	149839	225236	9.03%	1.189%
3	5.516	559	565	570	rBV	1567000	2062396	82.65%	10.883%
4	6.522	730	736	741	rBV	1501005	2050049	82.16%	10.818%
5	6.728	766	771	780	rVB	39069	55316	2.22%	0.292%
6	6.898	795	800	806	rBV	571105	719014	28.82%	3.794%
7	7.457	889	895	901	rBV	1022126	1388518	55.65%	7.327%
8	7.716	934	939	946	rVB	19462	26163	1.05%	0.138%
9	8.181	1013	1018	1024	rBV	673525	872363	34.96%	4.603%
10	8.492	1066	1071	1082	rBV	99292	137010	5.49%	0.723%
11	9.257	1195	1201	1206	rBV	1962198	2449318	98.16%	12.925%
12	9.939	1311	1317	1322	rBV	798714	996631	39.94%	5.259%
13	10.027	1327	1332	1338	rBV	110207	167381	6.71%	0.883%
14	10.651	1433	1438	1445	rVB	66353	82871	3.32%	0.437%
15	10.727	1445	1451	1467	rBV	1235445	1638254	65.66%	8.645%
16	11.427	1564	1570	1576	rBV	803615	1045157	41.89%	5.515%
17	11.945	1653	1658	1673	rBV	190835	305444	12.24%	1.612%
18	12.733	1787	1792	1806	rBV	48478	87758	3.52%	0.463%
19	13.010	1834	1839	1845	rBV	1939534	2495236	100.00%	13.167%
20	13.904	1986	1991	2011	rBV	126332	246567	9.88%	1.301%
21	14.063	2013	2018	2028	rVV	641406	848136	33.99%	4.476%
22	14.533	2094	2098	2104	rBV2	28112	48301	1.94%	0.255%
23	15.557	2266	2272	2286	rVB	517081	809237	32.43%	4.270%
24	16.092	2359	2363	2372	rBV6	16440	46617	1.87%	0.246%

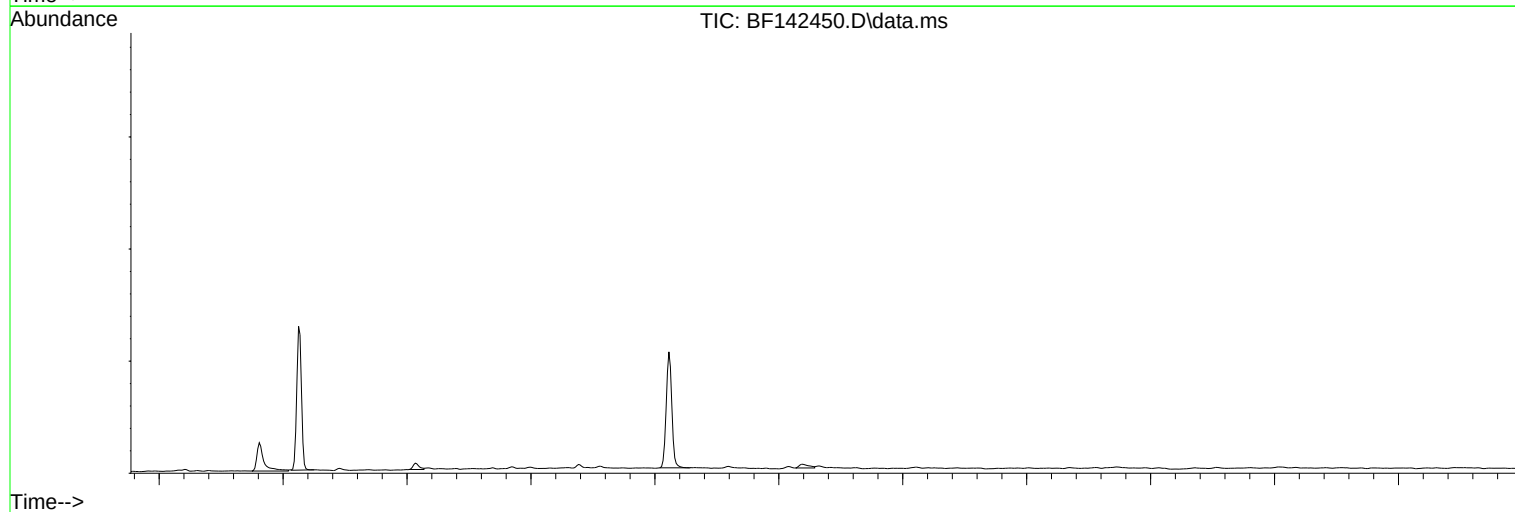
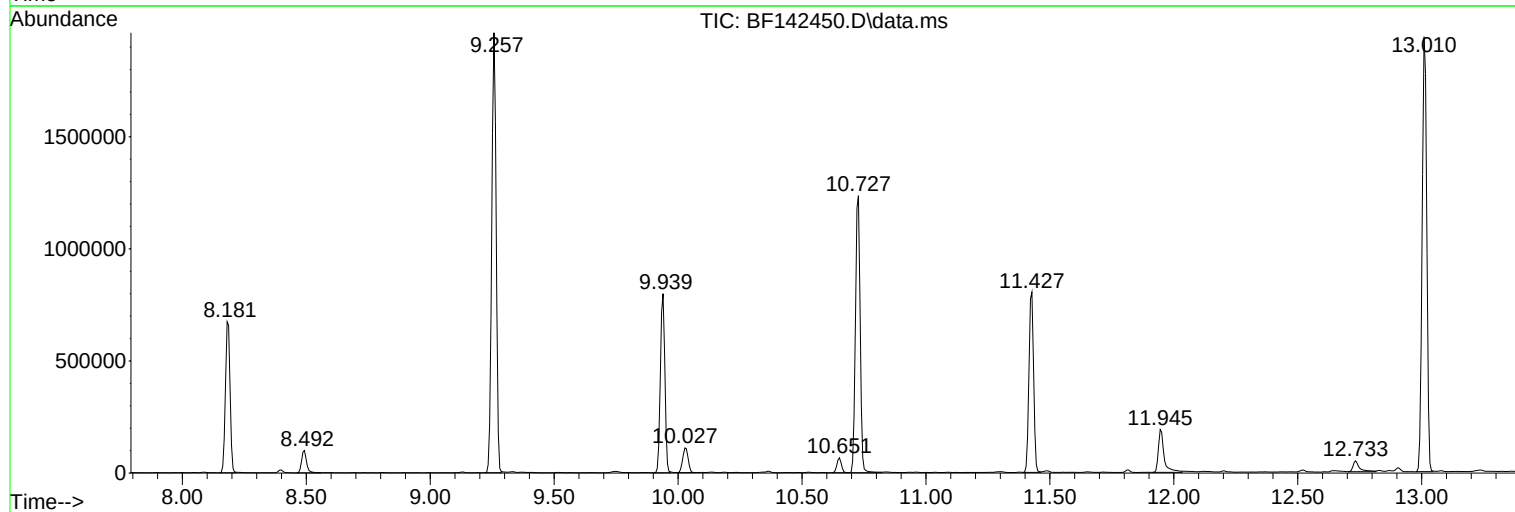
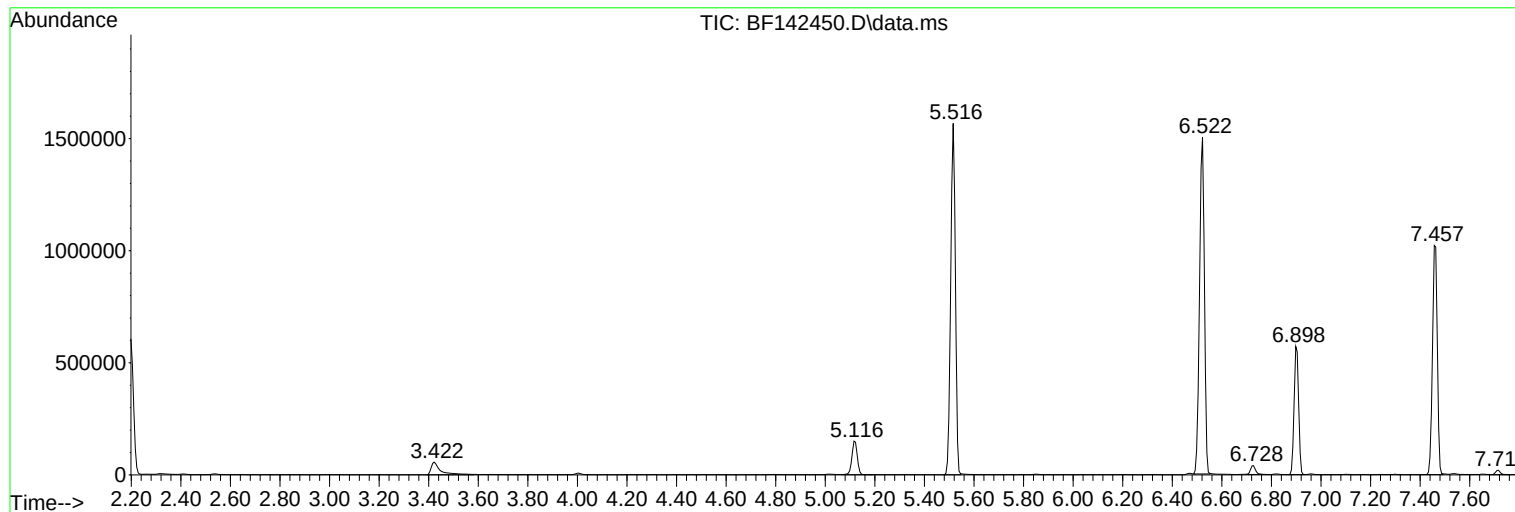
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Acq On : 19 May 2025 14:35
Operator : RC/JU
Sample : Q2032-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-37

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

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



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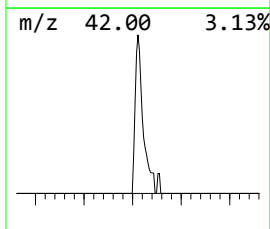
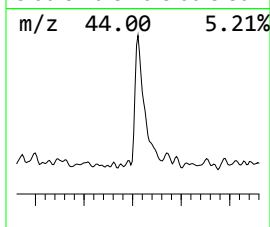
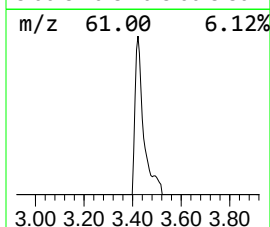
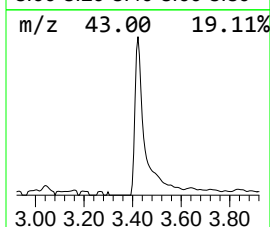
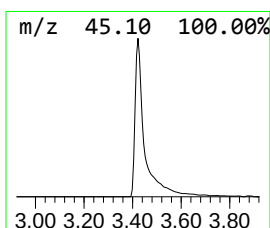
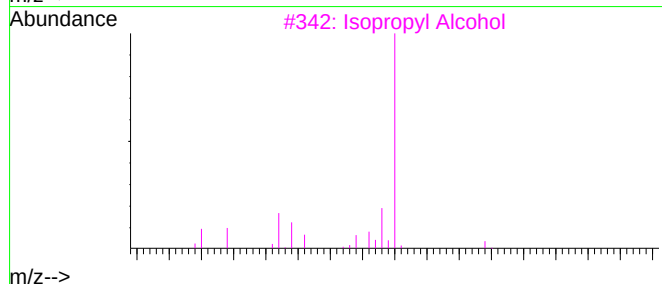
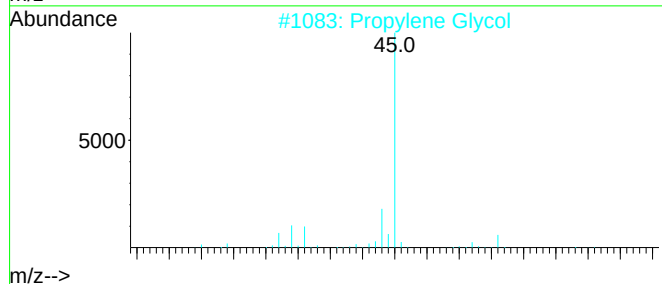
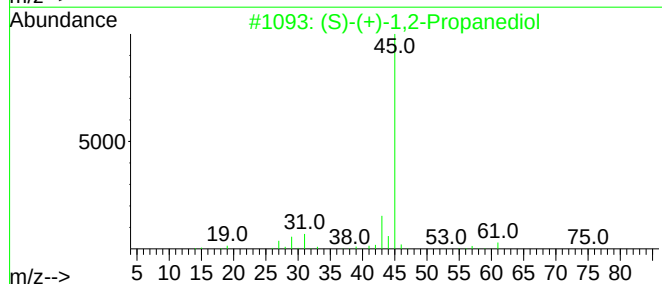
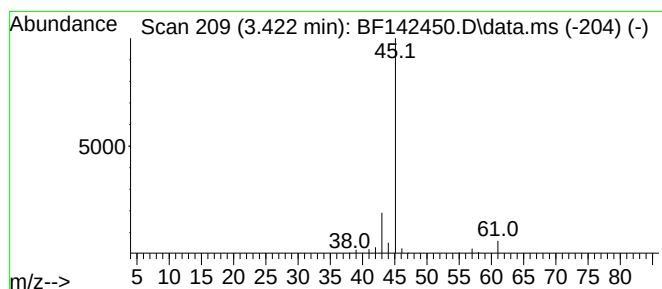
TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 1 unknown3.422 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.422	4.09 ng	147062	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(S)-(+)-1,2-Propanediol	76	C3H8O2	004254-15-3	43
2	Propylene Glycol	76	C3H8O2	000057-55-6	43
3	Isopropyl Alcohol	60	C3H8O	000067-63-0	9
4	R-(-)-1,2-propanediol	76	C3H8O2	004254-14-2	9
5	Propanoic acid, 2-hydroxy-, meth...	104	C4H8O3	000547-64-8	9



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Instrument :
BNA_F
ClientSampleId :
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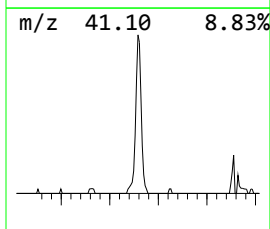
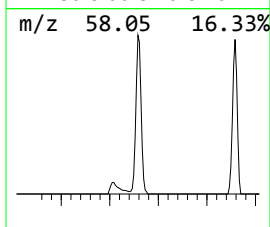
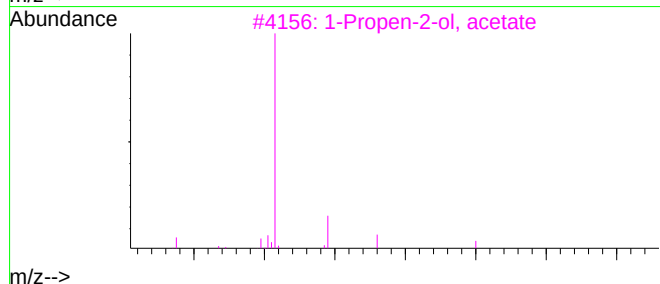
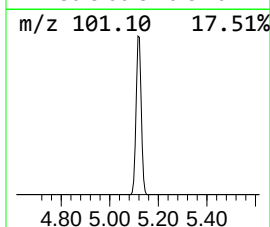
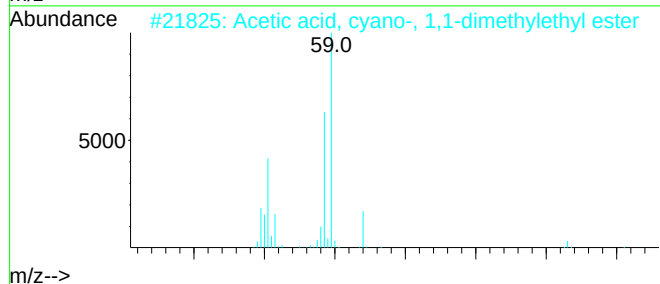
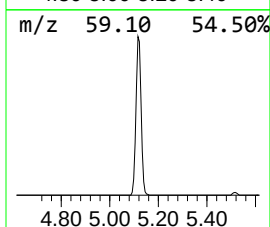
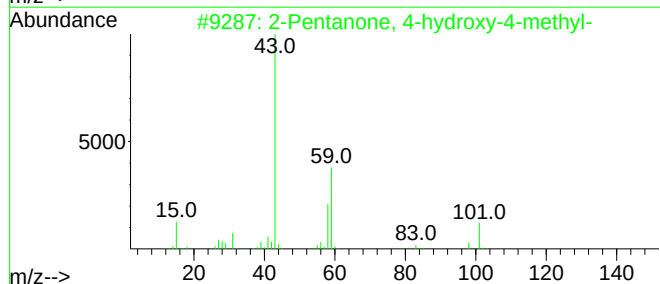
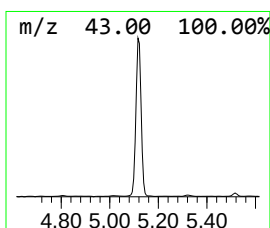
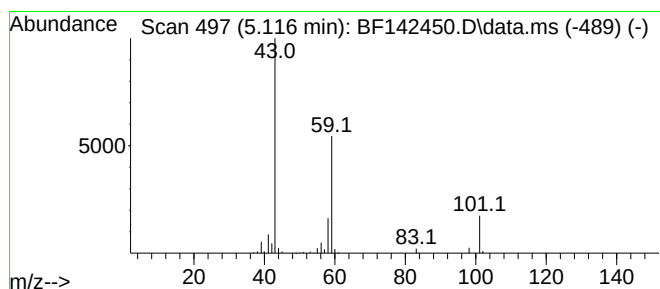
TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	6.27 ng	225236	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

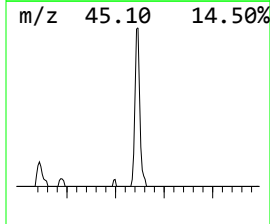
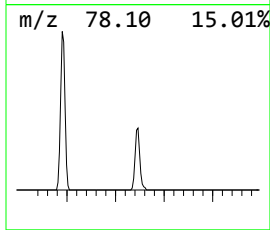
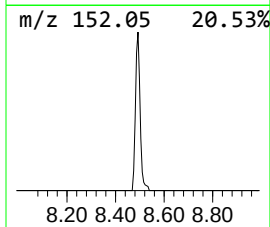
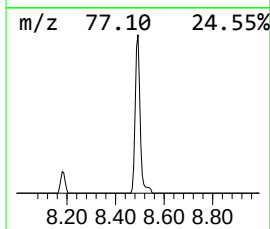
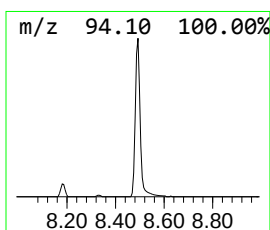
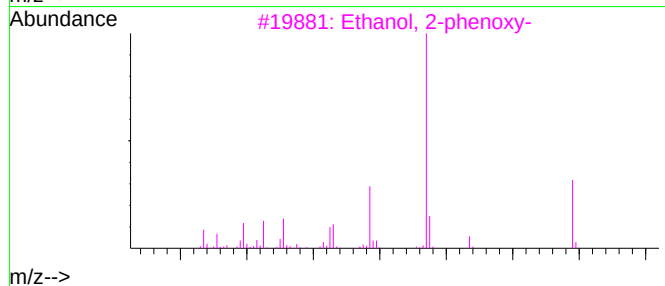
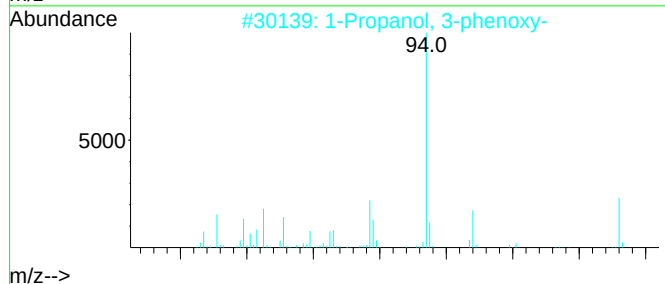
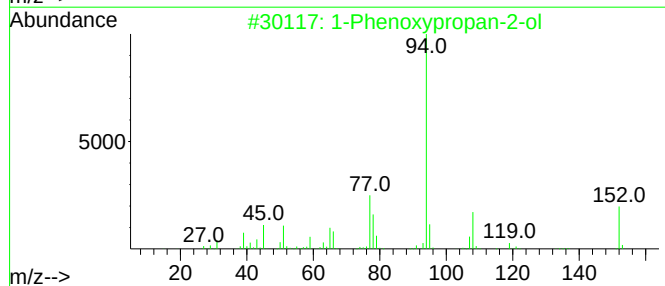
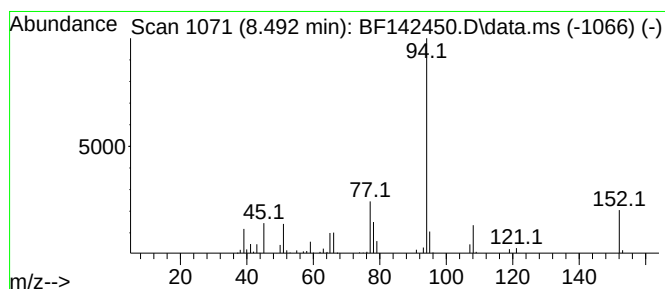
TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 3 1-Phenoxypropan-2-ol Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.492	3.14 ng	137010	Naphthalene-d8	8.181

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Phenoxypropan-2-ol	152	C9H12O2	000770-35-4	96
2	1-Propanol, 3-phenoxy-	152	C9H12O2	006180-61-6	94
3	Ethanol, 2-phenoxy-	138	C8H10O2	000122-99-6	59
4	Benzene, propoxy-	136	C9H12O	000622-85-5	53
5	Carbonic acid, neopentyl phenyl ...	208	C12H16O3	013183-19-2	53



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

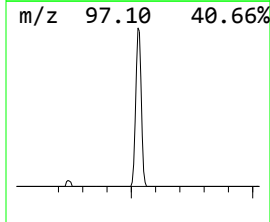
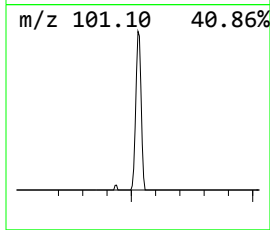
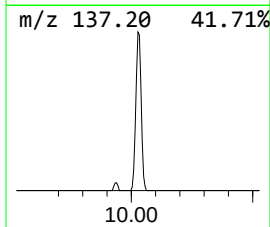
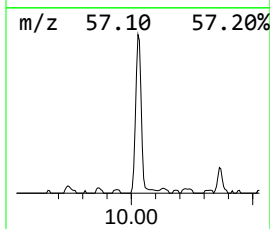
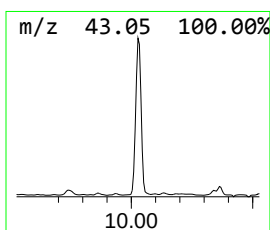
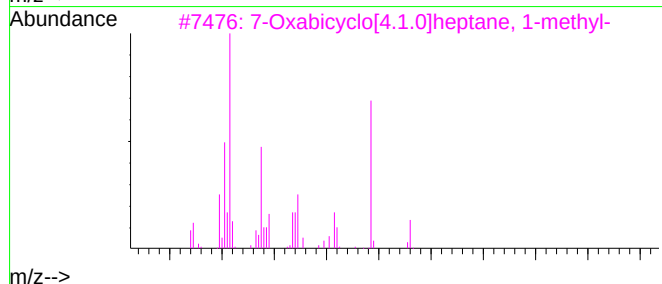
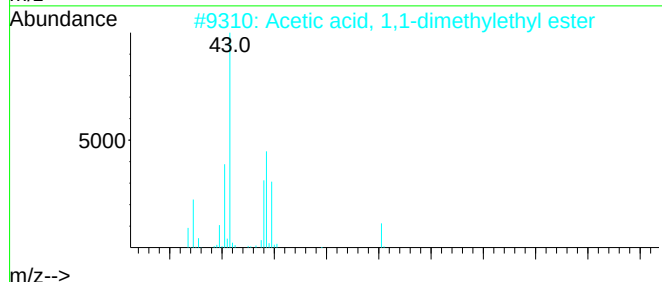
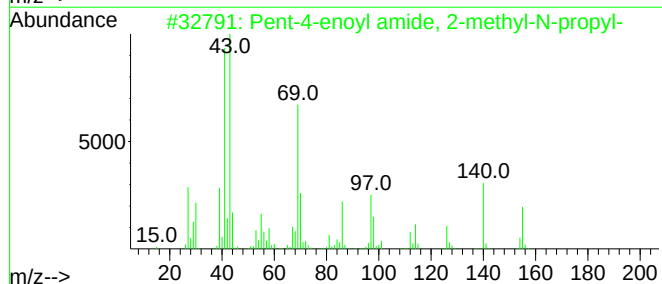
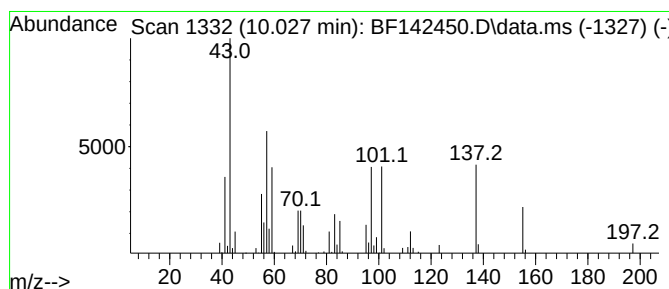
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TIC Integration Parameters: LSCINT.P

Peak Number 4 unknown10.028 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.028	3.36 ng	167381	Acenaphthene-d10	9.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pent-4-enoyl amide, 2-methyl-N-p...	155	C9H17NO	1000420-35-2	14
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	12
3	7-Oxabicyclo[4.1.0]heptane, 1-me...	112	C7H12O	001713-33-3	11
4	3-Octanol, acetate	172	C10H20O2	004864-61-3	10
5	2,4,4-Trimethyl-1-pentanol, chlo...	242	C10H17ClF2O2	1000447-27-2	10



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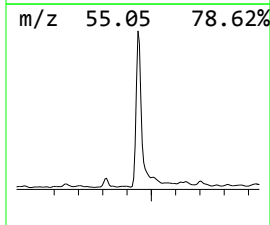
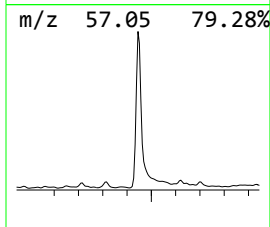
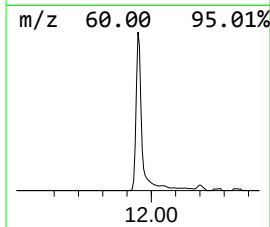
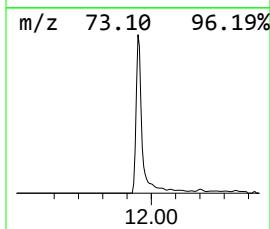
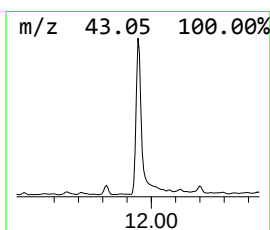
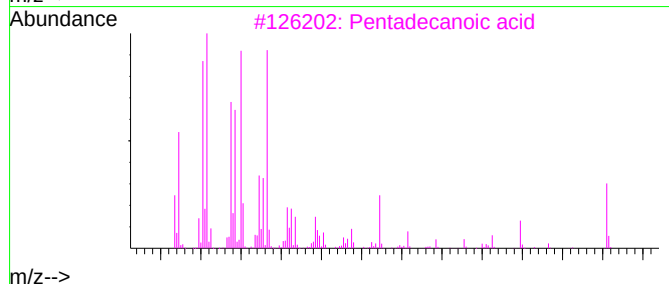
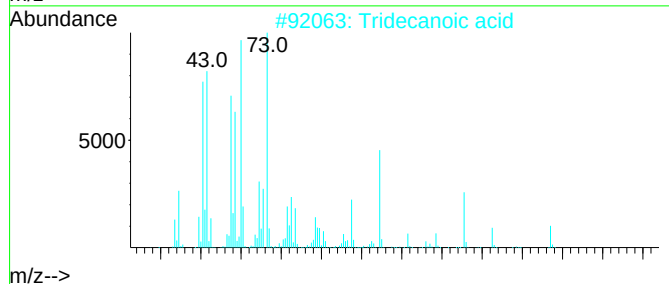
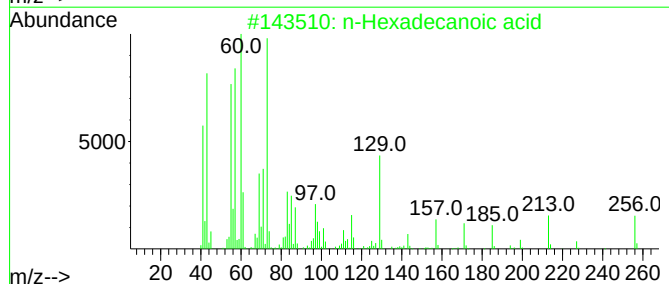
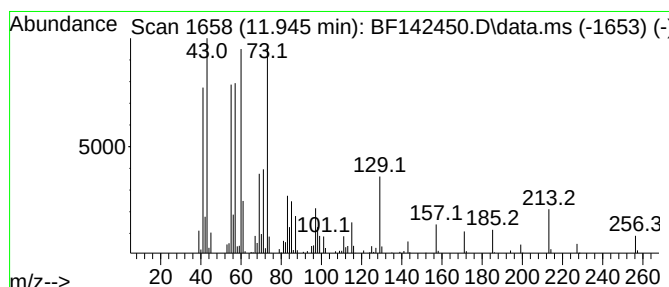
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TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 5 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD		R.T.	
11.945	5.84 ng	305444	Phenanthrene-d10		11.427	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid		256	C16H32O2	000057-10-3	99
2	Tridecanoic acid		214	C13H26O2	000638-53-9	94
3	Pentadecanoic acid		242	C15H30O2	001002-84-2	87
4	Tetradecanoic acid		228	C14H28O2	000544-63-8	72
5	n-Decanoic acid		172	C10H20O2	000334-48-5	64



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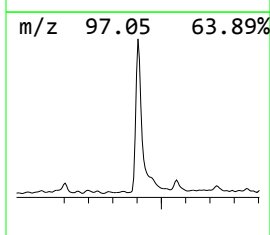
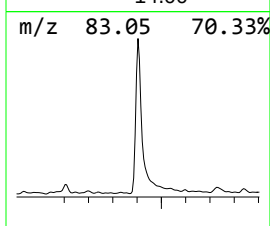
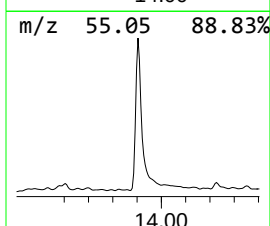
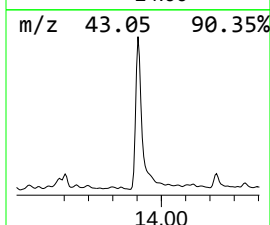
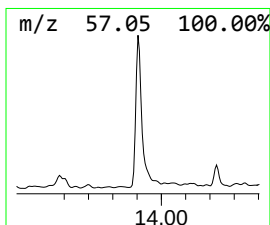
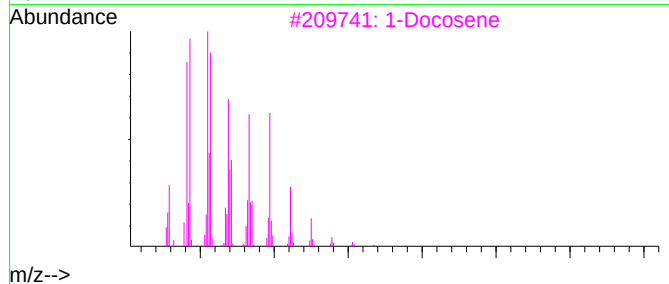
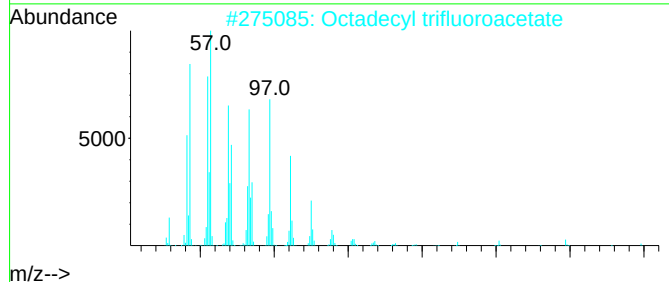
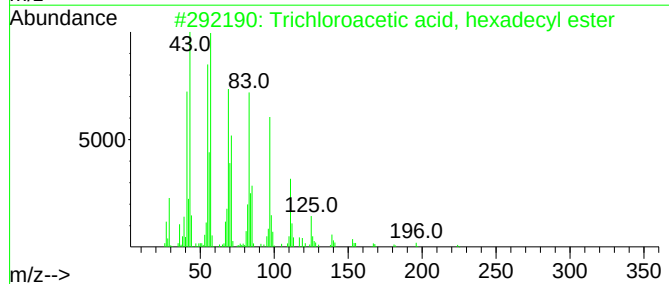
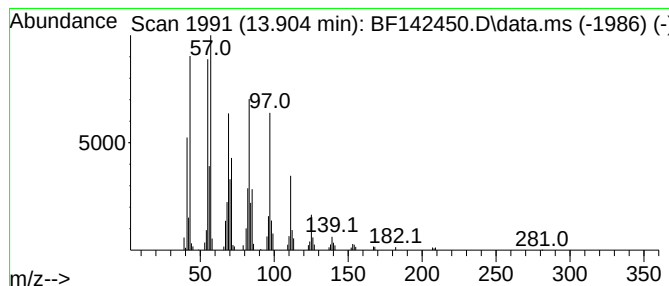
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TIC Integration Parameters: LSCINT.P

Peak Number 6 Trichloroacetic acid, hexad... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.904	5.81 ng	246567	Chrysene-d12	14.063	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94
2	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	94
3	1-Docosene	308	C22H44	001599-67-3	94
4	n-Tetracosanol-1	354	C24H50O	000506-51-4	93
5	1-Heptacosanol	396	C27H56O	002004-39-9	93



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142450.D
Acq On : 19 May 2025 14:35
Operator : RC/JU
Sample : Q2032-07
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-37

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

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown3.422	3.422	4.1	ng	147062	1	6.898	719014	20.0
2-Pentanone, 4-...	5.116	6.3	ng	225236	1	6.898	719014	20.0
1-Phenoxypropan...	8.492	3.1	ng	137010	2	8.181	872363	20.0
unknown10.028	10.028	3.4	ng	167381	3	9.939	996631	20.0
n-Hexadecanoic ...	11.945	5.8	ng	305444	4	11.427	1045160	20.0
Trichloroacetic...	13.904	5.8	ng	246567	5	14.063	848136	20.0

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-32	SDG No.:	Q2032
Lab Sample ID:	Q2032-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.8
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		Level :	LOW
		GPC Factor :	1.0
		GPC Cleanup :	N
		PH :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142451.D	1	05/16/25 10:00	05/19/25 15:04	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	380	ug/Kg
108-95-2	Phenol	25.4	U	25.4	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	27.9	U	27.9	200	ug/Kg
95-57-8	2-Chlorophenol	28.1	U	28.1	200	ug/Kg
95-48-7	2-Methylphenol	34.4	U	34.4	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	43.1	U	43.1	200	ug/Kg
98-86-2	Acetophenone	33.9	U	33.9	200	ug/Kg
65794-96-9	3+4-Methylphenols	47.3	U	47.3	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	54.5	U	54.5	92.0	ug/Kg
67-72-1	Hexachloroethane	20.2	U	20.2	200	ug/Kg
98-95-3	Nitrobenzene	21.0	U	21.0	200	ug/Kg
78-59-1	Isophorone	37.7	U	37.7	200	ug/Kg
88-75-5	2-Nitrophenol	66.9	U	66.9	200	ug/Kg
105-67-9	2,4-Dimethylphenol	74.5	U	74.5	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	35.4	U	35.4	200	ug/Kg
120-83-2	2,4-Dichlorophenol	32.5	U	32.5	200	ug/Kg
91-20-3	Naphthalene	26.1	U	26.1	200	ug/Kg
106-47-8	4-Chloroaniline	40.7	U	40.7	200	ug/Kg
87-68-3	Hexachlorobutadiene	29.1	U	29.1	200	ug/Kg
105-60-2	Caprolactam	59.9	UQ	59.9	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	33.0	U	33.0	200	ug/Kg
91-57-6	2-Methylnaphthalene	29.4	U	29.4	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	130	U	130	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	22.8	U	22.8	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.5	U	33.5	200	ug/Kg
92-52-4	1,1-Biphenyl	25.1	U	25.1	200	ug/Kg
91-58-7	2-Chloronaphthalene	25.9	U	25.9	200	ug/Kg
88-74-4	2-Nitroaniline	55.3	U	55.3	200	ug/Kg
131-11-3	Dimethylphthalate	31.2	U	31.2	200	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-32	SDG No.:	Q2032
Lab Sample ID:	Q2032-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142451.D	1	05/16/25 10:00	05/19/25 15:04	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	33.2	U	33.2	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	38.6	U	38.6	200	ug/Kg
99-09-2	3-Nitroaniline	52.9	U	52.9	200	ug/Kg
83-32-9	Acenaphthene	24.5	U	24.5	200	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	380	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	380	ug/Kg
132-64-9	Dibenzofuran	26.1	U	26.1	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	57.6	U	57.6	200	ug/Kg
84-66-2	Diethylphthalate	32.5	U	32.5	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	30.7	U	30.7	200	ug/Kg
86-73-7	Fluorene	29.1	U	29.1	200	ug/Kg
100-01-6	4-Nitroaniline	73.8	U	73.8	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	37.8	U	37.8	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	32.0	U	32.0	200	ug/Kg
118-74-1	Hexachlorobenzene	29.1	U	29.1	200	ug/Kg
1912-24-9	Atrazine	39.1	U	39.1	200	ug/Kg
87-86-5	Pentachlorophenol	59.0	U	59.0	380	ug/Kg
85-01-8	Phenanthrene	24.0	U	24.0	200	ug/Kg
120-12-7	Anthracene	38.3	U	38.3	200	ug/Kg
86-74-8	Carbazole	35.9	U	35.9	200	ug/Kg
84-74-2	Di-n-butylphthalate	55.1	U	55.1	200	ug/Kg
206-44-0	Fluoranthene	34.5	U	34.5	200	ug/Kg
129-00-0	Pyrene	41.4	U	41.4	200	ug/Kg
85-68-7	Butylbenzylphthalate	82.1	U	82.1	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	42.2	U	42.2	380	ug/Kg
56-55-3	Benzo(a)anthracene	26.5	U	26.5	200	ug/Kg
218-01-9	Chrysene	22.9	U	22.9	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	68.1	U	68.1	200	ug/Kg
117-84-0	Di-n-octyl phthalate	99.8	U	99.8	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	21.9	U	21.9	200	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-32	SDG No.:	Q2032
Lab Sample ID:	Q2032-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142451.D	1	05/16/25 10:00	05/19/25 15:04	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	25.8	U	25.8	200	ug/Kg
50-32-8	Benzo(a)pyrene	33.9	U	33.9	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.5	U	33.5	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	31.5	U	31.5	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	29.6	U	29.6	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	29.4	U	29.4	200	ug/Kg
123-91-1	1,4-Dioxane	52.0	U	52.0	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	31.5	U	31.5	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	81.0		18 - 112	54%	SPK: 150
13127-88-3	Phenol-d6	74.4		15 - 107	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	53.2		18 - 107	53%	SPK: 100
321-60-8	2-Fluorobiphenyl	47.8		20 - 109	48%	SPK: 100
118-79-6	2,4,6-Tribromophenol	89.8		10 - 116	60%	SPK: 150
1718-51-0	Terphenyl-d14	47.0		10 - 105	47%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	129000	6.898			
1146-65-2	Naphthalene-d8	454000	8.181			
15067-26-2	Acenaphthene-d10	244000	9.939			
1517-22-2	Phenanthrene-d10	432000	11.428			
1719-03-5	Chrysene-d12	248000	14.063			
1520-96-3	Perylene-d12	251000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
	unknown3.422	100	J		3.42	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	AB		5.12	ug/Kg
006180-61-6	1-Propanol, 3-phenoxy-	95.1	J		8.49	ug/Kg
	unknown10.034	1700	J		10.0	ug/Kg
000057-10-3	n-Hexadecanoic acid	380	J		12.0	ug/Kg
000057-11-4	Octadecanoic acid	110	J		12.7	ug/Kg
006385-15-5	Heptafluorobutyric acid, hexadecyl	160	J		13.9	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-32	SDG No.:	Q2032
Lab Sample ID:	Q2032-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	86.8
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	SVOC-TCL BNA -20
	Decanted :	Level :	LOW
Injection Volume :	GPC Factor :	1.0	GPC Cleanup : N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF142451.D	1	05/16/25 10:00	05/19/25 15:04	PB168041

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142451.D
Acq On : 19 May 2025 15:04
Operator : RC/JU
Sample : Q2032-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-32

Quant Time: May 19 15:28:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	128621	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	454103	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	244134	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	432190	20.000	ng	0.00
76) Chrysene-d12	14.063	240	247849	20.000	ng	0.00
86) Perylene-d12	15.557	264	251162	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	610227	80.990	ng	0.00
7) Phenol-d6	6.522	99	689369	74.390	ng	0.00
23) Nitrobenzene-d5	7.457	82	395999	53.184	ng	-0.01
42) 2,4,6-Tribromophenol	10.728	330	211719	89.823	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	818850	47.825	ng	0.00
79) Terphenyl-d14	13.010	244	786553	46.971	ng	0.00

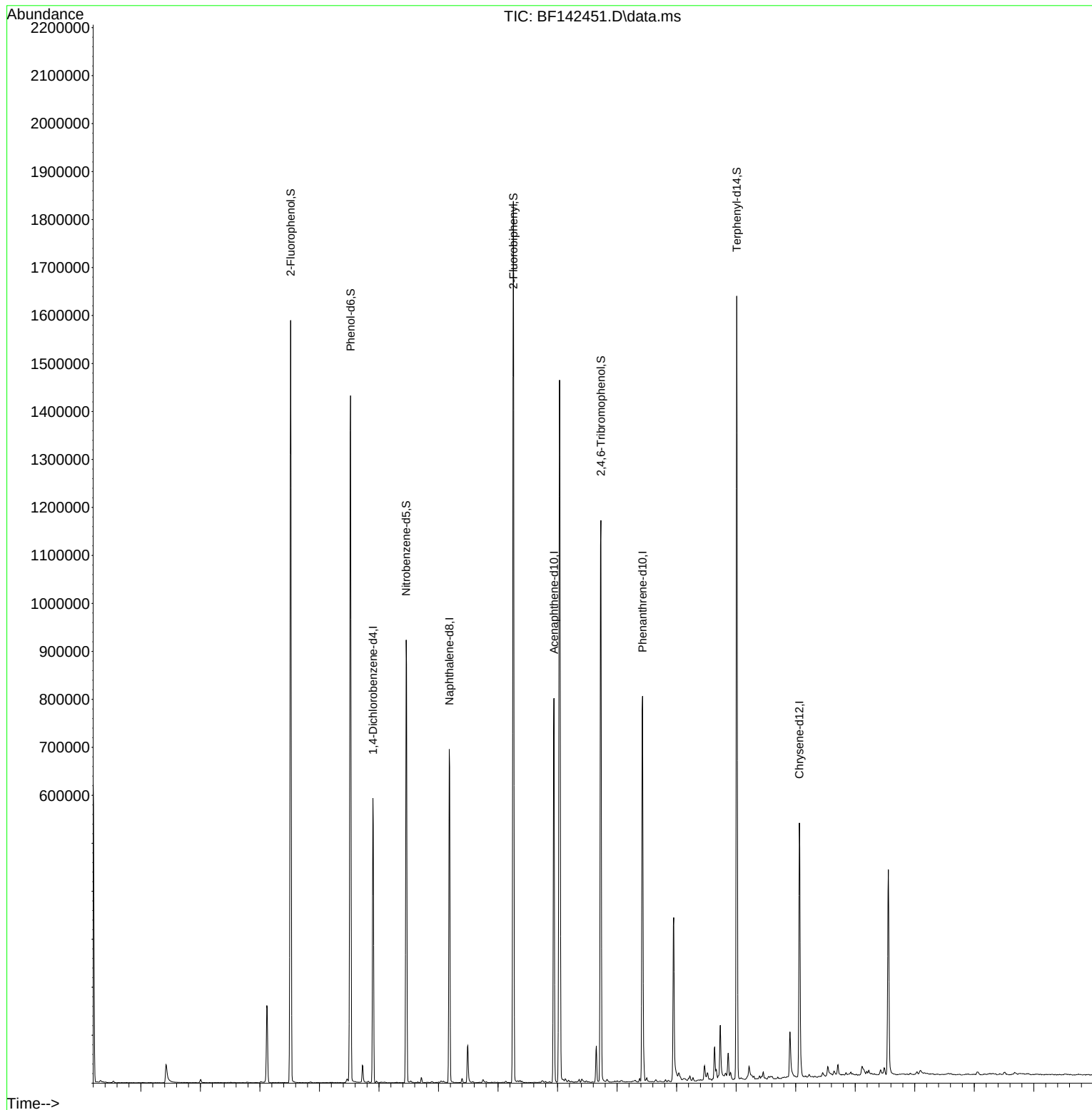
Target Compounds	Qvalue
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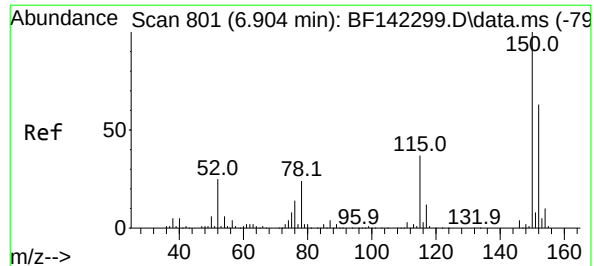
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142451.D
Acq On : 19 May 2025 15:04
Operator : RC/JU
Sample : Q2032-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-32

Quant Time: May 19 15:28:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.898 min Scan# 801

Delta R.T. -0.006 min

Lab File: BF142451.D

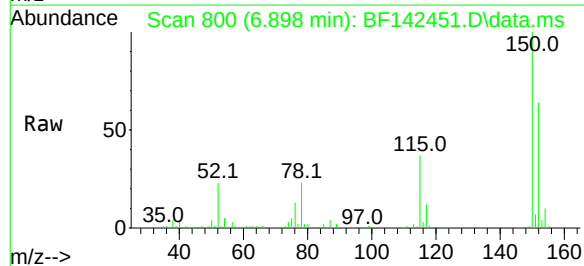
Acq: 19 May 2025 15:04

Instrument :

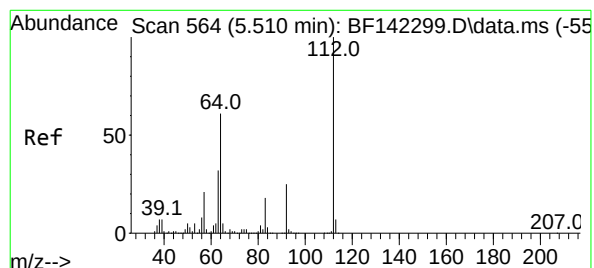
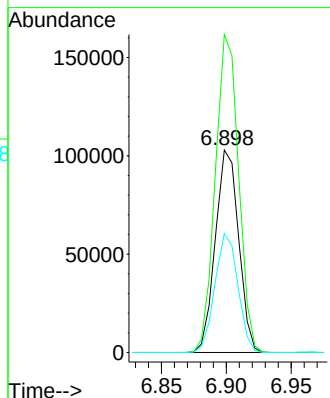
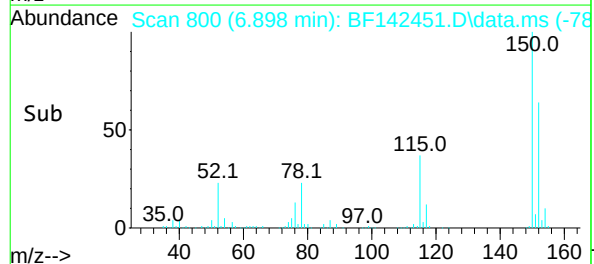
BNA_F

ClientSampleId :

TP-32



Tgt Ion:	152	Resp:	128621
Ion	Ratio	Lower	Upper
152	100		
150	157.1	126.6	190.0
115	58.7	47.3	70.9



#5

2-Fluorophenol

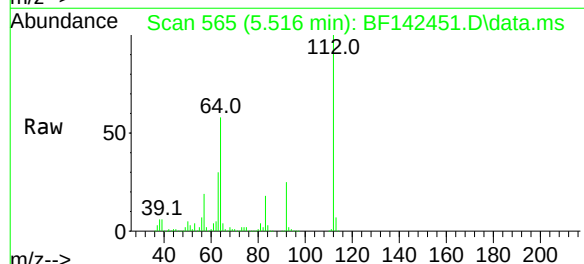
Concen: 80.990 ng

RT: 5.516 min Scan# 565

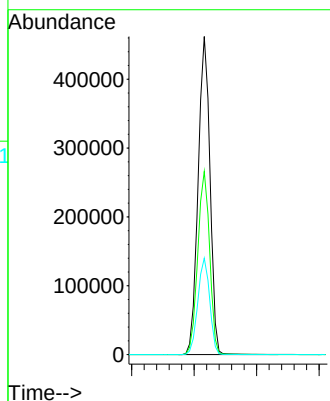
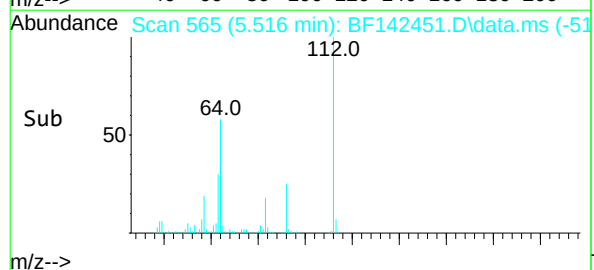
Delta R.T. 0.006 min

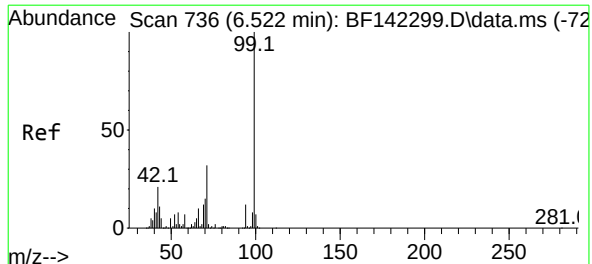
Lab File: BF142451.D

Acq: 19 May 2025 15:04



Tgt Ion:	112	Resp:	610227
Ion	Ratio	Lower	Upper
112	100		
64	57.6	48.9	73.3
63	30.3	25.6	38.4





#7

Phenol-d6

Concen: 74.390 ng

RT: 6.522 min Scan# 73

Delta R.T. 0.000 min

Lab File: BF142451.D

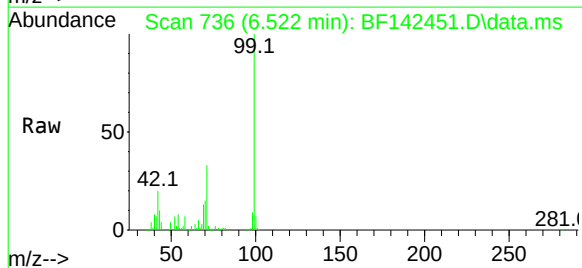
Acq: 19 May 2025 15:04

Instrument :

BNA_F

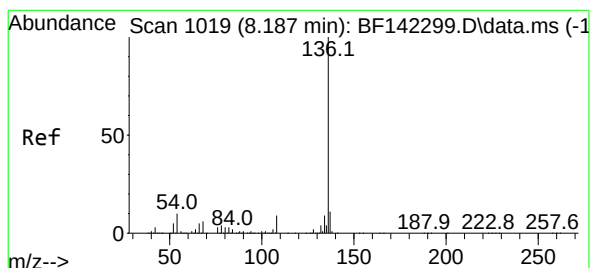
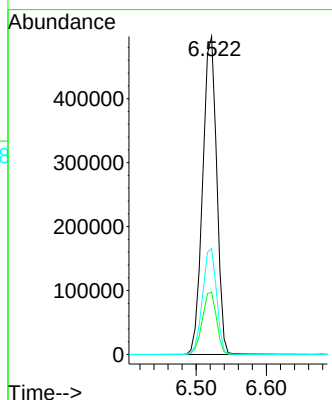
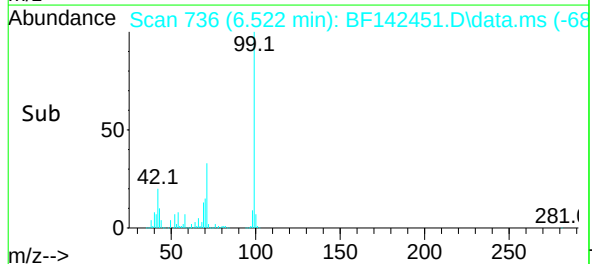
ClientSampleId :

TP-32



Tgt Ion: 99 Resp: 689369

Ion	Ratio	Lower	Upper
99	100		
42	19.6	17.0	25.4
71	33.4	25.8	38.8



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.181 min Scan# 1018

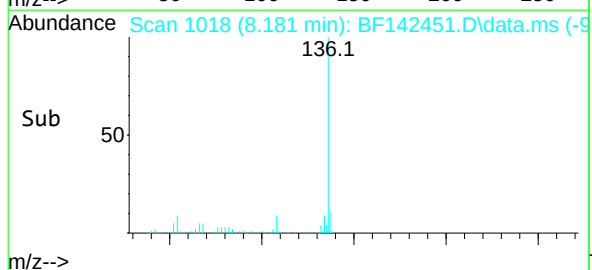
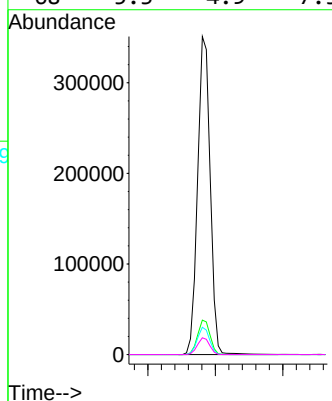
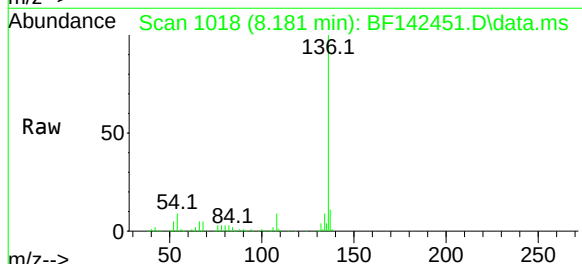
Delta R.T. -0.006 min

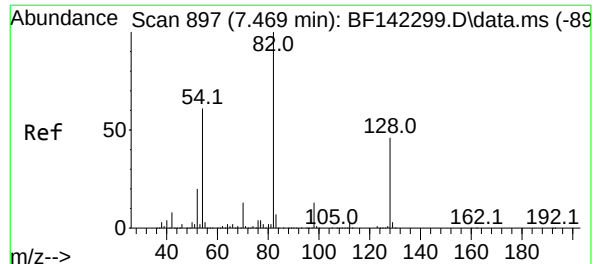
Lab File: BF142451.D

Acq: 19 May 2025 15:04

Tgt Ion: 136 Resp: 454103

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.9	13.3
54	8.6	7.7	11.5
68	5.3	4.9	7.3





#23

Nitrobenzene-d5

Concen: 53.184 ng

RT: 7.457 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF142451.D

Acq: 19 May 2025 15:04

Instrument :

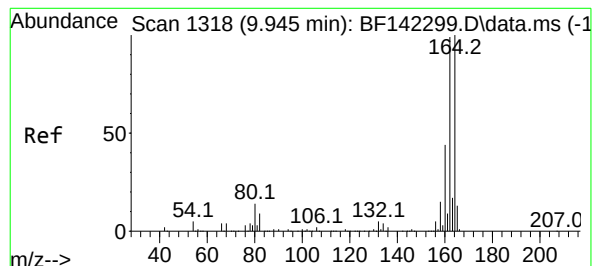
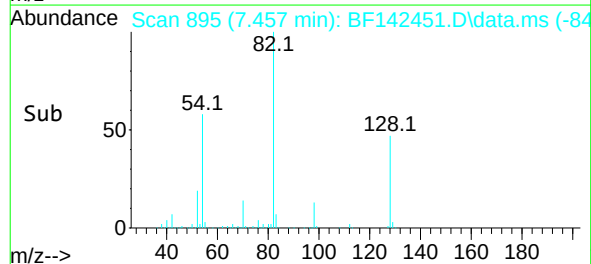
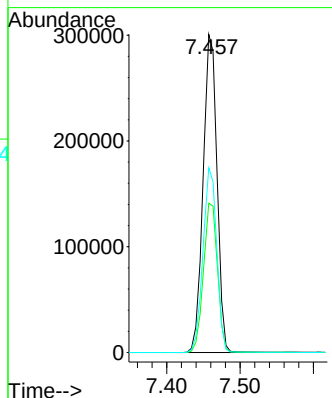
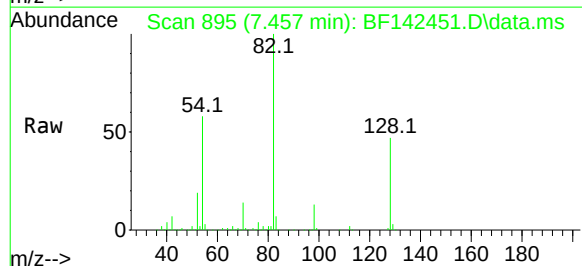
BNA_F

ClientSampleId :

TP-32

Tgt Ion: 82 Resp: 395999

Ion	Ratio	Lower	Upper
82	100		
128	46.9	37.0	55.6
54	58.1	48.6	73.0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.939 min Scan# 1317

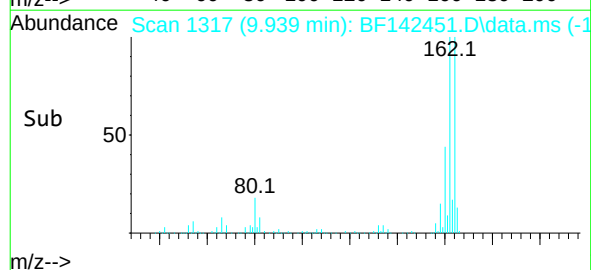
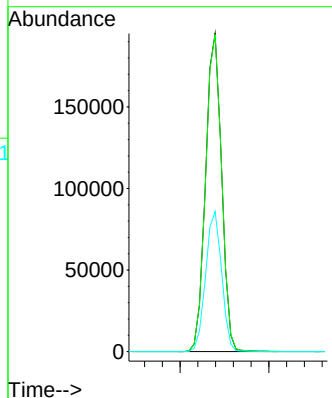
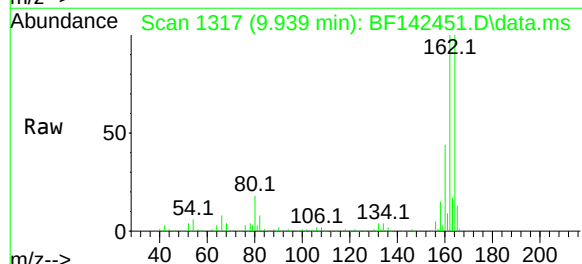
Delta R.T. -0.006 min

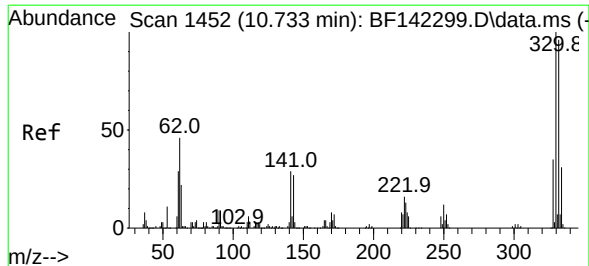
Lab File: BF142451.D

Acq: 19 May 2025 15:04

Tgt Ion: 164 Resp: 244134

Ion	Ratio	Lower	Upper
164	100		
162	99.7	79.2	118.8
160	44.0	35.3	52.9





#42

2,4,6-Tribromophenol

Concen: 89.823 ng

RT: 10.728 min Scan# 14

Delta R.T. -0.006 min

Lab File: BF142451.D

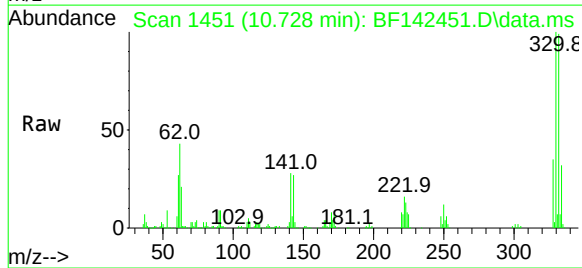
Acq: 19 May 2025 15:04

Instrument :

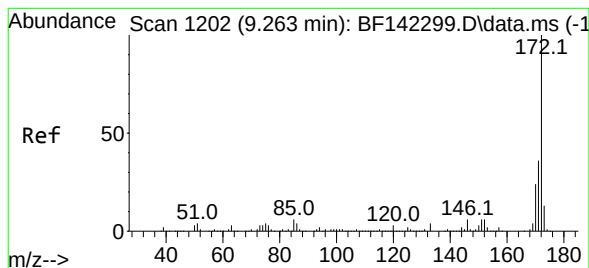
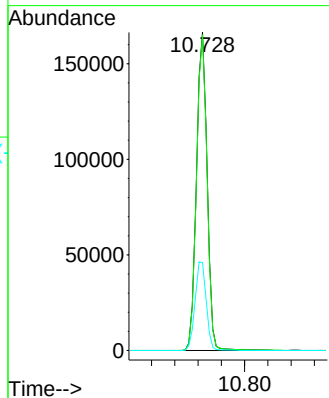
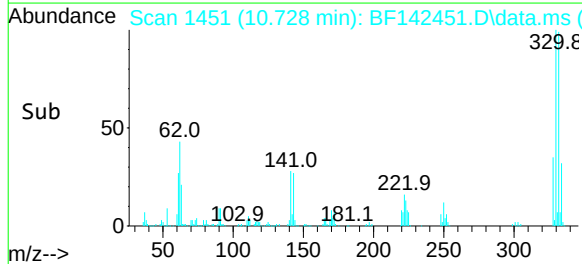
BNA_F

ClientSampleId :

TP-32



Tgt Ion:	330	Resp:	211719
Ion	Ratio	Lower	Upper
330	100		
332	98.6	76.8	115.2
141	29.3	24.9	37.3



#45

2-Fluorobiphenyl

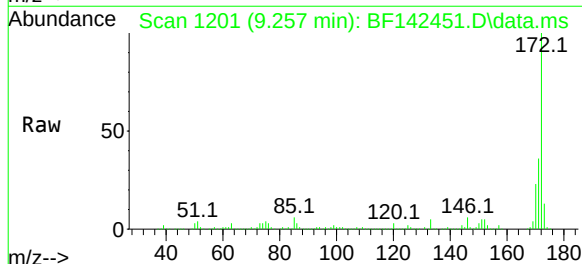
Concen: 47.825 ng

RT: 9.257 min Scan# 1201

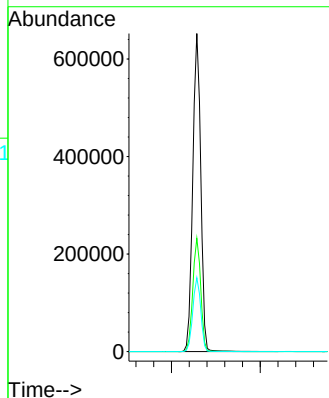
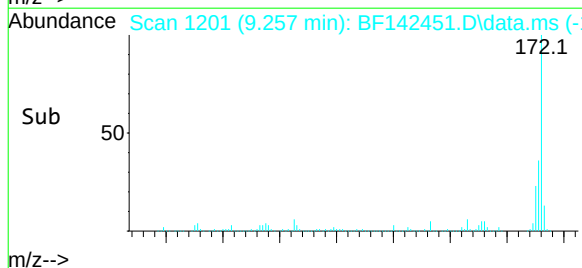
Delta R.T. -0.006 min

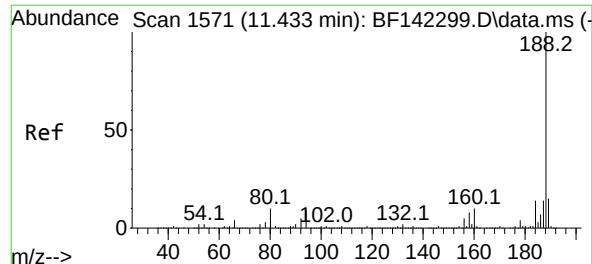
Lab File: BF142451.D

Acq: 19 May 2025 15:04



Tgt Ion:	172	Resp:	818850
Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.6	42.8
170	23.2	19.0	28.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.428 min Scan# 15

Delta R.T. -0.006 min

Lab File: BF142451.D

Acq: 19 May 2025 15:04

Instrument :

BNA_F

ClientSampleId :

TP-32

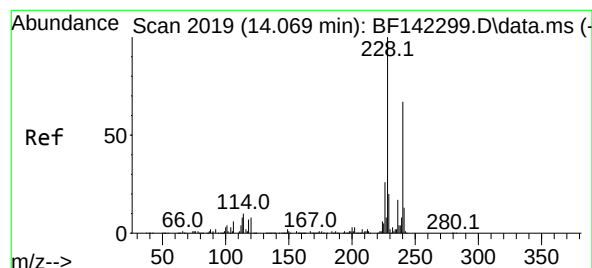
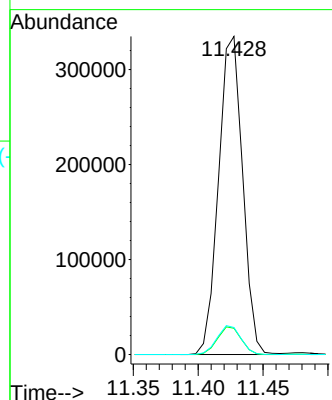
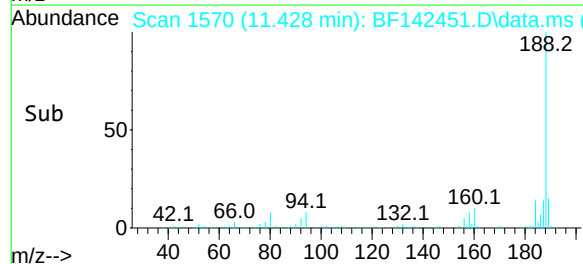
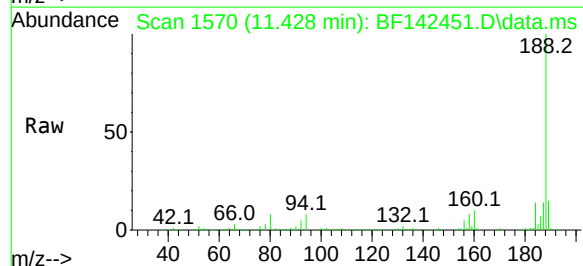
Tgt Ion:188 Resp: 432190

Ion Ratio Lower Upper

188 100

94 8.2 7.5 11.3

80 8.5 7.9 11.9



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.063 min Scan# 2018

Delta R.T. -0.006 min

Lab File: BF142451.D

Acq: 19 May 2025 15:04

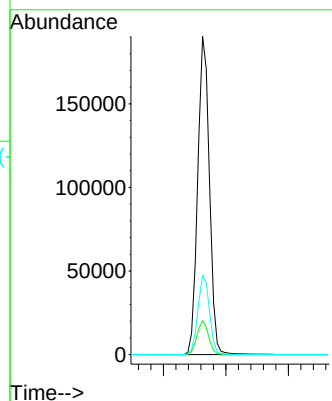
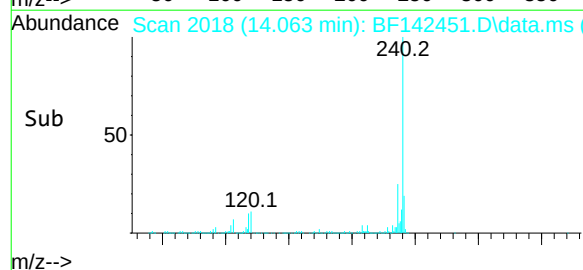
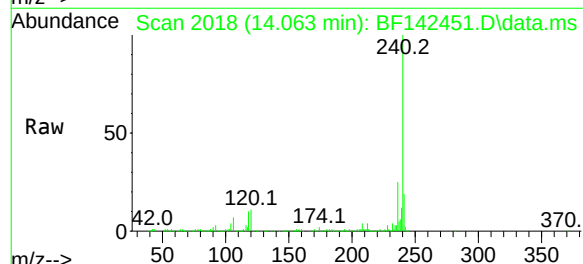
Tgt Ion:240 Resp: 247849

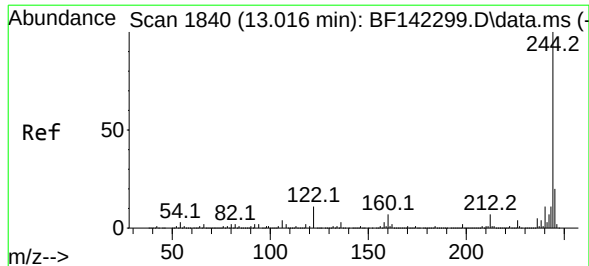
Ion Ratio Lower Upper

240 100

120 10.6 9.7 14.5

236 24.8 20.0 30.0





#79

Terphenyl-d14

Concen: 46.971 ng

RT: 13.010 min Scan# 18

Delta R.T. -0.006 min

Lab File: BF142451.D

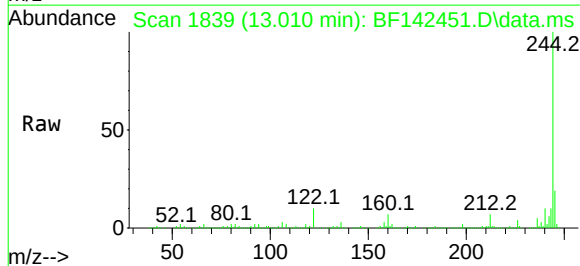
Acq: 19 May 2025 15:04

Instrument :

BNA_F

ClientSampleId :

TP-32



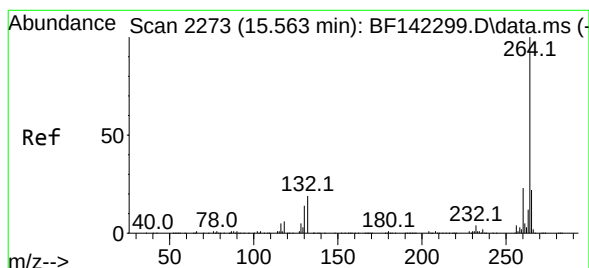
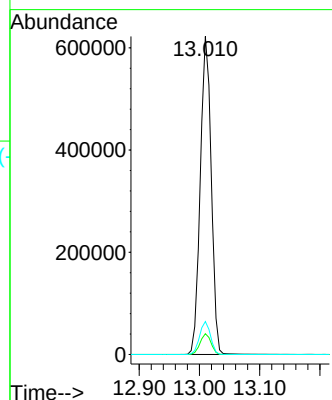
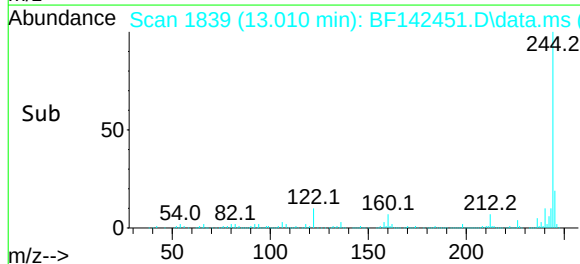
Tgt Ion:244 Resp: 786553

Ion Ratio Lower Upper

244 100

212 6.5 5.4 8.2

122 10.4 9.0 13.4



#86

Perylene-d12

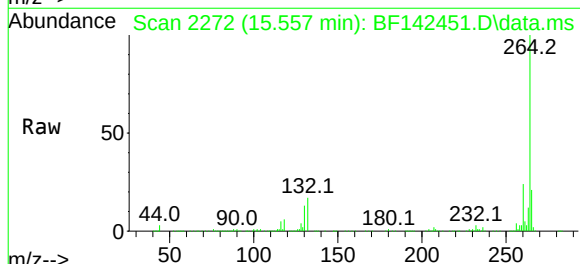
Concen: 20.000 ng

RT: 15.557 min Scan# 2272

Delta R.T. -0.006 min

Lab File: BF142451.D

Acq: 19 May 2025 15:04



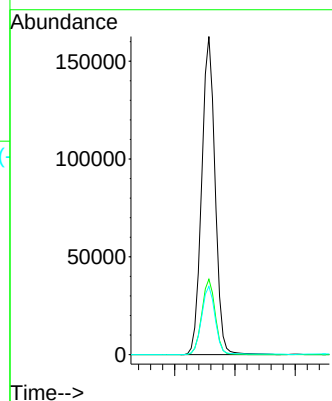
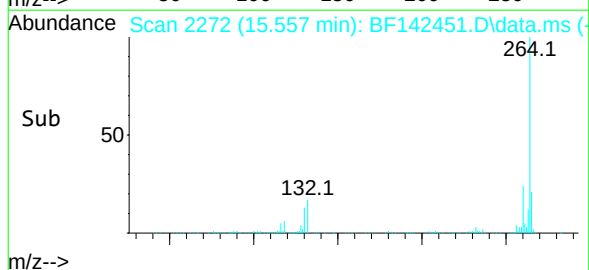
Tgt Ion:264 Resp: 251162

Ion Ratio Lower Upper

264 100

260 23.7 18.6 27.8

265 21.4 17.5 26.3



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
 Data File : BF142451.D
 Acq On : 19 May 2025 15:04
 Operator : RC/JU
 Sample : Q2032-08
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-32

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0
 Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

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

Signal : TIC: BF142451.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.422	204	209	237	rBV	37679	96148	4.21%	0.470%
2	5.116	488	497	505	rVB	160546	238584	10.44%	1.167%
3	5.516	559	565	570	rBV	1588693	2088049	91.41%	10.210%
4	6.522	729	736	741	rBV	1428311	1974565	86.44%	9.655%
5	6.722	760	770	779	rBV	35300	50442	2.21%	0.247%
6	6.898	795	800	805	rBV	591705	730358	31.97%	3.571%
7	7.457	889	895	900	rBV	922675	1210583	53.00%	5.919%
8	8.181	1013	1018	1024	rBV	694526	888125	38.88%	4.343%
9	8.492	1066	1071	1081	rBV	76790	110250	4.83%	0.539%
10	9.257	1195	1201	1206	rBV	1837088	2284251	100.00%	11.169%
11	9.939	1311	1317	1322	rBV	800782	1006220	44.05%	4.920%
12	10.034	1326	1333	1339	rBV	1463531	2270719	99.41%	11.103%
13	10.651	1432	1438	1445	rBV	75364	96713	4.23%	0.473%
14	10.728	1445	1451	1464	rVV	1169872	1541232	67.47%	7.536%
15	11.428	1564	1570	1577	rBV	802476	1085996	47.54%	5.310%
16	11.951	1651	1659	1670	rBV	342239	532837	23.33%	2.605%
17	12.039	1670	1674	1682	rVB	14674	35215	1.54%	0.172%
18	12.469	1742	1747	1752	rBV2	29694	50137	2.19%	0.245%
19	12.639	1771	1776	1779	rBV	66247	90717	3.97%	0.444%
20	12.733	1788	1792	1803	rVB	105615	148723	6.51%	0.727%
21	12.869	1810	1815	1818	rVV	47601	65433	2.86%	0.320%
22	12.904	1818	1821	1828	rVB4	15302	24963	1.09%	0.122%
23	13.010	1833	1839	1844	rBV	1631539	2057725	90.08%	10.062%
24	13.216	1863	1874	1880	rBV4	27529	65730	2.88%	0.321%
25	13.904	1986	1991	2003	rBV	93624	160547	7.03%	0.785%
26	14.063	2012	2018	2030	rBV	529318	748178	32.75%	3.658%
27	14.539	2094	2099	2108	rBV3	19165	42014	1.84%	0.205%
28	14.710	2124	2128	2137	rVB	21269	32415	1.42%	0.158%
29	15.116	2192	2197	2207	rBV	16993	48123	2.11%	0.235%
30	15.557	2265	2272	2289	rBV	427015	676434	29.61%	3.308%

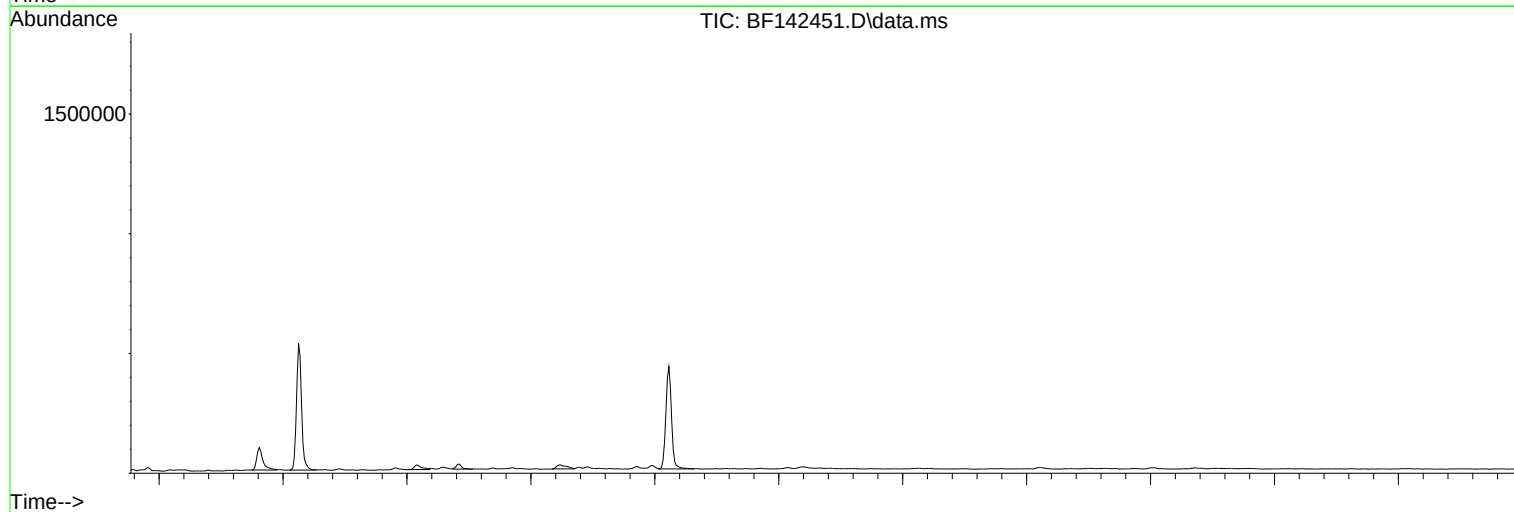
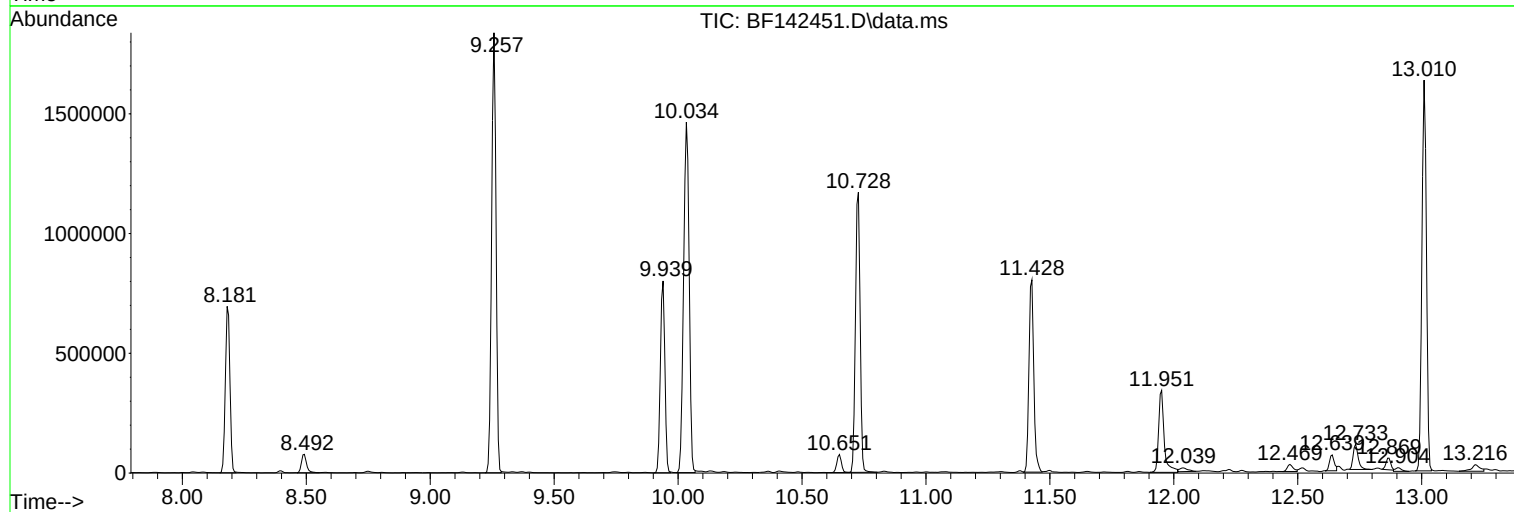
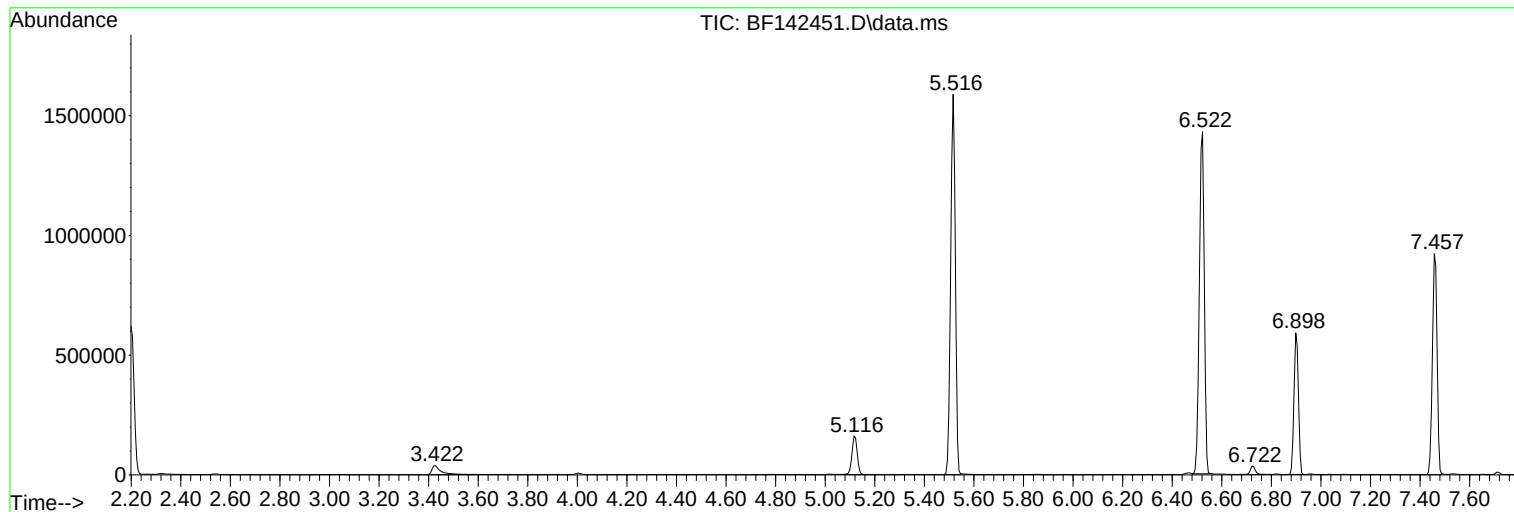
Sum of corrected areas: 20451426

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142451.D
Acq On : 19 May 2025 15:04
Operator : RC/JU
Sample : Q2032-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-32

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

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142451.D
Acq On : 19 May 2025 15:04
Operator : RC/JU
Sample : Q2032-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-32

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

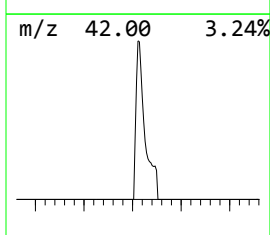
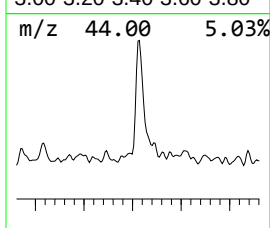
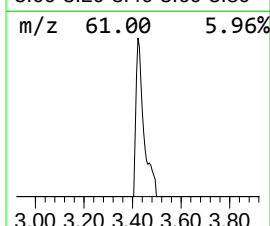
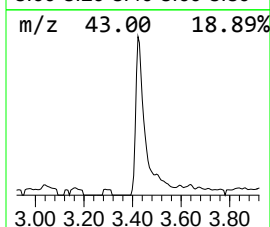
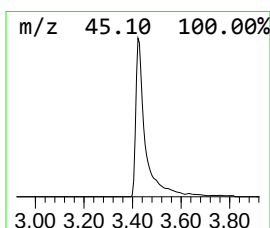
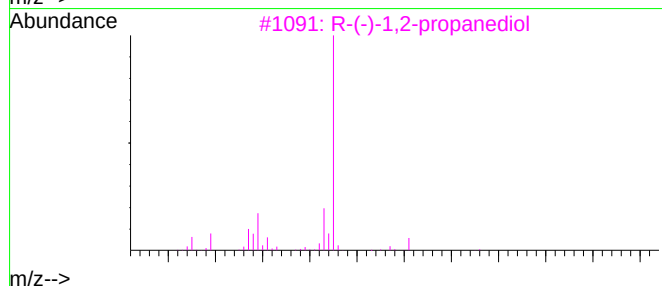
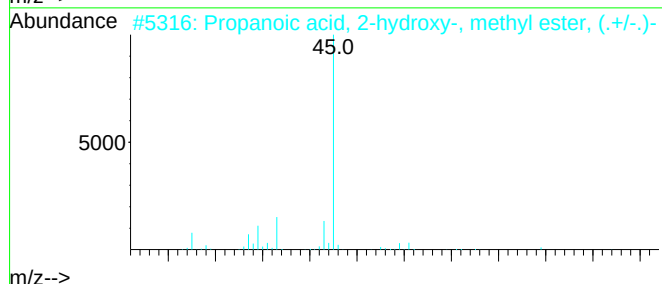
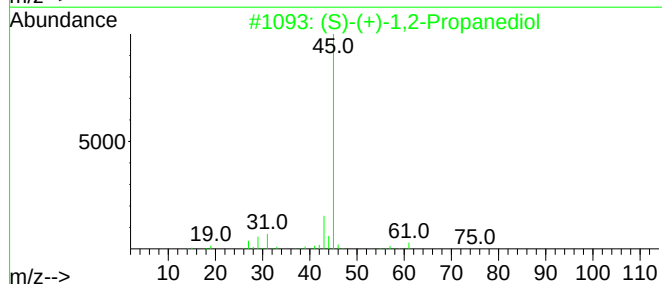
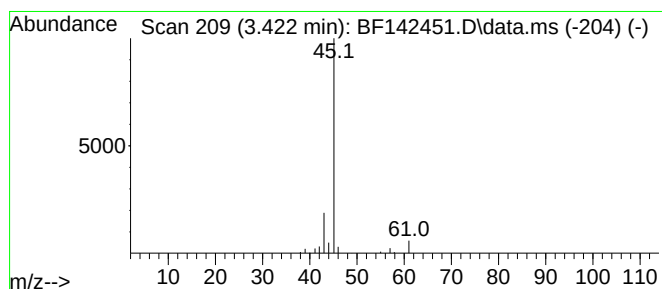
TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 1 unknown3.422 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.422	2.63 ng	96148	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(S)-(+)-1,2-Propanediol	76	C3H8O2	004254-15-3	40
2	Propanoic acid, 2-hydroxy-, meth...	104	C4H8O3	000547-64-8	9
3	R-(-)-1,2-propanediol	76	C3H8O2	004254-14-2	9
4	Propylene Glycol	76	C3H8O2	000057-55-6	9
5	Formamide	45	CH3NO	000075-12-7	7



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142451.D
Acq On : 19 May 2025 15:04
Operator : RC/JU
Sample : Q2032-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-32

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

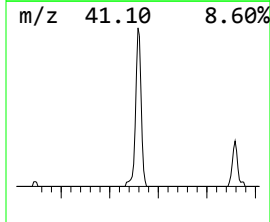
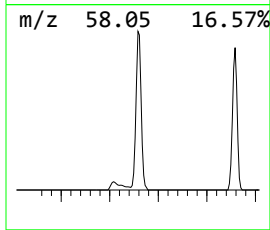
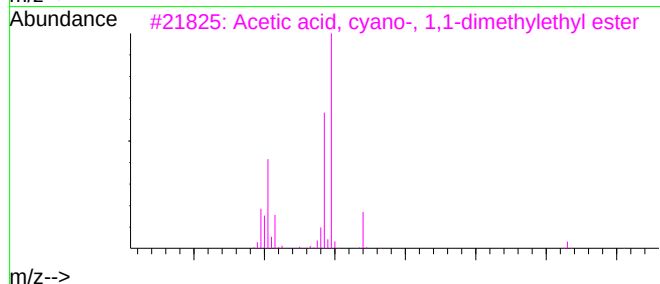
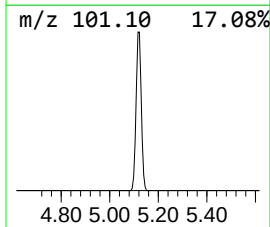
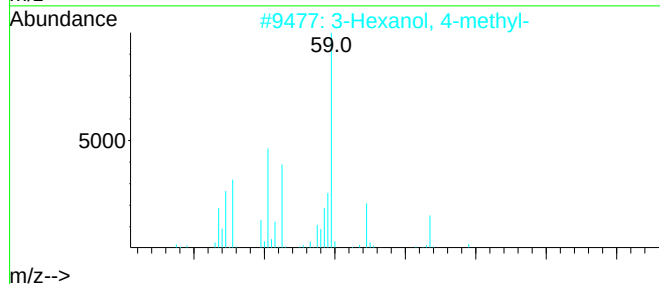
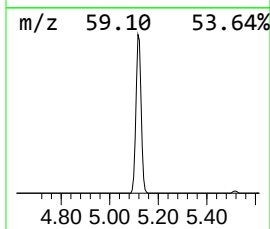
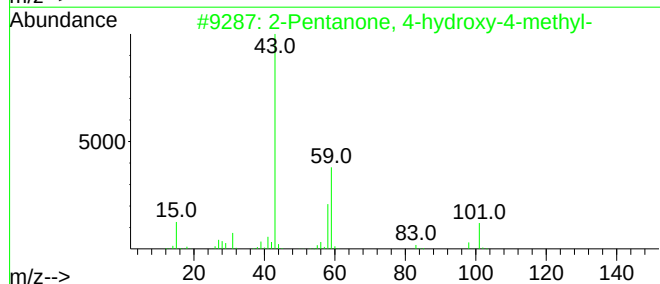
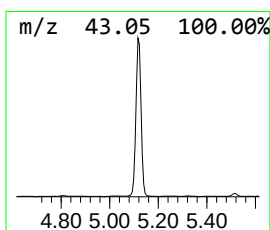
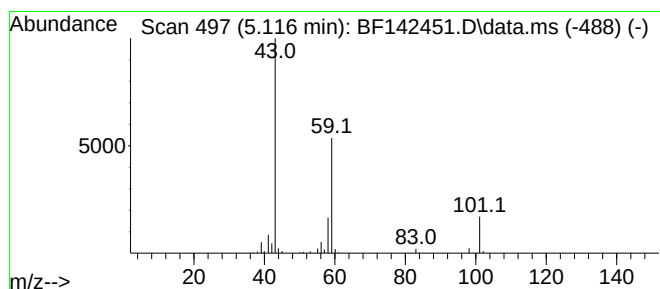
TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	6.53 ng	238584	1,4-Dichlorobenzene-d4	6.898

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142451.D
Acq On : 19 May 2025 15:04
Operator : RC/JU
Sample : Q2032-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-32

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

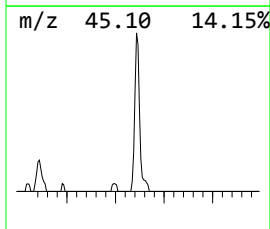
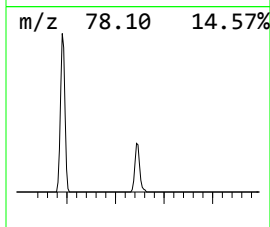
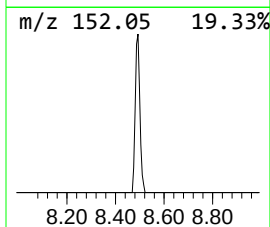
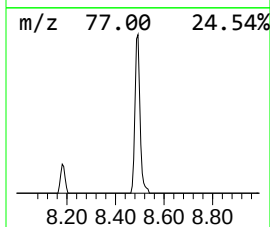
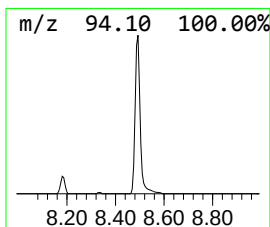
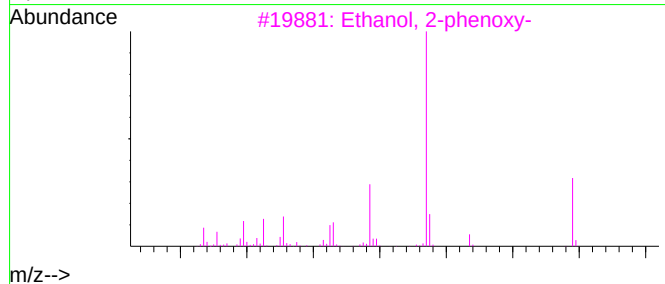
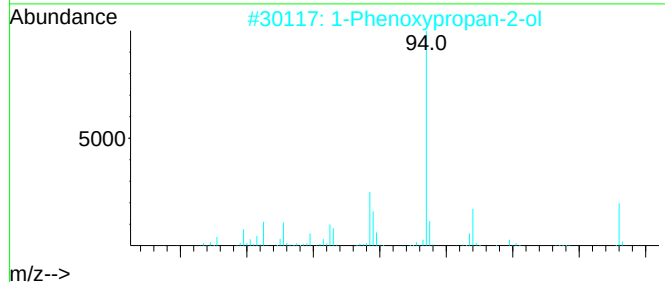
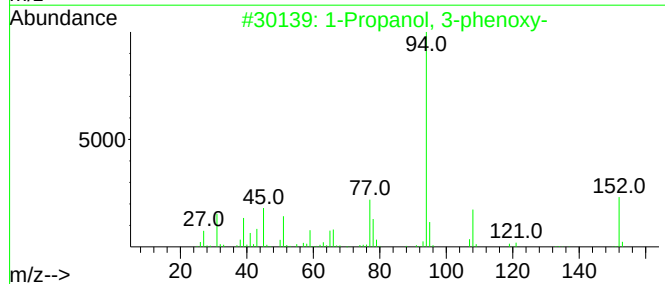
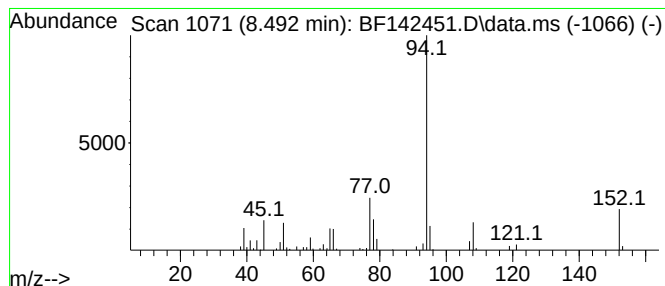
TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 3 1-Propanol, 3-phenoxy- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.492	2.48 ng	110250	Naphthalene-d8	8.181

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol, 3-phenoxy-	152	C9H12O2	006180-61-6	97
2	1-Phenoxypropan-2-ol	152	C9H12O2	000770-35-4	96
3	Ethanol, 2-phenoxy-	138	C8H10O2	000122-99-6	59
4	Benzene, propoxy-	136	C9H12O	000622-85-5	53
5	Carbonic acid, neopentyl phenyl ...	208	C12H16O3	013183-19-2	53



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142451.D
Acq On : 19 May 2025 15:04
Operator : RC/JU
Sample : Q2032-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-32

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

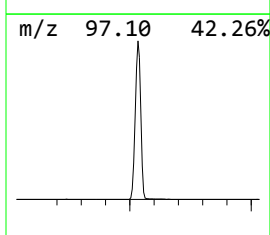
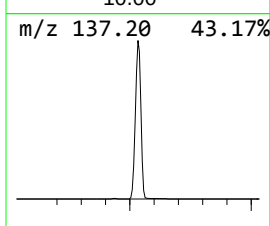
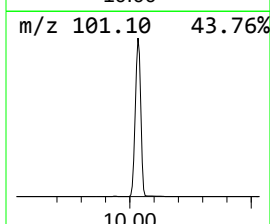
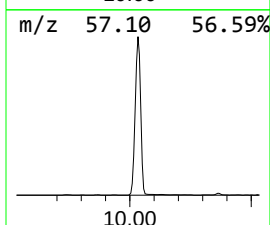
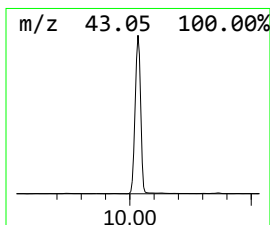
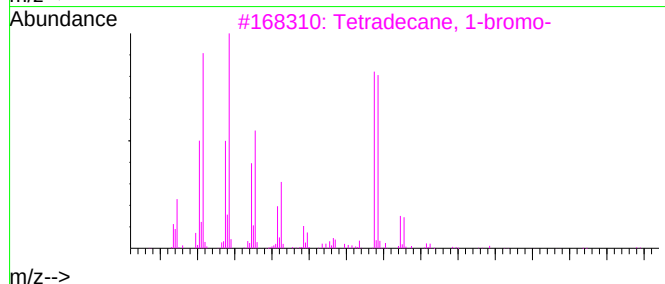
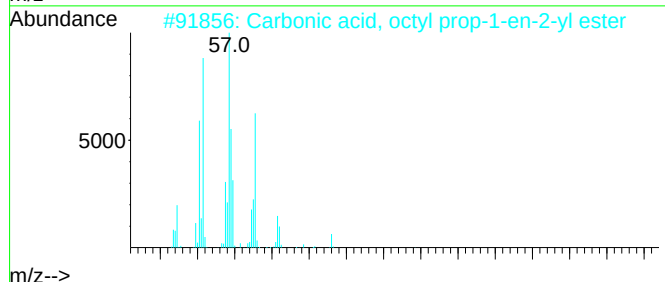
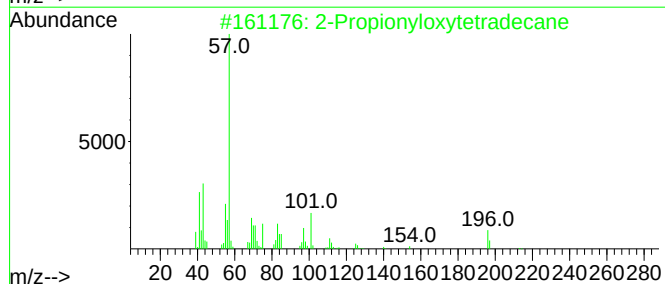
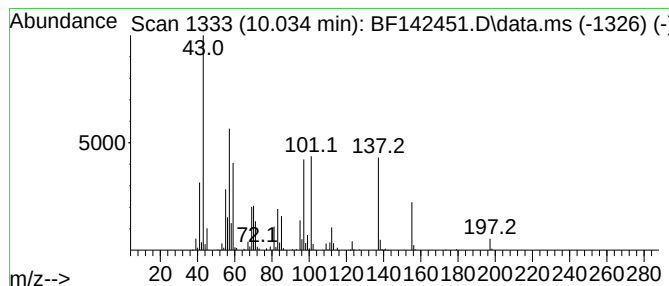
TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 4 unknown10.034 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.034	45.13 ng	2270720	Acenaphthene-d10	9.939

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propionyloxytetradecane	270	C17H34O2	1000245-62-7	16
2	Carbonic acid, octyl prop-1-en-2...	214	C12H22O3	1000382-54-0	12
3	Tetradecane, 1-bromo-	276	C14H29Br	000112-71-0	10
4	Decyl heptyl ether	256	C17H36O	1000406-39-1	10
5	Pent-4-enoyl amide, 2-methyl-N-p...	155	C9H17NO	1000420-35-2	10



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142451.D
Acq On : 19 May 2025 15:04
Operator : RC/JU
Sample : Q2032-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-32

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

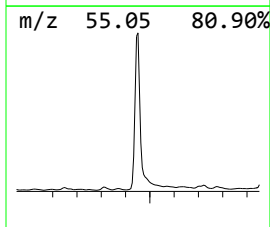
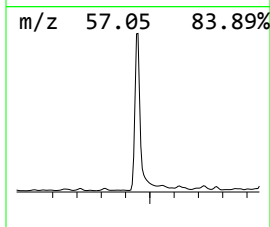
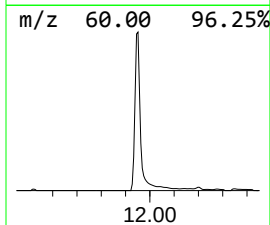
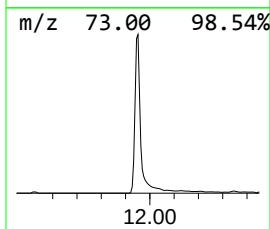
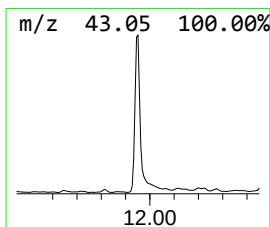
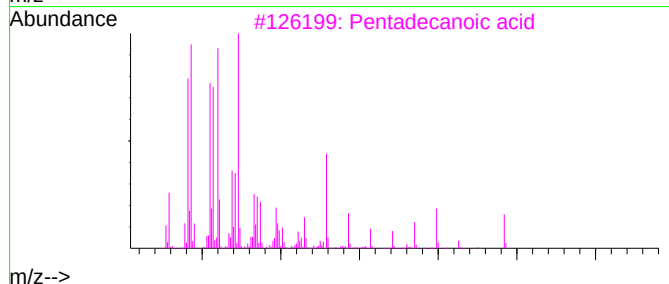
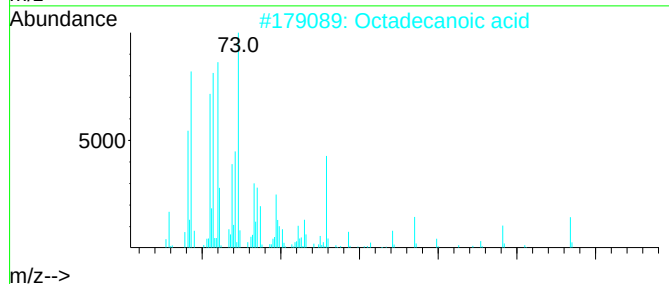
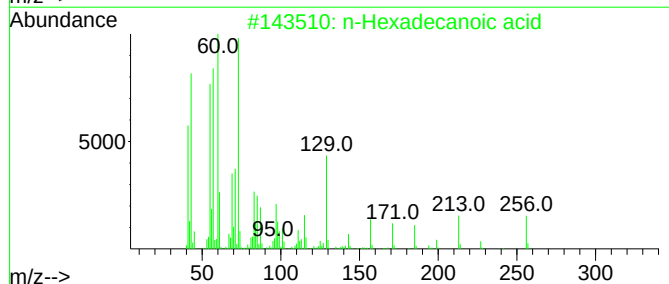
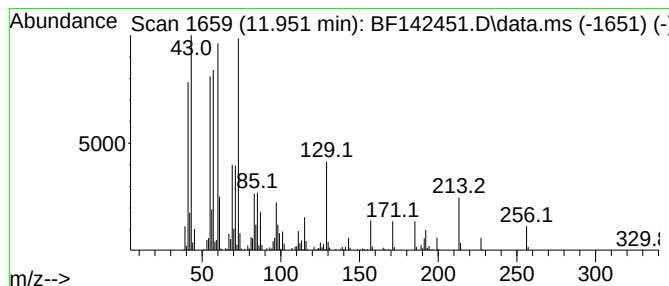
TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 5 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.951	9.81 ng	532837	Phenanthrene-d10	11.428

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Octadecanoic acid	284	C18H36O2	000057-11-4	93
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
4	Tridecanoic acid	214	C13H26O2	000638-53-9	89
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	72



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142451.D
Acq On : 19 May 2025 15:04
Operator : RC/JU
Sample : Q2032-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

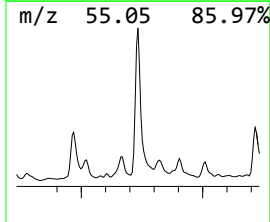
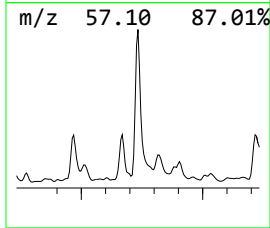
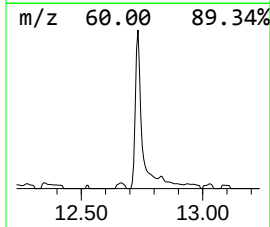
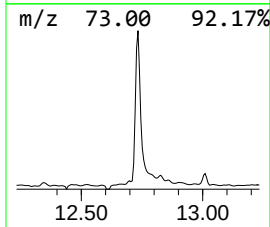
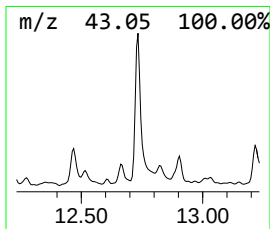
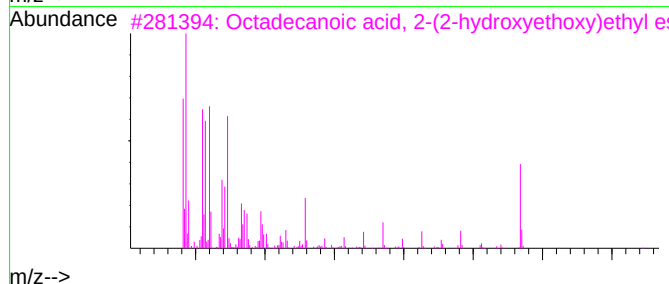
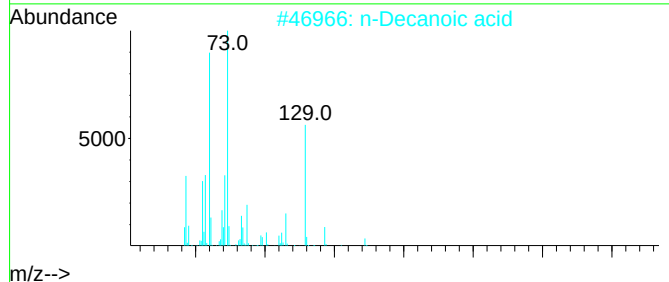
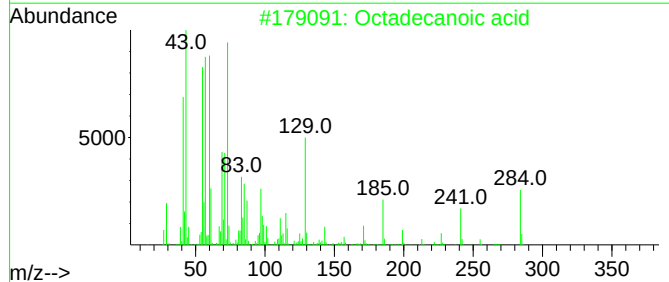
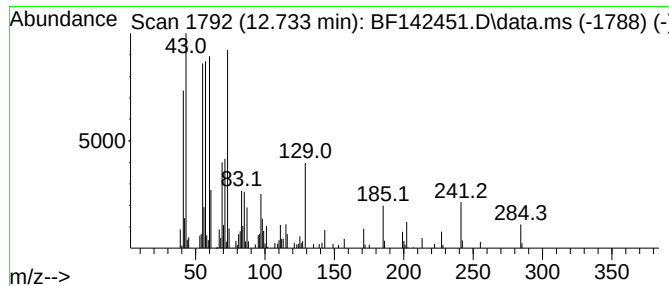
Instrument :
BNA_F
ClientSampleId :
TP-32

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

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

Peak Number 6 Octadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.733	2.74 ng	148723	Phenanthrene-d10	11.428	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	n-Decanoic acid	172	C10H20O2	000334-48-5	92
3	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	86
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	74



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142451.D
Acq On : 19 May 2025 15:04
Operator : RC/JU
Sample : Q2032-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-32

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

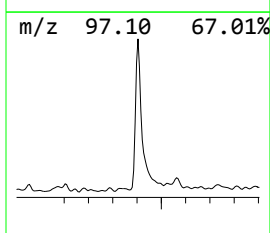
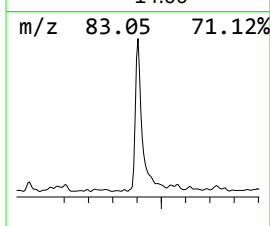
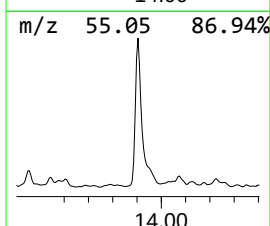
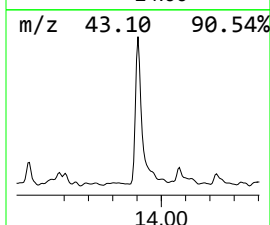
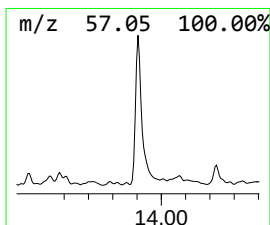
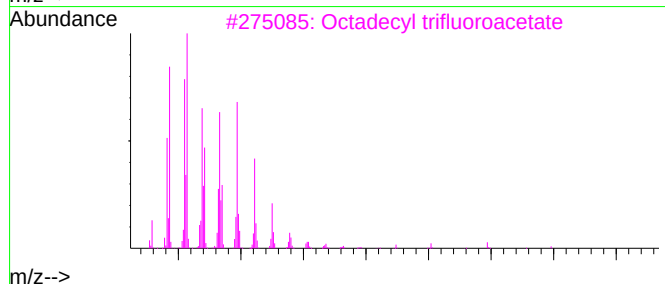
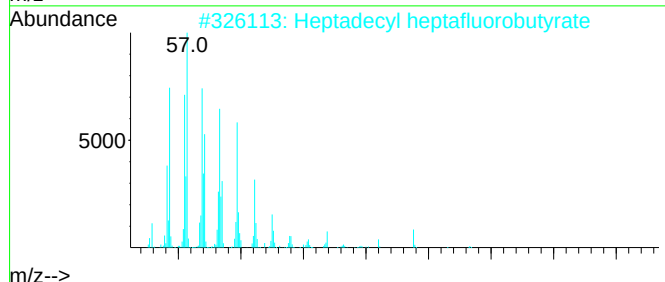
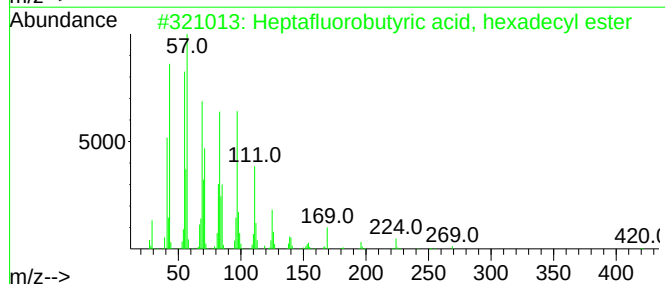
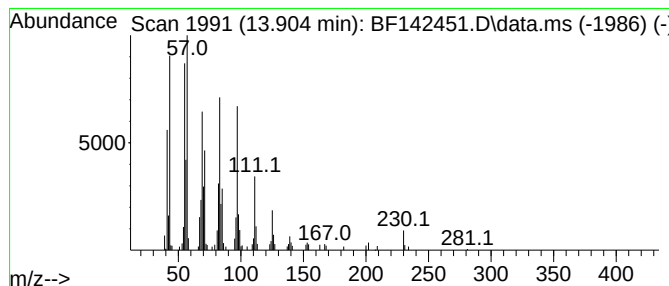
TIC Library : C:\Database\NIST20.L

TIC Integration Parameters: LSCINT.P

Peak Number 7 Heptafluorobutyric acid, he... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	4.29 ng	160547	Chrysene-d12	14.063

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptafluorobutyric acid, hexadec...	438	C20H33F7O2	006385-15-5	94
2	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94
3	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	94
4	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	93
5	1-Heneicosanol	312	C21H44O	015594-90-8	93



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142451.D
Acq On : 19 May 2025 15:04
Operator : RC/JU
Sample : Q2032-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-32

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

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown3.422	3.422	2.6	ng	96148	1	6.898	730358	20.0
2-Pentanone, 4-...	5.116	6.5	ng	238584	1	6.898	730358	20.0
1-Propanol, 3-p...	8.492	2.5	ng	110250	2	8.181	888125	20.0
unknown10.034	10.034	45.1	ng	2270720	3	9.939	1006220	20.0
n-Hexadecanoic ...	11.951	9.8	ng	532837	4	11.428	1086000	20.0
Octadecanoic acid	12.733	2.7	ng	148723	4	11.428	1086000	20.0
Heptafluorobuty...	13.904	4.3	ng	160547	5	14.063	748178	20.0

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	FB-05132025	SDG No.:	Q2032
Lab Sample ID:	Q2032-11	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024716.D	1	05/19/25 08:42	05/20/25 20:42	PB168048

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.2	ug/L
108-95-2	Phenol	0.93	U	0.93	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.83	U	0.83	5.10	ug/L
95-57-8	2-Chlorophenol	0.59	U	0.59	5.10	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.10	ug/L
98-86-2	Acetophenone	0.76	U	0.76	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.60	ug/L
67-72-1	Hexachloroethane	0.66	U	0.66	5.10	ug/L
98-95-3	Nitrobenzene	0.78	U	0.78	5.10	ug/L
78-59-1	Isophorone	0.77	U	0.77	5.10	ug/L
88-75-5	2-Nitrophenol	1.80	U	1.80	5.10	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.69	U	0.69	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.53	U	0.53	5.10	ug/L
91-20-3	Naphthalene	0.51	U	0.51	5.10	ug/L
106-47-8	4-Chloroaniline	0.86	U	0.86	5.10	ug/L
87-68-3	Hexachlorobutadiene	0.55	U	0.55	5.10	ug/L
105-60-2	Caprolactam	1.20	U	1.20	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	0.60	U	0.60	5.10	ug/L
91-57-6	2-Methylnaphthalene	0.57	U	0.57	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	3.70	U	3.70	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	0.52	U	0.52	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	0.63	U	0.63	5.10	ug/L
92-52-4	1,1-Biphenyl	0.54	U	0.54	5.10	ug/L
91-58-7	2-Chloronaphthalene	0.62	U	0.62	5.10	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.10	ug/L
131-11-3	Dimethylphthalate	0.62	U	0.62	5.10	ug/L

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	FB-05132025	SDG No.:	Q2032
Lab Sample ID:	Q2032-11	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024716.D	1	05/19/25 08:42	05/20/25 20:42	PB168048

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.77	U	0.77	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	0.94	U	0.94	5.10	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.10	ug/L
83-32-9	Acenaphthene	0.56	U	0.56	5.10	ug/L
51-28-5	2,4-Dinitrophenol	6.10	U	6.10	10.2	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.2	ug/L
132-64-9	Dibenzofuran	0.62	U	0.62	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.10	ug/L
84-66-2	Diethylphthalate	0.70	U	0.70	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.69	U	0.69	5.10	ug/L
86-73-7	Fluorene	0.64	U	0.64	5.10	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	U	2.90	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	0.59	U	0.59	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	0.41	U	0.41	5.10	ug/L
118-74-1	Hexachlorobenzene	0.53	U	0.53	5.10	ug/L
1912-24-9	Atrazine	1.00	U	1.00	5.10	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.2	ug/L
85-01-8	Phenanthrene	0.51	U	0.51	5.10	ug/L
120-12-7	Anthracene	0.62	U	0.62	5.10	ug/L
86-74-8	Carbazole	0.73	U	0.73	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.10	ug/L
206-44-0	Fluoranthene	0.84	U	0.84	5.10	ug/L
129-00-0	Pyrene	0.51	U	0.51	5.10	ug/L
85-68-7	Butylbenzylphthalate	2.00	U	2.00	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	0.95	U	0.95	10.2	ug/L
56-55-3	Benzo(a)anthracene	0.46	U	0.46	5.10	ug/L
218-01-9	Chrysene	0.45	U	0.45	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.10	ug/L
117-84-0	Di-n-octyl phthalate	2.40	U	2.40	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	0.50	U	0.50	5.10	ug/L

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	FB-05132025	SDG No.:	Q2032
Lab Sample ID:	Q2032-11	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024716.D	1	05/19/25 08:42	05/20/25 20:42	PB168048

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.49	U	0.49	5.10	ug/L
50-32-8	Benzo(a)pyrene	0.56	U	0.56	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.60	U	0.60	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.68	U	0.68	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.70	U	0.70	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.53	U	0.53	5.10	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.73	U	0.73	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	56.8		10 - 139	38%	SPK: 150
13127-88-3	Phenol-d6	31.4		10 - 134	21%	SPK: 150
4165-60-0	Nitrobenzene-d5	77.8		49 - 133	78%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.6		52 - 132	79%	SPK: 100
118-79-6	2,4,6-Tribromophenol	152		44 - 137	101%	SPK: 150
1718-51-0	Terphenyl-d14	86.0		48 - 125	86%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	106000	7.657			
1146-65-2	Naphthalene-d8	406000	10.428			
15067-26-2	Acenaphthene-d10	283000	14.292			
1517-22-2	Phenanthrene-d10	572000	17.08			
1719-03-5	Chrysene-d12	650000	21.509			
1520-96-3	Perylene-d12	736000	24.792			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.70	AB		4.82	ug/L
000112-79-8	9-Octadecenoic acid, (E)-	2.80	J		19.2	ug/L

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	FB-05132025	SDG No.:	Q2032
Lab Sample ID:	Q2032-11	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024716.D	1	05/19/25 08:42	05/20/25 20:42	PB168048

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024716.D
Acq On : 20 May 2025 20:42
Operator : RC/JU
Sample : Q2032-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
FB-05132025

Quant Time: May 21 01:26:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.657	152	106183	20.000	ng	0.00
21) Naphthalene-d8	10.428	136	406207	20.000	ng	# 0.00
39) Acenaphthene-d10	14.292	164	282716	20.000	ng	-0.01
64) Phenanthrene-d10	17.080	188	572204	20.000	ng	-0.02
76) Chrysene-d12	21.509	240	649834	20.000	ng	-0.01
86) Perylene-d12	24.792	264	736394	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	352587	56.794	ng	0.00
7) Phenol-d6	6.863	99	248817	31.403	ng	0.01
23) Nitrobenzene-d5	8.804	82	625859	77.848	ng	0.00
42) 2,4,6-Tribromophenol	15.804	330	729414	152.188	ng	0.00
45) 2-Fluorobiphenyl	12.904	172	1696925	78.637	ng	0.00
79) Terphenyl-d14	19.810	244	3257999	85.968	ng	0.00

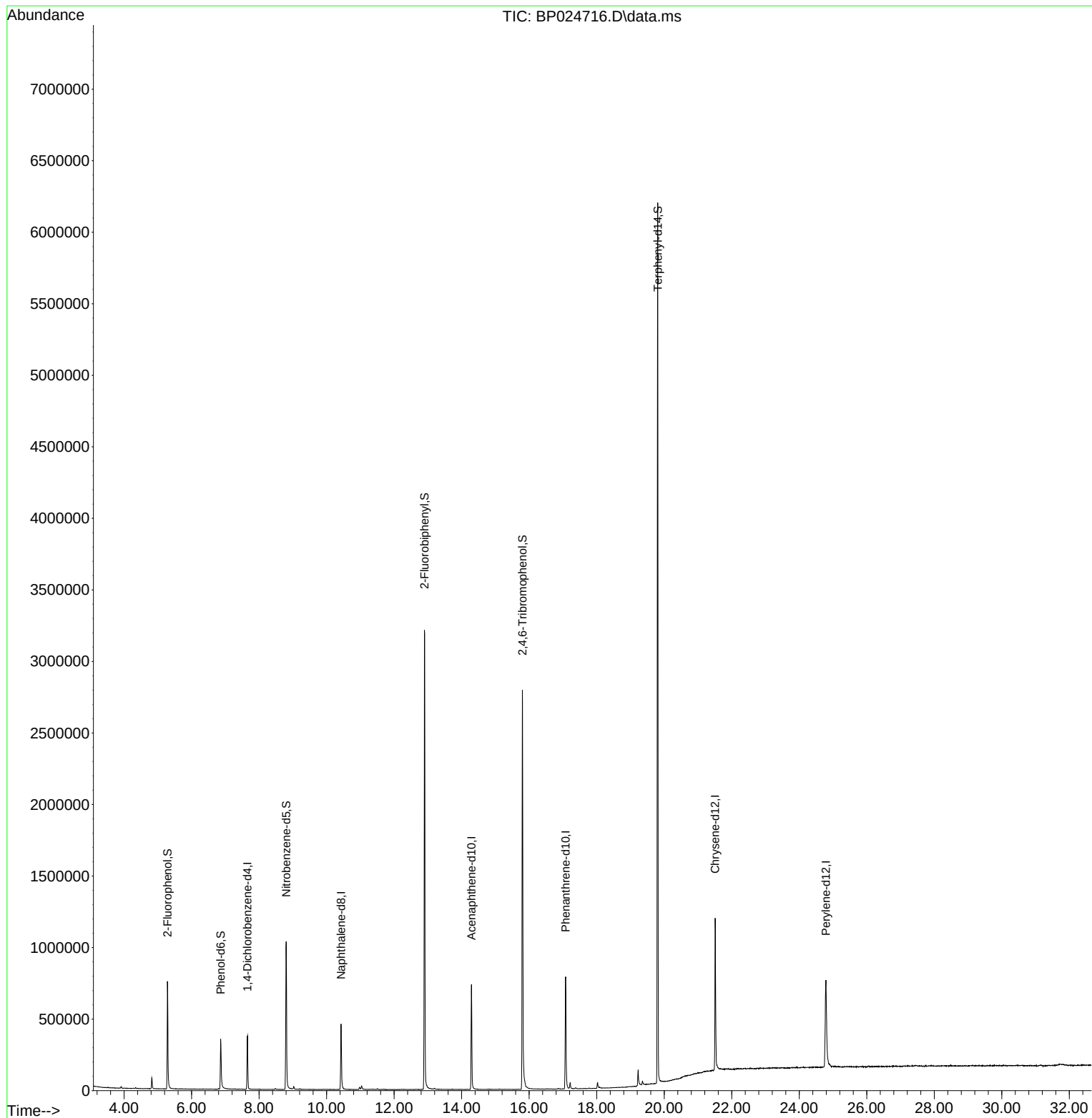
Target Compounds	Qvalue

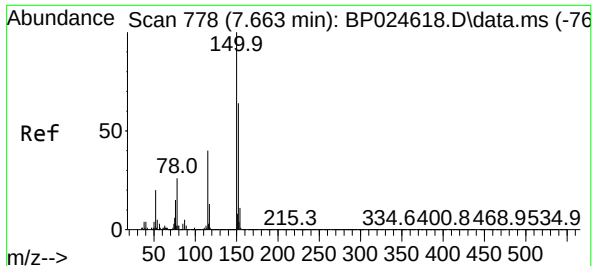
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024716.D
Acq On : 20 May 2025 20:42
Operator : RC/JU
Sample : Q2032-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
FB-05132025

Quant Time: May 21 01:26:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

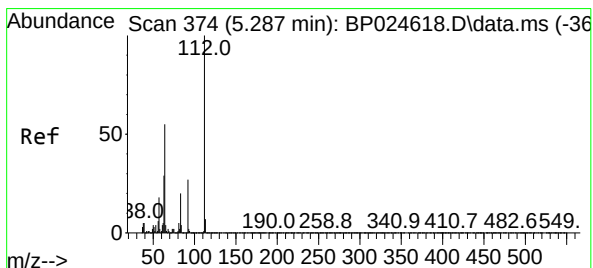
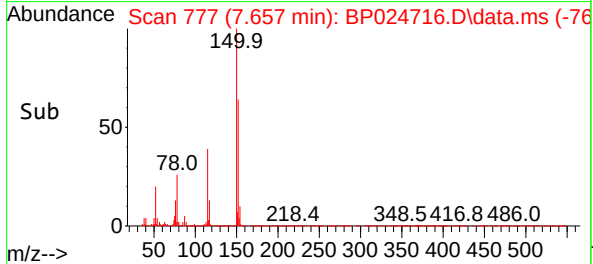
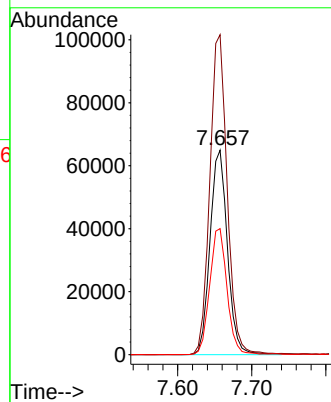
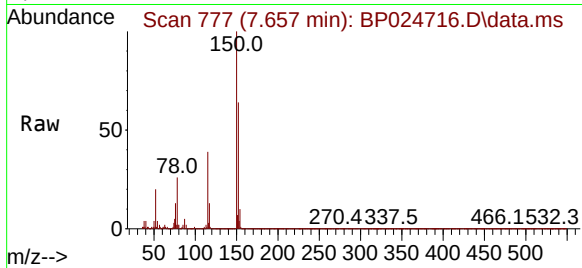




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.657 min Scan# 71
Delta R.T. -0.006 min
Lab File: BP024716.D
Acq: 20 May 2025 20:42

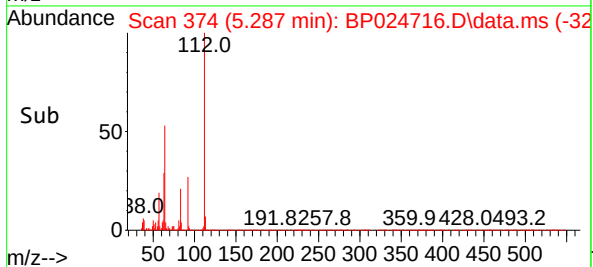
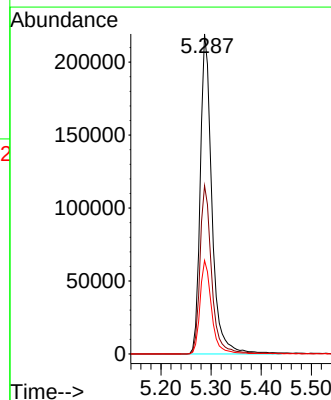
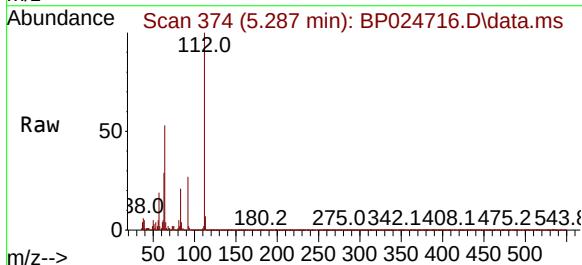
Instrument :
BNA_P
ClientSampleId :
FB-05132025

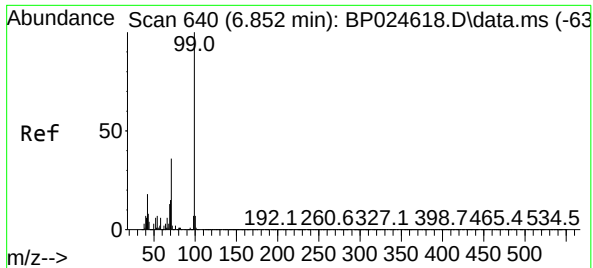
Tgt Ion:152 Resp: 106183
Ion Ratio Lower Upper
152 100
150 156.5 125.9 188.9
115 61.7 50.1 75.1



#5
2-Fluorophenol
Concen: 56.794 ng
RT: 5.287 min Scan# 374
Delta R.T. -0.000 min
Lab File: BP024716.D
Acq: 20 May 2025 20:42

Tgt Ion:112 Resp: 352587
Ion Ratio Lower Upper
112 100
64 52.6 44.1 66.1
63 29.2 23.5 35.3

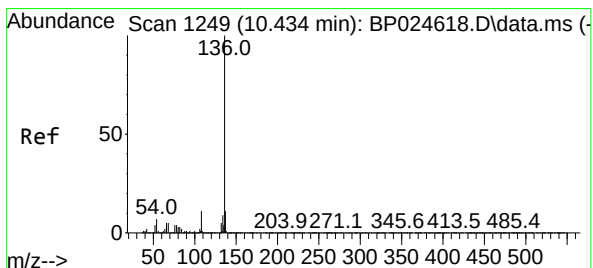
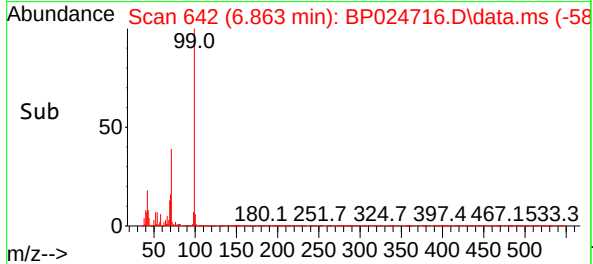
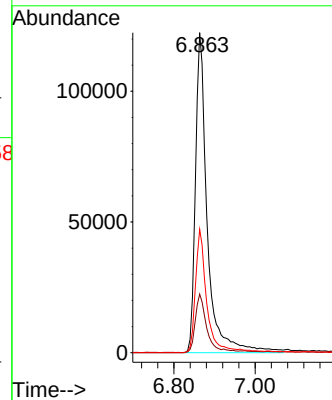
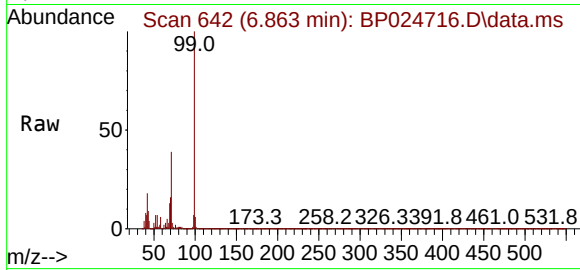




#7
Phenol-d6
Concen: 31.403 ng
RT: 6.863 min Scan# 64
Delta R.T. 0.012 min
Lab File: BP024716.D
Acq: 20 May 2025 20:42

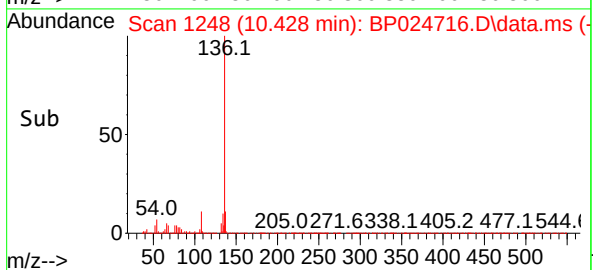
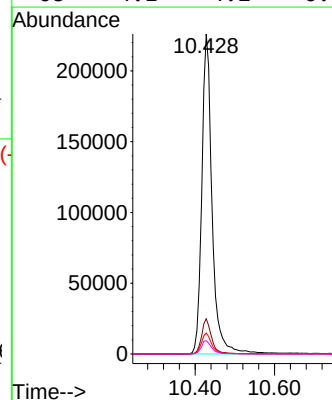
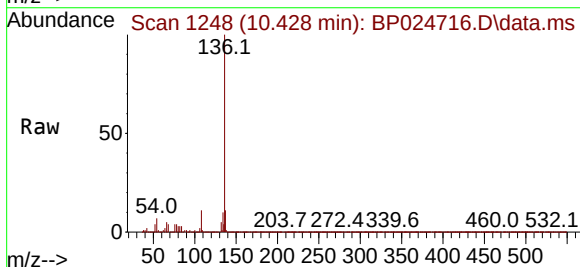
Instrument :
BNA_P
ClientSampleId :
FB-05132025

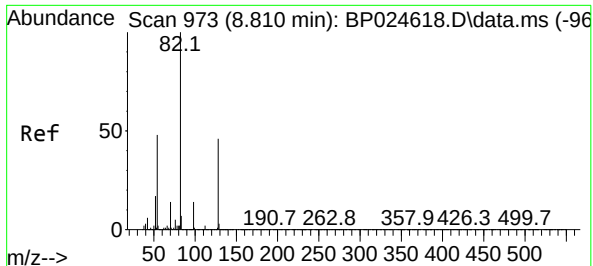
Tgt Ion: 99 Resp: 248817
Ion Ratio Lower Upper
99 100
42 18.3 14.4 21.6
71 38.6 29.2 43.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.428 min Scan# 1248
Delta R.T. -0.006 min
Lab File: BP024716.D
Acq: 20 May 2025 20:42

Tgt Ion: 136 Resp: 406207
Ion Ratio Lower Upper
136 100
137 11.0 8.8 13.2
54 6.5 5.5 8.3
68 4.1 4.2 6.2#

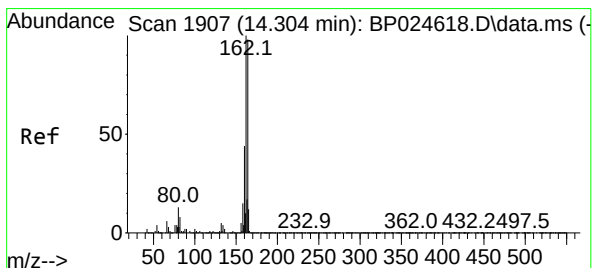
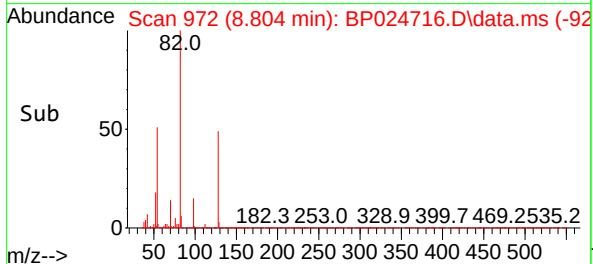
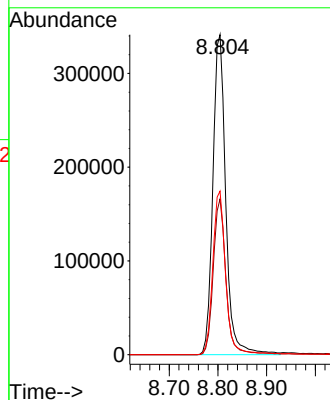
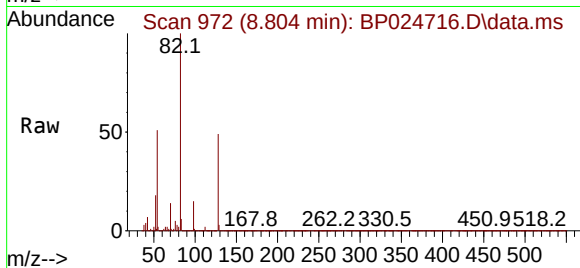




#23
Nitrobenzene-d5
Concen: 77.848 ng
RT: 8.804 min Scan# 91
Delta R.T. -0.006 min
Lab File: BP024716.D
Acq: 20 May 2025 20:42

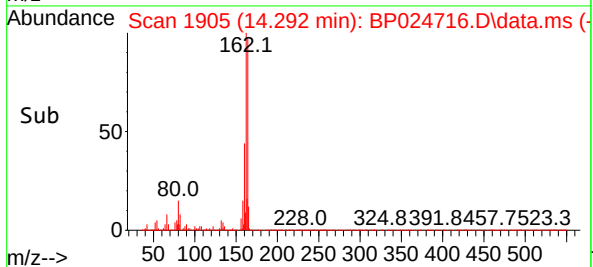
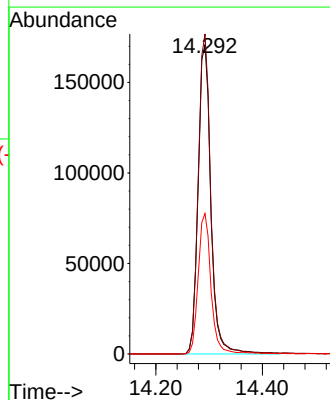
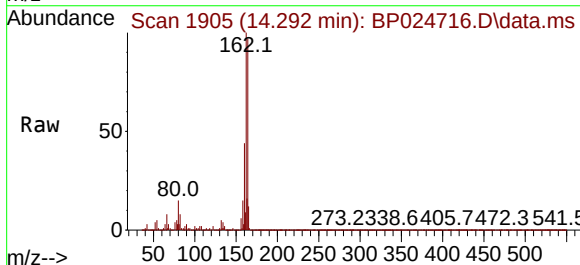
Instrument :
BNA_P
ClientSampleId :
FB-05132025

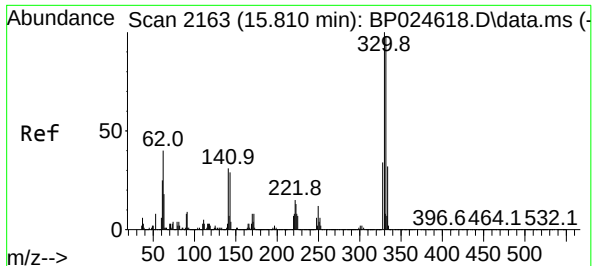
Tgt Ion: 82 Resp: 625859
Ion Ratio Lower Upper
82 100
128 48.6 37.0 55.4
54 51.1 38.7 58.1



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.292 min Scan# 1905
Delta R.T. -0.012 min
Lab File: BP024716.D
Acq: 20 May 2025 20:42

Tgt Ion:164 Resp: 282716
Ion Ratio Lower Upper
164 100
162 103.5 81.8 122.6
160 45.4 36.3 54.5

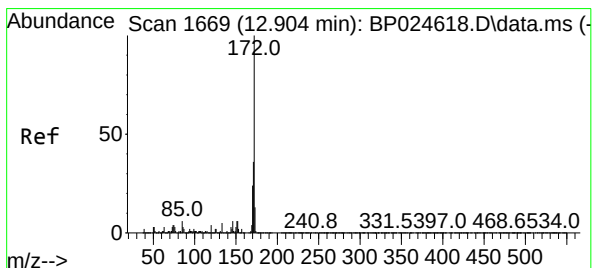
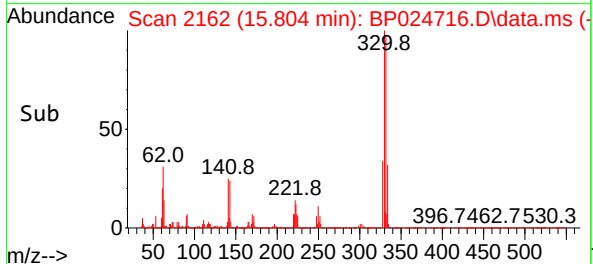
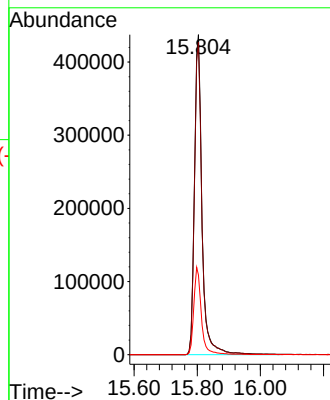
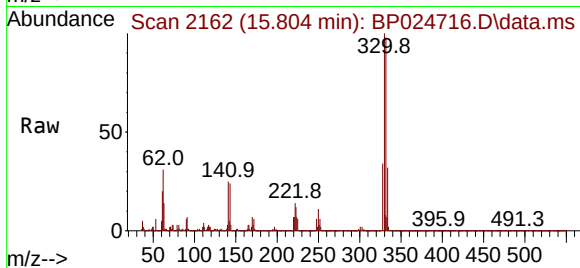




#42
2,4,6-Tribromophenol
Concen: 152.188 ng
RT: 15.804 min Scan# 2162
Delta R.T. -0.006 min
Lab File: BP024716.D
Acq: 20 May 2025 20:42

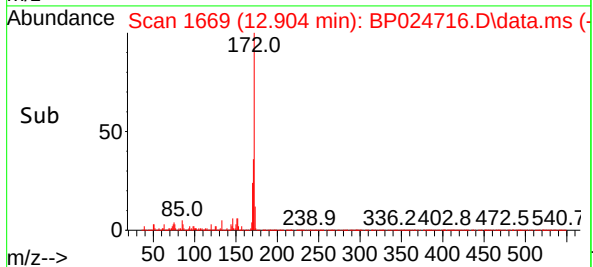
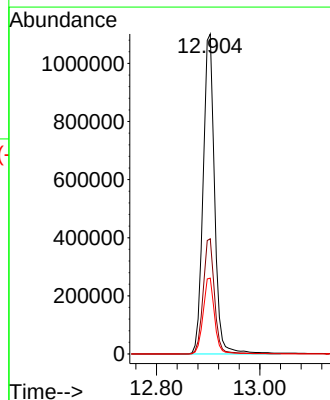
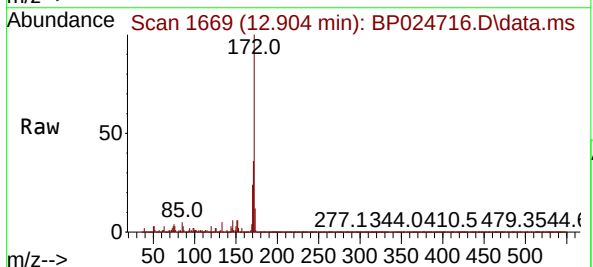
Instrument :
BNA_P
ClientSampleId :
FB-05132025

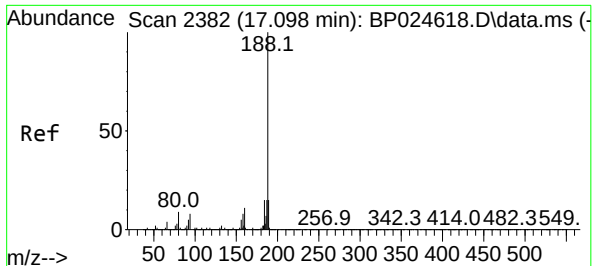
Tgt Ion:330 Resp: 729414
Ion Ratio Lower Upper
330 100
332 96.1 78.2 117.4
141 27.1 24.3 36.5



#45
2-Fluorobiphenyl
Concen: 78.637 ng
RT: 12.904 min Scan# 1669
Delta R.T. -0.000 min
Lab File: BP024716.D
Acq: 20 May 2025 20:42

Tgt Ion:172 Resp: 1696925
Ion Ratio Lower Upper
172 100
171 36.0 28.8 43.2
170 23.7 18.8 28.2

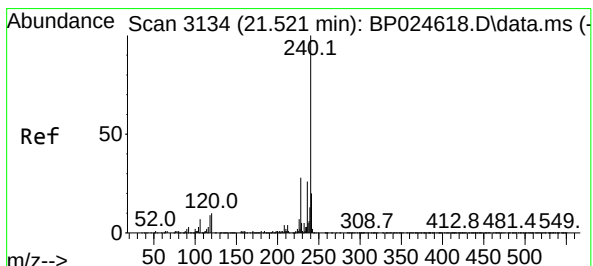
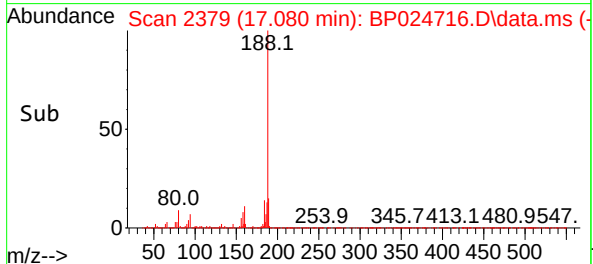
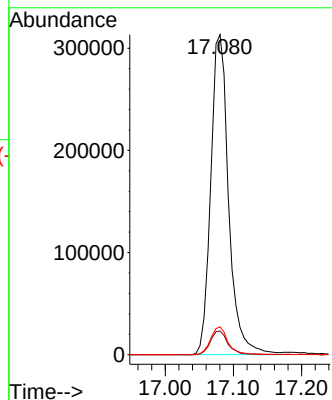
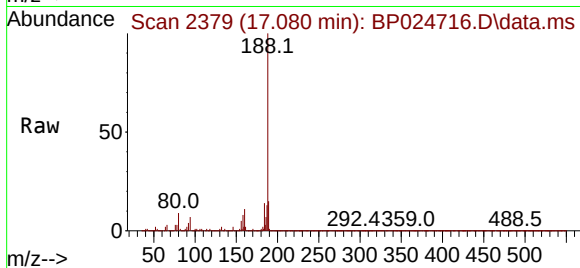




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.080 min Scan# 21
Delta R.T. -0.018 min
Lab File: BP024716.D
Acq: 20 May 2025 20:42

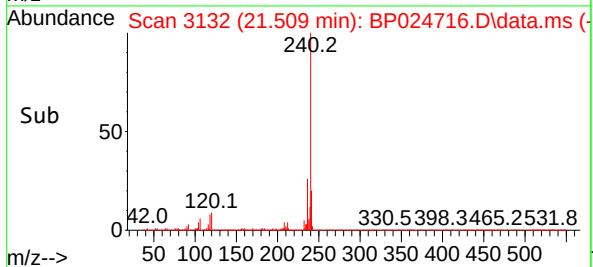
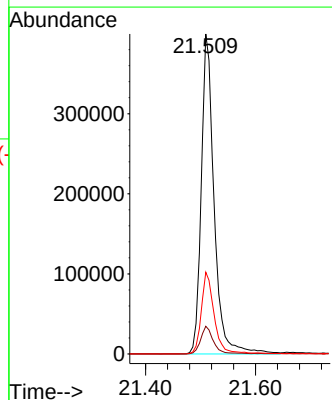
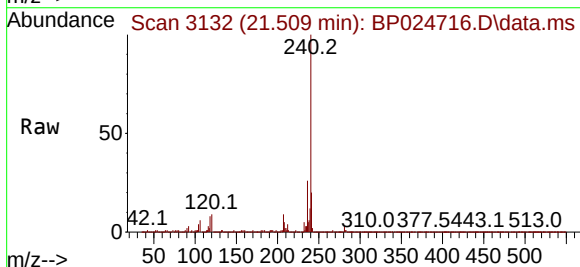
Instrument :
BNA_P
ClientSampleId :
FB-05132025

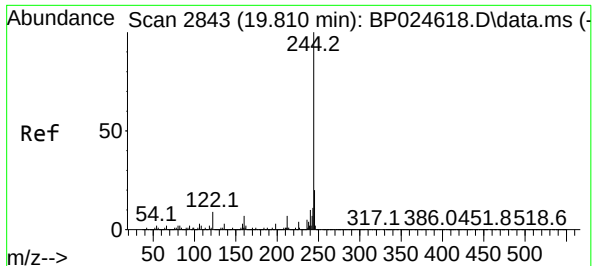
Tgt Ion:188 Resp: 572204
Ion Ratio Lower Upper
188 100
94 7.4 6.5 9.7
80 8.7 7.3 10.9



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.509 min Scan# 3132
Delta R.T. -0.012 min
Lab File: BP024716.D
Acq: 20 May 2025 20:42

Tgt Ion:240 Resp: 649834
Ion Ratio Lower Upper
240 100
120 8.7 7.8 11.6
236 25.6 20.6 31.0

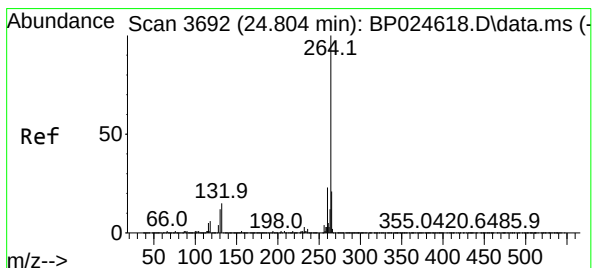
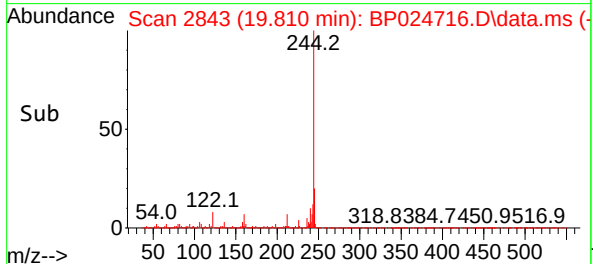
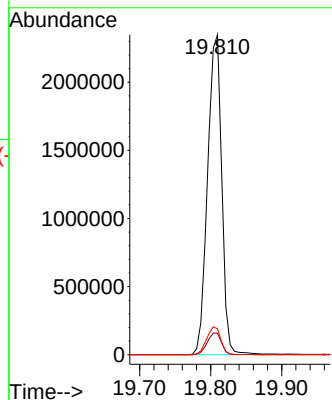
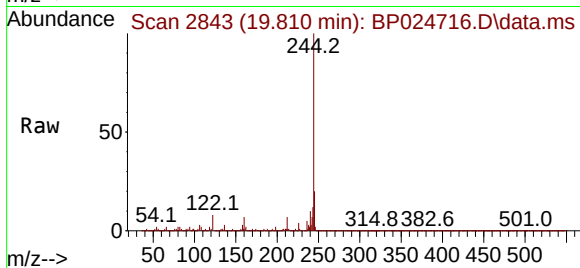




#79
Terphenyl-d14
Concen: 85.968 ng
RT: 19.810 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP024716.D
Acq: 20 May 2025 20:42

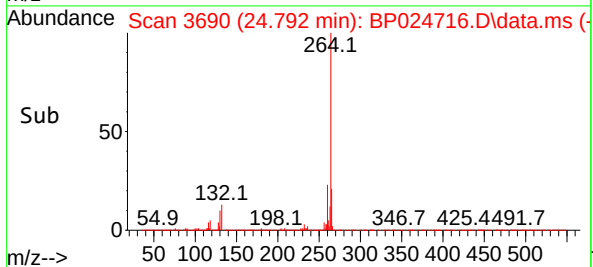
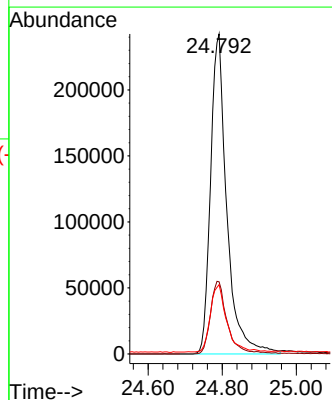
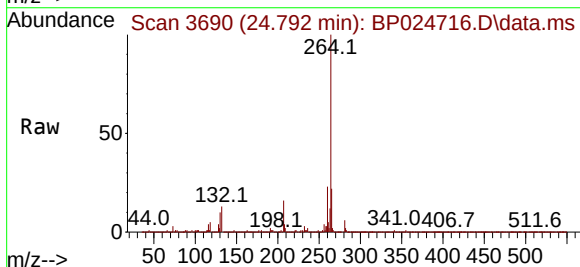
Instrument :
BNA_P
ClientSampleId :
FB-05132025

Tgt Ion:244 Resp: 3257999
Ion Ratio Lower Upper
244 100
212 6.8 5.5 8.3
122 8.1 7.4 11.0



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.792 min Scan# 3690
Delta R.T. -0.012 min
Lab File: BP024716.D
Acq: 20 May 2025 20:42

Tgt Ion:264 Resp: 736394
Ion Ratio Lower Upper
264 100
260 22.6 18.7 28.1
265 21.7 17.0 25.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
 Data File : BP024716.D
 Acq On : 20 May 2025 20:42
 Operator : RC/JU
 Sample : Q2032-11
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 FB-05132025

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 3 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

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

Signal : TIC: BP024716.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.822	290	295	307	rVB	75066	112107	1.29%	0.373%
2	5.287	368	374	393	rBV	752033	1202137	13.79%	3.996%
3	6.863	635	642	664	rBV	349522	691348	7.93%	2.298%
4	7.657	769	777	786	rBV	374103	616575	7.07%	2.050%
5	8.804	964	972	993	rBV	1033642	1907295	21.87%	6.340%
6	10.428	1240	1248	1263	rBV	457628	812563	9.32%	2.701%
7	12.898	1662	1668	1686	rBV	3207879	4951757	56.79%	16.461%
8	14.292	1898	1905	1923	rBV	733769	1215666	13.94%	4.041%
9	15.798	2154	2161	2181	rBV	2791021	4749551	54.47%	15.789%
10	17.080	2372	2379	2393	rBV2	783915	1439150	16.50%	4.784%
11	19.227	2739	2744	2753	rBV	109879	193985	2.22%	0.645%
12	19.810	2836	2843	2858	rBV	6154088	8719485	100.00%	28.986%
13	21.509	3127	3132	3146	rBV	1058317	1702788	19.53%	5.661%
14	24.792	3681	3690	3707	rBV	600187	1767189	20.27%	5.875%

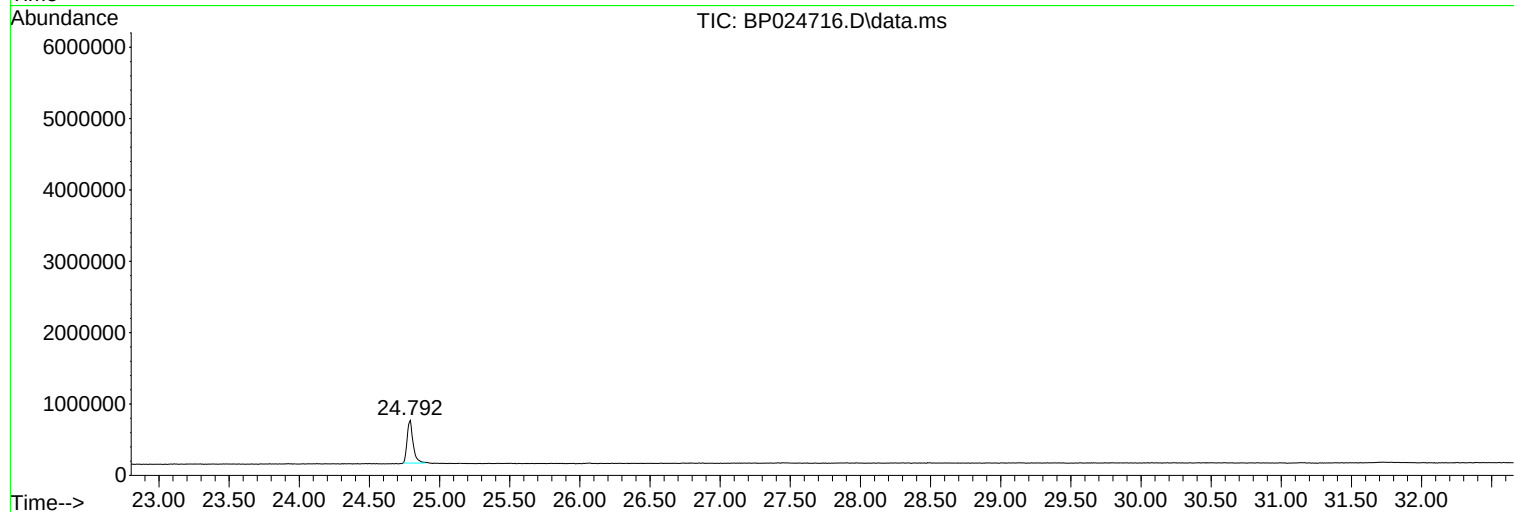
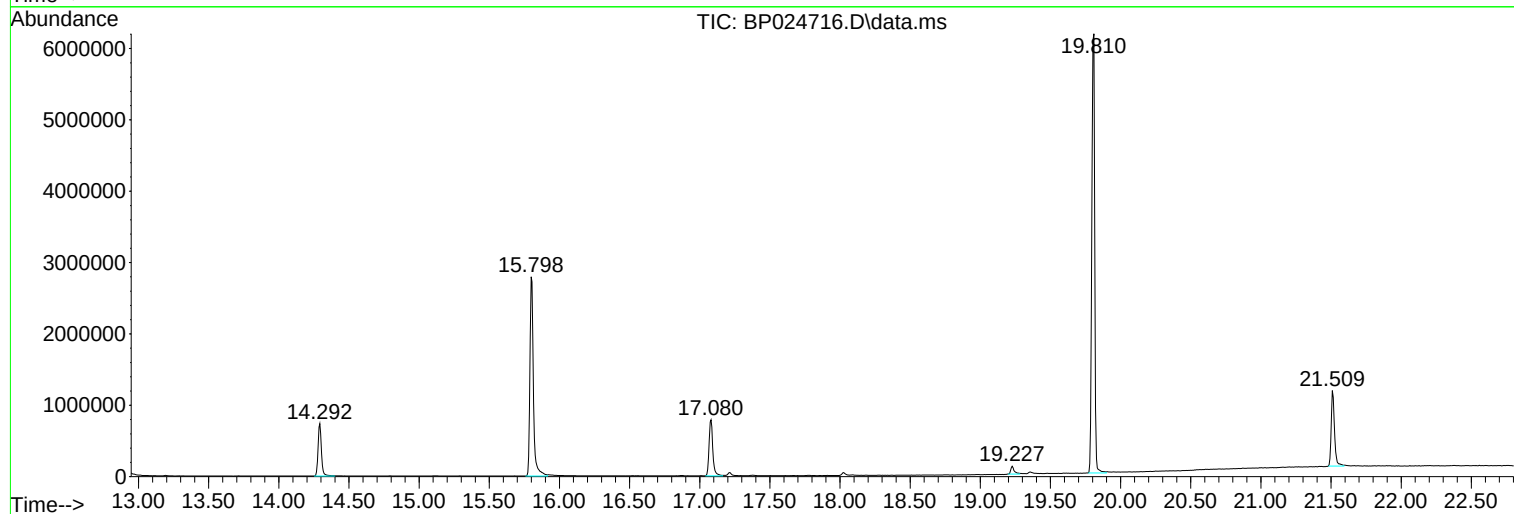
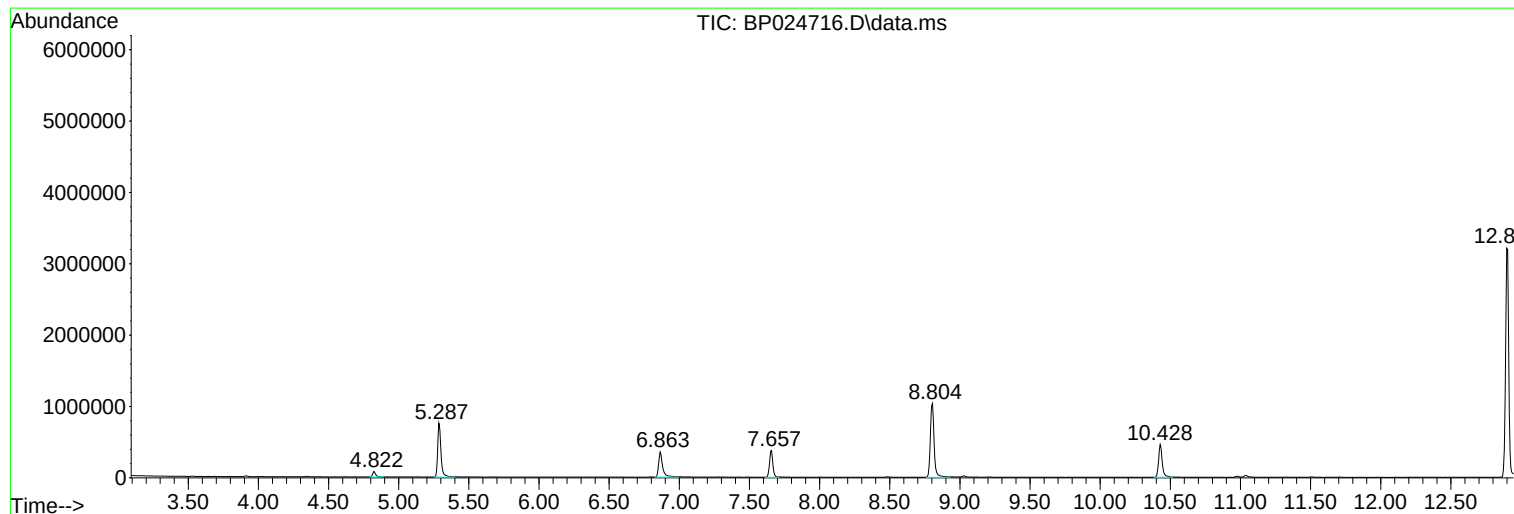
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Data File : BP024716.D
Acq On : 20 May 2025 20:42
Operator : RC/JU
Sample : Q2032-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
FB-05132025

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

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024716.D
Acq On : 20 May 2025 20:42
Operator : RC/JU
Sample : Q2032-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
FB-05132025

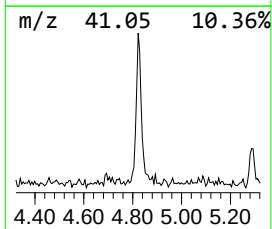
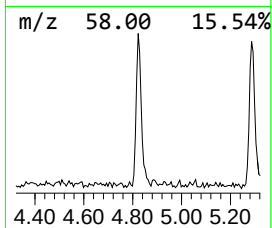
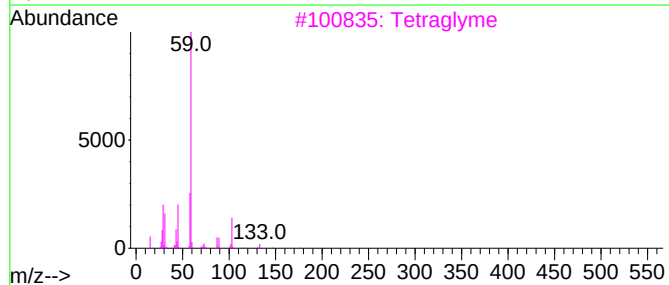
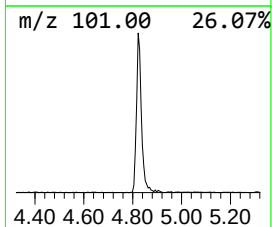
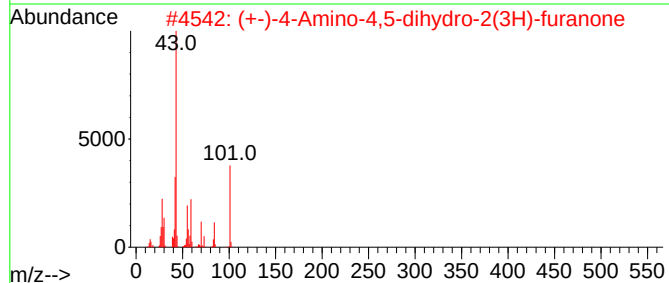
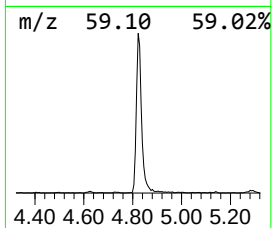
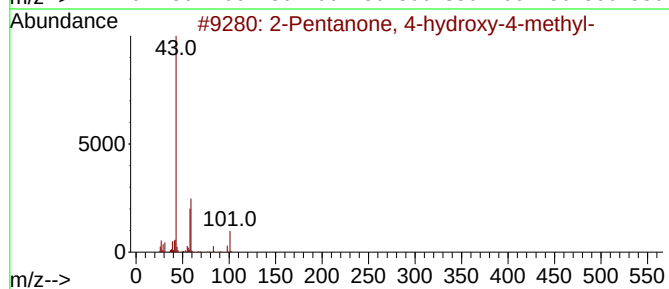
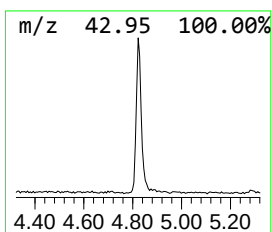
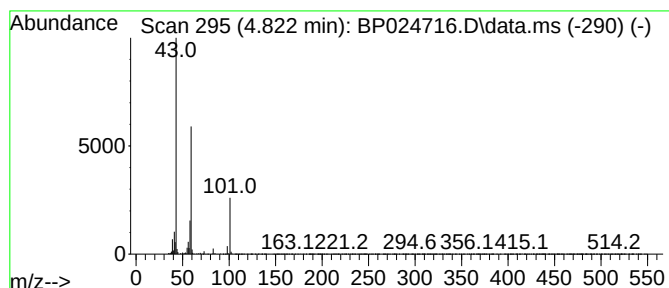
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.822	3.64 ng	112107	1,4-Dichlorobenzene-d4	7.657

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59		
2	(+)-4-Amino-4,5-dihydro-2(3H)-f...	101	C4H7NO2	016504-58-8	32		
3	Tetraglyme	222	C10H22O5	000143-24-8	25		
4	2,5,8,11-Tetraoxadodecane	178	C8H18O4	000112-49-2	23		
5	1,2-Butanediol	90	C4H10O2	000584-03-2	17		



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024716.D
Acq On : 20 May 2025 20:42
Operator : RC/JU
Sample : Q2032-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
FB-05132025

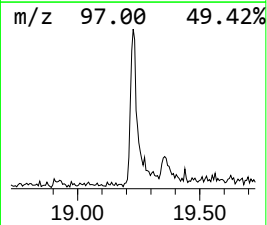
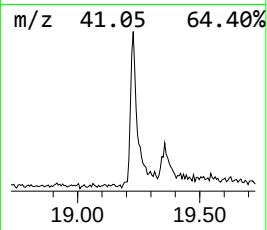
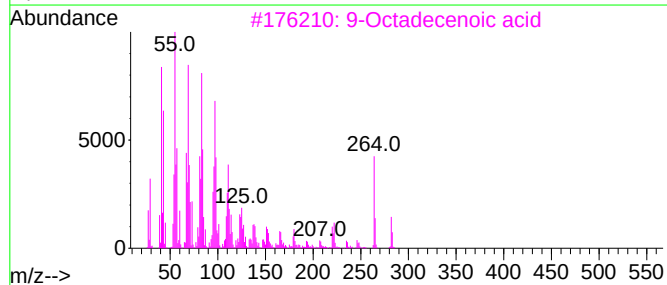
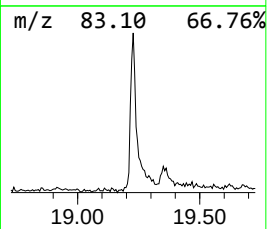
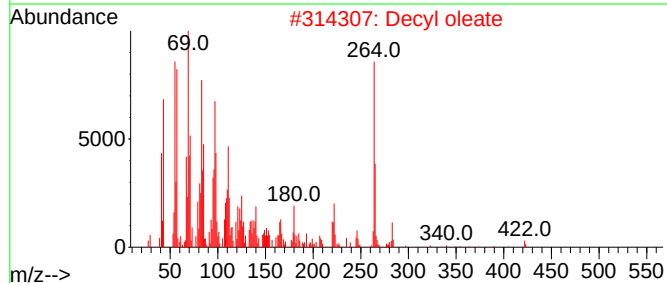
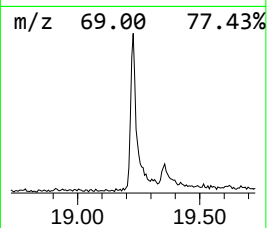
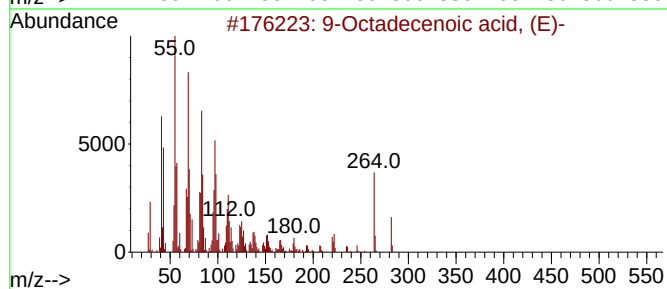
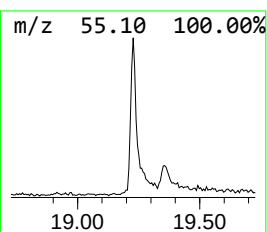
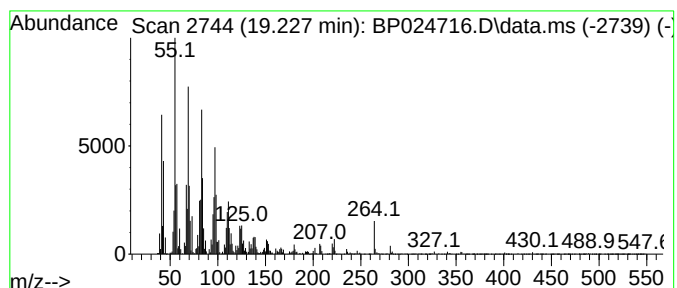
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 9-Octadecenoic acid, (E)- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.227	2.70 ng	193985	Phenanthrene-d10	17.080

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		9-Octadecenoic acid, (E)-	282	C18H34O2	000112-79-8	94
2		Decyl oleate	422	C28H54O2	003687-46-5	91
3		9-Octadecenoic acid	282	C18H34O2	002027-47-6	91
4		Oleic Acid	282	C18H34O2	000112-80-1	91
5		cis-Vaccenic acid	282	C18H34O2	000506-17-2	86



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024716.D
Acq On : 20 May 2025 20:42
Operator : RC/JU
Sample : Q2032-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
FB-05132025

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

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-...	4.822	3.6	ng	112107	1	7.657	616575	20.0
9-Octadecenoic ...	19.227	2.7	ng	193985	4	17.080	1439150	20.0



CALIBRATION SUMMARY

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032
 Instrument ID: BNA_F Calibration Date(s): 05/05/2025 05/05/2025
 Calibration Time(s): 13:54 17:15

LAB FILE ID:		RRF2.5 = BF142295.D			RRF005 = BF142296.D		RRF010 = BF142297.D	
		RRF020 = BF142298.D			RRF040 = BF142299.D		RRF050 = BF142300.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.212	1.177	1.211	1.126	1.224	1.172	4.4
Benzaldehyde		1.049	0.959	0.903	0.734	0.752	0.843	17.7
Phenol-d6		1.510	1.458	1.489	1.375	1.500	1.441	4.6
Phenol		1.599	1.528	1.584	1.472	1.580	1.531	4.1
bis(2-Chloroethyl) ether		1.789	1.543	1.510	1.353	1.516	1.506	9.5
2-Chlorophenol		1.202	1.223	1.263	1.221	1.346	1.252	4.0
2-Methylphenol		1.033	1.008	1.022	0.972	1.070	1.014	3.3
2,2-oxybis(1-Chloropropane)		2.379	2.310	2.325	2.135	2.341	2.249	5.5
Acetophenone		0.505	0.474	0.464	0.416	0.446	0.445	9.0
3+4-Methylphenols		1.354	1.281	1.322	1.218	1.333	1.265	6.5
n-Nitroso-di-n-propylamine	0.840	0.943	0.915	0.918	0.860	0.933	0.891	4.7
Nitrobenzene-d5		0.289	0.304	0.336	0.327	0.360	0.328	7.5
Hexachloroethane		0.473	0.464	0.488	0.463	0.511	0.478	3.8
Nitrobenzene		0.281	0.293	0.316	0.306	0.337	0.309	6.0
Isophorone		0.639	0.623	0.630	0.586	0.648	0.621	3.5
2-Nitrophenol		0.089	0.097	0.121	0.132	0.154	0.129	21.5
2,4-Dimethylphenol		0.311	0.314	0.321	0.298	0.329	0.312	3.5
bis(2-Chloroethoxy) methane		0.430	0.414	0.418	0.374	0.408	0.399	6.1
2,4-Dichlorophenol		0.245	0.251	0.278	0.263	0.288	0.265	5.7
Naphthalene		1.102	1.031	1.028	0.906	0.978	0.969	9.5
4-Chloroaniline		0.373	0.373	0.398	0.383	0.435	0.395	5.8
Hexachlorobutadiene		0.188	0.182	0.181	0.168	0.185	0.177	5.3
Caprolactam		0.063	0.068	0.078	0.079	0.088	0.077	11.4
4-Chloro-3-methylphenol		0.281	0.270	0.283	0.265	0.290	0.276	3.7
2-Methylnaphthalene		0.672	0.636	0.635	0.569	0.615	0.602	8.6
Hexachlorocyclopentadiene		0.286	0.303	0.349	0.343	0.388	0.345	11.2
2,4,6-Trichlorophenol		0.306	0.320	0.360	0.351	0.393	0.352	8.5
2-Fluorobiphenyl		1.737	1.605	1.532	1.272	1.337	1.403	16.3
2,4,5-Trichlorophenol		0.339	0.353	0.390	0.363	0.413	0.375	7.0
1,1-Biphenyl		1.727	1.641	1.637	1.411	1.567	1.533	9.8
2-Chloronaphthalene		1.256	1.198	1.193	1.058	1.155	1.140	7.4
2-Nitroaniline		0.205	0.240	0.292	0.298	0.344	0.292	17.9
Dimethylphthalate		1.338	1.295	1.344	1.210	1.342	1.284	5.0
Acenaphthylene		2.083	2.025	2.009	1.783	1.958	1.908	7.9

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032
 Instrument ID: BNA_F Calibration Date(s): 05/05/2025 05/05/2025
 Calibration Time(s): 13:54 17:15

LAB FILE ID:		RRF2.5 = BF142295.D			RRF005 = BF142296.D		RRF010 = BF142297.D	
		RRF020 = BF142298.D			RRF040 = BF142299.D		RRF050 = BF142300.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.172	0.206	0.242	0.245	0.280	0.240	16.2
3-Nitroaniline		0.206	0.238	0.288	0.286	0.329	0.282	15.8
Acenaphthene		1.260	1.191	1.200	1.066	1.180	1.147	7.3
2,4-Dinitrophenol			0.062	0.083	0.097	0.120	0.102	25.4
4-Nitrophenol		0.159	0.178	0.210	0.214	0.253	0.212	15.8
Dibenzofuran		1.932	1.790	1.801	1.555	1.711	1.693	9.7
2,4-Dinitrotoluene		0.222	0.250	0.303	0.318	0.368	0.308	17.6
Diethylphthalate		1.344	1.325	1.355	1.207	1.344	1.283	6.3
4-Chlorophenyl-phenylether		0.699	0.666	0.658	0.577	0.638	0.623	9.3
Fluorene		1.521	1.407	1.374	1.195	1.283	1.292	11.8
4-Nitroaniline		0.207	0.230	0.248	0.225	0.240	0.223	8.2
4,6-Dinitro-2-methylphenol			0.052	0.068	0.081	0.094	0.082	23.5
n-Nitrosodiphenylamine		0.704	0.683	0.693	0.629	0.686	0.666	5.3
2,4,6-Tribromophenol		0.161	0.176	0.198	0.191	0.218	0.193	10.2
4-Bromophenyl-phenylether		0.230	0.227	0.232	0.216	0.238	0.227	3.4
Hexachlorobenzene		0.264	0.246	0.253	0.237	0.258	0.249	3.8
Atrazine		0.157	0.165	0.176	0.174	0.196	0.175	7.2
Pentachlorophenol		0.094	0.109	0.130	0.139	0.153	0.131	16.7
Phenanthrene		1.193	1.102	1.105	0.988	1.058	1.048	9.1
Anthracene		1.210	1.136	1.134	1.018	1.093	1.077	8.8
Carbazole		1.065	1.016	1.024	0.926	0.986	0.966	8.2
Di-n-butylphthalate		0.957	1.022	1.082	1.013	1.093	1.016	5.9
Fluoranthene		1.198	1.154	1.128	0.985	1.051	1.048	11.5
Pyrene		1.822	1.748	1.902	1.705	1.912	1.780	7.0
Terphenyl-d14		1.493	1.424	1.460	1.255	1.390	1.351	9.6
Butylbenzylphthalate		0.282	0.330	0.439	0.469	0.545	0.449	23.7
3,3-Dichlorobenzidine		0.250	0.279	0.316	0.296	0.327	0.301	9.4
Benzo (a) anthracene		1.370	1.299	1.317	1.238	1.354	1.295	4.8
Chrysene		1.294	1.227	1.247	1.104	1.238	1.206	5.6
Bis (2-ethylhexyl) phthalate		0.328	0.417	0.557	0.601	0.699	0.573	26.4
Di-n-octyl phthalate			0.586	0.856	1.029	1.242	1.057	27.8
Benzo (b) fluoranthene		1.312	1.216	1.227	1.163	1.263	1.211	5.1
Benzo (k) fluoranthene		1.158	1.142	1.164	1.040	1.172	1.109	6.9
Benzo (a) pyrene		1.034	1.042	1.102	1.066	1.183	1.085	4.9
Indeno (1,2,3-cd) pyrene		1.152	1.281	1.421	1.384	1.596	1.391	10.4

All other compounds must meet a minimum RRF of 0.010.



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Fax : 908 789 8922

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032
 Instrument ID: BNA_F Calibration Date(s): 05/05/2025 05/05/2025
 Calibration Time(s): 13:54 17:15

LAB FILE ID:		RRF2.5 = BF142295.D		RRF005 = BF142296.D		RRF010 = BF142297.D		
		RRF020 = BF142298.D		RRF040 = BF142299.D		RRF050 = BF142300.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo (a,h) anthracene		0.987	1.066	1.194	1.137	1.308	1.149	9.2
Benzo (g,h,i) perylene		0.971	1.056	1.175	1.120	1.295	1.141	9.4
1,2,4,5-Tetrachlorobenzene		0.600	0.586	0.586	0.515	0.574	0.559	6.5
1,4-Dioxane		0.553	0.527	0.535	0.503	0.543	0.528	3.4
2,3,4,6-Tetrachlorophenol		0.266	0.288	0.320	0.305	0.344	0.309	8.4

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

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

Calibration Files

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

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.553	0.527	0.535	0.503	0.543	0.521	0.511	0.528		3.36
3)	Pyridine	1.159	1.233	1.210	1.176	1.311	1.312	1.270	1.239		4.99
4)	n-Nitrosodimet...	0.718	0.707	0.729	0.696	0.759	0.726	0.705	0.720		2.88
5) S	2-Fluorophenol	1.212	1.177	1.211	1.126	1.224	1.165	1.086	1.172		4.35
6)	Aniline	0.955	1.370	1.568	1.467	1.543	1.519	1.472	1.413		15.03
7) S	Phenol-d6	1.510	1.458	1.489	1.375	1.500	1.419	1.336	1.441		4.64
8)	2-Chlorophenol	1.202	1.223	1.263	1.221	1.346	1.283	1.225	1.252		4.00
9)	Benzaldehyde	1.049	0.959	0.903	0.734	0.752	0.663		0.843		17.74
10) C	Phenol	1.599	1.528	1.584	1.472	1.580	1.524	1.405	1.527		4.55
11)	bis(2-Chloroet...	1.789	1.543	1.510	1.353	1.516	1.441	1.392	1.506		9.49
12)	1,3-Dichlorobe...	1.555	1.505	1.466	1.347	1.477	1.379	1.298	1.432		6.48
13) C	1,4-Dichlorobe...	1.562	1.499	1.486	1.364	1.476	1.386	1.294	1.438		6.46
14)	1,2-Dichlorobe...	1.480	1.432	1.415	1.317	1.424	1.340	1.254	1.380		5.71
15)	Benzyl Alcohol	0.816	0.843	0.933	0.928	1.030	1.008	0.972	0.933		8.56
16)	2,2'-oxybis(1-...	2.379	2.310	2.325	2.135	2.341	2.211	2.044	2.249		5.48
17)	2-Methylphenol	1.033	1.008	1.022	0.972	1.070	1.013	0.978	1.014		3.30
18)	Hexachloroethane	0.473	0.464	0.488	0.463	0.511	0.487	0.463	0.478		3.78
19) P	n-Nitroso-di-n...	0.840	0.943	0.915	0.918	0.860	0.933	0.885	0.837	0.891	4.69
20)	3+4-Methylphenols	1.354	1.281	1.322	1.218	1.333	1.226	1.121	1.265		6.48
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.505	0.474	0.464	0.416	0.446	0.419	0.389	0.445		8.95
23) S	Nitrobenzene-d5	0.289	0.304	0.336	0.327	0.360	0.348	0.332	0.328		7.48
24)	Nitrobenzene	0.281	0.293	0.316	0.306	0.337	0.325	0.305	0.309		6.05
25)	Isophorone	0.639	0.623	0.630	0.586	0.648	0.622	0.598	0.621		3.53
26) C	2-Nitrophenol	0.089	0.097	0.121	0.132	0.154	0.155	0.155	0.129		21.55
27)	2,4-Dimethylph...	0.311	0.314	0.321	0.298	0.329	0.314	0.299	0.312		3.55
28)	bis(2-Chloroet...	0.430	0.414	0.418	0.374	0.408	0.386	0.366	0.399		6.09
29) C	2,4-Dichloroph...	0.245	0.251	0.278	0.263	0.288	0.274	0.260	0.265		5.71
30)	1,2,4-Trichlor...	0.329	0.309	0.309	0.281	0.304	0.289	0.271	0.299		6.60
31)	Naphthalene	1.102	1.031	1.028	0.906	0.978	0.906	0.835	0.969		9.52
32)	Benzoic acid		0.084	0.117	0.140	0.178	0.186	0.194	0.150		29.22
33)	4-Chloroaniline	0.373	0.373	0.398	0.383	0.435	0.415	0.392	0.396		5.80
34) C	Hexachlorobuta...	0.188	0.182	0.181	0.168	0.185	0.173	0.162	0.177		5.32
35)	Caprolactam	0.063	0.068	0.078	0.079	0.088	0.083	0.082	0.077		11.39
36) C	4-Chloro-3-met...	0.281	0.270	0.283	0.265	0.290	0.279	0.262	0.276		3.68
37)	2-Methylnaphth...	0.672	0.636	0.635	0.569	0.615	0.568	0.521	0.602		8.60
38)	1-Methylnaphth...	0.710	0.675	0.665	0.594	0.630	0.587	0.535	0.628		9.59

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

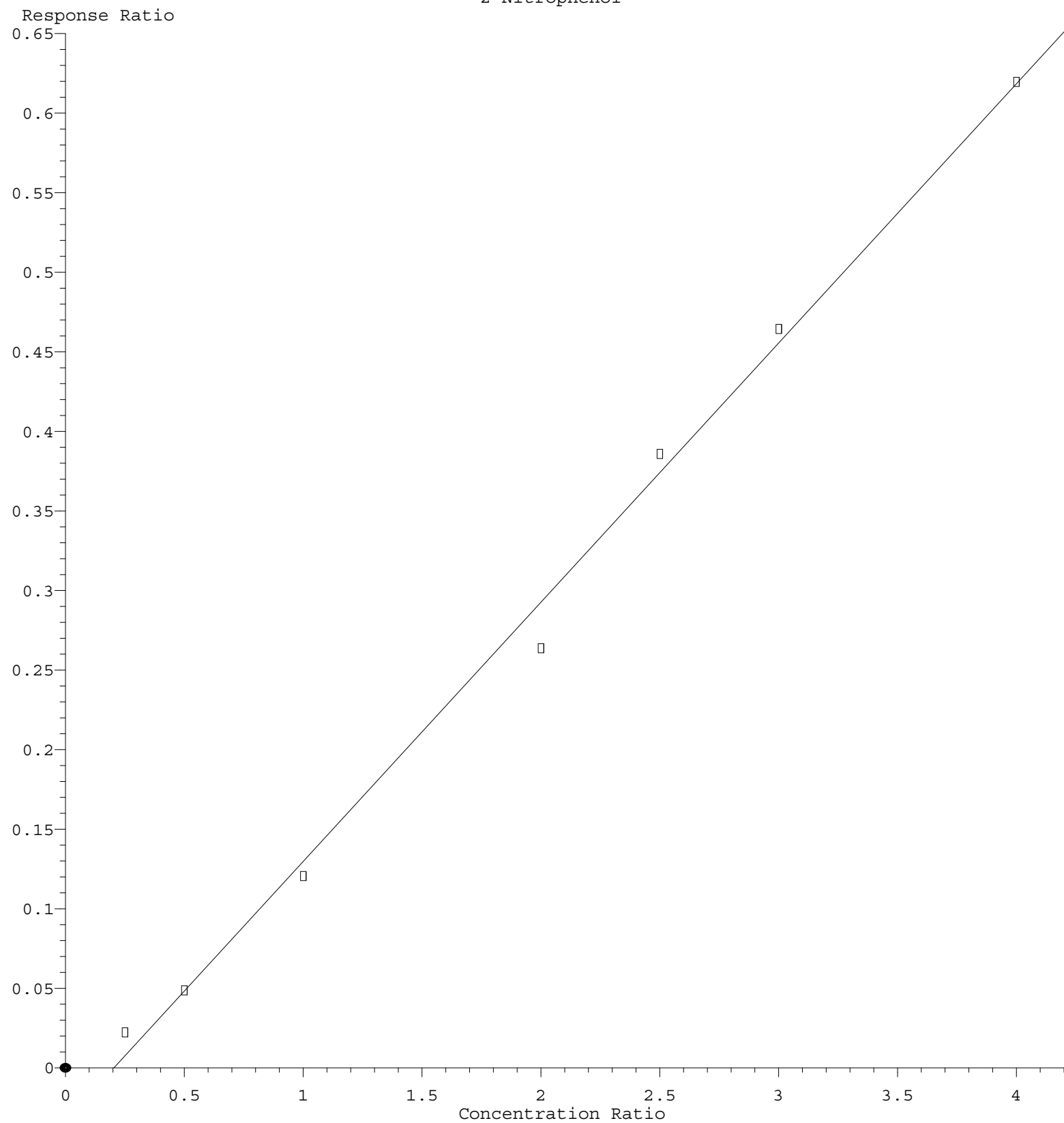
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.600	0.586	0.586	0.515	0.574	0.538	0.512	0.559	6.51	
41) P	Hexachlorocycl...	0.286	0.303	0.349	0.343	0.388	0.379	0.369	0.345	11.16	
42) S	2,4,6-Tribromo...	0.161	0.176	0.198	0.191	0.218	0.210	0.197	0.193	10.16	
43) C	2,4,6-Trichlor...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

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

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

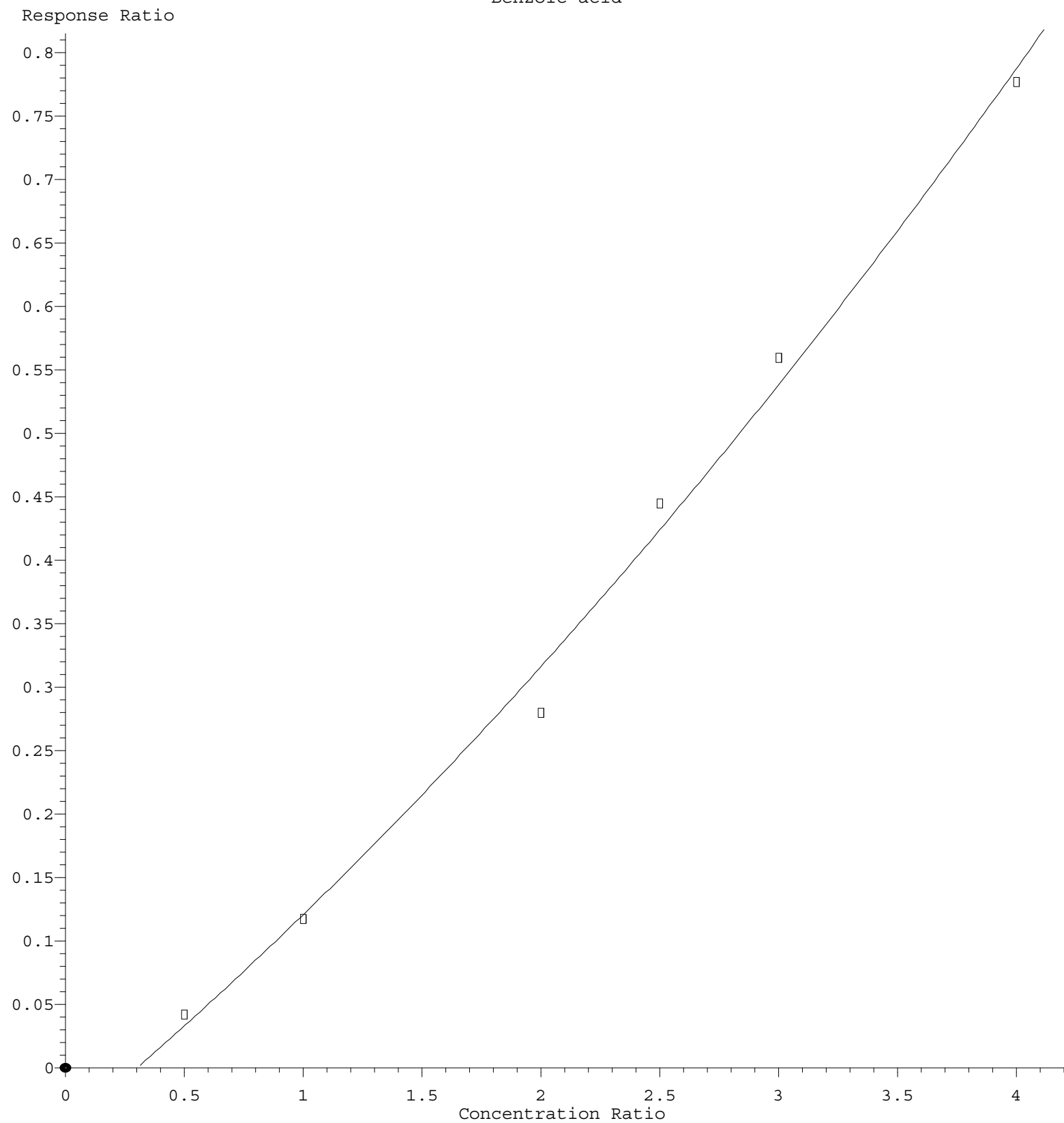
(#) = Out of Range

2-Nitrophenol



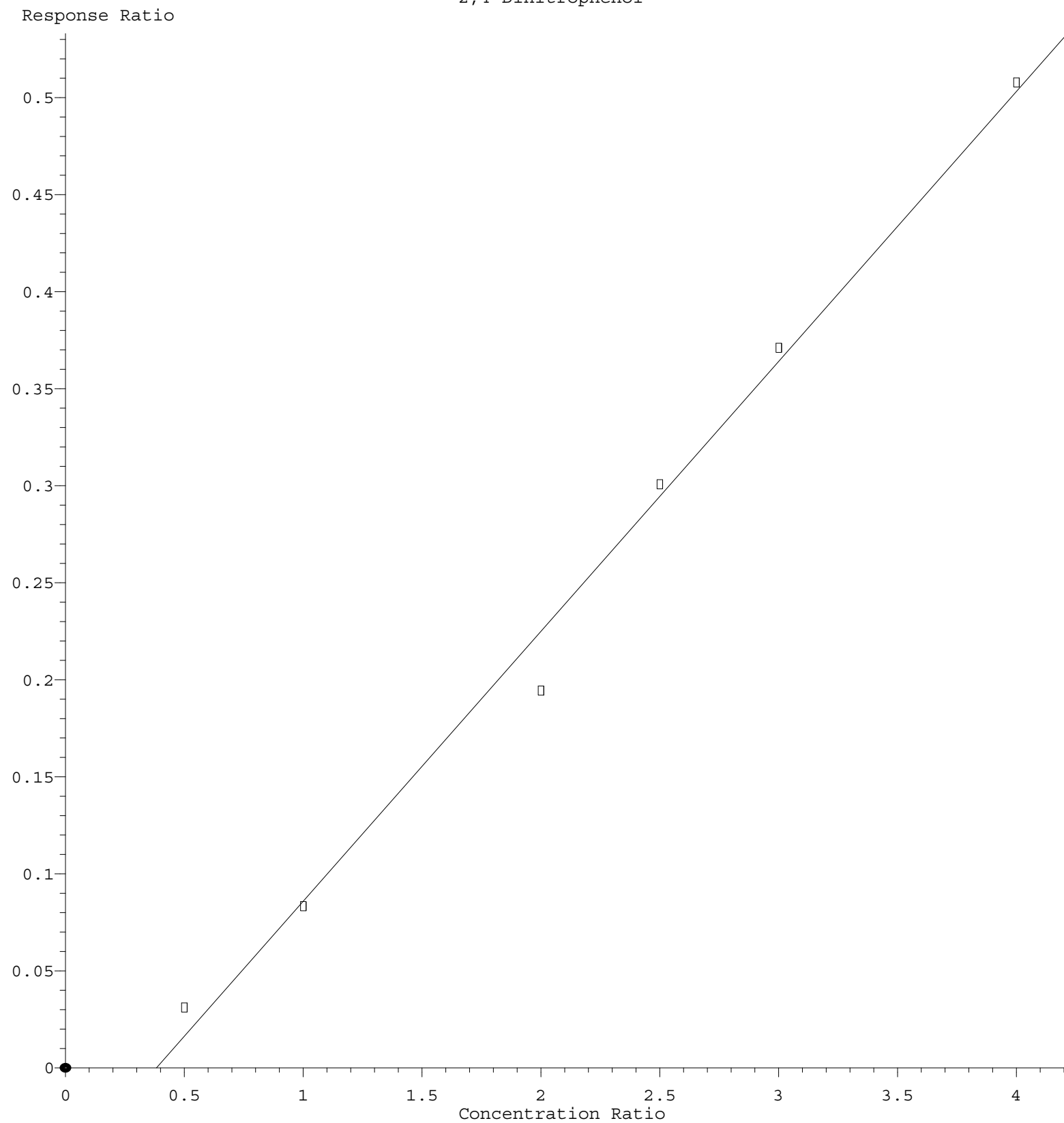
Response = $1.629 \times 10^{-1} \times \text{Amt} - 3.329 \times 10^{-2}$
 Coef of Det (r^2) = 0.995567 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF050525.M
 Calibration Table Last Updated: Mon May 05 18:41:44 2025

Benzoic acid



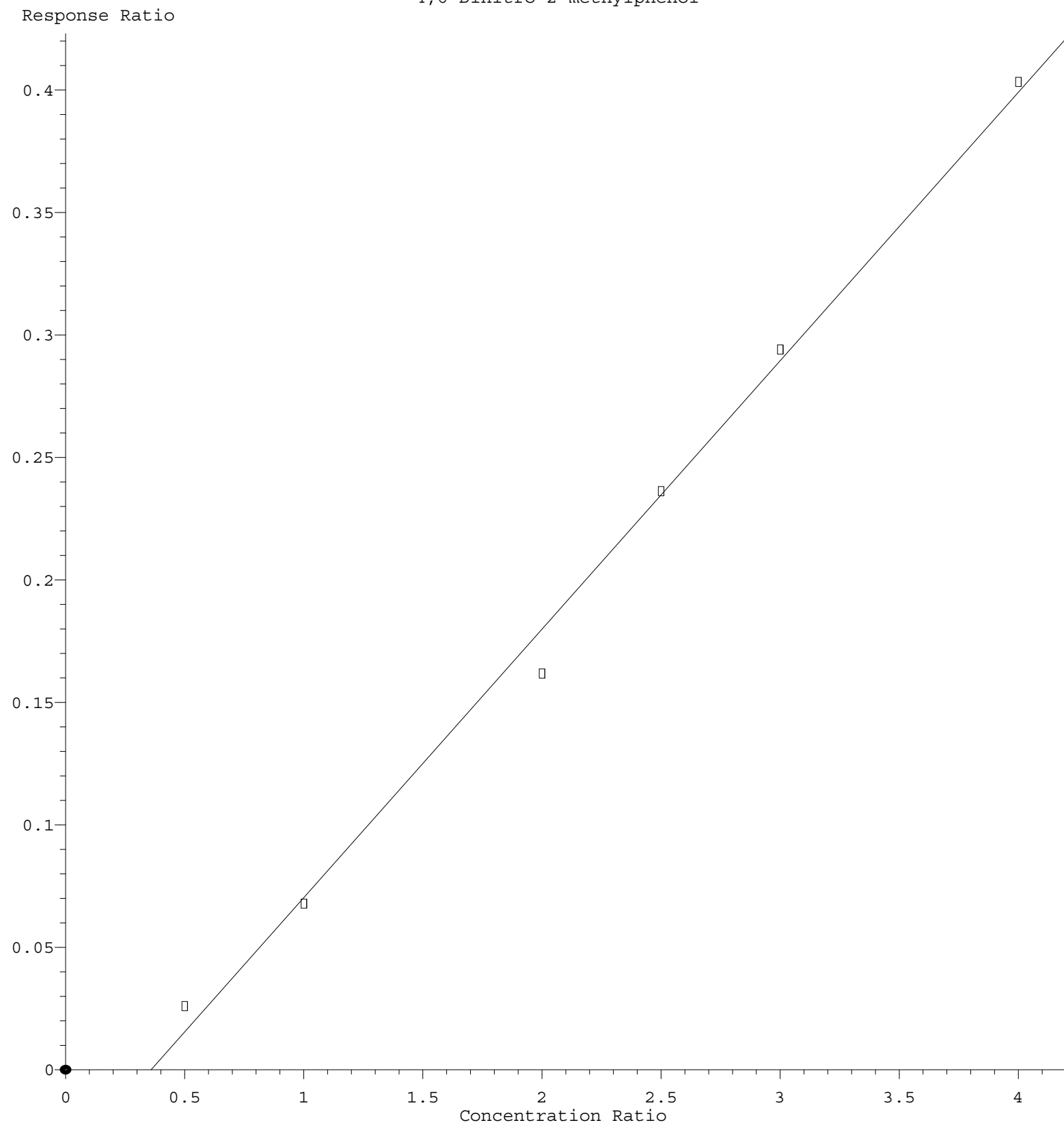
$R = 1.340e-002 A^2 + 1.552e-001 A - 4.790e-002$
 Coef of Det (r^2) = 0.993773 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF050525.M
 Calibration Table Last Updated: Mon May 05 18:41:44 2025

2,4-Dinitrophenol



$\text{Response} = 1.391\text{e-}001 * \text{Amt} - 5.328\text{e-}002$
 Coef of Det (r^2) = 0.992198 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF050525.M
 Calibration Table Last Updated: Mon May 05 18:41:44 2025

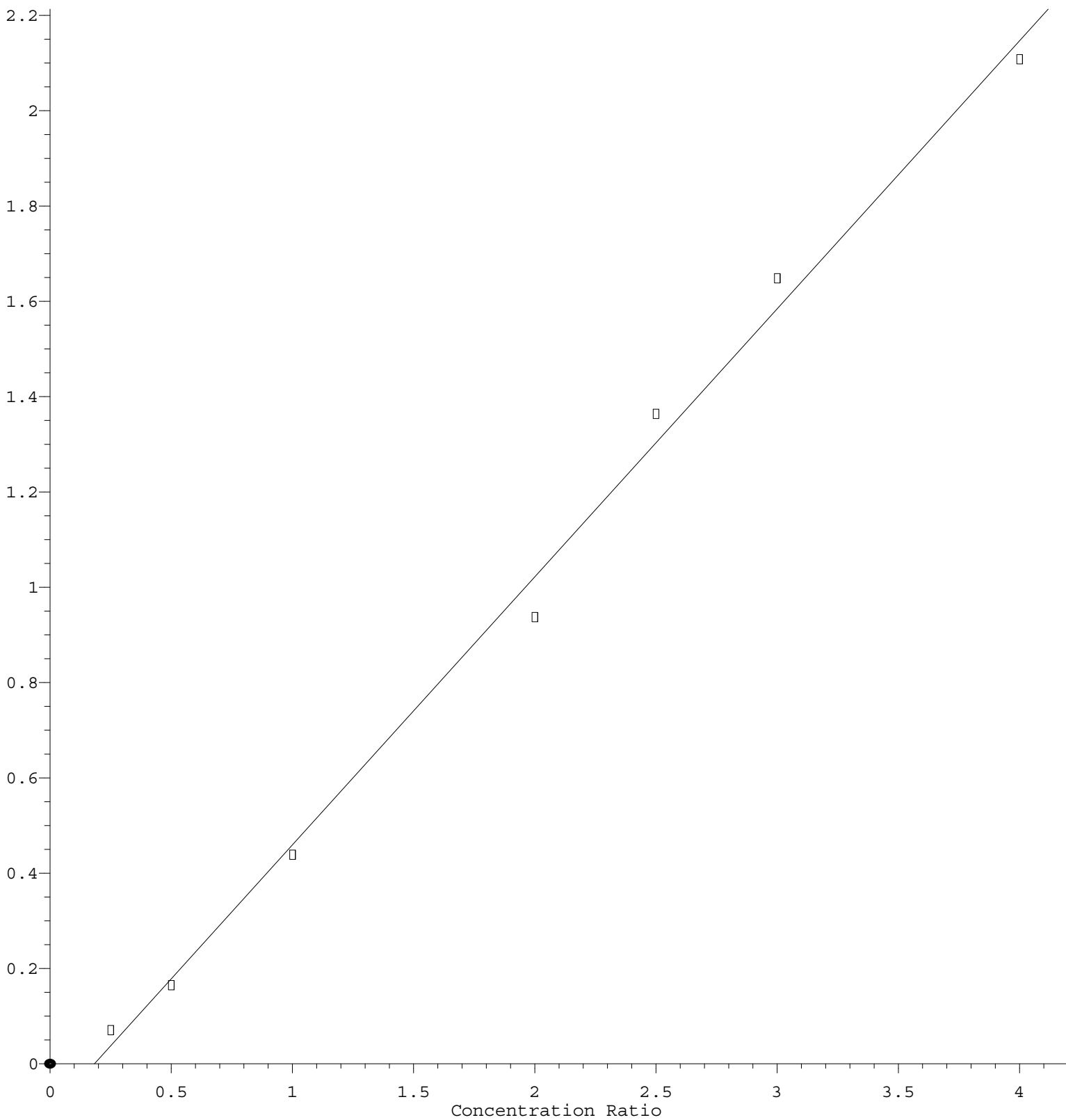
4,6-Dinitro-2-methylphenol



Response = $1.096 \times 10^{-1} \times \text{Amt} - 3.939 \times 10^{-2}$
Coef of Det (r^2) = 0.995176 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF050525.M
Calibration Table Last Updated: Mon May 05 18:41:44 2025

Butylbenzylphthalate

Response Ratio



$$\text{Response} = 5.624\text{e-}001 * \text{Amt} - 1.029\text{e-}001$$

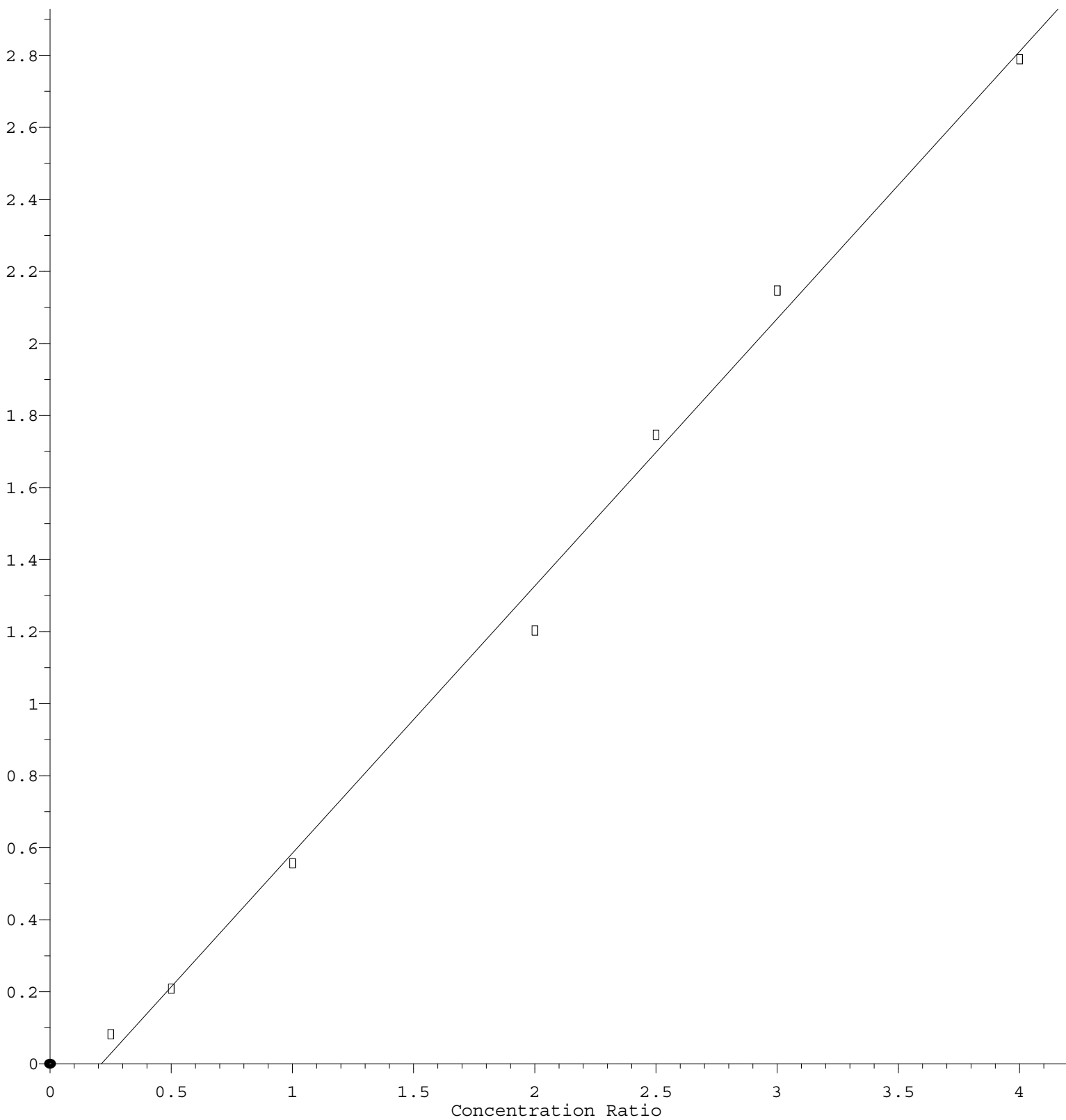
Coef of Det (r^2) = 0.995038 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF050525.M

Calibration Table Last Updated: Mon May 05 18:41:44 2025

Bis(2-ethylhexyl)phthalate

Response Ratio



$$\text{Response} = 7.421\text{e-}001 * \text{Amt} - 1.572\text{e-}001$$

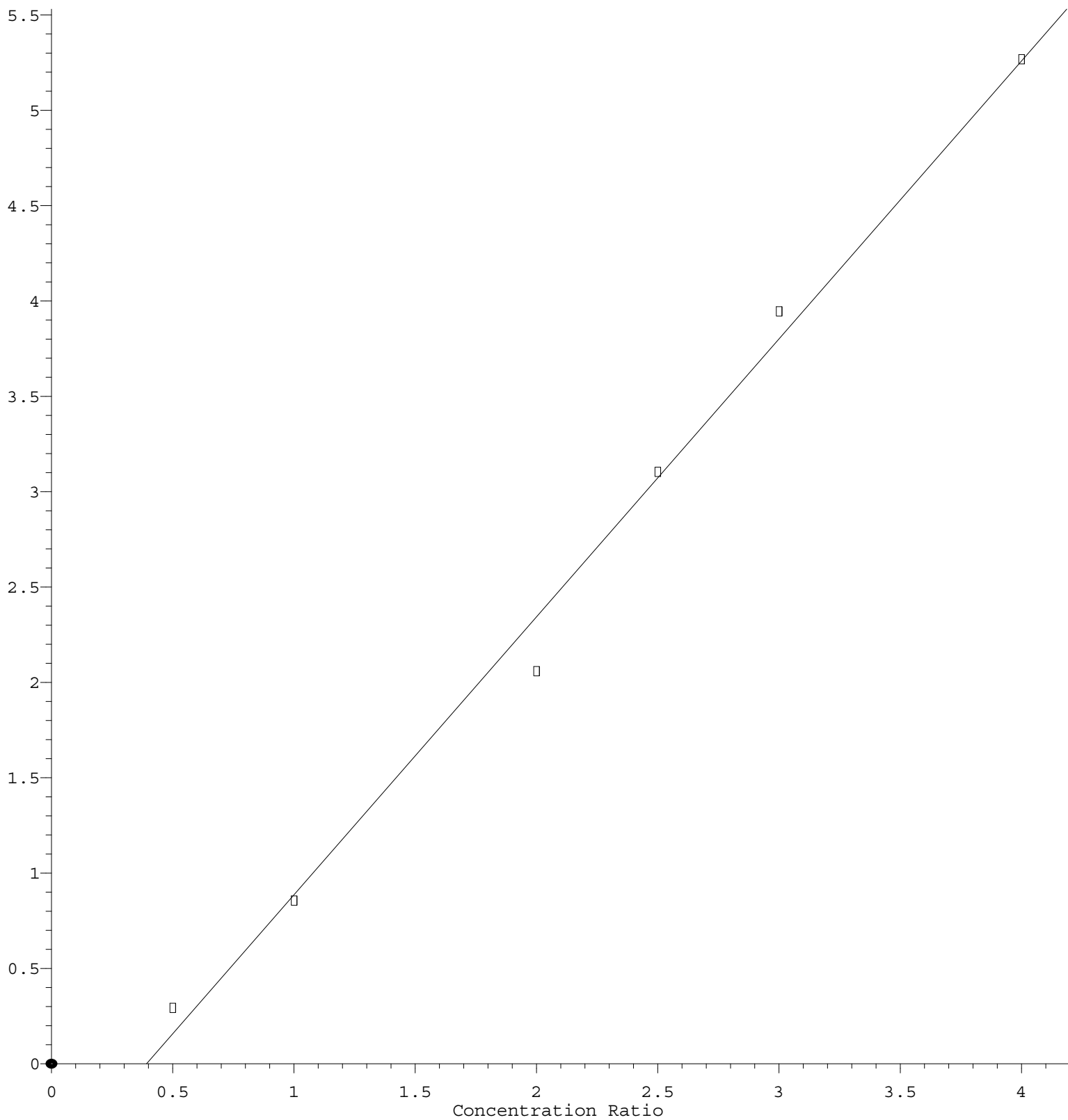
Coef of Det (r^2) = 0.995584 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF050525.M

Calibration Table Last Updated: Mon May 05 18:41:44 2025

Di-n-octyl phthalate

Response Ratio



$$\text{Response} = 1.458 \times 10^0 \times \text{Amt} - 5.715 \times 10^{-1}$$

Coef of Det (r^2) = 0.993132 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF050525.M

Calibration Table Last Updated: Mon May 05 18:41:44 2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
 Data File : BF142295.D
 Acq On : 05 May 2025 13:54
 Operator : RC/JU
 Sample : SSTDICC2.5
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC2.5

Quant Time: May 05 17:55:56 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 17:44:56 2025
 Response via : Initial Calibration

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

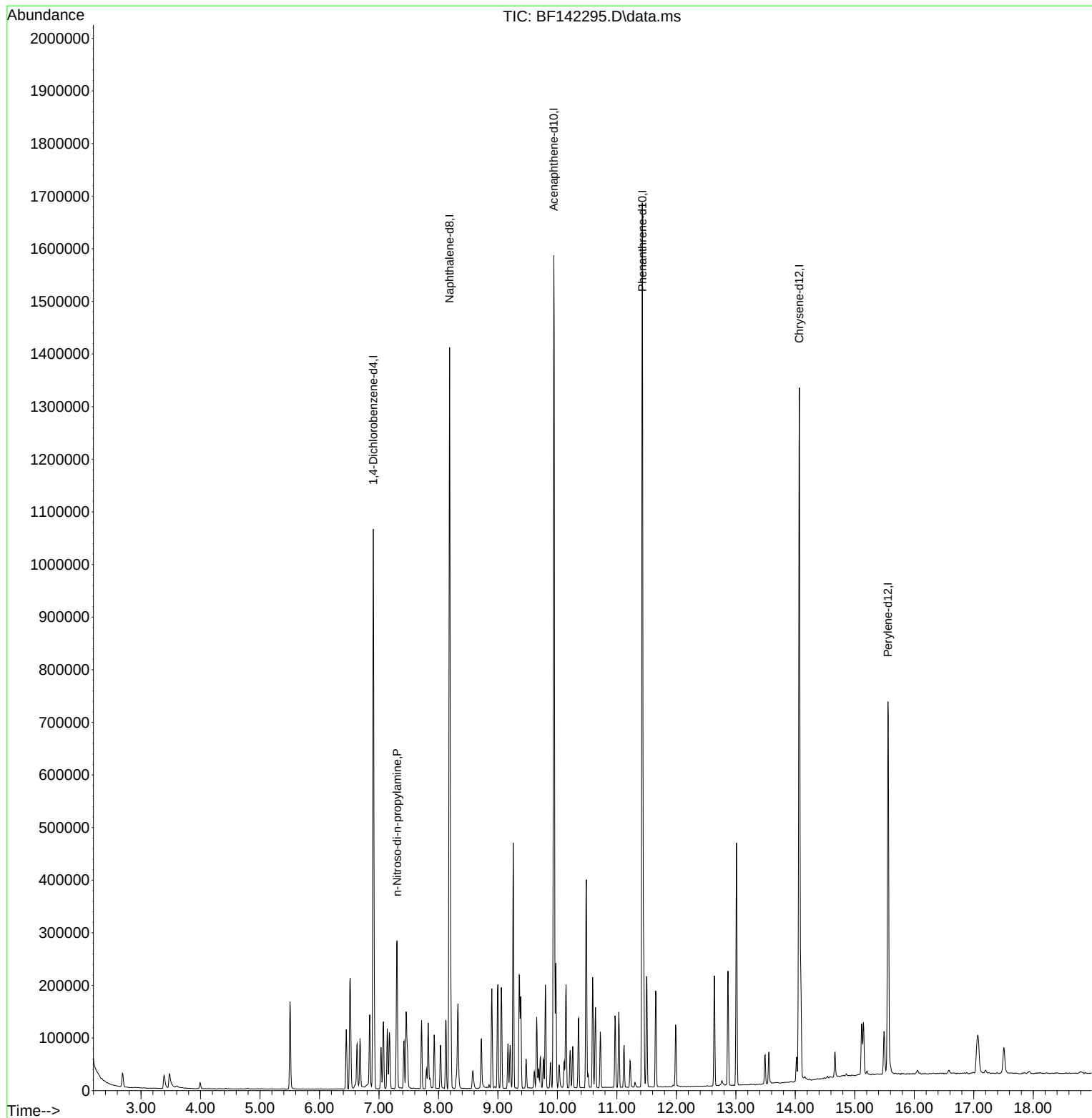
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	220458	20.000	ng	0.00
21) Naphthalene-d8	8.187	136	851705	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	461090	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	826586	20.000	ng	0.00
76) Chrysene-d12	14.069	240	600134	20.000	ng	0.00
86) Perylene-d12	15.557	264	417952	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.000	ng	
7) Phenol-d6	0.000	99	0d	0.000	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.000	ng	
42) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
45) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng	
79) Terphenyl-d14	0.000	244	0d	0.000	ng	
Target Compounds						
19) n-Nitroso-di-n-propyla...	7.304	70	23149	2.356	ng	Qvalue 93

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
Data File : BF142295.D
Acq On : 05 May 2025 13:54
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: May 05 17:55:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 17:44:56 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
 Data File : BF142296.D
 Acq On : 05 May 2025 14:23
 Operator : RC/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/06/2025
 Supervised By :Jagrut Upadhyay 05/06/2025

Quant Time: May 05 17:56:43 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 17:44:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	207173	20.000	ng	0.00
21) Naphthalene-d8	8.187	136	800106	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	439288	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	788007	20.000	ng	0.00
76) Chrysene-d12	14.068	240	553678	20.000	ng	0.00
86) Perylene-d12	15.557	264	376971	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	125572	10.347	ng	0.00
7) Phenol-d6	6.510	99	156415	10.479	ng	-0.01
23) Nitrobenzene-d5	7.457	82	115545	8.807	ng	-0.01
42) 2,4,6-Tribromophenol	10.727	330	35296	8.322	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	381508	12.383	ng	0.00
79) Terphenyl-d14	13.010	244	413313	11.049	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.687	88	28652	5.243	ng	100
3) Pyridine	3.463	79	60003m	4.669	ng	
4) n-Nitrosodimethylamine	3.387	42	37175	4.985	ng	# 98
6) Aniline	6.563	93	49440	3.377	ng	97
8) 2-Chlorophenol	6.681	128	62258	4.801	ng	98
9) Benzaldehyde	6.451	77	54313	6.217	ng	97
10) Phenol	6.522	94	82817	5.234	ng	97
11) bis(2-Chloroethyl)ether	6.634	93	92675m	5.940	ng	
12) 1,3-Dichlorobenzene	6.845	146	80536	5.428	ng	99
13) 1,4-Dichlorobenzene	6.922	146	80900	5.431	ng	98
14) 1,2-Dichlorobenzene	7.075	146	76655	5.361	ng	99
15) Benzyl Alcohol	7.034	79	42272	4.374	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.175	45	123229	5.289	ng	100
17) 2-Methylphenol	7.140	107	53481	5.094	ng	98
18) Hexachloroethane	7.422	117	24476	4.938	ng	98
19) n-Nitroso-di-n-propyla...	7.304	70	48843	5.290	ng	97
20) 3+4-Methylphenols	7.292	107	70122	5.351	ng	89
22) Acetophenone	7.304	105	101001	5.677	ng	98
24) Nitrobenzene	7.481	77	56276	4.551	ng	98
25) Isophorone	7.716	82	127812	5.145	ng	98
26) 2-Nitrophenol	7.798	139	17854	6.828	ng	97
27) 2,4-Dimethylphenol	7.828	122	62210	4.981	ng	99
28) bis(2-Chloroethoxy)met...	7.928	93	86020	5.385	ng	98
29) 2,4-Dichlorophenol	8.034	162	49005	4.615	ng	99
30) 1,2,4-Trichlorobenzene	8.128	180	65738	5.501	ng	98
31) Naphthalene	8.210	128	220404	5.684	ng	98
33) 4-Chloroaniline	8.275	127	74603m	4.723	ng	
34) Hexachlorobutadiene	8.328	225	37522	5.302	ng	99
35) Caprolactam	8.581	113	12615	4.085	ng	96
36) 4-Chloro-3-methylphenol	8.722	107	56110	5.083	ng	99
37) 2-Methylnaphthalene	8.898	142	134367	5.576	ng	99
38) 1-Methylnaphthalene	8.998	142	141952	5.652	ng	99
40) 1,2,4,5-Tetrachloroben...	9.063	216	65890	5.370	ng	99
41) Hexachlorocyclopentadiene	9.051	237	31389	4.140	ng	99
43) 2,4,6-Trichlorophenol	9.169	196	33630	4.346	ng	98
44) 2,4,5-Trichlorophenol	9.204	196	37237	4.522	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
 Data File : BF142296.D
 Acq On : 05 May 2025 14:23
 Operator : RC/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/06/2025
 Supervised By :Jagrut Upadhyay 05/06/2025

Quant Time: May 05 17:56:43 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 17:44:56 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	9.363	154	189666	5.631	ng	98
47) 2-Chloronaphthalene	9.386	162	137929	5.506	ng	98
48) 2-Nitroaniline	9.475	65	22539	3.510	ng	95
49) Acenaphthylene	9.798	152	228773	5.460	ng	99
50) Dimethylphthalate	9.651	163	146916	5.208	ng	99
51) 2,6-Dinitrotoluene	9.716	165	18933	3.586	ng	95
52) Acenaphthene	9.975	154	138379	5.492	ng	96
53) 3-Nitroaniline	9.886	138	22656	3.659	ng	# 98
55) Dibenzofuran	10.145	168	212190	5.706	ng	99
56) 4-Nitrophenol	10.028	139	17445	3.743	ng	96
57) 2,4-Dinitrotoluene	10.116	165	24415	3.605	ng	96
58) Fluorene	10.486	166	167029	5.886	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.257	232	29233	4.301	ng	99
60) Diethylphthalate	10.357	149	147649	5.241	ng	98
61) 4-Chlorophenyl-phenyle...	10.480	204	76782	5.608	ng	98
62) 4-Nitroaniline	10.486	138	22736	4.632	ng	93
63) Azobenzene	10.639	77	146968	5.460	ng	99
66) n-Nitrosodiphenylamine	10.592	169	138600	5.286	ng	99
67) 4-Bromophenyl-phenylether	10.975	248	45301	5.072	ng	97
68) Hexachlorobenzene	11.033	284	51978	5.291	ng	100
69) Atrazine	11.122	200	30914	4.472	ng	99
70) Pentachlorophenol	11.227	266	18599	3.599	ng	98
71) Phenanthrene	11.451	178	235107	5.692	ng	98
72) Anthracene	11.504	178	238345	5.616	ng	98
73) Carbazole	11.657	167	209878	5.512	ng	98
74) Di-n-butylphthalate	11.986	149	188462	4.707	ng	99
75) Fluoranthene	12.639	202	236016	5.716	ng	99
78) Pyrene	12.869	202	252238	5.118	ng	98
80) Butylbenzylphthalate	13.492	149	39082	6.169	ng	98
81) Benzo(a)anthracene	14.057	228	189654	5.289	ng	99
82) 3,3'-Dichlorobenzidine	14.021	252	34544	4.143	ng	99
83) Chrysene	14.092	228	179085	5.365	ng	100
84) Bis(2-ethylhexyl)phtha...	14.051	149	45343	6.444	ng	98
87) Indeno(1,2,3-cd)pyrene	17.057	276	108522	4.138	ng	99
88) Benzo(b)fluoranthene	15.115	252	123666	5.416	ng	99
89) Benzo(k)fluoranthene	15.145	252	109149	5.224	ng	99
90) Benzo(a)pyrene	15.492	252	97418	4.761	ng	100
91) Dibenzo(a,h)anthracene	17.080	278	93055	4.295	ng	98
92) Benzo(g,h,i)perylene	17.509	276	91492	4.255	ng	98

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

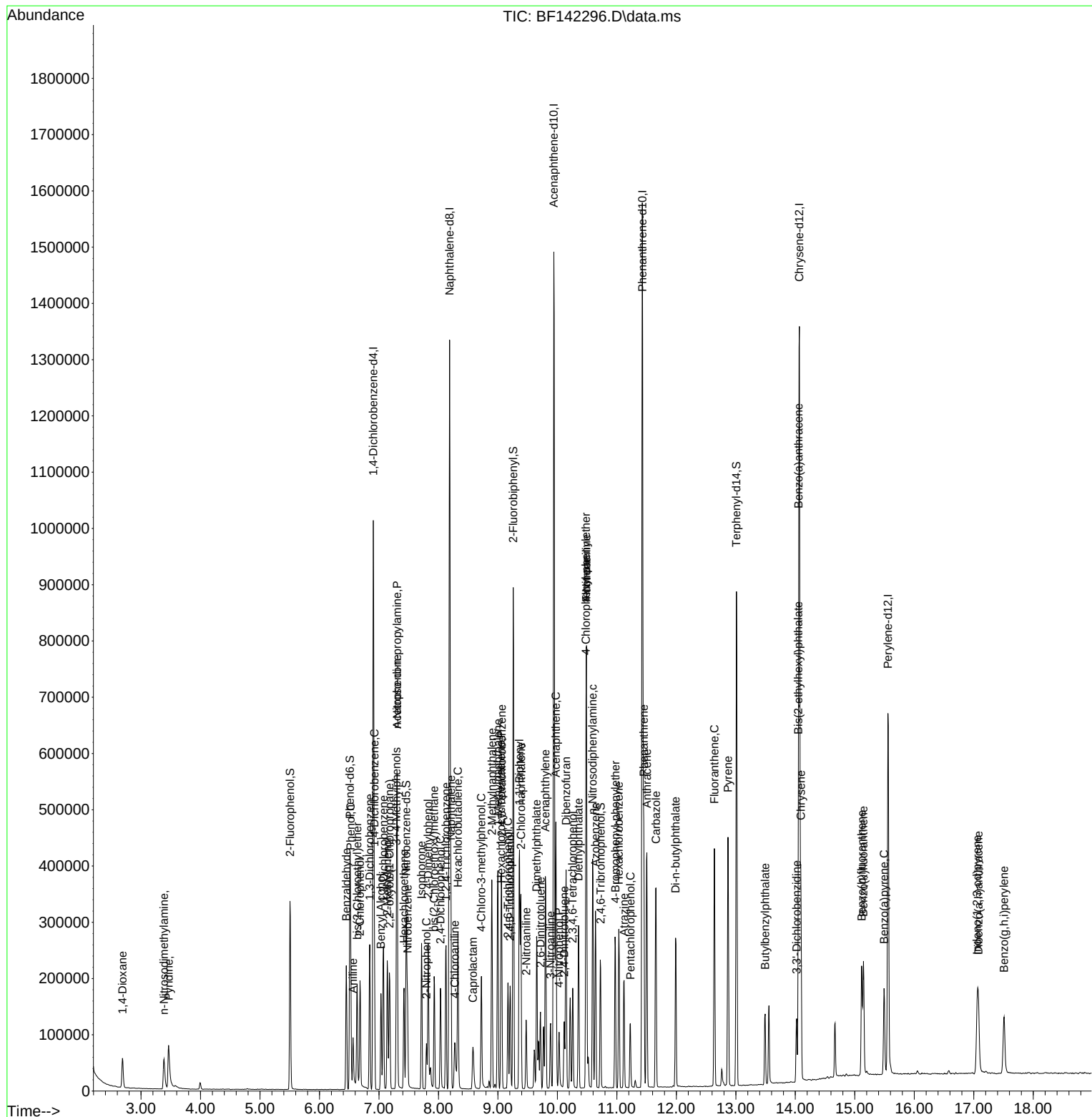
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\  
Data File : BF142296.D  
Acq On    : 05 May 2025  14:23  
Operator  : RC/JU  
Sample    : SSTDICC005  
Misc      :  
ALS Vial  : 3    Sample Multiplier: 1
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Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/06/2025
Supervised By :Jagrut Upadhyay 05/06/2025

Quant Time: May 05 17:56:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 17:44:56 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
 Data File : BF142297.D
 Acq On : 05 May 2025 14:52
 Operator : RC/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/06/2025
 Supervised By :Jagrut Upadhyay 05/06/2025

Quant Time: May 05 17:57:33 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 17:44:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	212907	20.000	ng	0.00
21) Naphthalene-d8	8.187	136	834027	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	451658	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	799418	20.000	ng	0.00
76) Chrysene-d12	14.069	240	531922	20.000	ng	0.00
86) Perylene-d12	15.563	264	390300	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	250509	20.086	ng	0.00
7) Phenol-d6	6.516	99	310470	20.240	ng	0.00
23) Nitrobenzene-d5	7.463	82	253451	18.533	ng	0.00
42) 2,4,6-Tribromophenol	10.728	330	79570	18.247	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	725000	22.888	ng	0.00
79) Terphenyl-d14	13.010	244	757212	21.070	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.687	88	56091	9.987	ng	98
3) Pyridine	3.457	79	131287	9.941	ng	99
4) n-Nitrosodimethylamine	3.387	42	75254	9.819	ng	# 98
6) Aniline	6.563	93	145801	9.690	ng	99
8) 2-Chlorophenol	6.681	128	130151	9.765	ng	98
9) Benzaldehyde	6.451	77	102088	11.371	ng	100
10) Phenol	6.528	94	162652	10.003	ng	99
11) bis(2-Chloroethyl)ether	6.634	93	164226m	10.242	ng	
12) 1,3-Dichlorobenzene	6.845	146	160179	10.505	ng	99
13) 1,4-Dichlorobenzene	6.922	146	159624	10.427	ng	99
14) 1,2-Dichlorobenzene	7.075	146	152479	10.376	ng	99
15) Benzyl Alcohol	7.034	79	89790	9.040	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.175	45	245918	10.270	ng	99
17) 2-Methylphenol	7.145	107	107331	9.947	ng	98
18) Hexachloroethane	7.422	117	49420	9.702	ng	99
19) n-Nitroso-di-n-propyla...	7.304	70	97394	10.264	ng	95
20) 3+4-Methylphenols	7.293	107	136376	10.127	ng	# 88
22) Acetophenone	7.304	105	197710	10.662	ng	96
24) Nitrobenzene	7.481	77	122267	9.485	ng	99
25) Isophorone	7.716	82	259962	10.039	ng	98
26) 2-Nitrophenol	7.798	139	40609	10.066	ng	99
27) 2,4-Dimethylphenol	7.828	122	131079	10.068	ng	98
28) bis(2-Chloroethoxy)met...	7.928	93	172734	10.373	ng	99
29) 2,4-Dichlorophenol	8.034	162	104807	9.468	ng	98
30) 1,2,4-Trichlorobenzene	8.128	180	129041	10.358	ng	98
31) Naphthalene	8.210	128	429996	10.638	ng	99
32) Benzoic acid	7.881	122	35000m	11.080	ng	
33) 4-Chloroaniline	8.257	127	155389m	9.438	ng	
34) Hexachlorobutadiene	8.328	225	75921	10.292	ng	99
35) Caprolactam	8.587	113	28438	8.834	ng	97
36) 4-Chloro-3-methylphenol	8.722	107	112762	9.800	ng	99
37) 2-Methylnaphthalene	8.898	142	265328	10.564	ng	100
38) 1-Methylnaphthalene	8.998	142	281289	10.745	ng	98
40) 1,2,4,5-Tetrachloroben...	9.063	216	132346	10.492	ng	99
41) Hexachlorocyclopentadiene	9.051	237	68324	8.764	ng	100
43) 2,4,6-Trichlorophenol	9.169	196	72234	9.078	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
 Data File : BF142297.D
 Acq On : 05 May 2025 14:52
 Operator : RC/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/06/2025
 Supervised By :Jagrut Upadhyay 05/06/2025

Quant Time: May 05 17:57:33 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 17:44:56 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	79827	9.429	ng	97
46) 1,1'-Biphenyl	9.363	154	370629	10.702	ng	98
47) 2-Chloronaphthalene	9.386	162	270501	10.503	ng	98
48) 2-Nitroaniline	9.475	65	54180	8.208	ng	97
49) Acenaphthylene	9.804	152	457356	10.616	ng	99
50) Dimethylphthalate	9.657	163	292351	10.080	ng	99
51) 2,6-Dinitrotoluene	9.716	165	46421	8.551	ng	99
52) Acenaphthene	9.975	154	268993	10.384	ng	99
53) 3-Nitroaniline	9.886	138	53755	8.443	ng	# 99
54) 2,4-Dinitrophenol	9.986	184	14043	12.133	ng	# 1
55) Dibenzofuran	10.145	168	404214	10.573	ng	99
56) 4-Nitrophenol	10.028	139	40283	8.407	ng	98
57) 2,4-Dinitrotoluene	10.116	165	56545	8.120	ng	94
58) Fluorene	10.486	166	317792	10.892	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.257	232	65106	9.316	ng	99
60) Diethylphthalate	10.357	149	299154	10.329	ng	99
61) 4-Chlorophenyl-phenyle...	10.481	204	150371	10.683	ng	97
62) 4-Nitroaniline	10.492	138	51843	10.274	ng	96
63) Azobenzene	10.639	77	287064	10.372	ng	98
65) 4,6-Dinitro-2-methylph...	10.522	198	20774	11.925	ng	94
66) n-Nitrosodiphenylamine	10.598	169	273145	10.268	ng	100
67) 4-Bromophenyl-phenylether	10.975	248	90669	10.008	ng	96
68) Hexachlorobenzene	11.033	284	98422	9.876	ng	98
69) Atrazine	11.122	200	65913	9.400	ng	99
70) Pentachlorophenol	11.228	266	43524	8.302	ng	99
71) Phenanthrene	11.451	178	440505	10.512	ng	99
72) Anthracene	11.504	178	454013	10.545	ng	99
73) Carbazole	11.657	167	406007	10.511	ng	99
74) Di-n-butylphthalate	11.992	149	408614	10.060	ng	99
75) Fluoranthene	12.639	202	461212	11.011	ng	99
77) Benzidine	12.763	184	72321	7.482	ng	99
78) Pyrene	12.869	202	464898	9.819	ng	100
80) Butylbenzylphthalate	13.492	149	87770	9.527	ng	99
81) Benzo(a)anthracene	14.057	228	345605	10.033	ng	100
82) 3,3'-Dichlorobenzidine	14.021	252	74238	9.267	ng	99
83) Chrysene	14.092	228	326300	10.175	ng	99
84) Bis(2-ethylhexyl)phtha...	14.051	149	111032	9.863	ng	98
85) Di-n-octyl phthalate	14.669	149	155899	11.860	ng	99
87) Indeno(1,2,3-cd)pyrene	17.057	276	250070	9.211	ng	100
88) Benzo(b)fluoranthene	15.116	252	237339	10.040	ng	100
89) Benzo(k)fluoranthene	15.145	252	222898	10.304	ng	99
90) Benzo(a)pyrene	15.492	252	203272	9.596	ng	98
91) Dibenzo(a,h)anthracene	17.080	278	207967	9.272	ng	99
92) Benzo(g,h,i)perylene	17.509	276	206052	9.256	ng	99

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

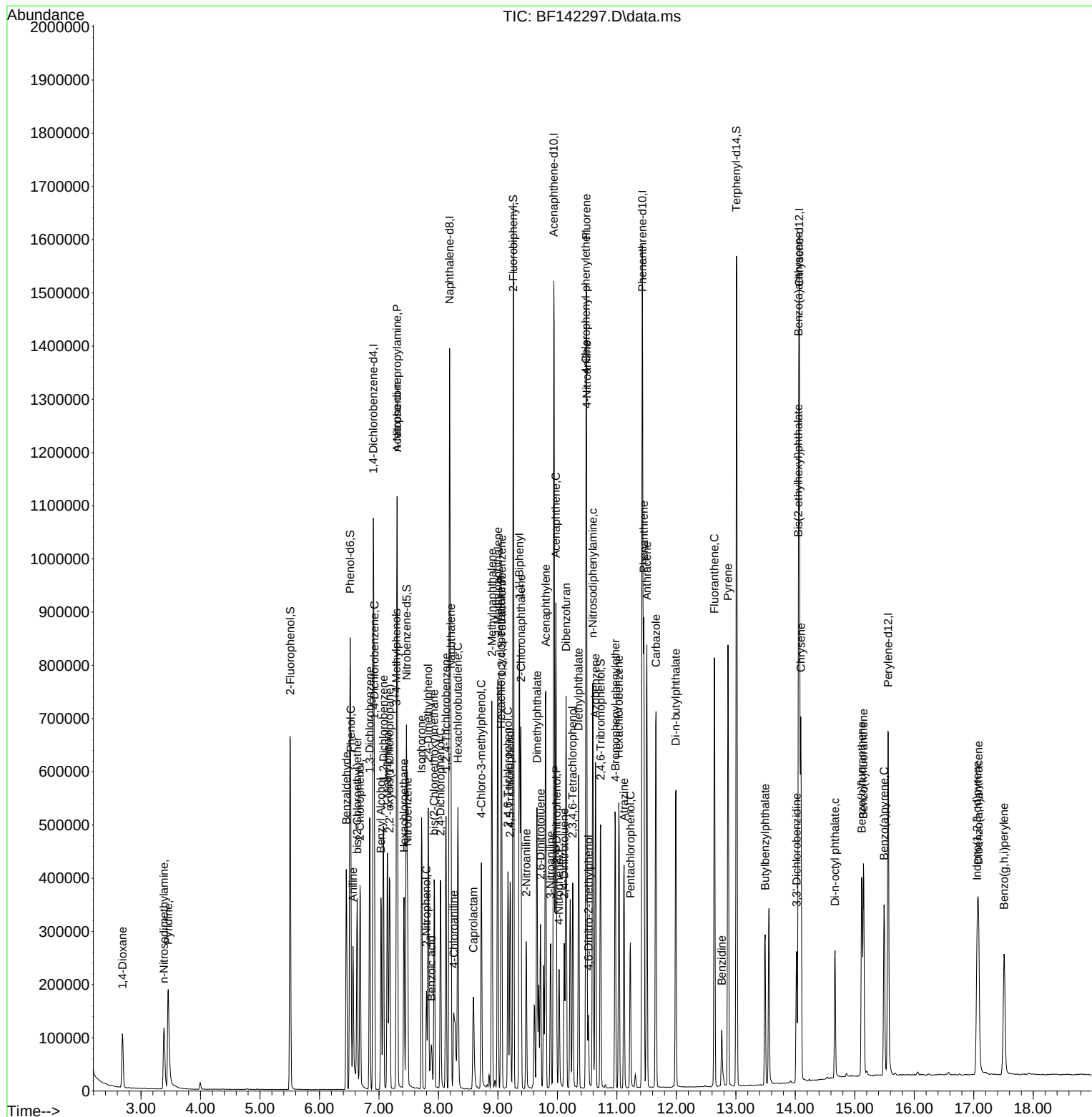
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\  
Data File : BF142297.D  
Acq On    : 05 May 2025  14:52  
Operator  : RC/JU  
Sample    : SSTDICC010  
Misc      :  
ALS Vial  : 4    Sample Multiplier: 1
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Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/06/2025
Supervised By :Jagrut Upadhyay 05/06/2025

Quant Time: May 05 17:57:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 17:44:56 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
 Data File : BF142298.D
 Acq On : 05 May 2025 15:21
 Operator : RC/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/06/2025

Supervised By :Jagrut Upadhyay 05/06/2025

Quant Time: May 05 17:58:22 2025

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon May 05 17:44:56 2025

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	216286	20.000	ng	0.00
21) Naphthalene-d8	8.187	136	842039	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	449427	20.000	ng	0.00
64) Phenanthrene-d10	11.428	188	788283	20.000	ng	0.00
76) Chrysene-d12	14.069	240	473278	20.000	ng	0.00
86) Perylene-d12	15.563	264	392077	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	524001	41.358	ng	0.00
7) Phenol-d6	6.516	99	644227	41.341	ng	0.00
23) Nitrobenzene-d5	7.463	82	565303	40.944	ng	0.00
42) 2,4,6-Tribromophenol	10.728	330	178075	41.039	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	1377117	43.691	ng	0.00
79) Terphenyl-d14	13.016	244	1382069	43.222	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	2.687	88	115676	20.274	ng	99
3) Pyridine	3.452	79	261665	19.504	ng	99
4) n-Nitrosodimethylamine	3.393	42	157578	20.240	ng	96
6) Aniline	6.563	93	339232	22.194	ng	100
8) 2-Chlorophenol	6.687	128	273145	20.174	ng	99
9) Benzaldehyde	6.451	77	195344	21.418	ng	98
10) Phenol	6.534	94	342565	20.739	ng	99
11) bis(2-Chloroethyl)ether	6.634	93	326537	20.046	ng	99
12) 1,3-Dichlorobenzene	6.845	146	317103	20.472	ng	99
13) 1,4-Dichlorobenzene	6.922	146	321447	20.669	ng	99
14) 1,2-Dichlorobenzene	7.075	146	306024	20.500	ng	99
15) Benzyl Alcohol	7.040	79	201768	19.996	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.181	45	502839	20.672	ng	100
17) 2-Methylphenol	7.145	107	221049	20.166	ng	98
18) Hexachloroethane	7.422	117	105630	20.413	ng	99
19) n-Nitroso-di-n-propyla...	7.310	70	198554	20.599	ng	99
20) 3+4-Methylphenols	7.298	107	285863	20.896	ng	96
22) Acetophenone	7.310	105	390755	20.871	ng	99
24) Nitrobenzene	7.481	77	266464	20.474	ng	99
25) Isophorone	7.722	82	530519	20.291	ng	100
26) 2-Nitrophenol	7.798	139	101497	18.889	ng	97
27) 2,4-Dimethylphenol	7.828	122	270038	20.543	ng	100
28) bis(2-Chloroethoxy)met...	7.934	93	351686	20.919	ng	99
29) 2,4-Dichlorophenol	8.040	162	233840	20.924	ng	99
30) 1,2,4-Trichlorobenzene	8.128	180	260029	20.674	ng	99
31) Naphthalene	8.210	128	865551	21.209	ng	99
32) Benzoic acid	7.910	122	98814m	19.691	ng	
33) 4-Chloroaniline	8.257	127	335192m	20.165	ng	
34) Hexachlorobutadiene	8.328	225	152292	20.449	ng	99
35) Caprolactam	8.604	113	65889	20.272	ng	99
36) 4-Chloro-3-methylphenol	8.722	107	238603	20.539	ng	99
37) 2-Methylnaphthalene	8.898	142	534930	21.095	ng	100
38) 1-Methylnaphthalene	8.998	142	559888	21.183	ng	99
40) 1,2,4,5-Tetrachloroben...	9.063	216	263169	20.966	ng	99
41) Hexachlorocyclopentadiene	9.051	237	156699	20.200	ng	99
43) 2,4,6-Trichlorophenol	9.169	196	161721	20.426	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
 Data File : BF142298.D
 Acq On : 05 May 2025 15:21
 Operator : RC/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/06/2025
 Supervised By :Jagrut Upadhyay 05/06/2025

Quant Time: May 05 17:58:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 17:44:56 2025
 Response via : Initial Calibration

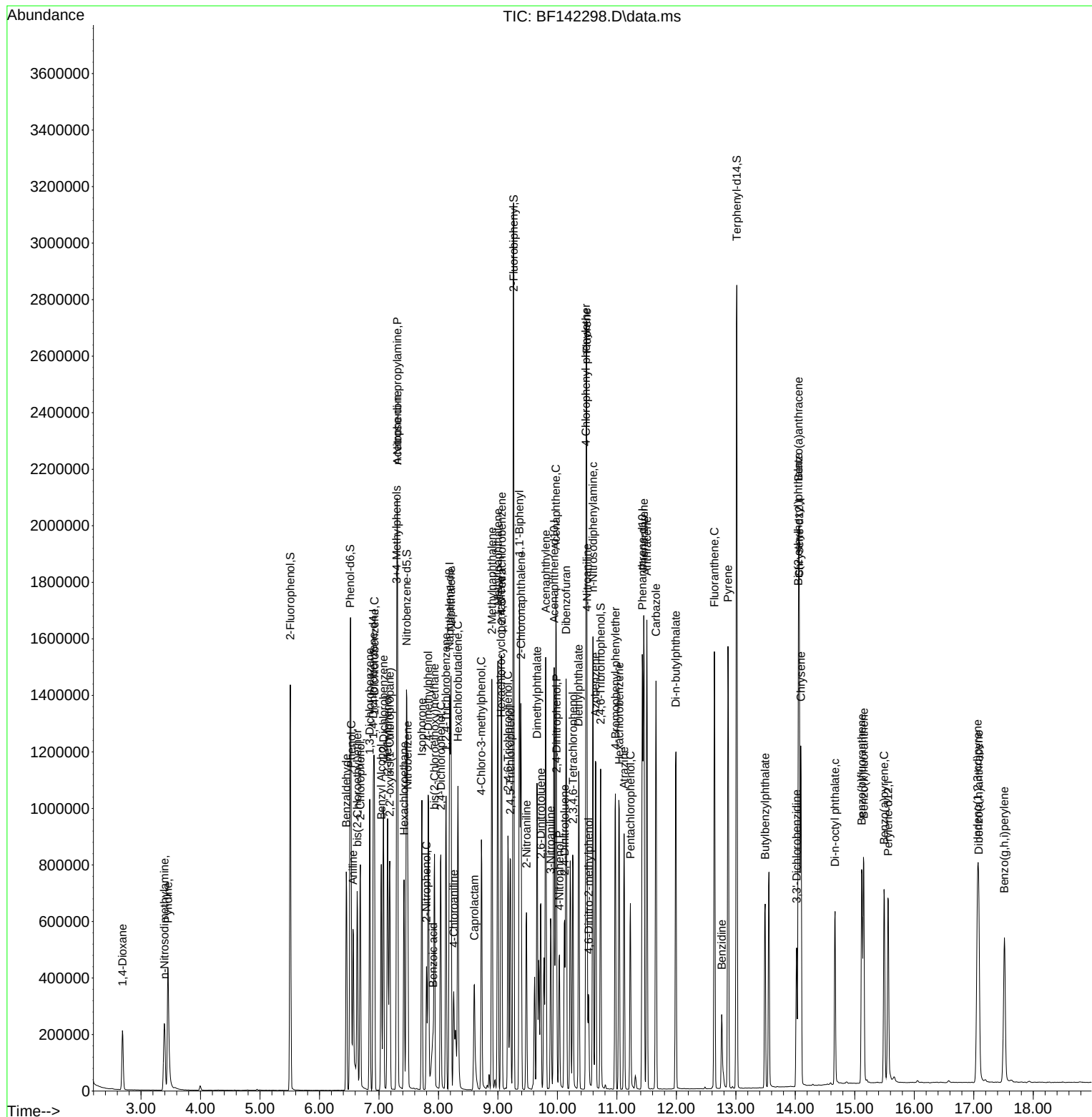
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	175468	20.829	ng	99
46) 1,1'-Biphenyl	9.363	154	735501	21.344	ng	98
47) 2-Chloronaphthalene	9.386	162	536203	20.924	ng	100
48) 2-Nitroaniline	9.481	65	131275	19.985	ng	99
49) Acenaphthylene	9.804	152	902949	21.063	ng	99
50) Dimethylphthalate	9.657	163	604026	20.930	ng	99
51) 2,6-Dinitrotoluene	9.722	165	108919	20.163	ng	98
52) Acenaphthene	9.975	154	539391	20.925	ng	99
53) 3-Nitroaniline	9.886	138	129439	20.431	ng	98
54) 2,4-Dinitrophenol	9.986	184	37439	19.641	ng	# 1
55) Dibenzofuran	10.145	168	809325	21.274	ng	100
56) 4-Nitrophenol	10.034	139	94419	19.802	ng	98
57) 2,4-Dinitrotoluene	10.122	165	136138	19.647	ng	98
58) Fluorene	10.492	166	617592	21.273	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.263	232	143706	20.664	ng	99
60) Diethylphthalate	10.357	149	609078	21.134	ng	99
61) 4-Chlorophenyl-phenyle...	10.481	204	295765	21.116	ng	97
62) 4-Nitroaniline	10.498	138	111613	22.228	ng	98
63) Azobenzene	10.639	77	577345	20.964	ng	98
65) 4,6-Dinitro-2-methylph...	10.528	198	53454	19.555	ng	98
66) n-Nitrosodiphenylamine	10.598	169	545886	20.811	ng	99
67) 4-Bromophenyl-phenylether	10.975	248	182781	20.459	ng	98
68) Hexachlorobenzene	11.039	284	199561	20.307	ng	97
69) Atrazine	11.122	200	138860	20.082	ng	99
70) Pentachlorophenol	11.228	266	102593	19.845	ng	97
71) Phenanthrene	11.451	178	871138	21.083	ng	99
72) Anthracene	11.504	178	893968	21.056	ng	99
73) Carbazole	11.657	167	807082	21.189	ng	99
74) Di-n-butylphthalate	11.992	149	852839	21.293	ng	99
75) Fluoranthene	12.639	202	888973	21.523	ng	99
77) Benzidine	12.763	184	181563	21.110	ng	99
78) Pyrene	12.869	202	900375	21.373	ng	99
80) Butylbenzylphthalate	13.492	149	207602	19.258	ng	99
81) Benzo(a)anthracene	14.057	228	623286	20.336	ng	99
82) 3,3'-Dichlorobenzidine	14.021	252	149520	20.978	ng	98
83) Chrysene	14.092	228	589961	20.676	ng	99
84) Bis(2-ethylhexyl)phtha...	14.051	149	263391	19.237	ng	98
85) Di-n-octyl phthalate	14.668	149	405073	19.581	ng	99
87) Indeno(1,2,3-cd)pyrene	17.062	276	556960	20.421	ng	99
88) Benzo(b)fluoranthene	15.116	252	481134	20.261	ng	100
89) Benzo(k)fluoranthene	15.151	252	456264	20.996	ng	100
90) Benzo(a)pyrene	15.492	252	432151	20.308	ng	100
91) Dibenzo(a,h)anthracene	17.086	278	468301	20.783	ng	99
92) Benzo(g,h,i)perylene	17.515	276	460655	20.598	ng	99

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/06/2025
Supervised By :Jagrut Upadhyay 05/06/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
 Data File : BF142299.D
 Acq On : 05 May 2025 15:50
 Operator : RC/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICCC040

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/06/2025
 Supervised By :Jagrut Upadhyay 05/06/2025

Quant Time: May 05 17:59:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 17:44:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	215157	20.000	ng	0.00
21) Naphthalene-d8	8.187	136	842526	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	453823	20.000	ng	0.00
64) Phenanthrene-d10	11.433	188	760936	20.000	ng	0.00
76) Chrysene-d12	14.069	240	448285	20.000	ng	0.00
86) Perylene-d12	15.563	264	426732	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	968719	76.859	ng	0.00
7) Phenol-d6	6.522	99	1182959	76.311	ng	0.00
23) Nitrobenzene-d5	7.469	82	1103045	79.845	ng	0.00
42) 2,4,6-Tribromophenol	10.733	330	347351	79.275	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	2308950	72.545	ng	0.00
79) Terphenyl-d14	13.016	244	2250335	74.299	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.687	88	216454	38.137	ng	100
3) Pyridine	3.452	79	505899	37.907	ng	100
4) n-Nitrosodimethylamine	3.405	42	299573	38.681	ng	100
6) Aniline	6.569	93	631218	41.514	ng	100
8) 2-Chlorophenol	6.687	128	525501	39.017	ng	100
9) Benzaldehyde	6.457	77	315981	34.827	ng	100
10) Phenol	6.540	94	633459m	38.550	ng	
11) bis(2-Chloroethyl)ether	6.640	93	582128m	35.924	ng	
12) 1,3-Dichlorobenzene	6.845	146	579737	37.624	ng	100
13) 1,4-Dichlorobenzene	6.922	146	586776	37.927	ng	100
14) 1,2-Dichlorobenzene	7.075	146	566937	38.177	ng	100
15) Benzyl Alcohol	7.040	79	399542	39.803	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.181	45	918775	37.969	ng	100
17) 2-Methylphenol	7.151	107	418080	38.341	ng	100
18) Hexachloroethane	7.422	117	199182	38.694	ng	100
19) n-Nitroso-di-n-propyla...	7.316	70	370009	38.588	ng	100
20) 3+4-Methylphenols	7.304	107	524172	38.517	ng	100
22) Acetophenone	7.316	105	701214	37.432	ng	100
24) Nitrobenzene	7.487	77	516127	39.634	ng	100
25) Isophorone	7.728	82	988094	37.771	ng	100
26) 2-Nitrophenol	7.804	139	222173	36.469	ng	100
27) 2,4-Dimethylphenol	7.834	122	501635	38.139	ng	100
28) bis(2-Chloroethoxy)met...	7.934	93	629800	37.440	ng	100
29) 2,4-Dichlorophenol	8.040	162	442388	39.562	ng	100
30) 1,2,4-Trichlorobenzene	8.128	180	473497	37.625	ng	100
31) Naphthalene	8.210	128	1526020	37.372	ng	100
32) Benzoic acid	7.940	122	235641	36.564	ng	100
33) 4-Chloroaniline	8.257	127	645610m	38.817	ng	
34) Hexachlorobutadiene	8.328	225	282333	37.888	ng	100
35) Caprolactam	8.622	113	132846	40.850	ng	100
36) 4-Chloro-3-methylphenol	8.728	107	447226	38.475	ng	100
37) 2-Methylnaphthalene	8.904	142	958304	37.768	ng	100
38) 1-Methylnaphthalene	8.998	142	1000206	37.821	ng	100
40) 1,2,4,5-Tetrachloroben...	9.069	216	467314	36.869	ng	100
41) Hexachlorocyclopentadiene	9.057	237	311649	39.785	ng	100
43) 2,4,6-Trichlorophenol	9.175	196	318860	39.883	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
 Data File : BF142299.D
 Acq On : 05 May 2025 15:50
 Operator : RC/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICCC040

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/06/2025
 Supervised By :Jagrut Upadhyay 05/06/2025

Quant Time: May 05 17:59:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 17:44:56 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	329034	38.680	ng	100
46) 1,1'-Biphenyl	9.363	154	1280889	36.811	ng	100
47) 2-Chloronaphthalene	9.392	162	959880	37.093	ng	100
48) 2-Nitroaniline	9.481	65	270673	40.808	ng	100
49) Acenaphthylene	9.804	152	1618066	37.378	ng	100
50) Dimethylphthalate	9.663	163	1097900	37.675	ng	100
51) 2,6-Dinitrotoluene	9.722	165	222509	40.792	ng	100
52) Acenaphthene	9.981	154	967532	37.171	ng	100
53) 3-Nitroaniline	9.892	138	259735	40.600	ng	100
54) 2,4-Dinitrophenol	9.992	184	88227	35.617	ng	100
55) Dibenzofuran	10.151	168	1411519	36.745	ng	100
56) 4-Nitrophenol	10.039	139	194419	40.380	ng	100
57) 2,4-Dinitrotoluene	10.128	165	288836	41.281	ng	100
58) Fluorene	10.492	166	1084214	36.984	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.263	232	277041	39.451	ng	100
60) Diethylphthalate	10.363	149	1095399	37.640	ng	100
61) 4-Chlorophenyl-phenyle...	10.486	204	523719	37.028	ng	100
62) 4-Nitroaniline	10.504	138	203816	40.198	ng	100
63) Azobenzene	10.645	77	1027227	36.938	ng	100
65) 4,6-Dinitro-2-methylph...	10.533	198	123079	36.690	ng	100
66) n-Nitrosodiphenylamine	10.604	169	957534	37.816	ng	100
67) 4-Bromophenyl-phenylether	10.975	248	328625	38.106	ng	100
68) Hexachlorobenzene	11.039	284	360906	38.046	ng	100
69) Atrazine	11.128	200	265558	39.786	ng	100
70) Pentachlorophenol	11.228	266	211262	42.334	ng	100
71) Phenanthrene	11.457	178	1503192	37.687	ng	100
72) Anthracene	11.510	178	1549487	37.808	ng	100
73) Carbazole	11.657	167	1409408	38.332	ng	100
74) Di-n-butylphthalate	11.992	149	1540981	39.856	ng	100
75) Fluoranthene	12.645	202	1499802	37.616	ng	100
77) Benzidine	12.769	184	321040	39.408	ng	100
78) Pyrene	12.874	202	1528516	38.307	ng	100
80) Butylbenzylphthalate	13.492	149	420197	36.993	ng	100
81) Benzo(a)anthracene	14.063	228	1109518	38.218	ng	100
82) 3,3'-Dichlorobenzidine	14.021	252	265678	39.352	ng	100
83) Chrysene	14.098	228	989811	36.624	ng	100
84) Bis(2-ethylhexyl)phtha...	14.051	149	539105	36.650	ng	100
85) Di-n-octyl phthalate	14.669	149	922803	36.079	ng	100
87) Indeno(1,2,3-cd)pyrene	17.068	276	1181269	39.794	ng	100
88) Benzo(b)fluoranthene	15.121	252	992827	38.414	ng	100
89) Benzo(k)fluoranthene	15.157	252	888026	37.546	ng	100
90) Benzo(a)pyrene	15.498	252	909479	39.269	ng	100
91) Dibenzo(a,h)anthracene	17.092	278	970622	39.578	ng	100
92) Benzo(g,h,i)perylene	17.527	276	956211	39.285	ng	100

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

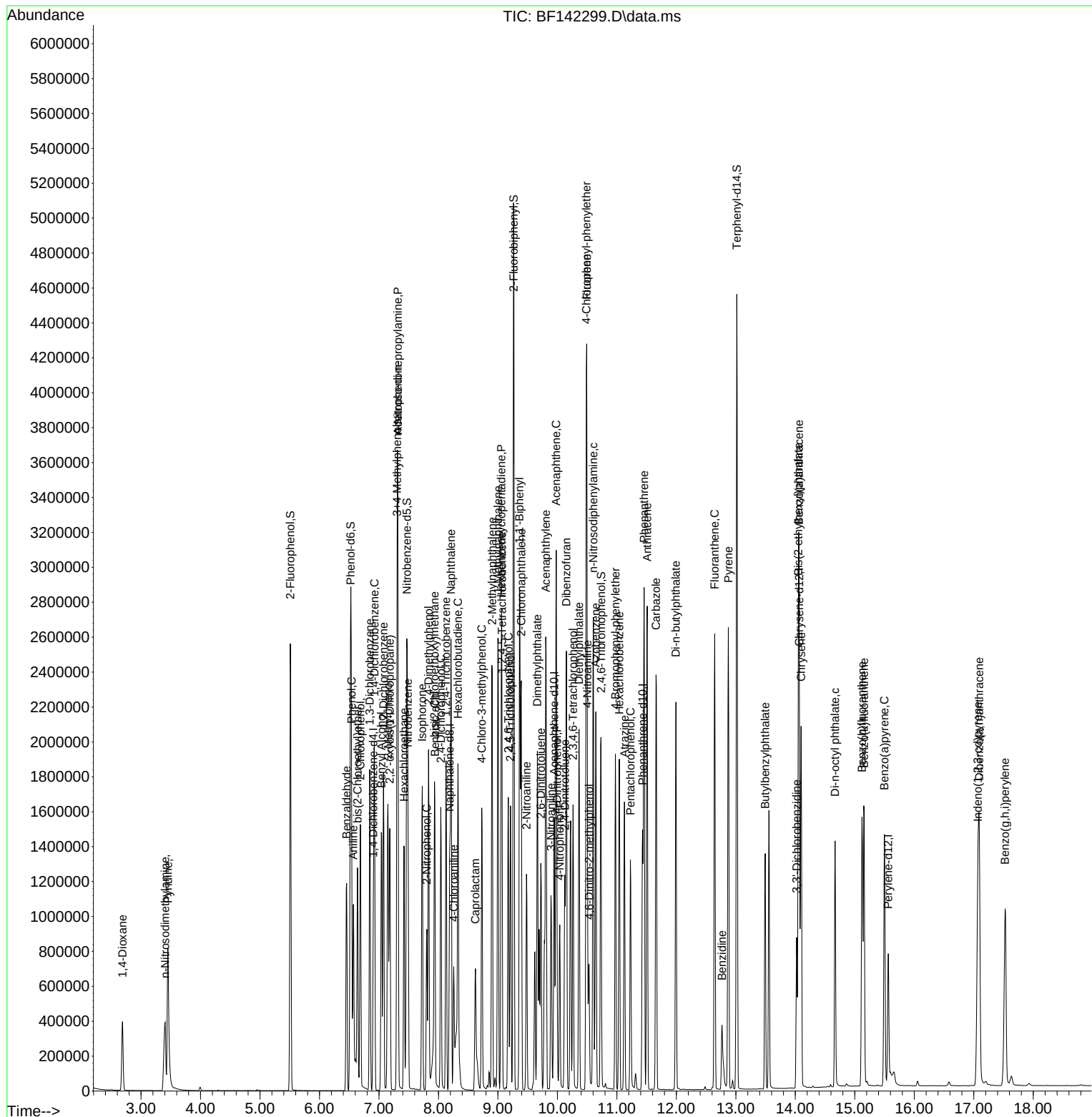
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
Data File : BF142299.D
Acq On : 05 May 2025 15:50
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/06/2025
Supervised By :Jagrut Upadhyay 05/06/2025

Quant Time: May 05 17:59:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 17:44:56 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
 Data File : BF142300.D
 Acq On : 05 May 2025 16:18
 Operator : RC/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC050

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/06/2025
 Supervised By :Jagrut Upadhyay 05/06/2025

Quant Time: May 05 18:00:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 17:44:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	184142	20.000	ng	0.00
21) Naphthalene-d8	8.192	136	725434	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	381581	20.000	ng	0.00
64) Phenanthrene-d10	11.433	188	653321	20.000	ng	0.00
76) Chrysene-d12	14.074	240	361528	20.000	ng	0.00
86) Perylene-d12	15.563	264	352732	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	1127279	104.504	ng	0.00
7) Phenol-d6	6.528	99	1380723	104.071	ng	0.00
23) Nitrobenzene-d5	7.469	82	1306356	109.825	ng	0.00
42) 2,4,6-Tribromophenol	10.733	330	416395	113.025	ng	0.00
45) 2-Fluorobiphenyl	9.269	172	2550133	95.292	ng	0.00
79) Terphenyl-d14	13.016	244	2512161	102.849	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.675	88	250125	51.492	ng	100
3) Pyridine	3.446	79	603723	52.856	ng	99
4) n-Nitrosodimethylamine	3.399	42	349382	52.710	ng	99
6) Aniline	6.569	93	710390	54.590	ng	100
8) 2-Chlorophenol	6.687	128	619795	53.769	ng	99
9) Benzaldehyde	6.457	77	346249	44.591	ng	100
10) Phenol	6.540	94	727274m	51.714	ng	
11) bis(2-Chloroethyl)ether	6.640	93	698119m	50.339	ng	
12) 1,3-Dichlorobenzene	6.846	146	679991	51.563	ng	100
13) 1,4-Dichlorobenzene	6.928	146	679359	51.307	ng	99
14) 1,2-Dichlorobenzene	7.075	146	655534	51.578	ng	99
15) Benzyl Alcohol	7.045	79	474305	55.210	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.181	45	1077461	52.026	ng	100
17) 2-Methylphenol	7.151	107	492676	52.792	ng	100
18) Hexachloroethane	7.422	117	235428	53.439	ng	99
19) n-Nitroso-di-n-propyla...	7.322	70	429402	52.324	ng	99
20) 3+4-Methylphenols	7.304	107	613574	52.680	ng	94
22) Acetophenone	7.316	105	809554	50.190	ng	98
24) Nitrobenzene	7.493	77	610521	54.450	ng	98
25) Isophorone	7.728	82	1175639	52.193	ng	99
26) 2-Nitrophenol	7.804	139	279873	51.463	ng	99
27) 2,4-Dimethylphenol	7.834	122	596218	52.647	ng	99
28) bis(2-Chloroethoxy)met...	7.940	93	739692	51.070	ng	99
29) 2,4-Dichlorophenol	8.045	162	521673	54.183	ng	99
30) 1,2,4-Trichlorobenzene	8.128	180	550979	50.849	ng	100
31) Naphthalene	8.210	128	1773884	50.454	ng	100
32) Benzoic acid	7.945	122	322603m	51.963	ng	
33) 4-Chloroaniline	8.257	127	789321m	55.118	ng	
34) Hexachlorobutadiene	8.328	225	335206	52.244	ng	99
35) Caprolactam	8.628	113	160421	57.291	ng	97
36) 4-Chloro-3-methylphenol	8.734	107	526289	52.584	ng	99
37) 2-Methylnaphthalene	8.904	142	1114987	51.036	ng	99
38) 1-Methylnaphthalene	9.004	142	1142120	50.158	ng	99
40) 1,2,4,5-Tetrachloroben...	9.069	216	547513	51.375	ng	100
41) Hexachlorocyclopentadiene	9.057	237	369761	56.140	ng	99
43) 2,4,6-Trichlorophenol	9.175	196	375122	55.803	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
 Data File : BF142300.D
 Acq On : 05 May 2025 16:18
 Operator : RC/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC050

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/06/2025
 Supervised By :Jagrut Upadhyay 05/06/2025

Quant Time: May 05 18:00:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 17:44:56 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	394344	55.134	ng	99
46) 1,1'-Biphenyl	9.369	154	1494596	51.084	ng	100
47) 2-Chloronaphthalene	9.392	162	1101937	50.645	ng	99
48) 2-Nitroaniline	9.481	65	327821	58.781	ng	98
49) Acenaphthylene	9.810	152	1868268	51.328	ng	99
50) Dimethylphthalate	9.669	163	1280292	52.252	ng	99
51) 2,6-Dinitrotoluene	9.728	165	267530	58.331	ng	95
52) Acenaphthene	9.981	154	1125706	51.436	ng	99
53) 3-Nitroaniline	9.898	138	313887	58.354	ng	98
54) 2,4-Dinitrophenol	9.998	184	114759	50.908	ng	# 15
55) Dibenzofuran	10.151	168	1632492	50.542	ng	99
56) 4-Nitrophenol	10.039	139	240972	59.524	ng	99
57) 2,4-Dinitrotoluene	10.128	165	350749	59.620	ng	100
58) Fluorene	10.492	166	1224371	49.671	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.263	232	327947	55.542	ng	99
60) Diethylphthalate	10.363	149	1282136	52.397	ng	99
61) 4-Chlorophenyl-phenyle...	10.486	204	608508	51.168	ng	100
62) 4-Nitroaniline	10.504	138	229299	53.785	ng	98
63) Azobenzene	10.645	77	1211976	51.833	ng	100
65) 4,6-Dinitro-2-methylph...	10.534	198	154307	50.269	ng	96
66) n-Nitrosodiphenylamine	10.604	169	1120570	51.544	ng	100
67) 4-Bromophenyl-phenylether	10.975	248	388493	52.469	ng	99
68) Hexachlorobenzene	11.039	284	420761	51.661	ng	99
69) Atrazine	11.128	200	319507	55.754	ng	99
70) Pentachlorophenol	11.228	266	249218	58.166	ng	98
71) Phenanthrene	11.457	178	1727795	50.453	ng	99
72) Anthracene	11.510	178	1784428	50.712	ng	100
73) Carbazole	11.663	167	1610611	51.019	ng	100
74) Di-n-butylphthalate	11.992	149	1785998	53.803	ng	100
75) Fluoranthene	12.645	202	1717060	50.159	ng	100
77) Benzidine	12.769	184	385286	58.643	ng	99
78) Pyrene	12.875	202	1728090	53.702	ng	99
80) Butylbenzylphthalate	13.492	149	493025	52.156	ng	100
81) Benzo(a)anthracene	14.063	228	1224138	52.285	ng	99
82) 3,3'-Dichlorobenzidine	14.022	252	295953	54.357	ng	99
83) Chrysene	14.098	228	1119046	51.342	ng	99
84) Bis(2-ethylhexyl)phtha...	14.051	149	631350	51.305	ng	99
85) Di-n-octyl phthalate	14.669	149	1122100	50.417	ng	100
87) Indeno(1,2,3-cd)pyrene	17.074	276	1407239	57.351	ng	100
88) Benzo(b)fluoranthene	15.121	252	1113446	52.119	ng	99
89) Benzo(k)fluoranthene	15.157	252	1033813	52.880	ng	100
90) Benzo(a)pyrene	15.504	252	1043008	54.482	ng	99
91) Dibenzo(a,h)anthracene	17.098	278	1153556	56.905	ng	99
92) Benzo(g,h,i)perylene	17.533	276	1141826	56.752	ng	99

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

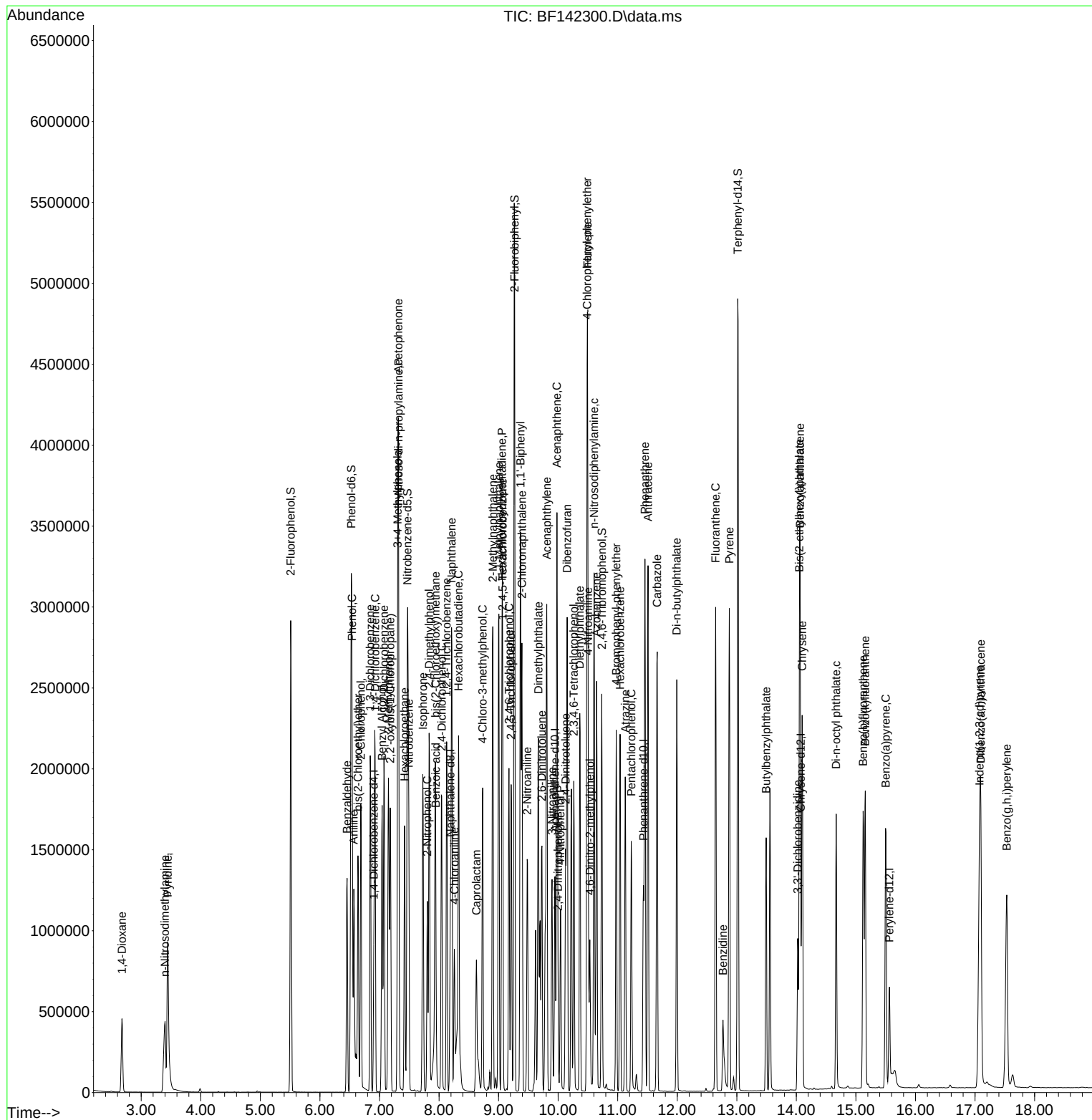
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
Data File : BF142300.D
Acq On : 05 May 2025 16:18
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/06/2025
Supervised By :Jagrut Upadhyay 05/06/2025

Quant Time: May 05 18:00:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 17:44:56 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
 Data File : BF142301.D
 Acq On : 05 May 2025 16:47
 Operator : RC/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC060

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/06/2025
 Supervised By :Jagrut Upadhyay 05/06/2025

Quant Time: May 05 18:00:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 17:44:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.910	152	197459	20.000	ng	0.00
21) Naphthalene-d8	8.192	136	774183	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	403498	20.000	ng	0.00
64) Phenanthrene-d10	11.433	188	678705	20.000	ng	0.00
76) Chrysene-d12	14.074	240	358642	20.000	ng	0.00
86) Perylene-d12	15.563	264	387967	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1380708	119.365	ng	0.00
7) Phenol-d6	6.528	99	1681641	118.204	ng	0.00
23) Nitrobenzene-d5	7.475	82	1614559	127.189	ng	0.00
42) 2,4,6-Tribromophenol	10.733	330	509292	130.732	ng	0.00
45) 2-Fluorobiphenyl	9.269	172	3015927	106.576	ng	0.00
79) Terphenyl-d14	13.022	244	2827945	116.709	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.681	88	308652	59.255	ng	100
3) Pyridine	3.446	79	777252	63.459	ng	99
4) n-Nitrosodimethylamine	3.405	42	429842	60.476	ng	99
6) Aniline	6.575	93	900100	64.503	ng	99
8) 2-Chlorophenol	6.687	128	760230	61.504	ng	99
9) Benzaldehyde	6.457	77	392710	47.164	ng	99
10) Phenol	6.545	94	902878m	59.871	ng	
11) bis(2-Chloroethyl)ether	6.645	93	853741m	57.408	ng	
12) 1,3-Dichlorobenzene	6.851	146	816681	57.752	ng	99
13) 1,4-Dichlorobenzene	6.928	146	820881	57.814	ng	99
14) 1,2-Dichlorobenzene	7.075	146	794010	58.260	ng	99
15) Benzyl Alcohol	7.045	79	597038	64.809	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.181	45	1310008	58.989	ng	100
17) 2-Methylphenol	7.151	107	599927	59.949	ng	99
18) Hexachloroethane	7.422	117	288326	61.032	ng	99
19) n-Nitroso-di-n-propyla...	7.328	70	523983	59.543	ng	98
20) 3+4-Methylphenols	7.310	107	726451	58.165	ng	94
22) Acetophenone	7.316	105	972165	56.476	ng	# 93
24) Nitrobenzene	7.492	77	753847	62.999	ng	97
25) Isophorone	7.734	82	1444396	60.087	ng	100
26) 2-Nitrophenol	7.804	139	359513	61.112	ng	98
27) 2,4-Dimethylphenol	7.840	122	729069	60.325	ng	99
28) bis(2-Chloroethoxy)met...	7.939	93	896741	58.015	ng	100
29) 2,4-Dichlorophenol	8.045	162	636712	61.967	ng	99
30) 1,2,4-Trichlorobenzene	8.128	180	670104	57.949	ng	99
31) Naphthalene	8.216	128	2103149	56.052	ng	99
32) Benzoic acid	7.957	122	433085m	61.871	ng	
33) 4-Chloroaniline	8.257	127	963425m	63.039	ng	
34) Hexachlorobutadiene	8.328	225	401644	58.657	ng	100
35) Caprolactam	8.634	113	193098	64.619	ng	97
36) 4-Chloro-3-methylphenol	8.734	107	648747	60.738	ng	99
37) 2-Methylnaphthalene	8.904	142	1319794	56.607	ng	99
38) 1-Methylnaphthalene	9.004	142	1363474	56.109	ng	99
40) 1,2,4,5-Tetrachloroben...	9.069	216	650696	57.740	ng	99
41) Hexachlorocyclopentadiene	9.057	237	459147	65.925	ng	100
43) 2,4,6-Trichlorophenol	9.175	196	448837	63.143	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
 Data File : BF142301.D
 Acq On : 05 May 2025 16:47
 Operator : RC/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC060

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/06/2025
 Supervised By :Jagrut Upadhyay 05/06/2025

Quant Time: May 05 18:00:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 17:44:56 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.216	196	480305	63.505	ng	99
46) 1,1'-Biphenyl	9.369	154	1745424	56.417	ng	99
47) 2-Chloronaphthalene	9.392	162	1338338	58.169	ng	99
48) 2-Nitroaniline	9.486	65	407862	69.160	ng	95
49) Acenaphthylene	9.810	152	2215774	57.569	ng	99
50) Dimethylphthalate	9.669	163	1543896	59.587	ng	100
51) 2,6-Dinitrotoluene	9.728	165	330939	68.237	ng	96
52) Acenaphthene	9.981	154	1345347	58.133	ng	100
53) 3-Nitroaniline	9.898	138	385568	67.787	ng	98
54) 2,4-Dinitrophenol	9.998	184	149707	61.014	ng	# 25
55) Dibenzofuran	10.151	168	1947247	57.013	ng	98
56) 4-Nitrophenol	10.045	139	290245	67.801	ng	99
57) 2,4-Dinitrotoluene	10.128	165	430311	69.171	ng	98
58) Fluorene	10.498	166	1432119	54.944	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.263	232	398607	63.842	ng	98
60) Diethylphthalate	10.369	149	1515452	58.568	ng	99
61) 4-Chlorophenyl-phenyle...	10.486	204	714047	56.782	ng	99
62) 4-Nitroaniline	10.510	138	265178	58.823	ng	100
63) Azobenzene	10.645	77	1434293	58.009	ng	100
65) 4,6-Dinitro-2-methylph...	10.533	198	199546	60.816	ng	96
66) n-Nitrosodiphenylamine	10.604	169	1330840	58.927	ng	100
67) 4-Bromophenyl-phenylether	10.975	248	461892	60.048	ng	99
68) Hexachlorobenzene	11.039	284	504486	59.625	ng	100
69) Atrazine	11.128	200	376071	63.169	ng	100
70) Pentachlorophenol	11.233	266	304541	68.419	ng	98
71) Phenanthrene	11.457	178	2009150	56.475	ng	99
72) Anthracene	11.510	178	2082880	56.980	ng	100
73) Carbazole	11.663	167	1854181	56.538	ng	100
74) Di-n-butylphthalate	11.992	149	2073826	60.137	ng	100
75) Fluoranthene	12.645	202	1946773	54.742	ng	100
77) Benzidine	12.769	184	434063	66.599	ng	100
78) Pyrene	12.874	202	1954922	61.239	ng	100
80) Butylbenzylphthalate	13.492	149	591132	62.274	ng	99
81) Benzo(a)anthracene	14.063	228	1394561	60.043	ng	99
82) 3,3'-Dichlorobenzidine	14.027	252	347469	64.332	ng	99
83) Chrysene	14.098	228	1293807	59.838	ng	99
84) Bis(2-ethylhexyl)phtha...	14.051	149	769940	62.098	ng	99
85) Di-n-octyl phthalate	14.668	149	1414997	61.963	ng	99
87) Indeno(1,2,3-cd)pyrene	17.080	276	1749961	64.842	ng	100
88) Benzo(b)fluoranthene	15.127	252	1328806	56.551	ng	99
89) Benzo(k)fluoranthene	15.157	252	1296375	60.288	ng	99
90) Benzo(a)pyrene	15.504	252	1302088	61.838	ng	99
91) Dibenzo(a,h)anthracene	17.098	278	1424781	63.902	ng	99
92) Benzo(g,h,i)perylene	17.539	276	1426095	64.444	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
 Data File : BF142301.D
 Acq On : 05 May 2025 16:47
 Operator : RC/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/06/2025

Supervised By :Jagrut Upadhyay 05/06/2025

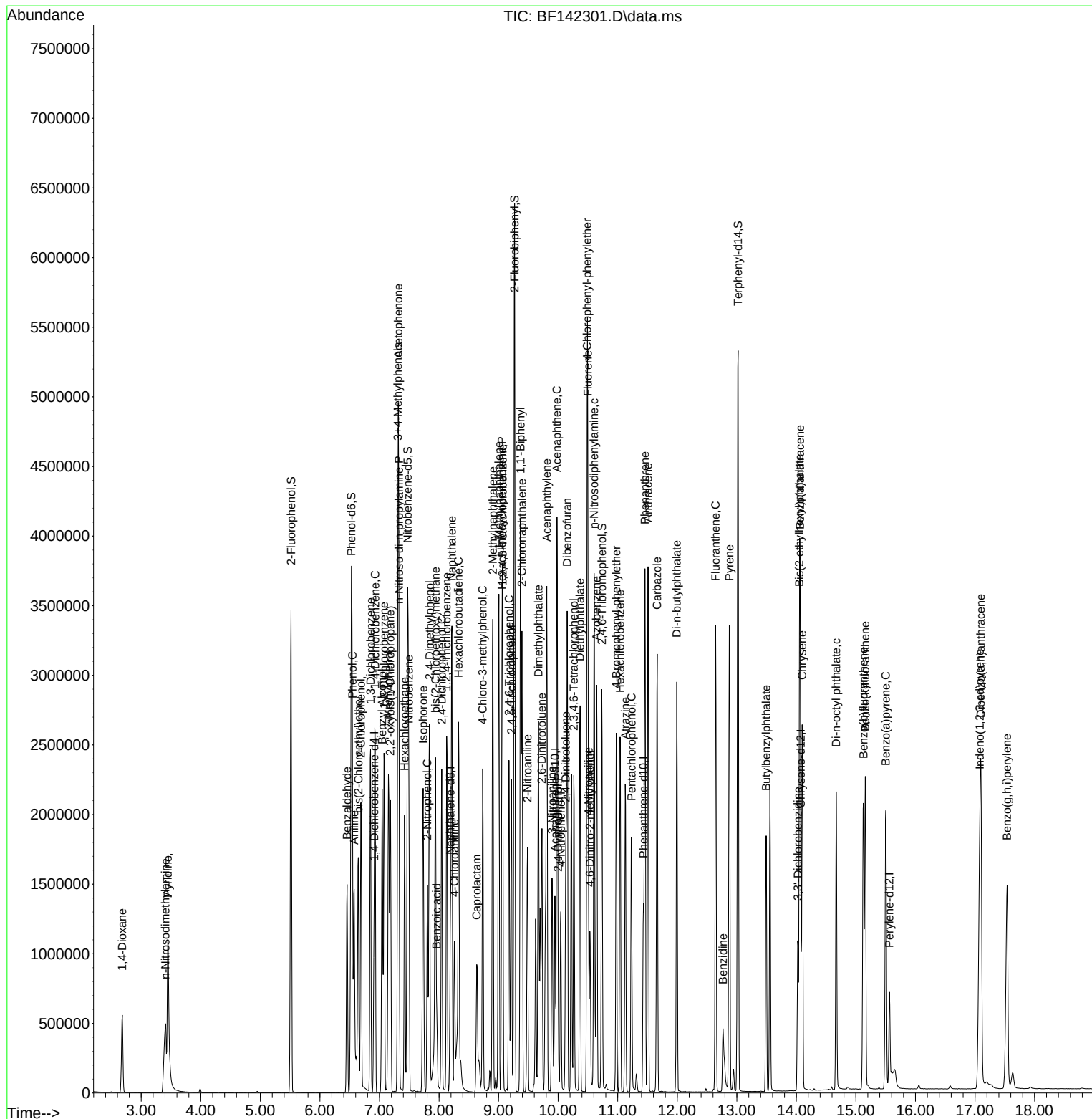
Quant Time: May 05 18:00:55 2025

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon May 05 17:44:56 2025

Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
 Data File : BF142302.D
 Acq On : 05 May 2025 17:15
 Operator : RC/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC080

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/06/2025
 Supervised By :Jagrut Upadhyay 05/06/2025

Quant Time: May 05 18:39:28 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:17:22 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.910	152	205452	20.000	ng	0.00
21) Naphthalene-d8	8.192	136	801101	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	414811	20.000	ng	0.00
64) Phenanthrene-d10	11.433	188	679241	20.000	ng	0.00
76) Chrysene-d12	14.074	240	373928	20.000	ng	0.00
86) Perylene-d12	15.562	264	426614	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1784288	148.254	ng	0.00
7) Phenol-d6	6.534	99	2195377	148.311	ng	0.01
23) Nitrobenzene-d5	7.481	82	2128583	162.047	ng	0.01
42) 2,4,6-Tribromophenol	10.739	330	652850	163.012	ng	0.00
45) 2-Fluorobiphenyl	9.269	172	3617174	124.337	ng	0.00
79) Terphenyl-d14	13.021	244	3360156	133.004	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.687	88	419794	77.457	ng	100
3) Pyridine	3.457	79	1043726	82.025	ng	99
4) n-Nitrosodimethylamine	3.422	42	579736	78.391	ng	99
6) Aniline	6.575	93	1209360	83.294	ng	100
8) 2-Chlorophenol	6.692	128	1007022	78.300	ng	99
10) Phenol	6.551	94	1172548m	74.728	ng	
11) bis(2-Chloroethyl)ether	6.645	93	1143684m	73.913	ng	
12) 1,3-Dichlorobenzene	6.851	146	1066308	72.470	ng	99
13) 1,4-Dichlorobenzene	6.928	146	1063540	71.991	ng	99
14) 1,2-Dichlorobenzene	7.081	146	1030293	72.657	ng	99
15) Benzyl Alcohol	7.051	79	799114	83.370	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.186	45	1679925	72.703	ng	99
17) 2-Methylphenol	7.157	107	803596	77.177	ng	98
18) Hexachloroethane	7.422	117	380705	77.452	ng	99
19) n-Nitroso-di-n-propyla...	7.334	70	688261	75.168	ng	97
20) 3+4-Methylphenols	7.316	107	921424	70.906	ng	# 89
22) Acetophenone	7.322	105	1245347	69.916	ng	# 94
24) Nitrobenzene	7.498	77	978534	79.029	ng	97
25) Isophorone	7.739	82	1916388	77.044	ng	100
26) 2-Nitrophenol	7.810	139	496348	80.172	ng	99
27) 2,4-Dimethylphenol	7.839	122	958602	76.651	ng	100
28) bis(2-Chloroethoxy)met...	7.939	93	1171369	73.236	ng	100
29) 2,4-Dichlorophenol	8.045	162	832329	78.283	ng	100
30) 1,2,4-Trichlorobenzene	8.133	180	868126	72.551	ng	99
31) Naphthalene	8.216	128	2675722	68.916	ng	99
32) Benzoic acid	7.975	122	622313m	79.184	ng	
33) 4-Chloroaniline	8.263	127	1251630m	79.003	ng	
34) Hexachlorobutadiene	8.333	225	520499	73.460	ng	99
35) Caprolactam	8.651	113	261433m	84.368	ng	
36) 4-Chloro-3-methylphenol	8.739	107	840535	76.050	ng	100
37) 2-Methylnaphthalene	8.904	142	1669985	69.220	ng	98
38) 1-Methylnaphthalene	9.004	142	1714046	68.165	ng	99
40) 1,2,4,5-Tetrachloroben...	9.069	216	849773	73.349	ng	99
41) Hexachlorocyclopentadiene	9.057	237	612608	85.560	ng	100
43) 2,4,6-Trichlorophenol	9.180	196	605787	82.898	ng	99
44) 2,4,5-Trichlorophenol	9.216	196	611514	78.648	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
 Data File : BF142302.D
 Acq On : 05 May 2025 17:15
 Operator : RC/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC080

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/06/2025
 Supervised By :Jagrut Upadhyay 05/06/2025

Quant Time: May 05 18:39:28 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:17:22 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	9.369	154	2173202	68.328	ng	99
47) 2-Chloronaphthalene	9.398	162	1688751	71.397	ng	99
48) 2-Nitroaniline	9.486	65	547789	90.354	ng	98
49) Acenaphthylene	9.810	152	2763028	69.830	ng	98
50) Dimethylphthalate	9.675	163	1968431	73.901	ng	100
51) 2,6-Dinitrotoluene	9.733	165	437098	87.669	ng	93
52) Acenaphthene	9.986	154	1694020	71.203	ng	99
53) 3-Nitroaniline	9.904	138	510152	87.244	ng	96
54) 2,4-Dinitrophenol	10.004	184	210652	80.686	ng #	3
55) Dibenzofuran	10.157	168	2410169	68.642	ng	98
56) 4-Nitrophenol	10.051	139	383978	87.250	ng	97
57) 2,4-Dinitrotoluene	10.133	165	566575	88.591	ng	99
58) Fluorene	10.498	166	1792549	66.896	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.269	232	520638	81.113	ng	98
60) Diethylphthalate	10.369	149	1909012	71.766	ng	99
61) 4-Chlorophenyl-phenyle...	10.486	204	888242	68.707	ng	98
62) 4-Nitroaniline	10.516	138	323923	69.894	ng	99
63) Azobenzene	10.651	77	1821504	71.660	ng	99
65) 4,6-Dinitro-2-methylph...	10.539	198	273917	80.746	ng	96
66) n-Nitrosodiphenylamine	10.610	169	1658390	73.372	ng	100
67) 4-Bromophenyl-phenylether	10.980	248	590568	76.716	ng	98
68) Hexachlorobenzene	11.045	284	650802	76.857	ng	96
69) Atrazine	11.133	200	476112	79.910	ng	99
70) Pentachlorophenol	11.233	266	390517	87.666	ng	97
71) Phenanthrene	11.463	178	2460275	69.101	ng	98
72) Anthracene	11.516	178	2518162	68.834	ng	99
73) Carbazole	11.663	167	2274167	69.290	ng	99
74) Di-n-butylphthalate	11.992	149	2521480	73.060	ng	99
75) Fluoranthene	12.645	202	2345160	65.892	ng	99
77) Benzidine	12.774	184	504643	74.263	ng	99
78) Pyrene	12.874	202	2325631	69.874	ng	99
80) Butylbenzylphthalate	13.492	149	788213	78.621	ng	99
81) Benzo(a)anthracene	14.063	228	1782801	73.621	ng	99
82) 3,3'-Dichlorobenzidine	14.027	252	474263	84.217	ng	99
83) Chrysene	14.104	228	1687889	74.873	ng	99
84) Bis(2-ethylhexyl)phtha...	14.051	149	1042846	79.404	ng	100
85) Di-n-octyl phthalate	14.668	149	1969676	80.100	ng	99
87) Indeno(1,2,3-cd)pyrene	17.086	276	2392344	80.614	ng	100
88) Benzo(b)fluoranthene	15.127	252	1972745	76.350	ng	99
89) Benzo(k)fluoranthene	15.162	252	1653244	69.919	ng	100
90) Benzo(a)pyrene	15.504	252	1797975	77.653	ng	100
91) Dibenzo(a,h)anthracene	17.109	278	1926135	78.562	ng	99
92) Benzo(g,h,i)perylene	17.551	276	1951121	80.182	ng	99

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

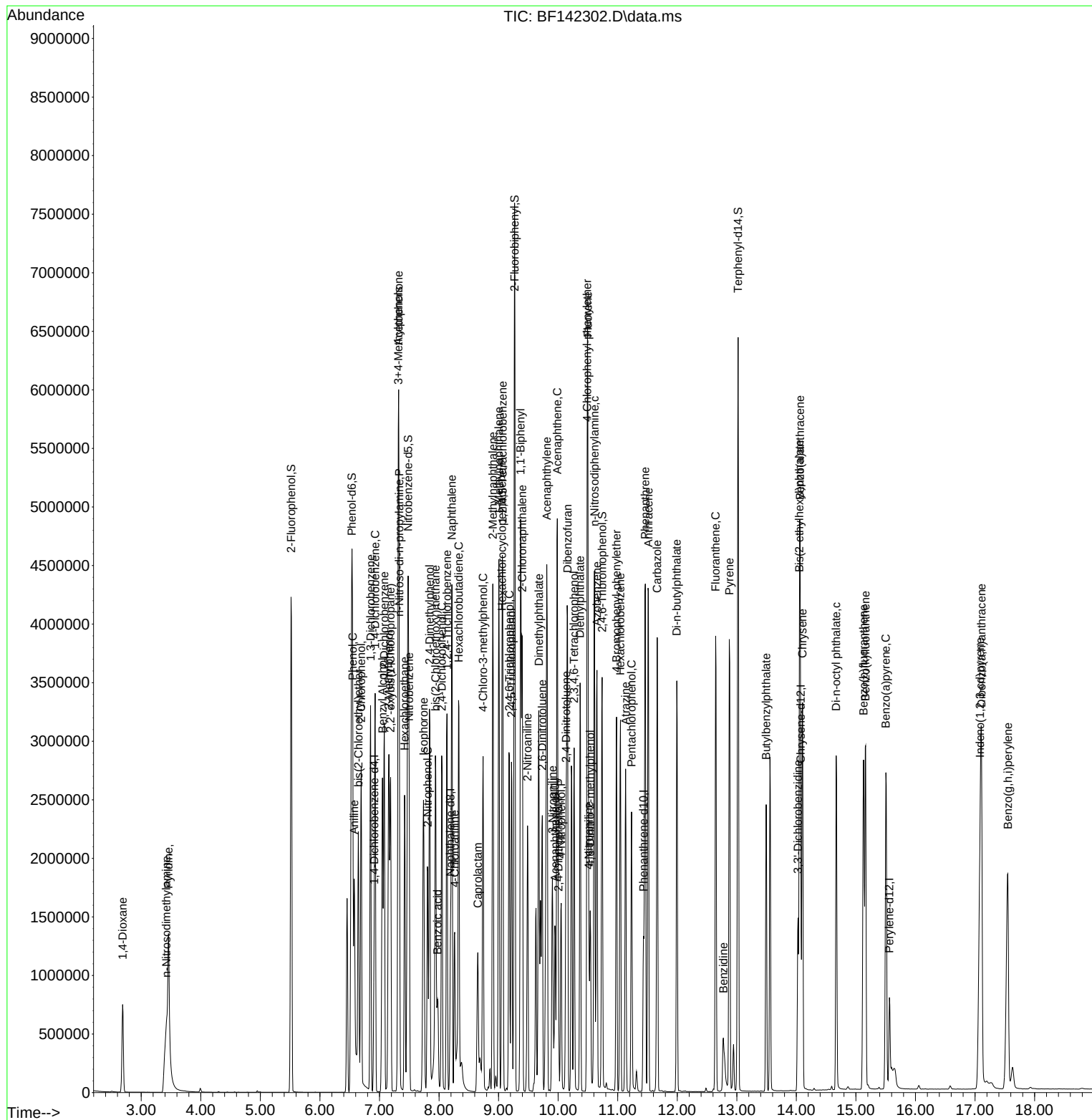
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Data File : BF142302.D  
Acq On    : 05 May 2025  17:15  
Operator  : RC/JU  
Sample    : SSTDICC080  
Misc      :  
ALS Vial  : 9    Sample Multiplier: 1
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Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/06/2025
Supervised By :Jagrut Upadhyay 05/06/2025

Quant Time: May 05 18:39:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:17:22 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
 Data File : BF142303.D
 Acq On : 05 May 2025 18:13
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF050525

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/06/2025
 Supervised By :Jagrut Upadhyay 05/06/2025

Quant Time: May 05 18:41:57 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	230180	20.000	ng	0.00
21) Naphthalene-d8	8.187	136	893807	20.000	ng	0.00
39) Acenaphthene-d10	9.945	164	478877	20.000	ng	0.00
64) Phenanthrene-d10	11.433	188	810843	20.000	ng	0.00
76) Chrysene-d12	14.074	240	446151	20.000	ng	0.00
86) Perylene-d12	15.563	264	447218	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1038606	77.026	ng	0.00
7) Phenol-d6	6.522	99	1267516	76.429	ng	0.00
23) Nitrobenzene-d5	7.469	82	1224734	83.567	ng	0.00
42) 2,4,6-Tribromophenol	10.733	330	384712	83.209	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	2396964	71.371	ng	0.00
79) Terphenyl-d14	13.016	244	2301923	76.366	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.687	88	231020	38.046	ng	99
3) Pyridine	3.452	79	584384	40.992	ng	99
4) n-Nitrosodimethylamine	3.405	42	317717	38.346	ng	100
6) Aniline	6.569	93	686015	42.173	ng	99
8) 2-Chlorophenol	6.687	128	572045	39.701	ng	100
9) Benzaldehyde	6.457	77	330476	34.048	ng	100
10) Phenol	6.540	94	676388m	38.399	ng	
11) bis(2-Chloroethyl)ether	6.640	93	624602m	36.030	ng	
12) 1,3-Dichlorobenzene	6.845	146	616110	37.375	ng	99
13) 1,4-Dichlorobenzene	6.922	146	623676	37.681	ng	99
14) 1,2-Dichlorobenzene	7.075	146	600086	37.772	ng	99
15) Benzyl Alcohol	7.045	79	436337	40.632	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.181	45	983896	38.006	ng	100
17) 2-Methylphenol	7.151	107	454505	38.961	ng	100
18) Hexachloroethane	7.422	117	218260	39.633	ng	100
19) n-Nitroso-di-n-propyla...	7.322	70	394300	38.437	ng	98
20) 3+4-Methylphenols	7.304	107	569096	39.089	ng	97
22) Acetophenone	7.316	105	745621	37.519	ng	99
24) Nitrobenzene	7.487	77	572370	41.431	ng	99
25) Isophorone	7.728	82	1066427	38.426	ng	99
26) 2-Nitrophenol	7.804	139	276219	42.037	ng	99
27) 2,4-Dimethylphenol	7.834	122	542819	38.903	ng	98
28) bis(2-Chloroethoxy)met...	7.934	93	681438	38.186	ng	99
29) 2,4-Dichlorophenol	8.039	162	482996	40.715	ng	99
30) 1,2,4-Trichlorobenzene	8.128	180	500471	37.487	ng	99
31) Naphthalene	8.210	128	1645769	37.992	ng	100
32) Benzoic acid	7.939	122	311574m	43.072	ng	
33) 4-Chloroaniline	8.257	127	706603m	39.993	ng	
34) Hexachlorobutadiene	8.328	225	304456	38.512	ng	100
35) Caprolactam	8.622	113	143456	41.494	ng	96
36) 4-Chloro-3-methylphenol	8.728	107	489740	39.715	ng	99
37) 2-Methylnaphthalene	8.898	142	1013246	37.643	ng	98
38) 1-Methylnaphthalene	8.998	142	1052686	37.522	ng	100
40) 1,2,4,5-Tetrachloroben...	9.069	216	502278	37.555	ng	99
41) Hexachlorocyclopentadiene	9.057	237	347327	42.020	ng	99
43) 2,4,6-Trichlorophenol	9.175	196	347673	41.212	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
 Data File : BF142303.D
 Acq On : 05 May 2025 18:13
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF050525

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/06/2025
 Supervised By :Jagrut Upadhyay 05/06/2025

Quant Time: May 05 18:41:57 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

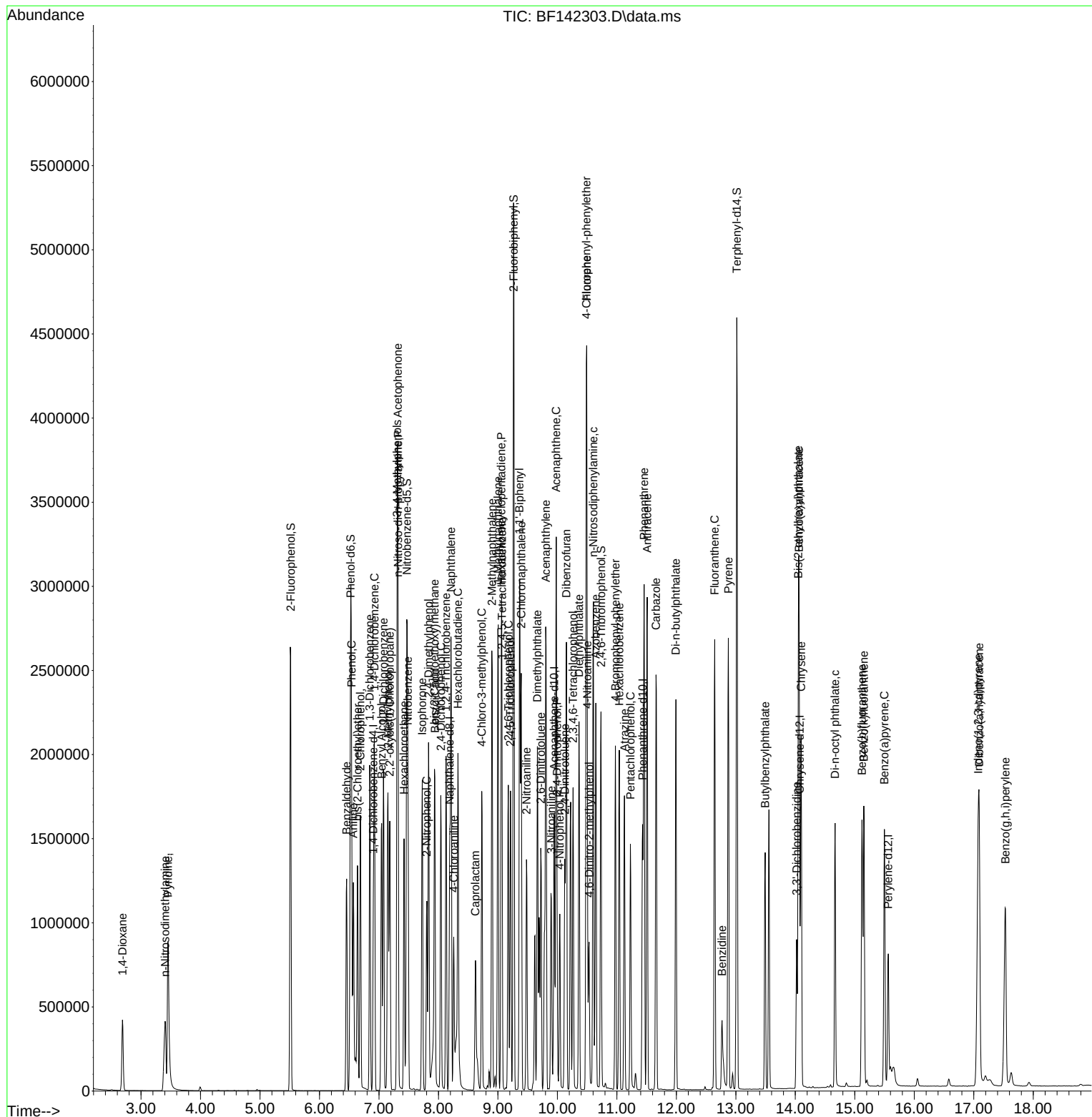
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	358022	39.886	ng	99
46) 1,1'-Biphenyl	9.363	154	1368945	37.283	ng	100
47) 2-Chloronaphthalene	9.392	162	1019130	37.323	ng	100
48) 2-Nitroaniline	9.481	65	312727	44.681	ng	99
49) Acenaphthylene	9.804	152	1728165	37.833	ng	100
50) Dimethylphthalate	9.663	163	1173252	38.154	ng	100
51) 2,6-Dinitrotoluene	9.722	165	257792	44.788	ng	96
52) Acenaphthene	9.981	154	1029833	37.495	ng	99
53) 3-Nitroaniline	9.898	138	291556	43.190	ng	95
54) 2,4-Dinitrophenol	9.992	184	114850	42.149	ng	85
55) Dibenzofuran	10.151	168	1506186	37.158	ng	99
56) 4-Nitrophenol	10.039	139	225481	44.381	ng	98
57) 2,4-Dinitrotoluene	10.128	165	334070	45.248	ng	97
58) Fluorene	10.492	166	1135685	36.712	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.263	232	308477	41.630	ng	99
60) Diethylphthalate	10.363	149	1168902	38.064	ng	100
61) 4-Chlorophenyl-phenyle...	10.486	204	549616	36.826	ng	99
62) 4-Nitroaniline	10.504	138	210408	39.327	ng	99
63) Azobenzene	10.645	77	1112390	37.908	ng	100
65) 4,6-Dinitro-2-methylph...	10.533	198	152861	41.574	ng	99
66) n-Nitrosodiphenylamine	10.604	169	1027891	38.096	ng	99
67) 4-Bromophenyl-phenylether	10.975	248	352033	38.308	ng	99
68) Hexachlorobenzene	11.039	284	386876	38.273	ng	98
69) Atrazine	11.128	200	291834	41.032	ng	99
70) Pentachlorophenol	11.228	266	233208	43.855	ng	98
71) Phenanthrene	11.457	178	1591319	37.441	ng	100
72) Anthracene	11.510	178	1633756	37.410	ng	100
73) Carbazole	11.657	167	1466436	37.428	ng	100
74) Di-n-butylphthalate	11.992	149	1635344	39.694	ng	100
75) Fluoranthene	12.645	202	1560552	36.731	ng	100
77) Benzidine	12.769	184	349742	43.136	ng	100
78) Pyrene	12.874	202	1553540	39.120	ng	100
80) Butylbenzylphthalate	13.492	149	451916	39.681	ng	99
81) Benzo(a)anthracene	14.063	228	1121831	38.827	ng	99
82) 3,3'-Dichlorobenzidine	14.021	252	278603	41.464	ng	100
83) Chrysene	14.098	228	987170	36.701	ng	99
84) Bis(2-ethylhexyl)phtha...	14.051	149	576295	39.051	ng	99
85) Di-n-octyl phthalate	14.668	149	1053573	40.234	ng	99
87) Indeno(1,2,3-cd)pyrene	17.074	276	1258449	40.452	ng	100
88) Benzo(b)fluoranthene	15.121	252	1055207	38.957	ng	99
89) Benzo(k)fluoranthene	15.151	252	885574	35.727	ng	99
90) Benzo(a)pyrene	15.498	252	943474	38.871	ng	100
91) Dibenzo(a,h)anthracene	17.092	278	1030211	40.084	ng	100
92) Benzo(g,h,i)perylene	17.533	276	1024727	40.171	ng	98

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

Instrument :
BNA_F
ClientSampleId :
ICVBF050525

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/06/2025
Supervised By :Jagrut Upadhyay 05/06/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
 Data File : BF142303.D
 Acq On : 05 May 2025 18:13
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF050525

Quant Time: May 05 18:41:57 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
2	1,4-Dioxane	0.528	0.502	4.9	107	0.00
3	Pyridine	1.239	1.269	-2.4	116	0.00
4	n-Nitrosodimethylamine	0.720	0.690	4.2	106	0.00
5 S	2-Fluorophenol	1.172	1.128	3.8	107	0.00
6	Aniline	1.413	1.490	-5.4	109	0.00
7 S	Phenol-d6	1.441	1.377	4.4	107	0.00
8	2-Chlorophenol	1.252	1.243	0.7	109	0.00
9	Benzaldehyde	0.843	0.718	14.8	105	0.00
10 C	Phenol	1.527	1.469	3.8	107	0.00
11	bis(2-Chloroethyl)ether	1.506	1.357	9.9	107	0.00
12	1,3-Dichlorobenzene	1.432	1.338	6.6	106	0.00
13 C	1,4-Dichlorobenzene	1.438	1.355	5.8	106	0.00
14	1,2-Dichlorobenzene	1.380	1.304	5.5	106	0.00
15	Benzyl Alcohol	0.933	0.948	-1.6	109	0.00
16	2,2'-oxybis(1-Chloropropane	2.249	2.137	5.0	107	0.00
17	2-Methylphenol	1.014	0.987	2.7	109	0.00
18	Hexachloroethane	0.478	0.474	0.8	110	0.00
19 P	n-Nitroso-di-n-propylamine	0.891	0.857	3.8	107	0.00
20	3+4-Methylphenols	1.265	1.236	2.3	109	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	106	0.00
22	Acetophenone	0.445	0.417	6.3	106	0.00
23 S	Nitrobenzene-d5	0.328	0.343	-4.6	111	0.00
24	Nitrobenzene	0.309	0.320	-3.6	111	0.00
25	Isophorone	0.621	0.597	3.9	108	0.00
26 C	2-Nitrophenol	0.129	0.155	-20.2#	124	0.00
27	2,4-Dimethylphenol	0.312	0.304	2.6	108	0.00
28	bis(2-Chloroethoxy)methane	0.399	0.381	4.5	108	0.00
29 C	2,4-Dichlorophenol	0.265	0.270	-1.9	109	0.00
30	1,2,4-Trichlorobenzene	0.299	0.280	6.4	106	0.00
31	Naphthalene	0.969	0.921	5.0	108	0.00
32	Benzoic acid	0.150	0.174	-16.0	132	0.00
33	4-Chloroaniline	0.396	0.395	0.3	109	0.00
34 C	Hexachlorobutadiene	0.177	0.170	4.0	108	0.00
35	Caprolactam	0.077	0.080	-3.9	108	0.00
36 C	4-Chloro-3-methylphenol	0.276	0.274	0.7	110	0.00
37	2-Methylnaphthalene	0.602	0.567	5.8	106	0.00
38	1-Methylnaphthalene	0.628	0.589	6.2	105	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	106	0.00
40	1,2,4,5-Tetrachlorobenzene	0.559	0.524	6.3	107	0.00
41 P	Hexachlorocyclopentadiene	0.345	0.363	-5.2	111	0.00
42 S	2,4,6-Tribromophenol	0.193	0.201	-4.1	111	0.00
43 C	2,4,6-Trichlorophenol	0.352	0.363	-3.1	109	0.00
44	2,4,5-Trichlorophenol	0.375	0.374	0.3	109	0.00
45 S	2-Fluorobiphenyl	1.403	1.251	10.8	104	0.00
46	1,1'-Biphenyl	1.533	1.429	6.8	107	0.00
47	2-Chloronaphthalene	1.140	1.064	6.7	106	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
 Data File : BF142303.D
 Acq On : 05 May 2025 18:13
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF050525

Quant Time: May 05 18:41:57 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	2-Nitroaniline	0.292	0.327	-12.0	116	0.00
49	Acenaphthylene	1.908	1.804	5.5	107	0.00
50	Dimethylphthalate	1.284	1.225	4.6	107	0.00
51	2,6-Dinitrotoluene	0.240	0.269	-12.1	116	0.00
52 C	Acenaphthene	1.147	1.075	6.3	106	0.00
53	3-Nitroaniline	0.282	0.304	-7.8	112	0.00
54 P	2,4-Dinitrophenol	0.102	0.120	-17.6	130	0.00
55	Dibenzofuran	1.693	1.573	7.1	107	0.00
56 P	4-Nitrophenol	0.212	0.235	-10.8	116	0.00
57	2,4-Dinitrotoluene	0.308	0.349	-13.3	116	0.00
58	Fluorene	1.292	1.186	8.2	105	0.00
59	2,3,4,6-Tetrachlorophenol	0.309	0.322	-4.2	111	0.00
60	Diethylphthalate	1.283	1.220	4.9	107	0.00
61	4-Chlorophenyl-phenylether	0.623	0.574	7.9	105	0.00
62	4-Nitroaniline	0.223	0.220	1.3	103	0.00
63	Azobenzene	1.226	1.161	5.3	108	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	107	0.00
65	4,6-Dinitro-2-methylphenol	0.082	0.094	-14.6	124	0.00
66 c	n-Nitrosodiphenylamine	0.666	0.634	4.8	107	0.00
67	4-Bromophenyl-phenylether	0.227	0.217	4.4	107	0.00
68	Hexachlorobenzene	0.249	0.239	4.0	107	0.00
69	Atrazine	0.175	0.180	-2.9	110	0.00
70 C	Pentachlorophenol	0.131	0.144	-9.9	110	0.00
71	Phenanthrene	1.048	0.981	6.4	106	0.00
72	Anthracene	1.077	1.007	6.5	105	0.00
73	Carbazole	0.966	0.904	6.4	104	0.00
74	Di-n-butylphthalate	1.016	1.008	0.8	106	0.00
75 C	Fluoranthene	1.048	0.962	8.2	104	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	100	0.00
77	Benzydine	0.363	0.392	-8.0	109	0.00
78	Pyrene	1.780	1.741	2.2	102	0.00
79 S	Terphenyl-d14	1.351	1.290	4.5	102	0.00
80	Butylbenzylphthalate	0.449	0.506	-12.7	108	0.00
81	Benzo(a)anthracene	1.295	1.257	2.9	101	0.00
82	3,3'-Dichlorobenzidine	0.301	0.312	-3.7	105	0.00
83	Chrysene	1.206	1.106	8.3	100	0.00
84	Bis(2-ethylhexyl)phthalate	0.573	0.646	-12.7	107	0.00
85 c	Di-n-octyl phthalate	1.057	1.181	-11.7	114	0.00
86 I	Perylene-d12	1.000	1.000	0.0	105	0.00
87	Indeno(1,2,3-cd)pyrene	1.391	1.407	-1.2	107	0.00
88	Benzo(b)fluoranthene	1.211	1.180	2.6	106	0.00
89	Benzo(k)fluoranthene	1.109	0.990	10.7	100	0.00
90 C	Benzo(a)pyrene	1.085	1.055	2.8	104	0.00
91	Dibenzo(a,h)anthracene	1.149	1.152	-0.3	106	0.00
92	Benzo(g,h,i)perylene	1.141	1.146	-0.4	107	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
Data File : BF142303.D
Acq On : 05 May 2025 18:13
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF050525

Quant Time: May 05 18:41:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range

SPCC's out = 0 CCC's out = 1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
 Data File : BF142303.D
 Acq On : 05 May 2025 18:13
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF050525

Quant Time: May 05 18:41:57 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	107	0.00
2	1,4-Dioxane	40.000	38.046	4.9	107	0.00
3	Pyridine	40.000	40.992	-2.5	116	0.00
4	n-Nitrosodimethylamine	40.000	38.346	4.1	106	0.00
5 S	2-Fluorophenol	80.000	77.026	3.7	107	0.00
6	Aniline	40.000	42.173	-5.4	109	0.00
7 S	Phenol-d6	80.000	76.429	4.5	107	0.00
8	2-Chlorophenol	40.000	39.701	0.7	109	0.00
9	Benzaldehyde	40.000	34.048	14.9	105	0.00
10 C	Phenol	40.000	38.399	4.0	107	0.00
11	bis(2-Chloroethyl)ether	40.000	36.030	9.9	107	0.00
12	1,3-Dichlorobenzene	40.000	37.375	6.6	106	0.00
13 C	1,4-Dichlorobenzene	40.000	37.681	5.8	106	0.00
14	1,2-Dichlorobenzene	40.000	37.772	5.6	106	0.00
15	Benzyl Alcohol	40.000	40.632	-1.6	109	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	38.006	5.0	107	0.00
17	2-Methylphenol	40.000	38.961	2.6	109	0.00
18	Hexachloroethane	40.000	39.633	0.9	110	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	38.437	3.9	107	0.00
20	3+4-Methylphenols	40.000	39.089	2.3	109	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	106	0.00
22	Acetophenone	40.000	37.519	6.2	106	0.00
23 S	Nitrobenzene-d5	80.000	83.567	-4.5	111	0.00
24	Nitrobenzene	40.000	41.431	-3.6	111	0.00
25	Isophorone	40.000	38.426	3.9	108	0.00
26 C	2-Nitrophenol	40.000	42.037	-5.1	124	0.00
27	2,4-Dimethylphenol	40.000	38.903	2.7	108	0.00
28	bis(2-Chloroethoxy)methane	40.000	38.186	4.5	108	0.00
29 C	2,4-Dichlorophenol	40.000	40.715	-1.8	109	0.00
30	1,2,4-Trichlorobenzene	40.000	37.487	6.3	106	0.00
31	Naphthalene	40.000	37.992	5.0	108	0.00
32	Benzoic acid	40.000	43.072	-7.7	132	0.00
33	4-Chloroaniline	40.000	39.993	0.0	109	0.00
34 C	Hexachlorobutadiene	40.000	38.512	3.7	108	0.00
35	Caprolactam	40.000	41.494	-3.7	108	0.00
36 C	4-Chloro-3-methylphenol	40.000	39.715	0.7	110	0.00
37	2-Methylnaphthalene	40.000	37.643	5.9	106	0.00
38	1-Methylnaphthalene	40.000	37.522	6.2	105	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	106	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	37.555	6.1	107	0.00
41 P	Hexachlorocyclopentadiene	40.000	42.020	-5.1	111	0.00
42 S	2,4,6-Tribromophenol	80.000	83.209	-4.0	111	0.00
43 C	2,4,6-Trichlorophenol	40.000	41.212	-3.0	109	0.00
44	2,4,5-Trichlorophenol	40.000	39.886	0.3	109	0.00
45 S	2-Fluorobiphenyl	80.000	71.371	10.8	104	0.00
46	1,1'-Biphenyl	40.000	37.283	6.8	107	0.00
47	2-Chloronaphthalene	40.000	37.323	6.7	106	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
 Data File : BF142303.D
 Acq On : 05 May 2025 18:13
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF050525

Quant Time: May 05 18:41:57 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	2-Nitroaniline	40.000	44.681	-11.7	116	0.00
49	Acenaphthylene	40.000	37.833	5.4	107	0.00
50	Dimethylphthalate	40.000	38.154	4.6	107	0.00
51	2,6-Dinitrotoluene	40.000	44.788	-12.0	116	0.00
52 C	Acenaphthene	40.000	37.495	6.3	106	0.00
53	3-Nitroaniline	40.000	43.190	-8.0	112	0.00
54 P	2,4-Dinitrophenol	40.000	42.149	-5.4	130	0.00
55	Dibenzofuran	40.000	37.158	7.1	107	0.00
56 P	4-Nitrophenol	40.000	44.381	-11.0	116	0.00
57	2,4-Dinitrotoluene	40.000	45.248	-13.1	116	0.00
58	Fluorene	40.000	36.712	8.2	105	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	41.630	-4.1	111	0.00
60	Diethylphthalate	40.000	38.064	4.8	107	0.00
61	4-Chlorophenyl-phenylether	40.000	36.826	7.9	105	0.00
62	4-Nitroaniline	40.000	39.327	1.7	103	0.00
63	Azobenzene	40.000	37.908	5.2	108	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	107	0.00
65	4,6-Dinitro-2-methylphenol	40.000	41.574	-3.9	124	0.00
66 c	n-Nitrosodiphenylamine	40.000	38.096	4.8	107	0.00
67	4-Bromophenyl-phenylether	40.000	38.308	4.2	107	0.00
68	Hexachlorobenzene	40.000	38.273	4.3	107	0.00
69	Atrazine	40.000	41.032	-2.6	110	0.00
70 C	Pentachlorophenol	40.000	43.855	-9.6	110	0.00
71	Phenanthrene	40.000	37.441	6.4	106	0.00
72	Anthracene	40.000	37.410	6.5	105	0.00
73	Carbazole	40.000	37.428	6.4	104	0.00
74	Di-n-butylphthalate	40.000	39.694	0.8	106	0.00
75 C	Fluoranthene	40.000	36.731	8.2	104	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	100	0.00
77	Benzydine	40.000	43.136	-7.8	109	0.00
78	Pyrene	40.000	39.120	2.2	102	0.00
79 S	Terphenyl-d14	80.000	76.366	4.5	102	0.00
80	Butylbenzylphthalate	40.000	39.681	0.8	108	0.00
81	Benzo(a)anthracene	40.000	38.827	2.9	101	0.00
82	3,3'-Dichlorobenzidine	40.000	41.464	-3.7	105	0.00
83	Chrysene	40.000	36.701	8.2	100	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	39.051	2.4	107	0.00
85 c	Di-n-octyl phthalate	40.000	40.234	-0.6	114	0.00
86 I	Perylene-d12	20.000	20.000	0.0	105	0.00
87	Indeno(1,2,3-cd)pyrene	40.000	40.452	-1.1	107	0.00
88	Benzo(b)fluoranthene	40.000	38.957	2.6	106	0.00
89	Benzo(k)fluoranthene	40.000	35.727	10.7	100	0.00
90 C	Benzo(a)pyrene	40.000	38.871	2.8	104	0.00
91	Dibenzo(a,h)anthracene	40.000	40.084	-0.2	106	0.00
92	Benzo(g,h,i)perylene	40.000	40.171	-0.4	107	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
Data File : BF142303.D
Acq On : 05 May 2025 18:13
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF050525

Quant Time: May 05 18:41:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032
 Instrument ID: BNA_P Calibration Date(s): 05/13/2025 05/13/2025
 Calibration Time(s): 10:41 15:26

LAB FILE ID:		RRF2.5 = BP024614.D			RRF005 = BP024615.D		RRF010 = BP024616.D	
		RRF020 = BP024617.D			RRF040 = BP024618.D		RRF050 = BP024619.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.134	1.096	1.162	1.105	1.272	1.169	5.5
Benzaldehyde		0.991	1.008	1.046	0.955	1.043	0.966	9.9
Phenol-d6		1.301	1.344	1.486	1.472	1.671	1.492	9.1
Phenol		1.373	1.401	1.526	1.509	1.707	1.540	8.2
bis(2-Chloroethyl) ether		1.317	1.170	1.257	1.213	1.357	1.266	5.0
2-Chlorophenol		1.200	1.204	1.311	1.303	1.465	1.327	7.8
2-Methylphenol		0.966	0.949	1.105	1.099	1.246	1.105	10.3
2,2-oxybis(1-Chloropropane)		1.543	1.445	1.520	1.467	1.617	1.516	4.2
Acetophenone		0.486	0.481	0.511	0.483	0.534	0.500	4.0
3+4-Methylphenols		1.221	1.302	1.503	1.515	1.702	1.503	12.2
n-Nitroso-di-n-propylamine	0.880	0.977	0.967	1.086	1.048	1.142	1.032	8.6
Nitrobenzene-d5		0.381	0.376	0.401	0.382	0.429	0.396	4.7
Hexachloroethane		0.606	0.591	0.582	0.551	0.623	0.589	4.0
Nitrobenzene		0.333	0.340	0.355	0.337	0.373	0.348	4.0
Isophorone		0.644	0.640	0.695	0.673	0.753	0.687	5.9
2-Nitrophenol		0.135	0.143	0.168	0.172	0.196	0.171	14.1
2,4-Dimethylphenol		0.273	0.279	0.300	0.298	0.329	0.301	6.6
bis(2-Chloroethoxy) methane		0.403	0.391	0.411	0.399	0.443	0.410	4.1
2,4-Dichlorophenol		0.250	0.258	0.290	0.291	0.327	0.292	10.0
Naphthalene		1.064	1.026	1.049	0.980	1.091	1.036	3.5
4-Chloroaniline		0.348	0.371	0.420	0.418	0.465	0.418	10.6
Hexachlorobutadiene		0.231	0.214	0.211	0.198	0.222	0.213	5.1
Caprolactam		0.082	0.092	0.104	0.109	0.121	0.106	13.8
4-Chloro-3-methylphenol		0.316	0.325	0.358	0.356	0.391	0.356	7.8
2-Methylnaphthalene		0.673	0.654	0.670	0.640	0.713	0.671	3.7
Hexachlorocyclopentadiene		0.250	0.276	0.350	0.356	0.420	0.352	19.0
2,4,6-Trichlorophenol		0.305	0.341	0.375	0.371	0.428	0.376	11.3
2-Fluorobiphenyl		1.601	1.498	1.553	1.432	1.602	1.527	4.1
2,4,5-Trichlorophenol		0.376	0.375	0.418	0.404	0.471	0.419	8.7
1,1-Biphenyl		1.524	1.434	1.492	1.383	1.586	1.478	4.4
2-Chloronaphthalene		1.147	1.106	1.131	1.065	1.196	1.127	3.6
2-Nitroaniline		0.279	0.304	0.331	0.335	0.381	0.334	10.3
Dimethylphthalate		1.570	1.527	1.518	1.450	1.611	1.524	3.7
Acenaphthylene		1.845	1.818	1.920	1.804	2.029	1.886	4.2

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032
 Instrument ID: BNA_P Calibration Date(s): 05/13/2025 05/13/2025
 Calibration Time(s): 10:41 15:26

LAB FILE ID:		RRF2.5 = BP024614.D			RRF005 = BP024615.D		RRF010 = BP024616.D	
		RRF020 = BP024617.D			RRF040 = BP024618.D		RRF050 = BP024619.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.299	0.308	0.326	0.312	0.354	0.322	5.8
3-Nitroaniline		0.258	0.275	0.329	0.340	0.379	0.329	14.0
Acenaphthene		1.105	1.054	1.094	1.028	1.159	1.084	4.0
2,4-Dinitrophenol			0.098	0.143	0.172	0.201	0.169	24.8
4-Nitrophenol			0.159	0.222	0.257	0.299	0.250	20.8
Dibenzofuran		1.810	1.716	1.740	1.633	1.816	1.730	4.0
2,4-Dinitrotoluene		0.400	0.422	0.456	0.454	0.508	0.454	7.9
Diethylphthalate		1.593	1.542	1.537	1.444	1.639	1.541	4.4
4-Chlorophenyl-phenylether		0.752	0.697	0.700	0.656	0.741	0.703	5.0
Fluorene		1.466	1.415	1.410	1.336	1.494	1.410	4.1
4-Nitroaniline		0.228	0.259	0.326	0.330	0.375	0.317	17.1
4,6-Dinitro-2-methylphenol			0.094	0.120	0.129	0.149	0.129	15.6
n-Nitrosodiphenylamine		0.603	0.589	0.627	0.593	0.667	0.614	4.4
2,4,6-Tribromophenol		0.324	0.321	0.335	0.323	0.369	0.339	5.5
4-Bromophenyl-phenylether		0.231	0.223	0.237	0.226	0.252	0.236	4.3
Hexachlorobenzene		0.303	0.288	0.298	0.282	0.321	0.299	4.2
Atrazine		0.210	0.209	0.227	0.218	0.248	0.225	6.3
Pentachlorophenol		0.124	0.137	0.163	0.172	0.198	0.168	17.1
Phenanthrene		1.144	1.085	1.125	1.051	1.170	1.112	3.7
Anthracene		1.097	1.064	1.142	1.075	1.205	1.119	4.3
Carbazole		0.923	0.944	1.039	1.001	1.114	1.012	6.4
Di-n-butylphthalate		1.182	1.218	1.332	1.260	1.447	1.302	7.0
Fluoranthene		1.271	1.254	1.314	1.250	1.399	1.300	4.2
Pyrene		1.184	1.137	1.197	1.153	1.273	1.198	3.8
Terphenyl-d14		1.192	1.113	1.165	1.125	1.226	1.166	3.3
Butylbenzylphthalate		0.458	0.465	0.537	0.527	0.604	0.533	10.3
3,3-Dichlorobenzidine		0.357	0.392	0.474	0.477	0.539	0.466	14.5
Benzo (a) anthracene		1.251	1.218	1.253	1.208	1.336	1.256	3.4
Chrysene		1.214	1.180	1.185	1.131	1.255	1.190	3.2
Bis (2-ethylhexyl) phthalate		0.673	0.683	0.801	0.766	0.884	0.783	10.3
Di-n-octyl phthalate		1.048	1.116	1.272	1.280	1.458	1.281	12.0
Benzo (b) fluoranthene		1.028	1.070	1.152	1.103	1.288	1.145	7.6
Benzo (k) fluoranthene		1.147	1.106	1.182	1.140	1.258	1.180	4.6
Benzo (a) pyrene		0.995	1.001	1.112	1.064	1.221	1.099	7.7
Indeno (1,2,3-cd) pyrene		1.341	1.357	1.447	1.424	1.608	1.460	6.7

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032
 Instrument ID: BNA_P Calibration Date(s): 05/13/2025 05/13/2025
 Calibration Time(s): 10:41 15:26

LAB FILE ID:		RRF2.5 = BP024614.D		RRF005 = BP024615.D		RRF010 = BP024616.D		
		RRF020 = BP024617.D		RRF040 = BP024618.D		RRF050 = BP024619.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo(a,h)anthracene		1.068	1.066	1.186	1.167	1.321	1.188	8.2
Benzo(g,h,i)perylene		1.101	1.106	1.167	1.147	1.294	1.181	6.1
1,2,4,5-Tetrachlorobenzene		0.593	0.558	0.574	0.549	0.625	0.581	4.3
1,4-Dioxane		0.641	0.557	0.535	0.505	0.562	0.549	8.3
2,3,4,6-Tetrachlorophenol		0.367	0.364	0.381	0.379	0.428	0.388	5.9

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

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

Calibration Files

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

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.641	0.557	0.535	0.505	0.562	0.530	0.513	0.549	8.31	
3)	Pyridine	1.054	1.135	1.202	1.198	1.363	1.307	1.263	1.218	8.57	
4)	n-Nitrosodimet...	0.536	0.507	0.527	0.517	0.580	0.557	0.537	0.538	4.61	
5) S	2-Fluorophenol	1.134	1.096	1.162	1.105	1.272	1.223	1.193	1.169	5.50	
6)	Aniline	1.717	1.703	1.932	1.917	2.130	2.091	1.999	1.927	8.67	
7) S	Phenol-d6	1.301	1.344	1.486	1.472	1.671	1.620	1.552	1.492	9.09	
8)	2-Chlorophenol	1.200	1.204	1.311	1.303	1.465	1.433	1.376	1.327	7.83	
9)	Benzaldehyde	0.991	1.008	1.046	0.955	1.043	0.954	0.766	0.966	9.91	
10) C	Phenol	1.373	1.401	1.526	1.509	1.707	1.670	1.597	1.540	8.24	
11)	bis(2-Chloroet...	1.317	1.170	1.257	1.213	1.357	1.299	1.247	1.266	5.04	
12)	1,3-Dichlorobe...	1.596	1.487	1.520	1.440	1.622	1.546	1.480	1.527	4.29	
13) C	1,4-Dichlorobe...	1.558	1.505	1.525	1.470	1.637	1.567	1.491	1.536	3.67	
14)	1,2-Dichlorobe...	1.530	1.467	1.498	1.426	1.579	1.529	1.449	1.497	3.56	
15)	Benzyl Alcohol	0.883	0.950	1.128	1.149	1.306	1.288	1.236	1.134	14.43	
16)	2,2'-oxybis(1-...	1.543	1.445	1.520	1.467	1.617	1.564	1.454	1.516	4.22	
17)	2-Methylphenol	0.966	0.949	1.105	1.099	1.246	1.213	1.154	1.105	10.30	
18)	Hexachloroethane	0.606	0.591	0.582	0.551	0.623	0.597	0.570	0.589	4.04	
19) P	n-Nitroso-di-n...	0.880	0.977	0.967	1.086	1.048	1.142	1.132	1.026	1.032	8.63
20)	3+4-Methylphenols	1.221	1.302	1.503	1.515	1.702	1.692	1.584	1.503	12.21	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.486	0.481	0.511	0.483	0.534	0.512	0.491	0.500	3.97	
23) S	Nitrobenzene-d5	0.381	0.376	0.401	0.382	0.429	0.408	0.394	0.396	4.67	
24)	Nitrobenzene	0.333	0.340	0.355	0.337	0.373	0.356	0.344	0.348	4.03	
25)	Isophorone	0.644	0.640	0.695	0.673	0.753	0.721	0.682	0.687	5.91	
26) C	2-Nitrophenol	0.135	0.143	0.168	0.172	0.196	0.192	0.189	0.171	14.05	
27)	2,4-Dimethylph...	0.273	0.279	0.300	0.298	0.329	0.318	0.309	0.301	6.60	
28)	bis(2-Chloroet...	0.403	0.391	0.411	0.399	0.443	0.419	0.405	0.410	4.15	
29) C	2,4-Dichloroph...	0.250	0.258	0.290	0.291	0.327	0.316	0.309	0.292	9.96	
30)	1,2,4-Trichlor...	0.346	0.322	0.327	0.306	0.347	0.329	0.323	0.329	4.33	
31)	Naphthalene	1.064	1.026	1.049	0.980	1.091	1.037	1.007	1.036	3.54	
32)	Benzoic acid		0.089	0.146	0.191	0.215	0.220	0.225	0.181	29.55	
33)	4-Chloroaniline	0.348	0.371	0.420	0.418	0.465	0.462	0.442	0.418	10.62	
34) C	Hexachlorobuta...	0.231	0.214	0.211	0.198	0.222	0.209	0.206	0.213	5.08	
35)	Caprolactam	0.082	0.092	0.104	0.109	0.121	0.121	0.110	0.106	13.80	
36) C	4-Chloro-3-met...	0.316	0.325	0.358	0.356	0.391	0.384	0.359	0.356	7.78	
37)	2-Methylnaphth...	0.673	0.654	0.670	0.640	0.713	0.693	0.654	0.671	3.73	
38)	1-Methylnaphth...	0.741	0.700	0.720	0.690	0.751	0.733	0.690	0.718	3.47	

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

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

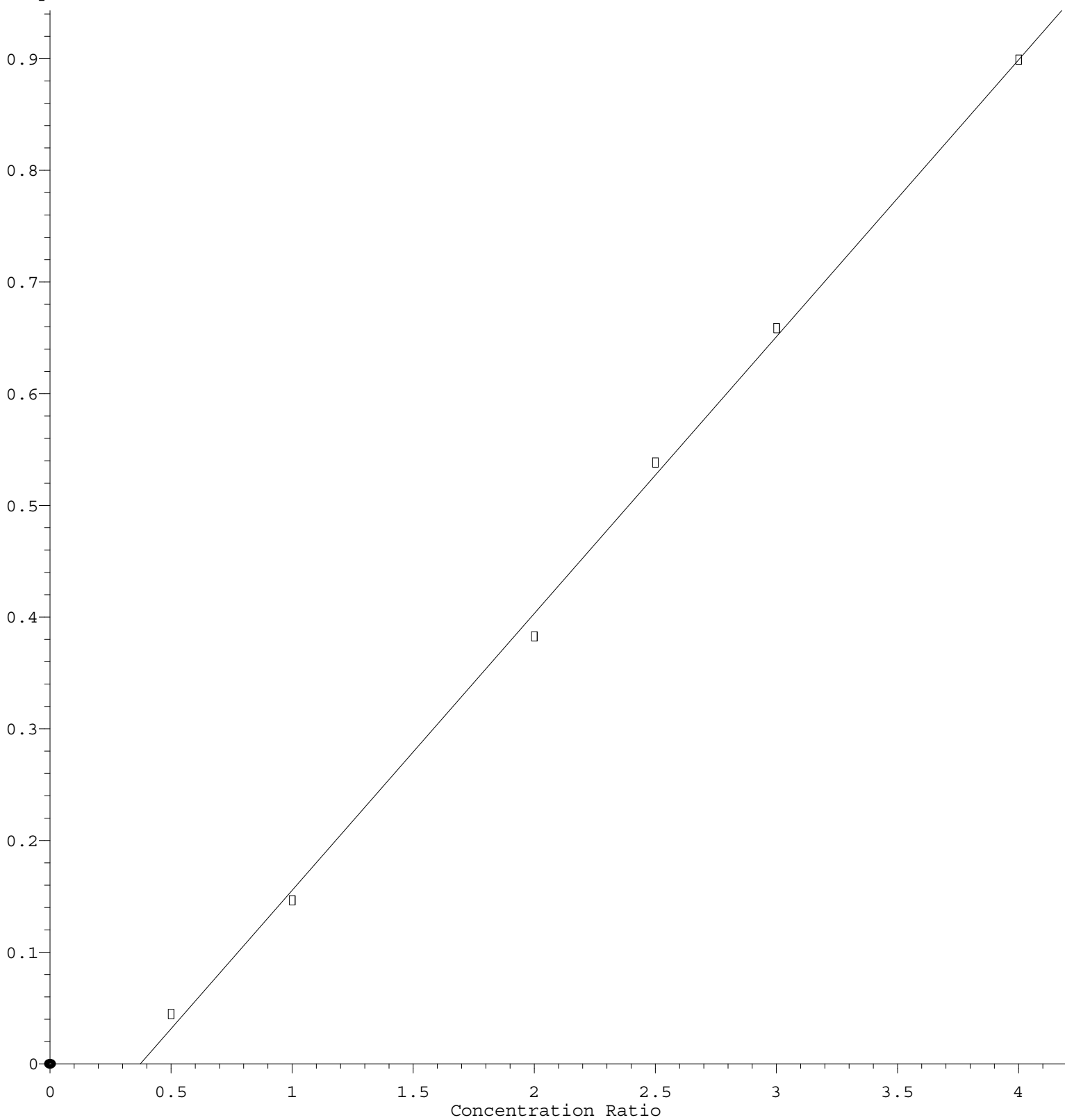
Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP051325.M

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

(#) = Out of Range

Benzoic acid

Response Ratio



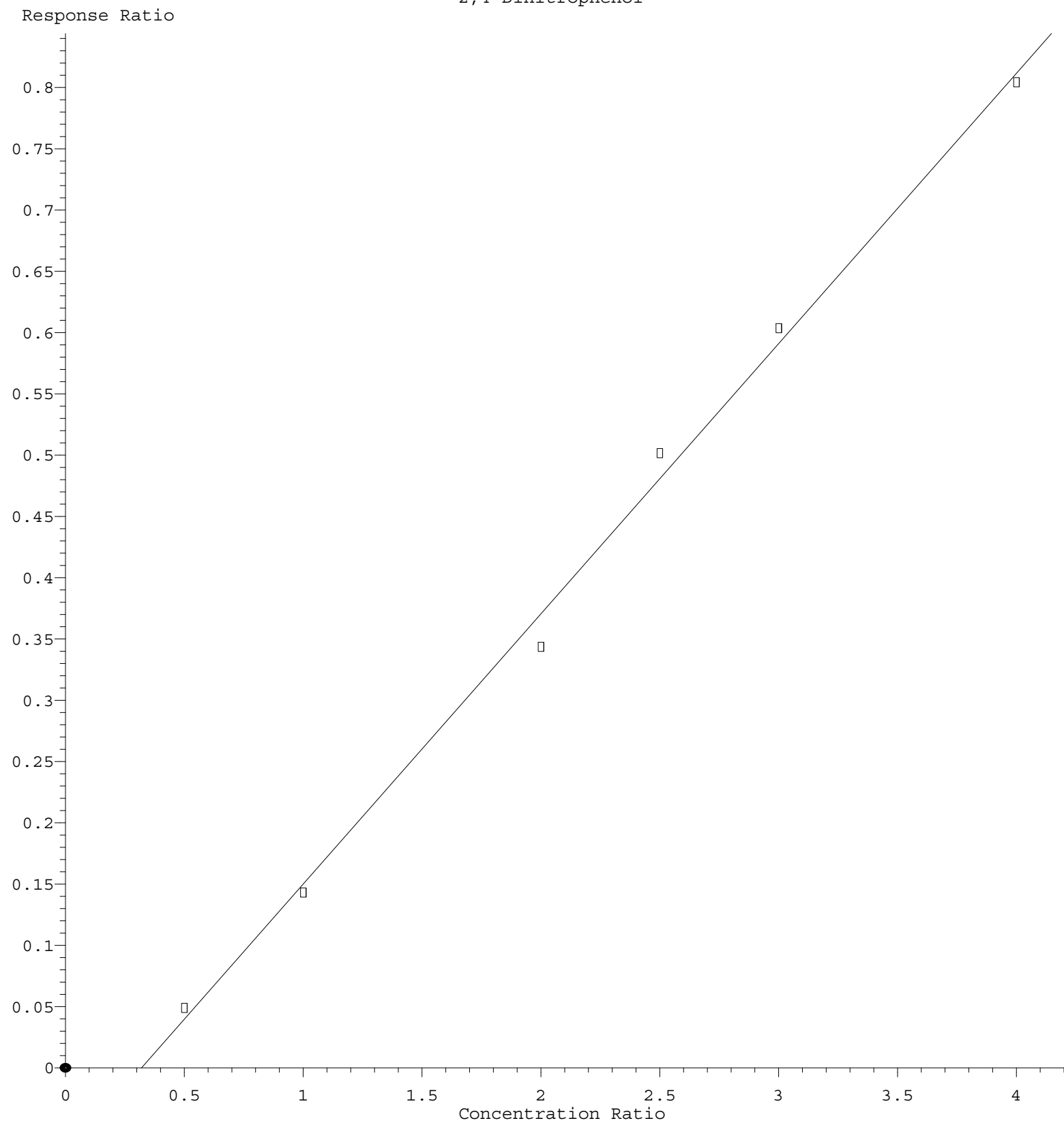
$$\text{Response} = 2.481\text{e-}001 * \text{Amt} - 9.265\text{e-}002$$

Coef of Det (r^2) = 0.998338 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP051325.M

Calibration Table Last Updated: Tue May 13 16:21:39 2025

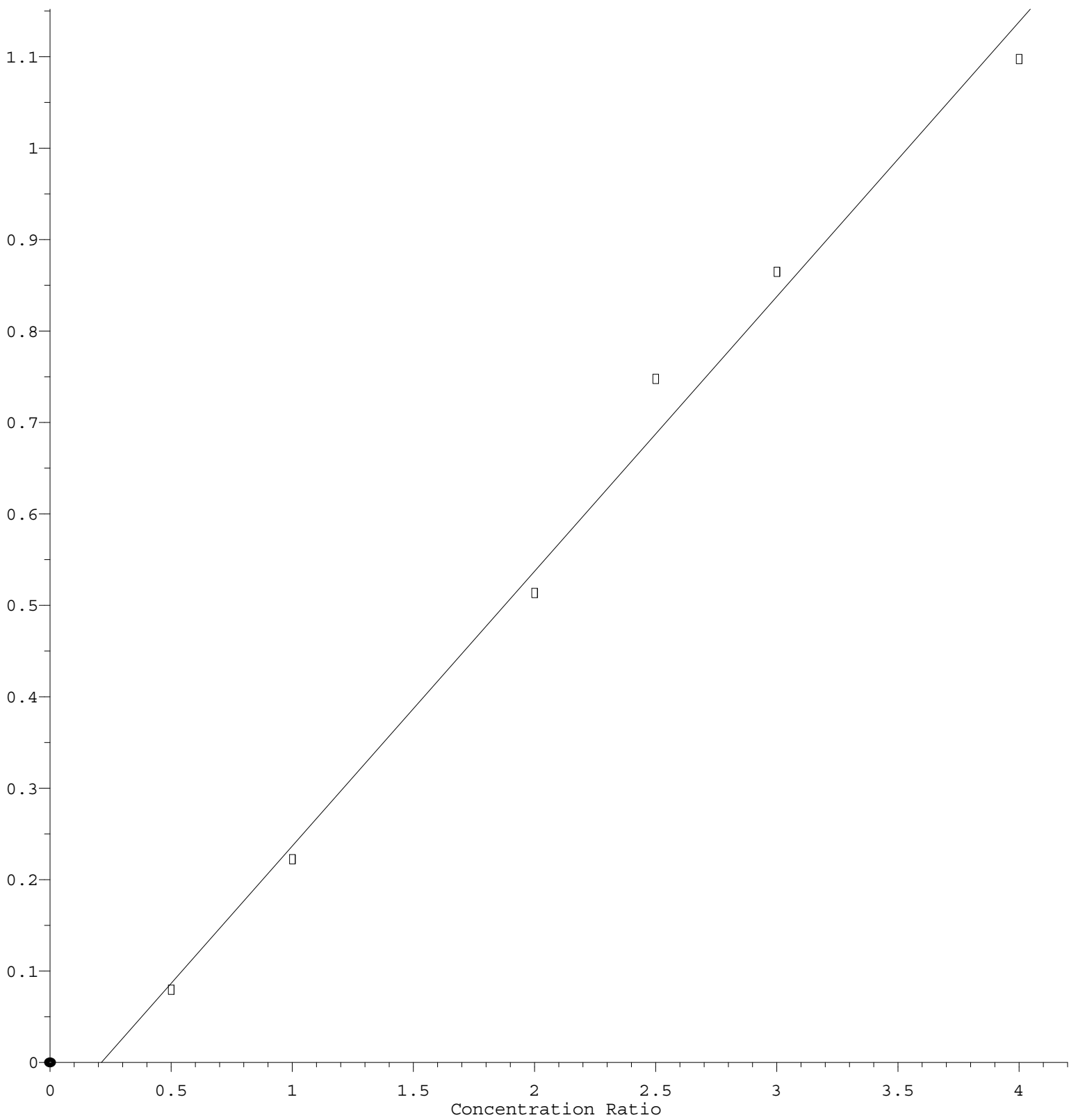
2,4-Dinitrophenol



Response = 2.207e-001 * Amt - 7.063e-002
 Coef of Det (r^2) = 0.996311 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP051325.M
 Calibration Table Last Updated: Tue May 13 16:21:39 2025

4-Nitrophenol

Response Ratio



$$\text{Response} = 3.005\text{e-}001 * \text{Amt} - 6.362\text{e-}002$$

Coef of Det (r^2) = 0.991009 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP051325.M

Calibration Table Last Updated: Tue May 13 16:21:39 2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024614.D
Acq On : 13 May 2025 10:41
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Quant Time: May 13 16:01:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

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

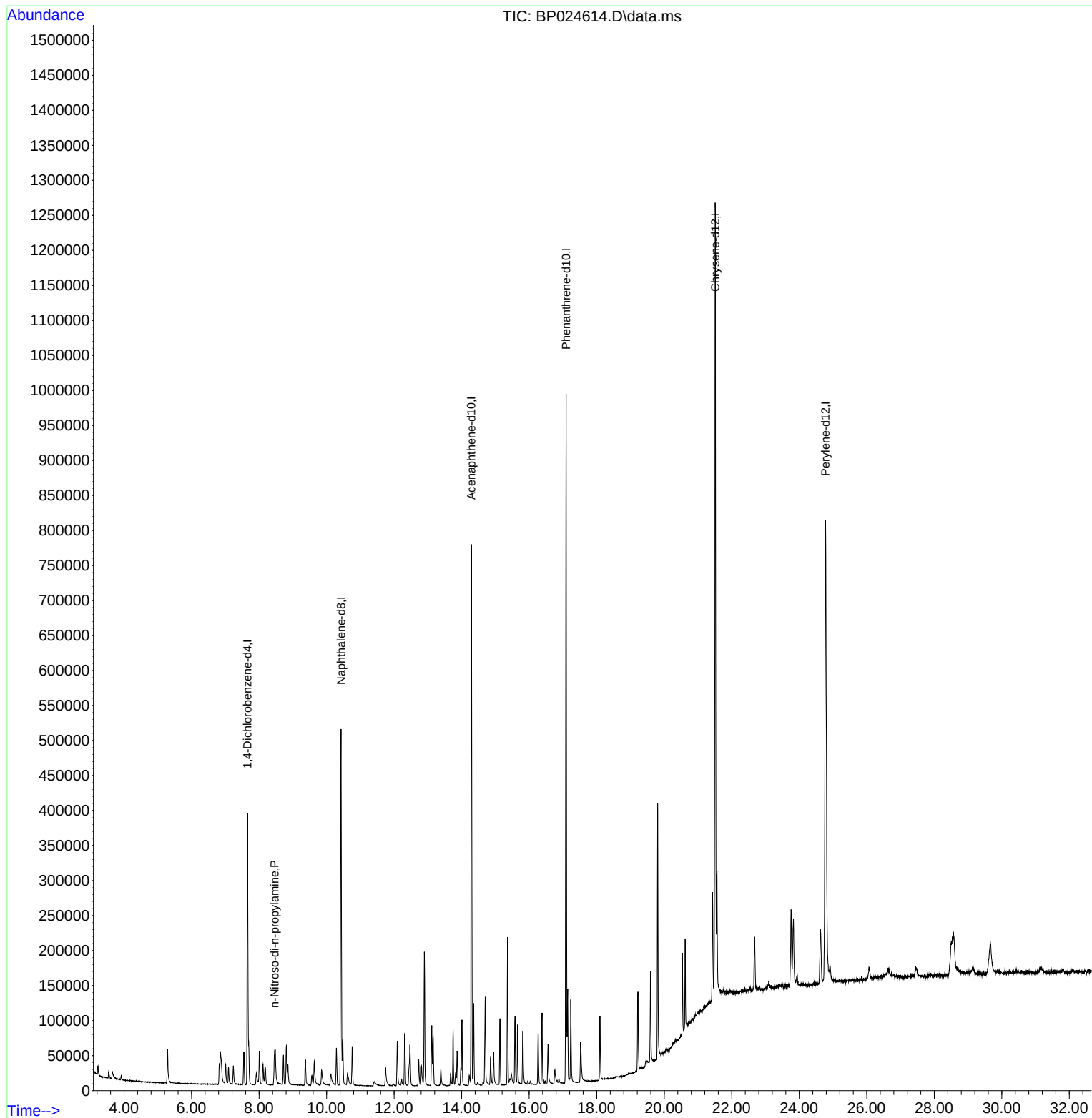
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.658	152	105461	20.00	ng	0.00
21) Naphthalene-d8	10.428	136	434352	20.00	ng	0.00
39) Acenaphthene-d10	14.287	164	287970	20.00	ng	-0.02
64) Phenanthrene-d10	17.092	188	596044	20.00	ng	0.00
76) Chrysene-d12	21.516	240	663028	20.00	ng	0.00
86) Perylene-d12	24.780	264	769627	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.00	ng	
7) Phenol-d6	0.000	99	0d	0.00	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.00	ng	
42) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ng	
45) 2-Fluorobiphenyl	0.000	172	0d	0.00	ng	
79) Terphenyl-d14	0.000	244	0d	0.00	ng	
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	8.458	70	11601	2.13	ng	96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024614.D
Acq On : 13 May 2025 10:41
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Quant Time: May 13 16:01:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
 Data File : BP024615.D
 Acq On : 13 May 2025 11:22
 Operator : RC/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/14/2025
 Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 16:02:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 15:55:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.664	152	90088	20.00	ng	0.00
21) Naphthalene-d8	10.434	136	378055	20.00	ng	0.00
39) Acenaphthene-d10	14.293	164	254561	20.00	ng	-0.01
64) Phenanthrene-d10	17.092	188	531548	20.00	ng	0.00
76) Chrysene-d12	21.522	240	614288	20.00	ng	0.00
86) Perylene-d12	24.810	264	724260	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.293	112	51093	9.70	ng	0.00
7) Phenol-d6	6.858	99	58619	8.72	ng	0.00
23) Nitrobenzene-d5	8.811	82	72056	9.63	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	41219	9.55	ng	0.00
45) 2-Fluorobiphenyl	12.904	172	203719	10.48	ng	0.00
79) Terphenyl-d14	19.822	244	366245	10.22	ng	0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.228	88	14435	5.84	ng	95
3) Pyridine	3.646	79	23737	4.33	ng	# 91
4) n-Nitrosodimethylamine	3.546	42	12080	4.99	ng	# 96
6) Aniline	7.011	93	38664	4.45	ng	97
8) 2-Chlorophenol	7.240	128	27022	4.52	ng	93
9) Benzaldehyde	6.828	77	22328m	5.14	ng	
10) Phenol	6.887	94	30912	4.46	ng	98
11) bis(2-Chloroethyl)ether	7.099	93	29668	5.20	ng	97
12) 1,3-Dichlorobenzene	7.552	146	35946	5.23	ng	96
13) 1,4-Dichlorobenzene	7.699	146	35091	5.07	ng	95
14) 1,2-Dichlorobenzene	8.011	146	34458	5.11	ng	99
15) Benzyl Alcohol	7.917	79	19888	3.89	ng	97
16) 2,2'-oxybis(1-Chloropr...	8.193	45	34754	5.09	ng	95
17) 2-Methylphenol	8.116	107	21754	4.37	ng	97
18) Hexachloroethane	8.728	117	13650	5.15	ng	96
19) n-Nitroso-di-n-propyla...	8.464	70	22015	4.73	ng	98
20) 3+4-Methylphenols	8.452	107	27500	4.06	ng	97
22) Acetophenone	8.487	105	45968	4.87	ng	# 99
24) Nitrobenzene	8.852	77	31500	4.78	ng	97
25) Isophorone	9.375	82	60855	4.69	ng	98
26) 2-Nitrophenol	9.569	139	12786	3.96	ng	95
27) 2,4-Dimethylphenol	9.628	122	25830	4.54	ng	92
28) bis(2-Chloroethoxy)met...	9.858	93	38071	4.91	ng	97
29) 2,4-Dichlorophenol	10.122	162	23623	4.29	ng	97
30) 1,2,4-Trichlorobenzene	10.299	180	32699	5.26	ng	99
31) Naphthalene	10.481	128	100564	5.13	ng	100
33) 4-Chloroaniline	10.616	127	32908	4.16	ng	99
34) Hexachlorobutadiene	10.763	225	21834	5.43	ng	95
35) Caprolactam	11.399	113	7742m	3.88	ng	
36) 4-Chloro-3-methylphenol	11.746	107	29849	4.44	ng	95
37) 2-Methylnaphthalene	12.099	142	63562	5.01	ng	99
38) 1-Methylnaphthalene	12.316	142	70043	5.16	ng	100
40) 1,2,4,5-Tetrachloroben...	12.469	216	37738	5.11	ng	99
41) Hexachlorocyclopentadiene	12.446	237	15939	3.56	ng	93
43) 2,4,6-Trichlorophenol	12.722	196	19429	4.06	ng	92
44) 2,4,5-Trichlorophenol	12.816	196	23918	4.49	ng	93

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
 Data File : BP024615.D
 Acq On : 13 May 2025 11:22
 Operator : RC/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/14/2025
 Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 16:02:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 15:55:25 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	13.116	154	96956	5.15	ng	98
47) 2-Chloronaphthalene	13.157	162	72977	5.09	ng	99
48) 2-Nitroaniline	13.381	65	17778	4.19	ng	98
49) Acenaphthylene	14.010	152	117448	4.89	ng	99
50) Dimethylphthalate	13.751	163	99940	5.15	ng	100
51) 2,6-Dinitrotoluene	13.869	165	19052	4.65	ng	# 85
52) Acenaphthene	14.357	154	70302	5.09	ng	96
53) 3-Nitroaniline	14.222	138	16400	3.92	ng	97
55) Dibenzofuran	14.698	168	115180	5.23	ng	98
57) 2,4-Dinitrotoluene	14.675	165	25481	4.41	ng	92
58) Fluorene	15.363	166	93303	5.20	ng	98
59) 2,3,4,6-Tetrachlorophenol	14.946	232	23382	4.73	ng	98
60) Diethylphthalate	15.134	149	101366	5.17	ng	99
61) 4-Chlorophenyl-phenyle...	15.357	204	47886	5.35	ng	98
62) 4-Nitroaniline	15.410	138	14482m	3.55	ng	
63) Azobenzene	15.651	77	84462	5.03	ng	99
66) n-Nitrosodiphenylamine	15.575	169	80078	4.90	ng	99
67) 4-Bromophenyl-phenylether	16.275	248	30702	4.90	ng	97
68) Hexachlorobenzene	16.387	284	40234	5.06	ng	99
69) Atrazine	16.551	200	27909	4.66	ng	98
70) Pentachlorophenol	16.757	266	16456	3.68	ng	95
71) Phenanthrene	17.134	178	152030	5.14	ng	99
72) Anthracene	17.234	178	145809	4.90	ng	99
73) Carbazole	17.522	167	122666	4.56	ng	98
74) Di-n-butylphthalate	18.104	149	157014	4.54	ng	99
75) Fluoranthene	19.228	202	168865	4.89	ng	99
78) Pyrene	19.604	202	181817	4.94	ng	99
80) Butylbenzylphthalate	20.551	149	70341	4.30	ng	100
81) Benzo(a)anthracene	21.498	228	192110	4.98	ng	99
82) 3,3'-Dichlorobenzidine	21.445	252	54793	3.82	ng	99
83) Chrysene	21.575	228	186449	5.10	ng	99
84) Bis(2-ethylhexyl)phtha...	21.445	149	103286	4.29	ng	97
85) Di-n-octyl phthalate	22.692	149	160883	4.09	ng	99
87) Indeno(1,2,3-cd)pyrene	28.504	276	242814	4.59	ng	# 87
88) Benzo(b)fluoranthene	23.763	252	186058	4.49	ng	97
89) Benzo(k)fluoranthene	23.839	252	207645	4.86	ng	100
90) Benzo(a)pyrene	24.657	252	180157	4.52	ng	99
91) Dibenzo(a,h)anthracene	28.586	278	193373	4.50	ng	98
92) Benzo(g,h,i)perylene	29.651	276	199361	4.66	ng	98

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

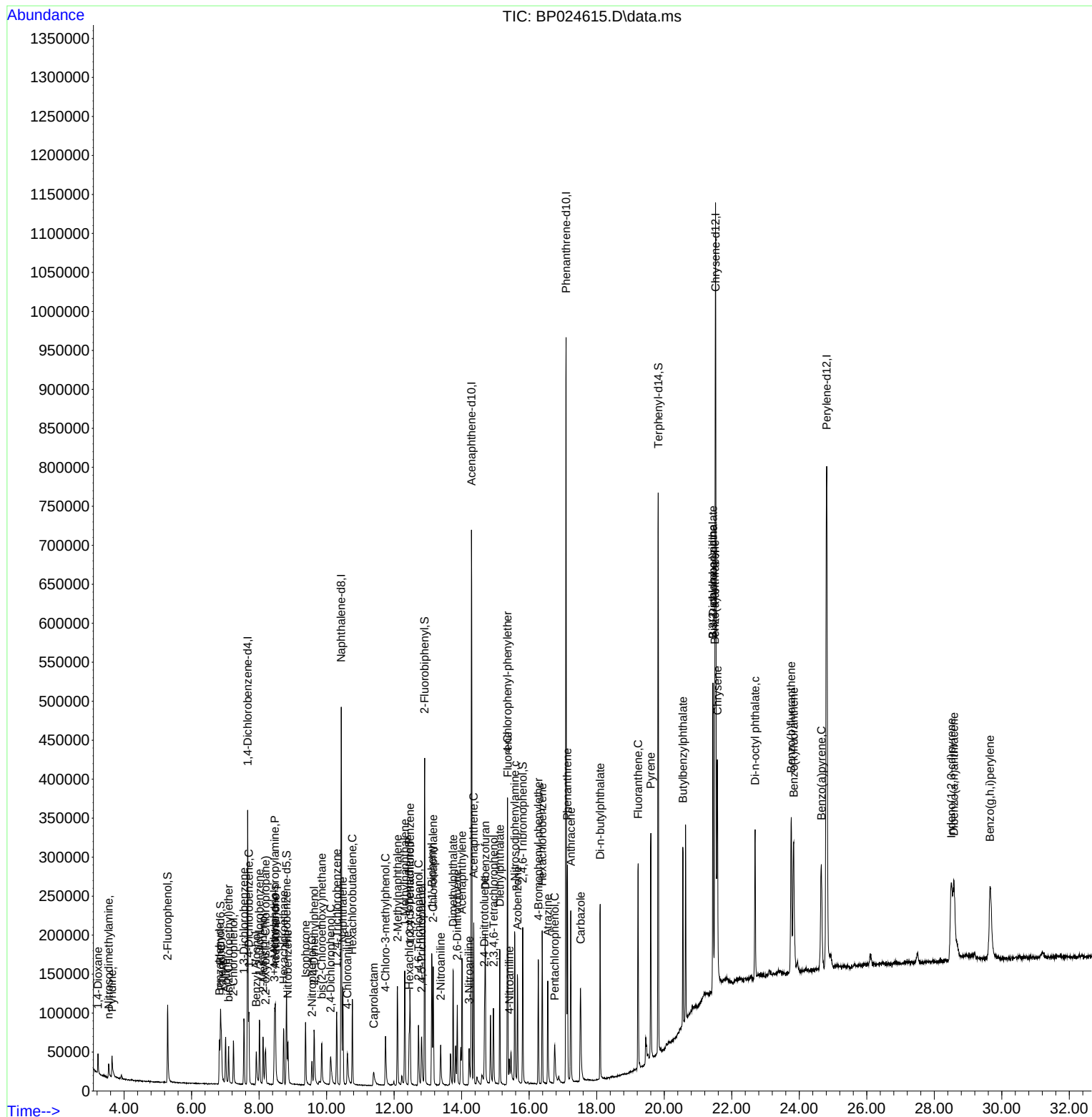
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024615.D
Acq On : 13 May 2025 11:22
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 16:02:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
 Data File : BP024616.D
 Acq On : 13 May 2025 12:03
 Operator : RC/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/14/2025
 Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 16:04:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 15:55:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.663	152	94972	20.00	ng	0.00
21) Naphthalene-d8	10.434	136	398657	20.00	ng	0.00
39) Acenaphthene-d10	14.292	164	268335	20.00	ng	-0.01
64) Phenanthrene-d10	17.098	188	556673	20.00	ng	0.00
76) Chrysene-d12	21.516	240	659092	20.00	ng	0.00
86) Perylene-d12	24.798	264	780142	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.293	112	104115	18.75	ng	0.00
7) Phenol-d6	6.858	99	127652	18.01	ng	0.00
23) Nitrobenzene-d5	8.810	82	149876	19.00	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	86099	18.93	ng	0.00
45) 2-Fluorobiphenyl	12.904	172	401986	19.63	ng	0.00
79) Terphenyl-d14	19.822	244	733687	19.09	ng	0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.228	88	26472	10.15	ng	99
3) Pyridine	3.634	79	53915	9.33	ng	98
4) n-Nitrosodimethylamine	3.540	42	24093	9.44	ng	# 96
6) Aniline	7.005	93	80863	8.84	ng	99
8) 2-Chlorophenol	7.240	128	57182	9.07	ng	99
9) Benzaldehyde	6.822	77	47848m	10.45	ng	
10) Phenol	6.881	94	66520	9.09	ng	96
11) bis(2-Chloroethyl)ether	7.093	93	55575	9.25	ng	99
12) 1,3-Dichlorobenzene	7.557	146	70590	9.73	ng	100
13) 1,4-Dichlorobenzene	7.699	146	71467	9.80	ng	99
14) 1,2-Dichlorobenzene	8.010	146	69643	9.80	ng	96
15) Benzyl Alcohol	7.916	79	45094	8.37	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.187	45	68599	9.53	ng	98
17) 2-Methylphenol	8.116	107	45071	8.59	ng	96
18) Hexachloroethane	8.728	117	28078	10.05	ng	96
19) n-Nitroso-di-n-propyla...	8.463	70	45927	9.37	ng	96
20) 3+4-Methylphenols	8.446	107	61832	8.66	ng	95
22) Acetophenone	8.481	105	95803	9.62	ng	# 99
24) Nitrobenzene	8.857	77	67735	9.76	ng	98
25) Isophorone	9.375	82	127474	9.31	ng	99
26) 2-Nitrophenol	9.563	139	28470	8.37	ng	94
27) 2,4-Dimethylphenol	9.628	122	55664	9.28	ng	98
28) bis(2-Chloroethoxy)met...	9.851	93	78019	9.54	ng	97
29) 2,4-Dichlorophenol	10.110	162	51386	8.84	ng	98
30) 1,2,4-Trichlorobenzene	10.304	180	64245	9.81	ng	96
31) Naphthalene	10.481	128	204468	9.90	ng	99
32) Benzoic acid	9.746	122	17770m	10.42	ng	
33) 4-Chloroaniline	10.610	127	73990	8.88	ng	99
34) Hexachlorobutadiene	10.769	225	42567	10.03	ng	97
35) Caprolactam	11.381	113	18245m	8.68	ng	
36) 4-Chloro-3-methylphenol	11.746	107	64857	9.15	ng	98
37) 2-Methylnaphthalene	12.098	142	130412	9.75	ng	100
38) 1-Methylnaphthalene	12.316	142	139573	9.75	ng	100
40) 1,2,4,5-Tetrachloroben...	12.475	216	74824	9.60	ng	100
41) Hexachlorocyclopentadiene	12.451	237	37072	7.85	ng	98
43) 2,4,6-Trichlorophenol	12.722	196	45798	9.07	ng	96

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
 Data File : BP024616.D
 Acq On : 13 May 2025 12:03
 Operator : RC/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/14/2025
 Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 16:04:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 15:55:25 2025
 Response via : Initial Calibration

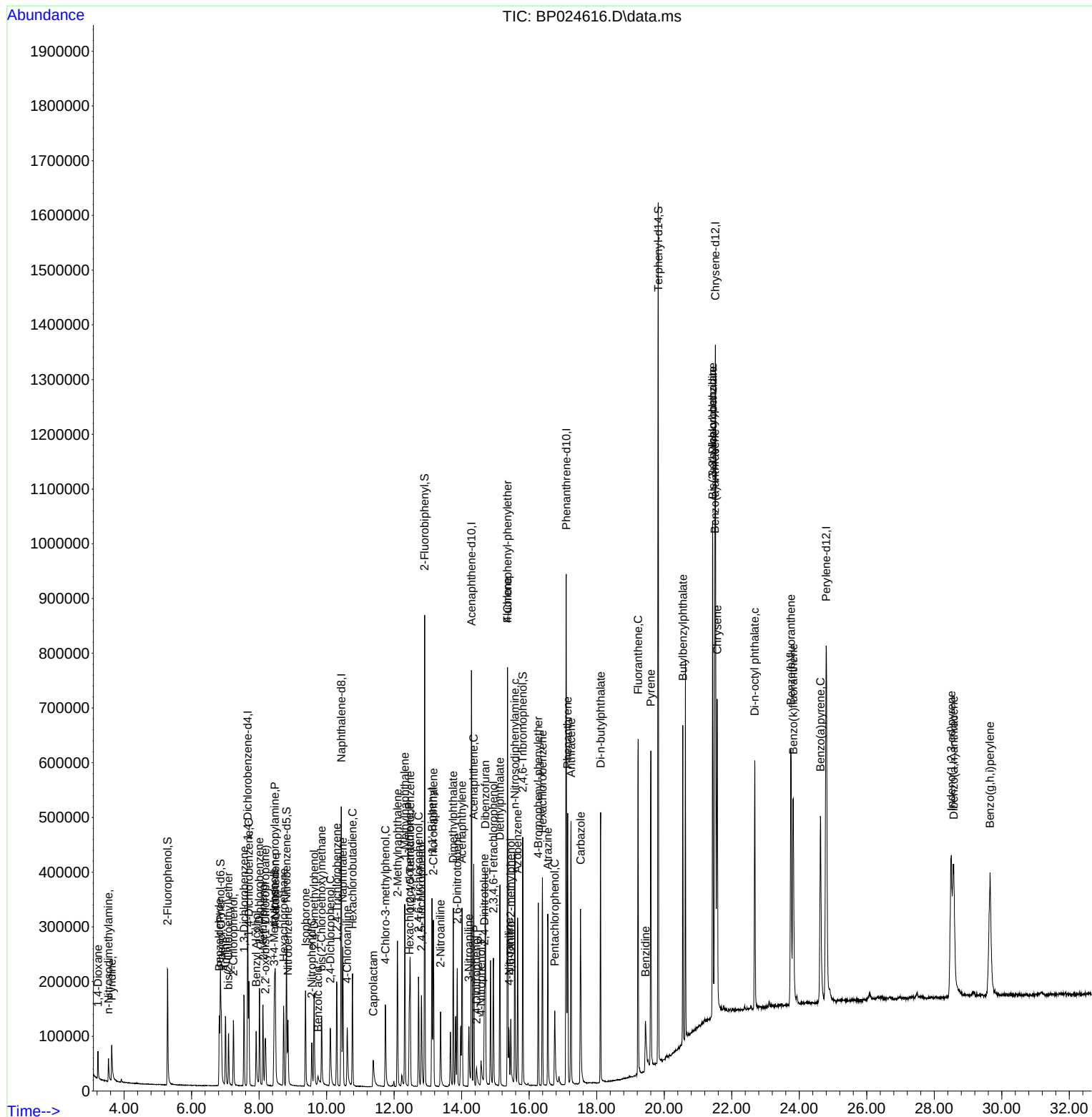
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.810	196	50348	8.96	ng	94
46) 1,1'-Biphenyl	13.122	154	192445	9.70	ng	100
47) 2-Chloronaphthalene	13.163	162	148443	9.82	ng	99
48) 2-Nitroaniline	13.375	65	40786	9.11	ng	93
49) Acenaphthylene	14.010	152	243913	9.64	ng	98
50) Dimethylphthalate	13.751	163	204825	10.01	ng	99
51) 2,6-Dinitrotoluene	13.869	165	41257	9.55	ng	92
52) Acenaphthene	14.357	154	141360	9.72	ng	99
53) 3-Nitroaniline	14.216	138	36906	8.37	ng	99
54) 2,4-Dinitrophenol	14.439	184	13128	10.84	ng	95
55) Dibenzofuran	14.704	168	230286	9.92	ng	99
56) 4-Nitrophenol	14.575	139	21349	9.53	ng	93
57) 2,4-Dinitrotoluene	14.675	165	56617	9.30	ng	94
58) Fluorene	15.357	166	189781	10.03	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.939	232	48821	9.37	ng	99
60) Diethylphthalate	15.134	149	206886	10.01	ng	99
61) 4-Chlorophenyl-phenyle...	15.357	204	93517	9.91	ng	97
62) 4-Nitroaniline	15.404	138	34813m	8.11	ng	
63) Azobenzene	15.657	77	174322	9.86	ng	98
65) 4,6-Dinitro-2-methylph...	15.457	198	26174	7.28	ng	96
66) n-Nitrosodiphenylamine	15.575	169	164008	9.59	ng	99
67) 4-Bromophenyl-phenylether	16.269	248	62011	9.45	ng	97
68) Hexachlorobenzene	16.392	284	80088	9.61	ng	98
69) Atrazine	16.551	200	58245	9.30	ng	99
70) Pentachlorophenol	16.757	266	38095m	8.14	ng	
71) Phenanthrene	17.139	178	301863	9.75	ng	100
72) Anthracene	17.239	178	296146	9.51	ng	100
73) Carbazole	17.522	167	262687	9.32	ng	100
74) Di-n-butylphthalate	18.116	149	338893	9.35	ng	100
75) Fluoranthene	19.227	202	349083	9.65	ng	99
77) Benzidine	19.445	184	119229m	6.59	ng	
78) Pyrene	19.604	202	374573	9.48	ng	100
80) Butylbenzylphthalate	20.551	149	153275	8.73	ng	99
81) Benzo(a)anthracene	21.498	228	401322	9.70	ng	99
82) 3,3'-Dichlorobenzidine	21.433	252	129324	8.41	ng	99
83) Chrysene	21.569	228	388846	9.91	ng	98
84) Bis(2-ethylhexyl)phtha...	21.439	149	225047	8.72	ng	100
85) Di-n-octyl phthalate	22.680	149	367934	8.72	ng	100
87) Indeno(1,2,3-cd)pyrene	28.503	276	529260	9.29	ng	# 92
88) Benzo(b)fluoranthene	23.751	252	417343	9.35	ng	99
89) Benzo(k)fluoranthene	23.821	252	431575	9.38	ng	99
90) Benzo(a)pyrene	24.627	252	390288	9.10	ng	100
91) Dibenzo(a,h)anthracene	28.574	278	415768	8.97	ng	99
92) Benzo(g,h,i)perylene	29.650	276	431559	9.37	ng	97

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

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
 Data File : BP024617.D
 Acq On : 13 May 2025 12:43
 Operator : RC/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/14/2025
 Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 16:05:17 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 15:55:25 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.664	152	112650	20.00	ng	0.00
21) Naphthalene-d8	10.434	136	488721	20.00	ng	0.00
39) Acenaphthene-d10	14.299	164	323928	20.00	ng	0.00
64) Phenanthrene-d10	17.087	188	644367	20.00	ng	-0.01
76) Chrysene-d12	21.522	240	745224	20.00	ng	0.00
86) Perylene-d12	24.792	264	850264	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	261821	39.75	ng	0.00
7) Phenol-d6	6.858	99	334811	39.83	ng	0.00
23) Nitrobenzene-d5	8.811	82	391739	40.50	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	217092	39.53	ng	0.00
45) 2-Fluorobiphenyl	12.904	172	1006150	40.69	ng	0.00
79) Terphenyl-d14	19.810	244	1736879	39.96	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.229	88	60251	19.48	ng	98
3) Pyridine	3.628	79	135451	19.75	ng	99
4) n-Nitrosodimethylamine	3.540	42	59324	19.59	ng	99
6) Aniline	7.005	93	217646	20.05	ng	100
8) 2-Chlorophenol	7.240	128	147726	19.76	ng	99
9) Benzaldehyde	6.822	77	117823m	21.69	ng	
10) Phenol	6.881	94	171949	19.82	ng	99
11) bis(2-Chloroethyl)ether	7.099	93	141599	19.86	ng	99
12) 1,3-Dichlorobenzene	7.552	146	171270	19.91	ng	99
13) 1,4-Dichlorobenzene	7.699	146	171756	19.85	ng	98
14) 1,2-Dichlorobenzene	8.011	146	168795	20.02	ng	99
15) Benzyl Alcohol	7.911	79	127076	19.89	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.187	45	171274	20.06	ng	100
17) 2-Methylphenol	8.111	107	124506	20.01	ng	99
18) Hexachloroethane	8.728	117	65527	19.76	ng	97
19) n-Nitroso-di-n-propyla...	8.458	70	122386	21.05	ng	98
20) 3+4-Methylphenols	8.440	107	169264	20.00	ng	97
22) Acetophenone	8.481	105	249692	20.45	ng	# 100
24) Nitrobenzene	8.858	77	173686	20.40	ng	99
25) Isophorone	9.375	82	339697	20.25	ng	100
26) 2-Nitrophenol	9.563	139	82278	19.73	ng	98
27) 2,4-Dimethylphenol	9.622	122	146819	19.96	ng	97
28) bis(2-Chloroethoxy)met...	9.852	93	200872	20.04	ng	99
29) 2,4-Dichlorophenol	10.099	162	141785	19.90	ng	98
30) 1,2,4-Trichlorobenzene	10.299	180	159998	19.92	ng	95
31) Naphthalene	10.481	128	512888	20.25	ng	100
32) Benzoic acid	9.746	122	71538m	18.73	ng	
33) 4-Chloroaniline	10.605	127	205433	20.10	ng	99
34) Hexachlorobutadiene	10.763	225	103364	19.87	ng	99
35) Caprolactam	11.381	113	50721	19.68	ng	99
36) 4-Chloro-3-methylphenol	11.734	107	174840	20.12	ng	99
37) 2-Methylnaphthalene	12.093	142	327447	19.97	ng	99
38) 1-Methylnaphthalene	12.316	142	352091	20.07	ng	100
40) 1,2,4,5-Tetrachloroben...	12.469	216	185982	19.77	ng	99
41) Hexachlorocyclopentadiene	12.440	237	113499	19.90	ng	98
43) 2,4,6-Trichlorophenol	12.722	196	121520	19.95	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
 Data File : BP024617.D
 Acq On : 13 May 2025 12:43
 Operator : RC/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/14/2025
 Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 16:05:17 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 15:55:25 2025
 Response via : Initial Calibration

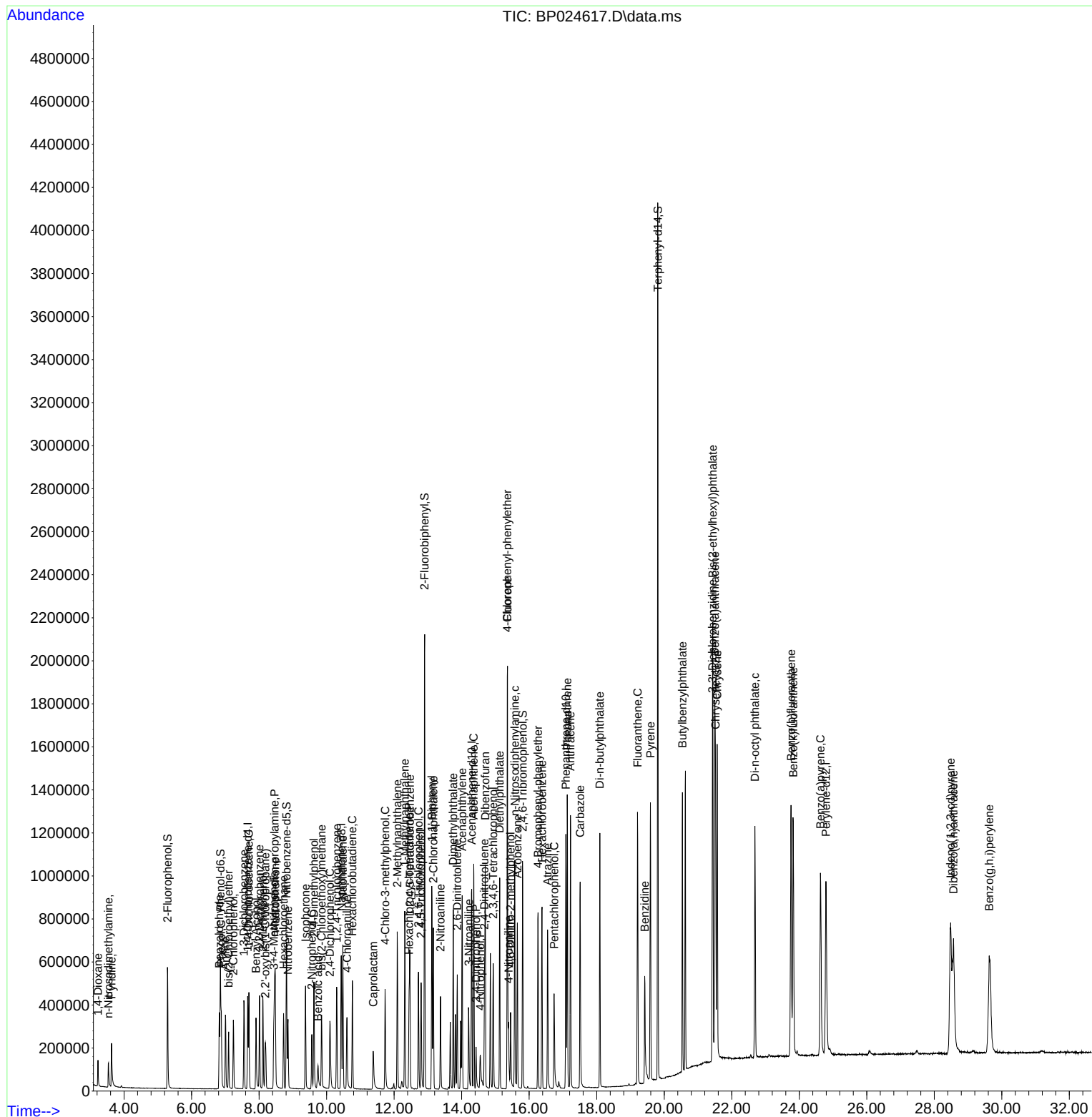
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.799	196	135306	19.95	ng	98
46) 1,1'-Biphenyl	13.116	154	483352	20.19	ng	100
47) 2-Chloronaphthalene	13.163	162	366247	20.06	ng	100
48) 2-Nitroaniline	13.375	65	107062	19.81	ng	98
49) Acenaphthylene	14.016	152	621997	20.36	ng	100
50) Dimethylphthalate	13.751	163	491623	19.91	ng	99
51) 2,6-Dinitrotoluene	13.869	165	105479	20.23	ng	97
52) Acenaphthene	14.357	154	354519	20.19	ng	99
53) 3-Nitroaniline	14.210	138	106527	20.01	ng	98
54) 2,4-Dinitrophenol	14.428	184	46351	19.37	ng	91
55) Dibenzofuran	14.698	168	563719	20.12	ng	99
56) 4-Nitrophenol	14.551	139	71975	19.02	ng	93
57) 2,4-Dinitrotoluene	14.675	165	147676	20.09	ng	99
58) Fluorene	15.357	166	456792	20.00	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.934	232	123265	19.59	ng	99
60) Diethylphthalate	15.128	149	497916	19.95	ng	99
61) 4-Chlorophenyl-phenyle...	15.351	204	226790	19.91	ng	98
62) 4-Nitroaniline	15.393	138	105617	20.37	ng	99
63) Azobenzene	15.651	77	439183	20.57	ng	99
65) 4,6-Dinitro-2-methylph...	15.451	198	77131	18.53	ng	96
66) n-Nitrosodiphenylamine	15.575	169	404085	20.42	ng	99
67) 4-Bromophenyl-phenylether	16.263	248	152393	20.07	ng	97
68) Hexachlorobenzene	16.381	284	192290	19.93	ng	99
69) Atrazine	16.545	200	146468	20.19	ng	99
70) Pentachlorophenol	16.740	266	104916	19.36	ng	98
71) Phenanthrene	17.128	178	724922	20.24	ng	100
72) Anthracene	17.222	178	735787	20.42	ng	100
73) Carbazole	17.510	167	669730	20.53	ng	99
74) Di-n-butylphthalate	18.092	149	858522	20.46	ng	100
75) Fluoranthene	19.210	202	846684	20.22	ng	100
77) Benzidine	19.422	184	404890	19.79	ng	99
78) Pyrene	19.592	202	892037	19.98	ng	99
80) Butylbenzylphthalate	20.539	149	400050	20.14	ng	97
81) Benzo(a)anthracene	21.498	228	933614	19.95	ng	99
82) 3,3'-Dichlorobenzidine	21.428	252	353000	20.31	ng	100
83) Chrysene	21.569	228	883001	19.91	ng	99
84) Bis(2-ethylhexyl)phtha...	21.439	149	597012	20.45	ng	98
85) Di-n-octyl phthalate	22.686	149	947571	19.85	ng	99
87) Indeno(1,2,3-cd)pyrene	28.486	276	1230125m	19.81	ng	
88) Benzo(b)fluoranthene	23.757	252	979873	20.13	ng	99
89) Benzo(k)fluoranthene	23.822	252	1005349	20.05	ng	100
90) Benzo(a)pyrene	24.627	252	945764	20.23	ng	100
91) Dibenzo(a,h)anthracene	28.568	278	1008288	19.97	ng	99
92) Benzo(g,h,i)perylene	29.627	276	991852	19.75	ng	99

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

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jaagrut Upadhyay 05/14/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
 Data File : BP024618.D
 Acq On : 13 May 2025 13:24
 Operator : RC/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICCC040

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/14/2025
 Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 16:06:28 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 15:55:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.663	152	120950	20.00	ng	0.00
21) Naphthalene-d8	10.434	136	540452	20.00	ng	0.00
39) Acenaphthene-d10	14.304	164	362458	20.00	ng	0.00
64) Phenanthrene-d10	17.098	188	717362	20.00	ng	0.00
76) Chrysene-d12	21.521	240	810498	20.00	ng	0.00
86) Perylene-d12	24.804	264	929890	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	534477	75.58	ng	0.00
7) Phenol-d6	6.852	99	712342	78.93	ng	0.00
23) Nitrobenzene-d5	8.810	82	826567	77.28	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	467808	76.13	ng	0.00
45) 2-Fluorobiphenyl	12.904	172	2076354	75.05	ng	0.00
79) Terphenyl-d14	19.810	244	3647961	77.18	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.228	88	122181	36.79	ng	100
3) Pyridine	3.622	79	289809	39.36	ng	100
4) n-Nitrosodimethylamine	3.534	42	125087	38.48	ng	100
6) Aniline	7.005	93	463675	39.79	ng	100
8) 2-Chlorophenol	7.240	128	315079	39.25	ng	100
9) Benzaldehyde	6.822	77	231076m	39.62	ng	
10) Phenol	6.881	94	364948	39.18	ng	100
11) bis(2-Chloroethyl)ether	7.099	93	293331	38.32	ng	100
12) 1,3-Dichlorobenzene	7.552	146	348242	37.71	ng	100
13) 1,4-Dichlorobenzene	7.699	146	355533	38.27	ng	100
14) 1,2-Dichlorobenzene	8.010	146	344980	38.11	ng	100
15) Benzyl Alcohol	7.905	79	277892	40.52	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.187	45	354872	38.71	ng	100
17) 2-Methylphenol	8.110	107	265962	39.81	ng	100
18) Hexachloroethane	8.728	117	133224	37.43	ng	100
19) n-Nitroso-di-n-propyla...	8.457	70	253553	40.61	ng	100
20) 3+4-Methylphenols	8.434	107	366564	40.33	ng	100
22) Acetophenone	8.475	105	521603	38.64	ng	100
24) Nitrobenzene	8.852	77	363767	38.65	ng	100
25) Isophorone	9.375	82	727081	39.19	ng	100
26) 2-Nitrophenol	9.563	139	185587	40.24	ng	100
27) 2,4-Dimethylphenol	9.628	122	322227	39.62	ng	100
28) bis(2-Chloroethoxy)met...	9.851	93	430958	38.88	ng	100
29) 2,4-Dichlorophenol	10.093	162	314830	39.95	ng	100
30) 1,2,4-Trichlorobenzene	10.299	180	330659	37.23	ng	100
31) Naphthalene	10.481	128	1059316	37.82	ng	100
32) Benzoic acid	9.775	122	206829m	38.01	ng	
33) 4-Chloroaniline	10.599	127	452150	40.01	ng	100
34) Hexachlorobutadiene	10.763	225	213978	37.19	ng	100
35) Caprolactam	11.387	113	118047	41.43	ng	100
36) 4-Chloro-3-methylphenol	11.734	107	385077	40.07	ng	100
37) 2-Methylnaphthalene	12.093	142	692133	38.17	ng	100
38) 1-Methylnaphthalene	12.316	142	745849	38.44	ng	100
40) 1,2,4,5-Tetrachloroben...	12.469	216	398230	37.84	ng	100
41) Hexachlorocyclopentadiene	12.445	237	258329	40.48	ng	100
43) 2,4,6-Trichlorophenol	12.716	196	268675	39.41	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
 Data File : BP024618.D
 Acq On : 13 May 2025 13:24
 Operator : RC/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICCC040

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/14/2025
 Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 16:06:28 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 15:55:25 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.798	196	293079	38.62	ng	100
46) 1,1'-Biphenyl	13.116	154	1002344	37.42	ng	100
47) 2-Chloronaphthalene	13.157	162	771952	37.79	ng	100
48) 2-Nitroaniline	13.375	65	242485	40.10	ng	100
49) Acenaphthylene	14.016	152	1307740	38.26	ng	100
50) Dimethylphthalate	13.757	163	1051056	38.04	ng	100
51) 2,6-Dinitrotoluene	13.881	165	226086	38.75	ng	100
52) Acenaphthene	14.363	154	745335	37.93	ng	100
53) 3-Nitroaniline	14.216	138	246561	41.39	ng	100
54) 2,4-Dinitrophenol	14.428	184	124517	37.54	ng	100
55) Dibenzofuran	14.698	168	1183806	37.77	ng	100
56) 4-Nitrophenol	14.551	139	186112	38.41	ng	100
57) 2,4-Dinitrotoluene	14.681	165	329156	40.02	ng	100
58) Fluorene	15.357	166	968487	37.89	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.939	232	274384	38.98	ng	100
60) Diethylphthalate	15.139	149	1046478	37.48	ng	100
61) 4-Chlorophenyl-phenyle...	15.357	204	475327	37.29	ng	100
62) 4-Nitroaniline	15.392	138	239212	41.24	ng	100
63) Azobenzene	15.651	77	906274	37.94	ng	100
65) 4,6-Dinitro-2-methylph...	15.457	198	184593	39.84	ng	100
66) n-Nitrosodiphenylamine	15.581	169	851188	38.63	ng	100
67) 4-Bromophenyl-phenylether	16.263	248	323558	38.28	ng	100
68) Hexachlorobenzene	16.381	284	403916	37.60	ng	100
69) Atrazine	16.557	200	312226	38.67	ng	100
70) Pentachlorophenol	16.745	266	246828	40.91	ng	100
71) Phenanthrene	17.133	178	1507602	37.80	ng	100
72) Anthracene	17.228	178	1542275	38.44	ng	100
73) Carbazole	17.516	167	1436294	39.55	ng	100
74) Di-n-butylphthalate	18.098	149	1807097	38.69	ng	100
75) Fluoranthene	19.216	202	1794046	38.49	ng	100
77) Benzidine	19.416	184	907109	40.77	ng	100
78) Pyrene	19.592	202	1869519	38.50	ng	100
80) Butylbenzylphthalate	20.539	149	854913	39.58	ng	100
81) Benzo(a)anthracene	21.504	228	1957632	38.47	ng	100
82) 3,3'-Dichlorobenzidine	21.427	252	773866	40.94	ng	100
83) Chrysene	21.569	228	1833959	38.01	ng	100
84) Bis(2-ethylhexyl)phtha...	21.439	149	1240956	39.09	ng	100
85) Di-n-octyl phthalate	22.692	149	2074694	39.97	ng	100
87) Indeno(1,2,3-cd)pyrene	28.515	276	2648648	39.00	ng	100
88) Benzo(b)fluoranthene	23.757	252	2050806	38.53	ng	100
89) Benzo(k)fluoranthene	23.827	252	2120721	38.67	ng	100
90) Benzo(a)pyrene	24.645	252	1979017	38.71	ng	100
91) Dibenzo(a,h)anthracene	28.598	278	2170712	39.30	ng	100
92) Benzo(g,h,i)perylene	29.662	276	2132921	38.84	ng	100

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

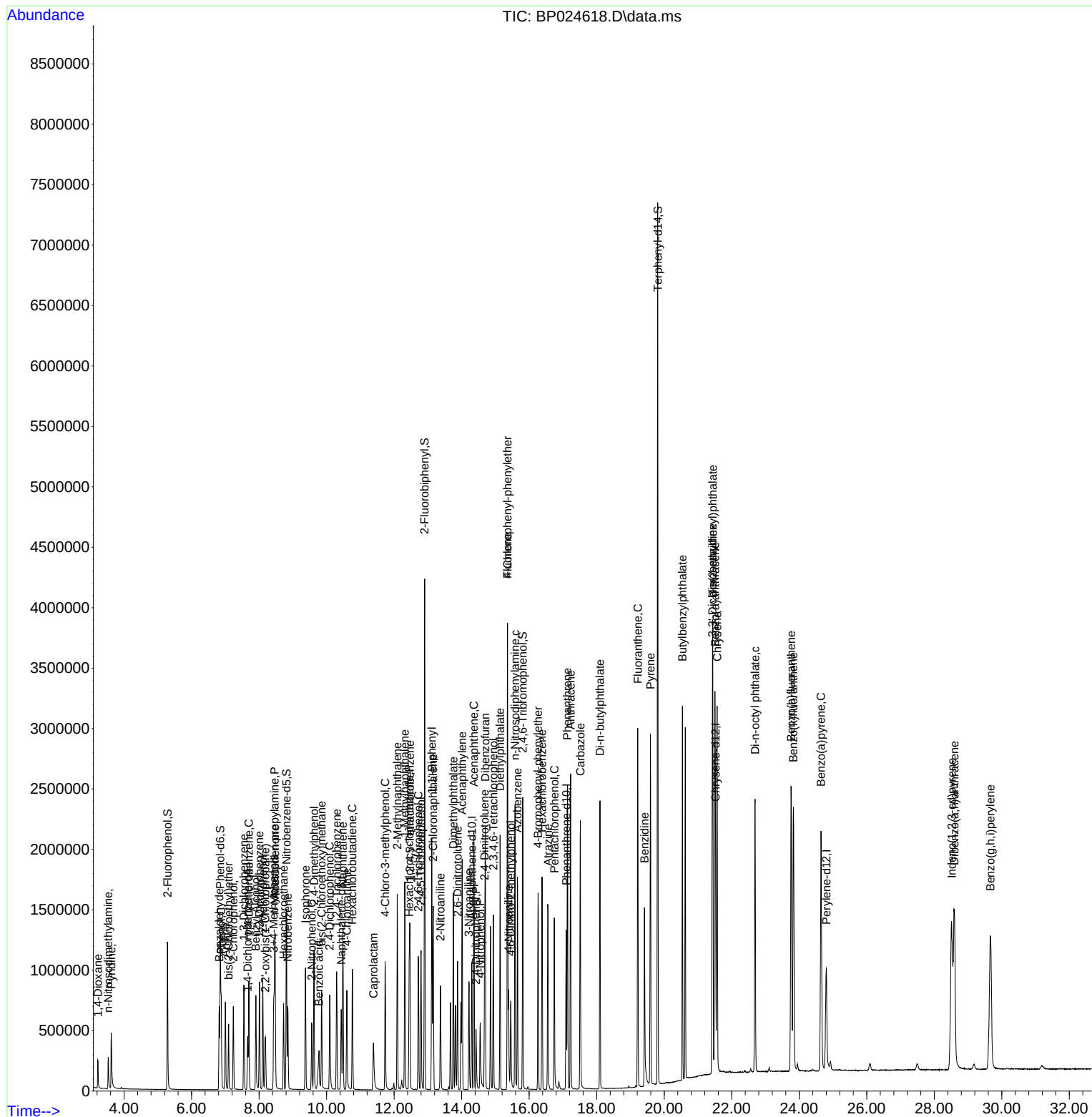
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024618.D
Acq On : 13 May 2025 13:24
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jaagrut Upadhyay 05/14/2025

Quant Time: May 13 16:06:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
 Data File : BP024619.D
 Acq On : 13 May 2025 14:05
 Operator : RC/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC050

Quant Time: May 13 16:07:39 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 15:55:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.663	152	111395	20.00	ng	0.00
21) Naphthalene-d8	10.434	136	489806	20.00	ng	0.00
39) Acenaphthene-d10	14.292	164	318760	20.00	ng	-0.01
64) Phenanthrene-d10	17.086	188	628781	20.00	ng	-0.01
76) Chrysene-d12	21.522	240	717340	20.00	ng	0.00
86) Perylene-d12	24.810	264	811421	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	708626	108.80	ng	0.00
7) Phenol-d6	6.852	99	930484	111.94	ng	0.00
23) Nitrobenzene-d5	8.810	82	1049445	108.26	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	587523	108.72	ng	0.00
45) 2-Fluorobiphenyl	12.904	172	2553765	104.96	ng	0.00
79) Terphenyl-d14	19.822	244	4398872	105.15	ng	0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.228	88	156571	51.20	ng	98
3) Pyridine	3.622	79	379522	55.97	ng	99
4) n-Nitrosodimethylamine	3.534	42	161654	54.00	ng	99
6) Aniline	7.005	93	593141	55.27	ng	99
8) 2-Chlorophenol	7.240	128	408016	55.19	ng	99
9) Benzaldehyde	6.822	77	290405	54.06	ng	100
10) Phenol	6.881	94	475413	55.41	ng	99
11) bis(2-Chloroethyl)ether	7.093	93	377787	53.59	ng	100
12) 1,3-Dichlorobenzene	7.552	146	451750	53.11	ng	99
13) 1,4-Dichlorobenzene	7.699	146	455796	53.28	ng	99
14) 1,2-Dichlorobenzene	8.010	146	439707	52.74	ng	100
15) Benzyl Alcohol	7.910	79	363689	57.58	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.181	45	450215	53.33	ng	98
17) 2-Methylphenol	8.110	107	347065	56.40	ng	98
18) Hexachloroethane	8.728	117	173580	52.95	ng	98
19) n-Nitroso-di-n-propyla...	8.463	70	318058	55.32	ng	99
20) 3+4-Methylphenols	8.440	107	474048	56.64	ng	98
22) Acetophenone	8.481	105	653878	53.44	ng	# 98
24) Nitrobenzene	8.852	77	456929	53.56	ng	99
25) Isophorone	9.375	82	921892	54.82	ng	99
26) 2-Nitrophenol	9.557	139	239844	57.38	ng	98
27) 2,4-Dimethylphenol	9.628	122	402585	54.62	ng	99
28) bis(2-Chloroethoxy)met...	9.852	93	542581	54.01	ng	100
29) 2,4-Dichlorophenol	10.099	162	400983	56.14	ng	98
30) 1,2,4-Trichlorobenzene	10.299	180	424561	52.75	ng	97
31) Naphthalene	10.481	128	1336265	52.65	ng	100
32) Benzoic acid	9.787	122	263657	50.71	ng	99
33) 4-Chloroaniline	10.599	127	569812	55.63	ng	99
34) Hexachlorobutadiene	10.769	225	271578	52.09	ng	99
35) Caprolactam	11.393	113	148586	57.53	ng	98
36) 4-Chloro-3-methylphenol	11.734	107	478787	54.97	ng	99
37) 2-Methylnaphthalene	12.093	142	873274	53.13	ng	99
38) 1-Methylnaphthalene	12.316	142	919827	52.31	ng	98
40) 1,2,4,5-Tetrachloroben...	12.469	216	497848	53.78	ng	100
41) Hexachlorocyclopentadiene	12.446	237	334752	59.64	ng	96
43) 2,4,6-Trichlorophenol	12.716	196	341059	56.89	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
 Data File : BP024619.D
 Acq On : 13 May 2025 14:05
 Operator : RC/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC050

Quant Time: May 13 16:07:39 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 15:55:25 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.793	196	375330	56.24	ng	98
46) 1,1'-Biphenyl	13.116	154	1263640	53.64	ng	100
47) 2-Chloronaphthalene	13.157	162	952857	53.04	ng	99
48) 2-Nitroaniline	13.369	65	303475	57.06	ng	99
49) Acenaphthylene	14.010	152	1616938	53.79	ng	100
50) Dimethylphthalate	13.751	163	1283491	52.83	ng	99
51) 2,6-Dinitrotoluene	13.875	165	281728	54.91	ng	99
52) Acenaphthene	14.357	154	923238	53.42	ng	100
53) 3-Nitroaniline	14.210	138	302341	57.71	ng	99
54) 2,4-Dinitrophenol	14.422	184	159888	51.86	ng	98
55) Dibenzofuran	14.698	168	1447333	52.50	ng	99
56) 4-Nitrophenol	14.545	139	238294	53.99	ng	99
57) 2,4-Dinitrotoluene	14.669	165	404684	55.94	ng	98
58) Fluorene	15.357	166	1190632	52.97	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.934	232	341204	55.11	ng	100
60) Diethylphthalate	15.134	149	1305791	53.18	ng	99
61) 4-Chlorophenyl-phenyle...	15.351	204	590421	52.67	ng	97
62) 4-Nitroaniline	15.392	138	298681	58.55	ng	99
63) Azobenzene	15.651	77	1121556	53.39	ng	98
65) 4,6-Dinitro-2-methylph...	15.451	198	234095	57.64	ng	98
66) n-Nitrosodiphenylamine	15.569	169	1048396	54.28	ng	99
67) 4-Bromophenyl-phenylether	16.263	248	396385	53.50	ng	99
68) Hexachlorobenzene	16.381	284	504987	53.64	ng	99
69) Atrazine	16.551	200	389749	55.07	ng	100
70) Pentachlorophenol	16.739	266	310477	58.71	ng	98
71) Phenanthrene	17.128	178	1838891	52.61	ng	100
72) Anthracene	17.228	178	1894573	53.87	ng	100
73) Carbazole	17.510	167	1750681	55.00	ng	100
74) Di-n-butylphthalate	18.104	149	2275163	55.58	ng	100
75) Fluoranthene	19.222	202	2199818	53.84	ng	100
77) Benzidine	19.422	184	1178505	59.85	ng	99
78) Pyrene	19.604	202	2282702	53.11	ng	100
80) Butylbenzylphthalate	20.551	149	1083395	56.68	ng	97
81) Benzo(a)anthracene	21.504	228	2396398	53.20	ng	99
82) 3,3'-Dichlorobenzidine	21.439	252	966906	57.80	ng	100
83) Chrysene	21.574	228	2250800	52.71	ng	100
84) Bis(2-ethylhexyl)phtha...	21.451	149	1585070	56.42	ng	100
85) Di-n-octyl phthalate	22.698	149	2614856	56.91	ng	100
87) Indeno(1,2,3-cd)pyrene	28.515	276	3262830	55.06	ng	99
88) Benzo(b)fluoranthene	23.763	252	2612438	56.25	ng	99
89) Benzo(k)fluoranthene	23.827	252	2552663	53.34	ng	99
90) Benzo(a)pyrene	24.645	252	2475976	55.51	ng	100
91) Dibenzo(a,h)anthracene	28.586	278	2679367	55.60	ng	99
92) Benzo(g,h,i)perylene	29.656	276	2625625	54.79	ng	99

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

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

TIC: BP024619.D\data.ms

Abundance

Time-->

1,4-Dioxane
n-Nitrosodimethylamine,
2-Fluorophenol,S
Benzaldehyde,Phenol-d6,S
bis(2-chloroethoxy)ether
1,2-dichlorobenzene,benzene,C
2,2'-oxybis[4-methylphenyl]ethane
N,N-dimethylacetamide,P
Nitrobenzene,nitrobenzene-d5,S
2-Nitrophenol,pyrene
Benzoic acid,bis(2-chloroethoxy)methane
2,4-Dichlorophenol,C
Napthalene,methyl napthalene
Hexachlorobutadiene,C
Caprolactam
4-Chloro-3-methylphenol,C
2-Methylnaphtalene
Hexachlorocyclopentadiene
2,4,6-Trichlorophenol,C
2-Chloronaphthalene
2-Nitroaniline
2-Ethyltoluene
Dimethylphthalate
Acenaphthylene
Acenaphthene,C
2,4-Dinitrotoluene
2,4-Dinitrofluorene
2,3,4,6-Tetrachlorophthalate
4-Nitroazobenzene
4-Nitroazobenzene,methyl ether
Azobenzene
1,7-Nitrosodiphenylamine,c
2,4,6-Trifluorophenol,S
Bis(2-nitrophenyl)ether
Phenanthrene
Pentafluorophenol,C
Phenanthrene,d10,l
Carbazole
Di-n-butylphthalate
Fluoranthene,C
Pyrene
Butylbenzylphthalate
Chrysene,d11,l
Dibenz(a,h)anthracene
Di-n-octyl phthalate,c
Benzofluoranthenes
Benzo(a)pyrene,C
Perylene-d12,l
Indeno(1,2,3-cd)pyrene
Benzo(g,h,i)perylene

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
 Data File : BP024620.D
 Acq On : 13 May 2025 14:45
 Operator : RC/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC060

Quant Time: May 13 16:08:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 15:55:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.663	152	106955	20.00	ng	0.00
21) Naphthalene-d8	10.434	136	484921	20.00	ng	0.00
39) Acenaphthene-d10	14.292	164	325327	20.00	ng	-0.01
64) Phenanthrene-d10	17.086	188	646756	20.00	ng	-0.01
76) Chrysene-d12	21.521	240	726281	20.00	ng	0.00
86) Perylene-d12	24.810	264	822943	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.281	112	784577	125.47	ng	0.00
7) Phenol-d6	6.858	99	1039562	130.26	ng	0.00
23) Nitrobenzene-d5	8.816	82	1188192	123.80	ng	0.00
42) 2,4,6-Tribromophenol	15.816	330	696428	126.27	ng	0.00
45) 2-Fluorobiphenyl	12.910	172	2956939	119.08	ng	0.00
79) Terphenyl-d14	19.822	244	5119872	120.88	ng	0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.222	88	170174	57.95	ng	99
3) Pyridine	3.617	79	419426	64.42	ng	98
4) n-Nitrosodimethylamine	3.528	42	178836	62.22	ng	99
6) Aniline	7.005	93	670773	65.10	ng	100
8) 2-Chlorophenol	7.240	128	459952	64.79	ng	99
9) Benzaldehyde	6.816	77	305987	59.33	ng	98
10) Phenol	6.881	94	535743	65.04	ng	99
11) bis(2-Chloroethyl)ether	7.099	93	416957	61.60	ng	99
12) 1,3-Dichlorobenzene	7.552	146	496139	60.75	ng	99
13) 1,4-Dichlorobenzene	7.699	146	502743	61.20	ng	99
14) 1,2-Dichlorobenzene	8.010	146	490458	61.27	ng	99
15) Benzyl Alcohol	7.910	79	413146	68.12	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.181	45	501972	61.93	ng	98
17) 2-Methylphenol	8.110	107	389272	65.89	ng	98
18) Hexachloroethane	8.728	117	191530	60.85	ng	97
19) n-Nitroso-di-n-propyla...	8.463	70	363059	65.76	ng	99
20) 3+4-Methylphenols	8.434	107	543003	67.57	ng	99
22) Acetophenone	8.481	105	744359	61.45	ng	# 98
24) Nitrobenzene	8.857	77	518098	61.34	ng	97
25) Isophorone	9.381	82	1048461	62.98	ng	99
26) 2-Nitrophenol	9.557	139	278764	67.36	ng	99
27) 2,4-Dimethylphenol	9.622	122	462148	63.34	ng	100
28) bis(2-Chloroethoxy)met...	9.851	93	610221	61.35	ng	99
29) 2,4-Dichlorophenol	10.093	162	459806	65.03	ng	98
30) 1,2,4-Trichlorobenzene	10.299	180	478505	60.05	ng	97
31) Naphthalene	10.487	128	1508460	60.03	ng	100
32) Benzoic acid	9.799	122	319375	60.53	ng	99
33) 4-Chloroaniline	10.599	127	671888	66.26	ng	99
34) Hexachlorobutadiene	10.769	225	303458	58.79	ng	98
35) Caprolactam	11.404	113	175653	68.70	ng	97
36) 4-Chloro-3-methylphenol	11.740	107	559138	64.84	ng	100
37) 2-Methylnaphthalene	12.098	142	1008171	61.96	ng	99
38) 1-Methylnaphthalene	12.316	142	1066290	61.25	ng	99
40) 1,2,4,5-Tetrachloroben...	12.469	216	566530	59.97	ng	100
41) Hexachlorocyclopentadiene	12.445	237	381621	66.62	ng	97
43) 2,4,6-Trichlorophenol	12.716	196	400552	65.46	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
 Data File : BP024620.D
 Acq On : 13 May 2025 14:45
 Operator : RC/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC060

Quant Time: May 13 16:08:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 15:55:25 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.798	196	436361	64.06	ng	99
46) 1,1'-Biphenyl	13.122	154	1437786	59.80	ng	100
47) 2-Chloronaphthalene	13.163	162	1105298	60.29	ng	100
48) 2-Nitroaniline	13.369	65	354977	65.40	ng	98
49) Acenaphthylene	14.016	152	1884018	61.41	ng	100
50) Dimethylphthalate	13.757	163	1498318	60.42	ng	100
51) 2,6-Dinitrotoluene	13.875	165	328682	62.76	ng	99
52) Acenaphthene	14.363	154	1072483	60.80	ng	100
53) 3-Nitroaniline	14.210	138	361174	67.54	ng	99
54) 2,4-Dinitrophenol	14.428	184	196350	61.10	ng	96
55) Dibenzofuran	14.698	168	1691790	60.13	ng	99
56) 4-Nitrophenol	14.545	139	281293	61.78	ng	98
57) 2,4-Dinitrotoluene	14.675	165	471525	63.87	ng	99
58) Fluorene	15.363	166	1376412	60.00	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.934	232	396678	62.78	ng	99
60) Diethylphthalate	15.134	149	1525628	60.87	ng	99
61) 4-Chlorophenyl-phenyle...	15.357	204	692230	60.51	ng	99
62) 4-Nitroaniline	15.404	138	354287	68.05	ng	99
63) Azobenzene	15.657	77	1310800	61.14	ng	97
65) 4,6-Dinitro-2-methylph...	15.457	198	278024	66.55	ng	95
66) n-Nitrosodiphenylamine	15.575	169	1205525	60.68	ng	100
67) 4-Bromophenyl-phenylether	16.269	248	469127	61.56	ng	99
68) Hexachlorobenzene	16.386	284	590615	60.99	ng	99
69) Atrazine	16.557	200	460742	63.29	ng	98
70) Pentachlorophenol	16.739	266	371465	68.29	ng	99
71) Phenanthrene	17.133	178	2183329	60.73	ng	100
72) Anthracene	17.233	178	2210412	61.11	ng	99
73) Carbazole	17.510	167	2042777	62.39	ng	100
74) Di-n-butylphthalate	18.098	149	2644959	62.81	ng	99
75) Fluoranthene	19.222	202	2594532	61.73	ng	100
77) Benzidine	19.422	184	1304259	65.42	ng	99
78) Pyrene	19.598	202	2661811	61.17	ng	100
80) Butylbenzylphthalate	20.551	149	1243403	64.25	ng	100
81) Benzo(a)anthracene	21.504	228	2778689	60.93	ng	99
82) 3,3'-Dichlorobenzidine	21.433	252	1114122	65.77	ng	100
83) Chrysene	21.574	228	2588513	59.88	ng	100
84) Bis(2-ethylhexyl)phtha...	21.445	149	1822019	64.05	ng	99
85) Di-n-octyl phthalate	22.692	149	2998832	64.47	ng	100
87) Indeno(1,2,3-cd)pyrene	28.533	276	3824922	63.64	ng	# 92
88) Benzo(b)fluoranthene	23.768	252	2922103	62.04	ng	99
89) Benzo(k)fluoranthene	23.845	252	3055252	62.95	ng	100
90) Benzo(a)pyrene	24.657	252	2881508	63.69	ng	100
91) Dibenzo(a,h)anthracene	28.603	278	3137905	64.20	ng	99
92) Benzo(g,h,i)perylene	29.692	276	3065416	63.07	ng	100

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

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

TIC: BP024620.D\data.ms

Abundance

Time-->

1.35e+07
1.3e+07
1.25e+07
1.2e+07
1.15e+07
1.1e+07
1.05e+07
1e+07
950000
900000
850000
800000
750000
700000
650000
600000
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500000
450000
400000
350000
300000
250000
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150000
100000
50000
0

4.00 6.00 8.00 10.00 12.00 14.00 16.00 18.00 20.00 22.00 24.00 26.00 28.00 30.00 32.00

1,4-Dioxane
n-Nitrosodimethylamine,
bis(2-chloroethyl)ether
2-Fluorophenyl,S
Benzofluorene
2-Chlorobenzene
1,2-Dichlorobenzene,C
Benzonitrile
2,2'-oxybis[propane]
N,N-Dimethylethylenediamine,P
Hexachlorocyclopentadiene,d5,S
Nitrobenzene
2-Nitrotoluene
Benzoic acid
2,4-Dichlorophenol,C
Naphthalene
4-Chloronaphthalene
Caprolactam
4-Chloro-3-methylphenol,C
2-Methylcaprolactam
Hexachlorocyclopentadiene
2,4-Dichlorophenol,C
2-Nitroaniline
2-Chlorobiphenyl
Dinitrofluorene
Acenaphthylene
Acenaphthene,C
4-Nitrophenol
2,3,4,6-Tetrachlorophthalic anhydride
4-Nitrophenylazobenzenesulfonic acid
4-Nitrophenylazobenzenesulfonic acid
4-Bromobiphenyl
Pentafluorobenzene
Phenanthrene-d10,L
Carbazole
Di-n-butylphthalate
Fluoranthene,C
Pyrene
Butylbenzylphthalate
Chrysene
Benzo(a)pyrene
Di-n-octyl phthalate,c
Benzo(b)fluoranthene
Benzo(k)fluoranthene
Benzo(a)pyrene,C
Perylene-d12,I
Indeno(1,2,3-cd)pyrene
Benzo(g,h,i)perylene
Terphenyl-d14,S

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
 Data File : BP024621.D
 Acq On : 13 May 2025 15:26
 Operator : RC/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC080

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/14/2025
 Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 16:10:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 15:55:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.663	152	134481	20.00	ng	0.00
21) Naphthalene-d8	10.434	136	584325	20.00	ng	0.00
39) Acenaphthene-d10	14.298	164	373575	20.00	ng	0.00
64) Phenanthrene-d10	17.104	188	713479	20.00	ng	0.00
76) Chrysene-d12	21.516	240	765954	20.00	ng	0.00
86) Perylene-d12	24.804	264	877352	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	1283582	163.25	ng	0.00
7) Phenol-d6	6.858	99	1670035	166.42	ng	0.00
23) Nitrobenzene-d5	8.822	82	1840183	159.12	ng	0.01
42) 2,4,6-Tribromophenol	15.828	330	1032638	163.05	ng	0.02
45) 2-Fluorobiphenyl	12.910	172	4438179	155.65	ng	0.00
79) Terphenyl-d14	19.816	244	7152255	160.11	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.228	88	275790	74.70	ng	99
3) Pyridine	3.622	79	679364	82.98	ng	98
4) n-Nitrosodimethylamine	3.534	42	289012	79.96	ng	100
6) Aniline	7.005	93	1075238	82.99	ng	100
8) 2-Chlorophenol	7.240	128	740005	82.91	ng	99
9) Benzaldehyde	6.822	77	412028	63.54	ng	100
10) Phenol	6.887	94	859122	82.95	ng	100
11) bis(2-Chloroethyl)ether	7.099	93	670572	78.79	ng	100
12) 1,3-Dichlorobenzene	7.552	146	795953	77.51	ng	100
13) 1,4-Dichlorobenzene	7.699	146	802182	77.67	ng	98
14) 1,2-Dichlorobenzene	8.010	146	779316	77.43	ng	99
15) Benzyl Alcohol	7.910	79	664684	87.16	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.187	45	782240	76.75	ng	98
17) 2-Methylphenol	8.110	107	620901	83.58	ng	99
18) Hexachloroethane	8.728	117	306812	77.52	ng	97
19) n-Nitroso-di-n-propyla...	8.469	70	551845	79.50	ng	98
20) 3+4-Methylphenols	8.440	107	852078	84.32	ng	99
22) Acetophenone	8.481	105	1147610	78.62	ng	# 99
24) Nitrobenzene	8.857	77	804153	79.02	ng	98
25) Isophorone	9.381	82	1593235	79.42	ng	100
26) 2-Nitrophenol	9.557	139	442185	88.67	ng	98
27) 2,4-Dimethylphenol	9.628	122	722439	82.17	ng	100
28) bis(2-Chloroethoxy)met...	9.857	93	946615	78.98	ng	99
29) 2,4-Dichlorophenol	10.099	162	721701	84.70	ng	97
30) 1,2,4-Trichlorobenzene	10.299	180	755529	78.69	ng	98
31) Naphthalene	10.487	128	2354789	77.77	ng	100
32) Benzoic acid	9.828	122	525308	80.15	ng	99
33) 4-Chloroaniline	10.599	127	1033865	84.61	ng	99
34) Hexachlorobutadiene	10.769	225	481140	77.35	ng	97
35) Caprolactam	11.416	113	257252	83.50	ng	96
36) 4-Chloro-3-methylphenol	11.734	107	838983	80.74	ng	99
37) 2-Methylnaphthalene	12.093	142	1529445	78.01	ng	100
38) 1-Methylnaphthalene	12.322	142	1613775	76.92	ng	99
40) 1,2,4,5-Tetrachloroben...	12.469	216	875750	80.73	ng	100
41) Hexachlorocyclopentadiene	12.446	237	628436	95.54	ng	97
43) 2,4,6-Trichlorophenol	12.716	196	601332	85.58	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
 Data File : BP024621.D
 Acq On : 13 May 2025 15:26
 Operator : RC/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDICC080

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/14/2025
 Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 16:10:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 15:55:25 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.798	196	657399	84.05	ng	97
46) 1,1'-Biphenyl	13.122	154	2175624	78.79	ng	100
47) 2-Chloronaphthalene	13.163	162	1662979	78.99	ng	99
48) 2-Nitroaniline	13.375	65	512458	82.22	ng	97
49) Acenaphthylene	14.016	152	2773742	78.73	ng	99
50) Dimethylphthalate	13.763	163	2182359	76.64	ng	100
51) 2,6-Dinitrotoluene	13.887	165	476606	79.26	ng	97
52) Acenaphthene	14.363	154	1572103	77.62	ng	99
53) 3-Nitroaniline	14.222	138	522849	85.15	ng	100
54) 2,4-Dinitrophenol	14.428	184	300458	79.29	ng	98
55) Dibenzofuran	14.704	168	2477374	76.68	ng	99
56) 4-Nitrophenol	14.557	139	409954	77.27	ng	98
57) 2,4-Dinitrotoluene	14.681	165	678287	80.01	ng	97
58) Fluorene	15.363	166	2003709	76.06	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.945	232	588947	81.17	ng	98
60) Diethylphthalate	15.145	149	2193488	76.22	ng	99
61) 4-Chlorophenyl-phenyle...	15.363	204	997863	75.96	ng	99
62) 4-Nitroaniline	15.404	138	509582	85.24	ng	99
63) Azobenzene	15.663	77	1858146	75.47	ng	99
65) 4,6-Dinitro-2-methylph...	15.469	198	401011	87.01	ng	98
66) n-Nitrosodiphenylamine	15.587	169	1711679	78.10	ng	99
67) 4-Bromophenyl-phenylether	16.281	248	684619	81.43	ng	98
68) Hexachlorobenzene	16.398	284	856547	80.18	ng	99
69) Atrazine	16.575	200	645877	80.42	ng	99
70) Pentachlorophenol	16.751	266	548492	91.41	ng	99
71) Phenanthrene	17.145	178	3091665	77.95	ng	99
72) Anthracene	17.239	178	3161669	79.23	ng	99
73) Carbazole	17.522	167	2892236	80.08	ng	99
74) Di-n-butylphthalate	18.110	149	3747927	80.68	ng	99
75) Fluoranthene	19.228	202	3629085	78.27	ng	99
77) Benzidine	19.422	184	1678507	79.83	ng	100
78) Pyrene	19.604	202	3747276	81.65	ng	99
80) Butylbenzylphthalate	20.545	149	1741954	85.34	ng	98
81) Benzo(a)anthracene	21.498	228	3829787	79.63	ng	99
82) 3,3'-Dichlorobenzidine	21.422	252	1575691	88.21	ng	100
83) Chrysene	21.569	228	3615014	79.29	ng	99
84) Bis(2-ethylhexyl)phtha...	21.439	149	2577445	85.91	ng	99
85) Di-n-octyl phthalate	22.686	149	4341653	88.50	ng	99
87) Indeno(1,2,3-cd)pyrene	28.515	276	5243999m	81.85	ng	
88) Benzo(b)fluoranthene	23.768	252	4173798	83.11	ng	99
89) Benzo(k)fluoranthene	23.833	252	4160268	80.40	ng	100
90) Benzo(a)pyrene	24.645	252	3988360	82.69	ng	99
91) Dibenzo(a,h)anthracene	28.598	278	4338518	83.26	ng	99
92) Benzo(g,h,i)perylene	29.680	276	4253459	82.08	ng	99

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

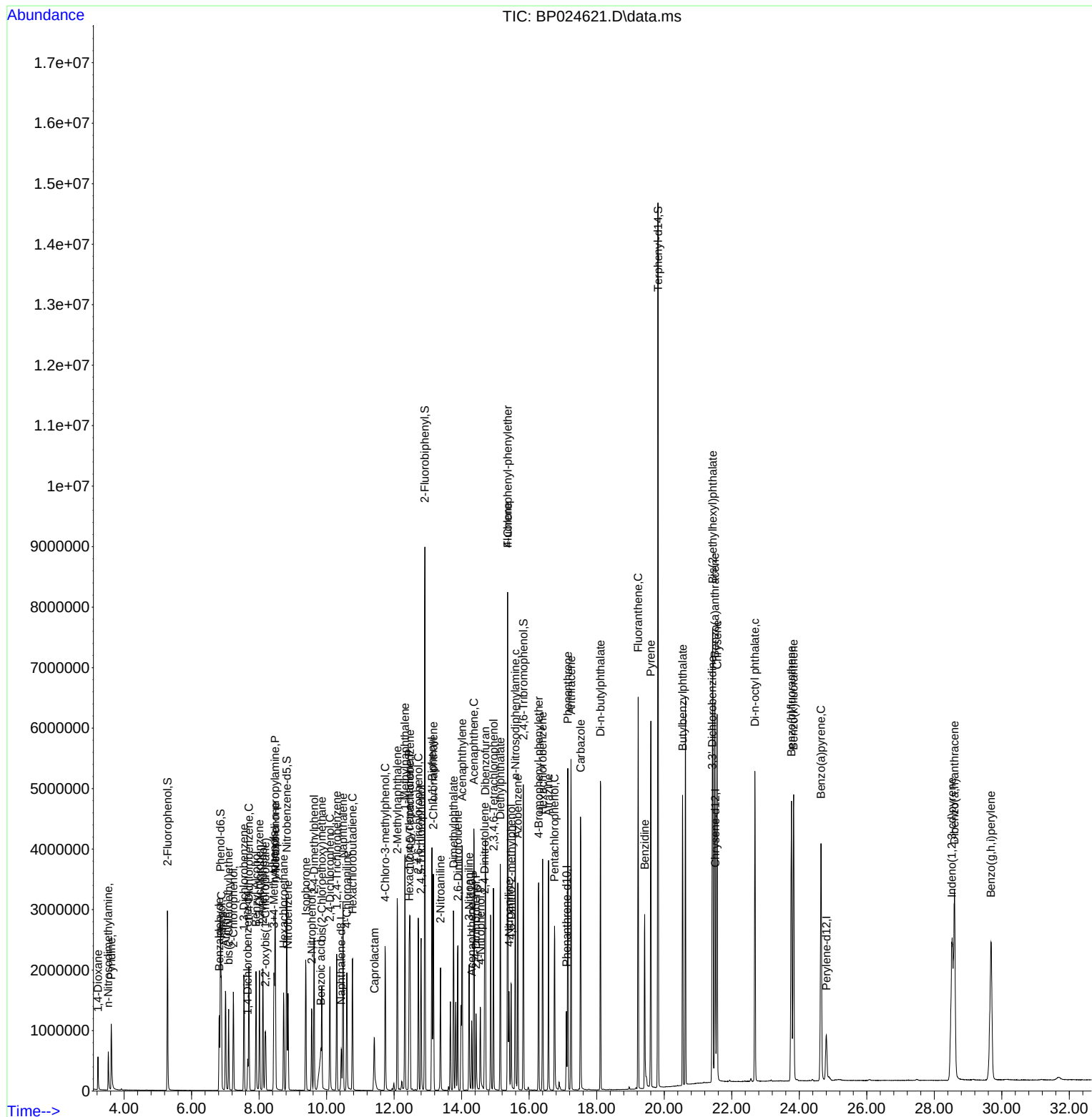
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024621.D
Acq On : 13 May 2025 15:26
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 16:10:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
 Data File : BP024622.D
 Acq On : 13 May 2025 17:01
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 ICVBP051325

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/14/2025
 Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 18:01:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.657	152	144423	20.00	ng	0.00
21) Naphthalene-d8	10.434	136	621777	20.00	ng	0.00
39) Acenaphthene-d10	14.292	164	391112	20.00	ng	-0.01
64) Phenanthrene-d10	17.092	188	780511	20.00	ng	0.00
76) Chrysene-d12	21.521	240	868822	20.00	ng	0.00
86) Perylene-d12	24.815	264	1015341	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	658249	77.95	ng	0.00
7) Phenol-d6	6.852	99	852330	79.09	ng	0.00
23) Nitrobenzene-d5	8.810	82	962660	78.23	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	520660	78.53	ng	0.00
45) 2-Fluorobiphenyl	12.904	172	2290715	76.73	ng	0.00
79) Terphenyl-d14	19.822	244	3889002	76.75	ng	0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.222	88	145871	36.79	ng	99
3) Pyridine	3.622	79	347515	39.53	ng	97
4) n-Nitrosodimethylamine	3.528	42	147412	37.98	ng	98
6) Aniline	6.999	93	545556	39.21	ng	100
8) 2-Chlorophenol	7.234	128	377358	39.37	ng	97
9) Benzaldehyde	6.816	77	272303	39.03	ng	99
10) Phenol	6.881	94	434788	39.09	ng	99
11) bis(2-Chloroethyl)ether	7.093	93	346744	37.94	ng	99
12) 1,3-Dichlorobenzene	7.552	146	417899	37.89	ng	98
13) 1,4-Dichlorobenzene	7.699	146	420432	37.90	ng	99
14) 1,2-Dichlorobenzene	8.010	146	409587	37.90	ng	99
15) Benzyl Alcohol	7.904	79	332015	40.54	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.181	45	416339	38.04	ng	99
17) 2-Methylphenol	8.110	107	316066	39.62	ng	99
18) Hexachloroethane	8.728	117	158167	37.21	ng	99
19) n-Nitroso-di-n-propyla...	8.463	70	291961	39.16	ng	99
20) 3+4-Methylphenols	8.434	107	429326	39.56	ng	99
22) Acetophenone	8.475	105	597464	38.47	ng	99
24) Nitrobenzene	8.851	77	416985	38.50	ng	96
25) Isophorone	9.375	82	821637	38.49	ng	99
26) 2-Nitrophenol	9.557	139	218211	41.12	ng	95
27) 2,4-Dimethylphenol	9.622	122	369418	39.48	ng	100
28) bis(2-Chloroethoxy)met...	9.851	93	493722	38.71	ng	100
29) 2,4-Dichlorophenol	10.093	162	364373	40.19	ng	97
30) 1,2,4-Trichlorobenzene	10.298	180	389362	38.11	ng	98
31) Naphthalene	10.481	128	1226624	38.07	ng	100
32) Benzoic acid	9.781	122	223660	36.46	ng	98
33) 4-Chloroaniline	10.598	127	524873	40.37	ng	99
34) Hexachlorobutadiene	10.763	225	246776	37.29	ng	98
35) Caprolactam	11.387	113	130399	39.75	ng	99
36) 4-Chloro-3-methylphenol	11.740	107	431344	39.01	ng	100
37) 2-Methylnaphthalene	12.098	142	789724	37.85	ng	99
38) 1-Methylnaphthalene	12.316	142	833521	37.34	ng	100
40) 1,2,4,5-Tetrachloroben...	12.469	216	444420	39.13	ng	100
41) Hexachlorocyclopentadiene	12.445	237	305575	44.37	ng	98
43) 2,4,6-Trichlorophenol	12.716	196	305651	41.55	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
 Data File : BP024622.D
 Acq On : 13 May 2025 17:01
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 ICVBP051325

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/14/2025
 Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 18:01:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.798	196	336252	41.06	ng	97
46) 1,1'-Biphenyl	13.116	154	1124669	38.91	ng	99
47) 2-Chloronaphthalene	13.157	162	864853	39.24	ng	98
48) 2-Nitroaniline	13.369	65	264965	40.60	ng	97
49) Acenaphthylene	14.010	152	1419821	38.49	ng	100
50) Dimethylphthalate	13.751	163	1155211	38.75	ng	99
51) 2,6-Dinitrotoluene	13.875	165	247537	39.32	ng	99
52) Acenaphthene	14.357	154	803755	37.90	ng	99
53) 3-Nitroaniline	14.210	138	262737	40.87	ng	100
54) 2,4-Dinitrophenol	14.428	184	135624	37.83	ng	96
55) Dibenzofuran	14.698	168	1282228	37.91	ng	99
56) 4-Nitrophenol	14.545	139	202528	38.70	ng	97
57) 2,4-Dinitrotoluene	14.675	165	354817	39.97	ng	99
58) Fluorene	15.357	166	1059642	38.42	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.934	232	298327	39.27	ng	99
60) Diethylphthalate	15.134	149	1150091	38.17	ng	100
61) 4-Chlorophenyl-phenyle...	15.357	204	526066	38.25	ng	99
62) 4-Nitroaniline	15.398	138	265185	42.72	ng	98
63) Azobenzene	15.657	77	1000653	38.82	ng	98
65) 4,6-Dinitro-2-methylph...	15.451	198	203200	40.30	ng	98
66) n-Nitrosodiphenylamine	15.575	169	920187	38.38	ng	100
67) 4-Bromophenyl-phenylether	16.269	248	357846	38.91	ng	97
68) Hexachlorobenzene	16.386	284	446142	38.18	ng	99
69) Atrazine	16.551	200	347661	39.57	ng	99
70) Pentachlorophenol	16.739	266	269781	41.12	ng	99
71) Phenanthrene	17.133	178	1629118	37.55	ng	99
72) Anthracene	17.228	178	1669395	38.24	ng	100
73) Carbazole	17.510	167	1563685	39.57	ng	99
74) Di-n-butylphthalate	18.098	149	1978741	38.94	ng	100
75) Fluoranthene	19.222	202	1956043	38.57	ng	100
77) Benzidine	19.422	184	1023514	43.25	ng	99
78) Pyrene	19.604	202	1992845	38.28	ng	100
80) Butylbenzylphthalate	20.557	149	938210	40.52	ng	96
81) Benzo(a)anthracene	21.510	228	2121561	38.89	ng	99
82) 3,3'-Dichlorobenzidine	21.433	252	861323	42.51	ng	100
83) Chrysene	21.574	228	1976940	38.23	ng	99
84) Bis(2-ethylhexyl)phtha...	21.445	149	1375919	40.43	ng	100
85) Di-n-octyl phthalate	22.698	149	2321673	41.72	ng	100
87) Indeno(1,2,3-cd)pyrene	28.515	276	2879864m	38.85	ng	
88) Benzo(b)fluoranthene	23.768	252	2283322	39.29	ng	100
89) Benzo(k)fluoranthene	23.833	252	2289000	38.22	ng	100
90) Benzo(a)pyrene	24.668	252	2177020	39.00	ng	99
91) Dibenzo(a,h)anthracene	28.615	278	2374558	39.38	ng	100
92) Benzo(g,h,i)perylene	29.686	276	2333151	38.91	ng	100

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

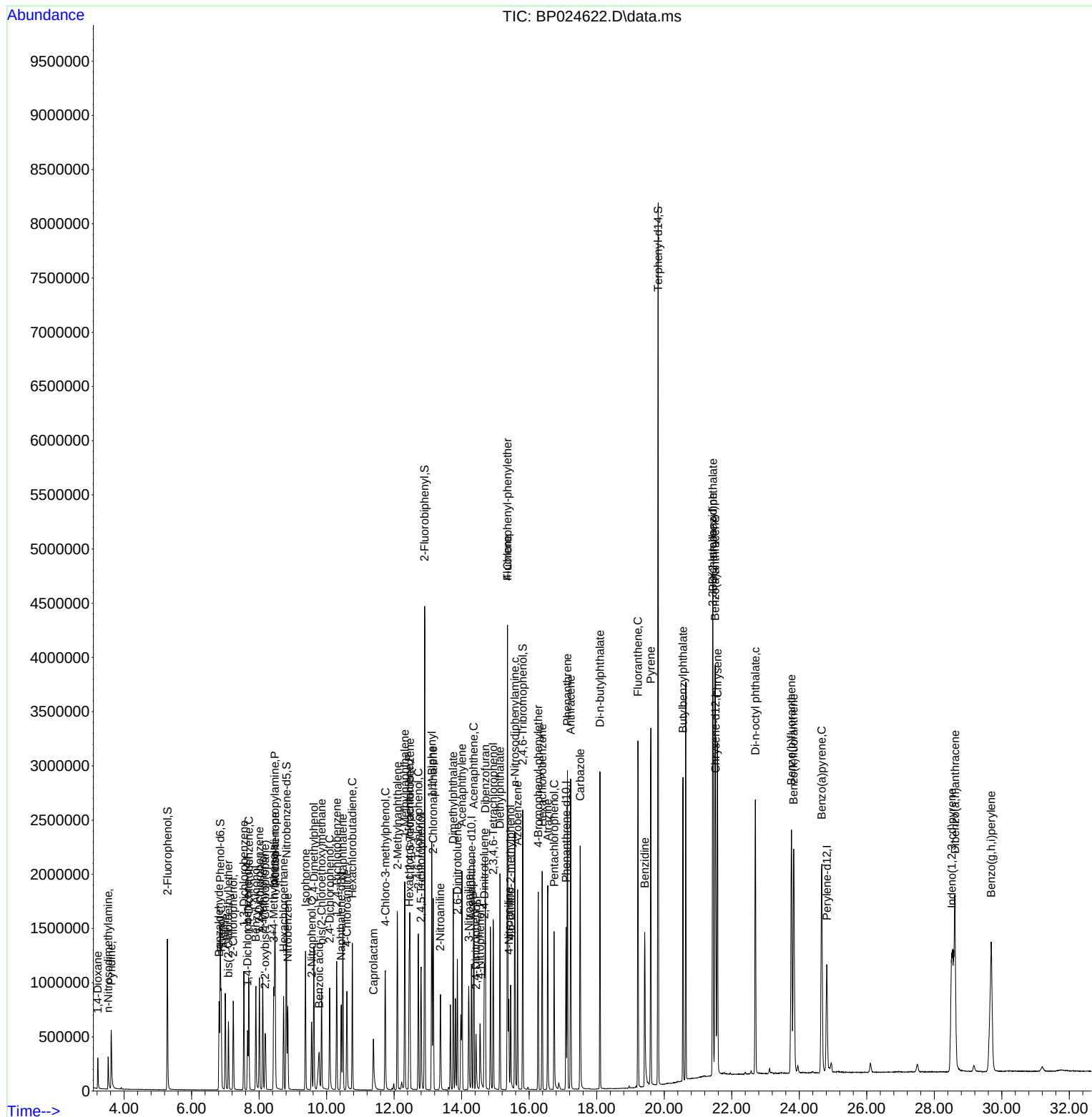
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Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\  
Data File : BP024622.D  
Acq On    : 13 May 2025   17:01  
Operator  : RC/JU  
Sample    : SSTDICV040  
Misc      :  
ALS Vial  : 11    Sample Multiplier: 1
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Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 18:01:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
 Data File : BP024622.D
 Acq On : 13 May 2025 17:01
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 ICVBP051325

Quant Time: May 13 18:01:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	119	0.00
2	1,4-Dioxane	0.549	0.505	8.0	119	0.00
3	Pyridine	1.218	1.203	1.2	120	0.00
4	n-Nitrosodimethylamine	0.538	0.510	5.2	118	0.00
5 S	2-Fluorophenol	1.169	1.139	2.6	123	0.00
6	Aniline	1.927	1.889	2.0	118	0.00
7 S	Phenol-d6	1.492	1.475	1.1	120	0.00
8	2-Chlorophenol	1.327	1.306	1.6	120	0.00
9	Benzaldehyde	0.966	0.943	2.4	118	0.00
10 C	Phenol	1.540	1.505	2.3	119	0.00
11	bis(2-Chloroethyl)ether	1.266	1.200	5.2	118	0.00
12	1,3-Dichlorobenzene	1.527	1.447	5.2	120	0.00
13 C	1,4-Dichlorobenzene	1.536	1.456	5.2	118	0.00
14	1,2-Dichlorobenzene	1.497	1.418	5.3	119	0.00
15	Benzyl Alcohol	1.134	1.149	-1.3	119	0.00
16	2,2'-oxybis(1-Chloropropane	1.516	1.441	4.9	117	0.00
17	2-Methylphenol	1.105	1.094	1.0	119	0.00
18	Hexachloroethane	0.589	0.548	7.0	119	0.00
19 P	n-Nitroso-di-n-propylamine	1.032	1.011	2.0	115	0.00
20	3+4-Methylphenols	1.503	1.486	1.1	117	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	115	0.00
22	Acetophenone	0.500	0.480	4.0	115	0.00
23 S	Nitrobenzene-d5	0.396	0.387	2.3	116	0.00
24	Nitrobenzene	0.348	0.335	3.7	115	0.00
25	Isophorone	0.687	0.661	3.8	113	0.00
26 C	2-Nitrophenol	0.171	0.175	-2.3	118	0.00
27	2,4-Dimethylphenol	0.301	0.297	1.3	115	0.00
28	bis(2-Chloroethoxy)methane	0.410	0.397	3.2	115	0.00
29 C	2,4-Dichlorophenol	0.292	0.293	-0.3	116	0.00
30	1,2,4-Trichlorobenzene	0.329	0.313	4.9	118	0.00
31	Naphthalene	1.036	0.986	4.8	116	0.00
32	Benzoic acid	0.181	0.180	0.6	108	0.00
33	4-Chloroaniline	0.418	0.422	-1.0	116	0.00
34 C	Hexachlorobutadiene	0.213	0.198	7.0	115	0.00
35	Caprolactam	0.106	0.105	0.9	110	0.00
36 C	4-Chloro-3-methylphenol	0.356	0.347	2.5	112	0.00
37	2-Methylnaphthalene	0.671	0.635	5.4	114	0.00
38	1-Methylnaphthalene	0.718	0.670	6.7	112	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	108	-0.01
40	1,2,4,5-Tetrachlorobenzene	0.581	0.568	2.2	112	0.00
41 P	Hexachlorocyclopentadiene	0.352	0.391	-11.1	118	0.00
42 S	2,4,6-Tribromophenol	0.339	0.333	1.8	111	0.00
43 C	2,4,6-Trichlorophenol	0.376	0.391	-4.0	114	0.00
44	2,4,5-Trichlorophenol	0.419	0.430	-2.6	115	0.00
45 S	2-Fluorobiphenyl	1.527	1.464	4.1	110	0.00
46	1,1'-Biphenyl	1.478	1.438	2.7	112	0.00
47	2-Chloronaphthalene	1.127	1.106	1.9	112	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
 Data File : BP024622.D
 Acq On : 13 May 2025 17:01
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 ICVBP051325

Quant Time: May 13 18:01:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	2-Nitroaniline	0.334	0.339	-1.5	109	0.00
49	Acenaphthylene	1.886	1.815	3.8	109	0.00
50	Dimethylphthalate	1.524	1.477	3.1	110	0.00
51	2,6-Dinitrotoluene	0.322	0.316	1.9	109	0.00
52 C	Acenaphthene	1.084	1.028	5.2	108	0.00
53	3-Nitroaniline	0.329	0.336	-2.1	107	0.00
54 P	2,4-Dinitrophenol	0.169	0.173	-2.4	109	0.00
55	Dibenzofuran	1.730	1.639	5.3	108	0.00
56 P	4-Nitrophenol	0.250	0.259	-3.6	109	0.00
57	2,4-Dinitrotoluene	0.454	0.454	0.0	108	0.00
58	Fluorene	1.410	1.355	3.9	109	0.00
59	2,3,4,6-Tetrachlorophenol	0.388	0.381	1.8	109	0.00
60	Diethylphthalate	1.541	1.470	4.6	110	0.00
61	4-Chlorophenyl-phenylether	0.703	0.673	4.3	111	0.00
62	4-Nitroaniline	0.317	0.339	-6.9	111	0.00
63	Azobenzene	1.318	1.279	3.0	110	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	109	0.00
65	4,6-Dinitro-2-methylphenol	0.129	0.130	-0.8	110	0.00
66 c	n-Nitrosodiphenylamine	0.614	0.589	4.1	108	0.00
67	4-Bromophenyl-phenylether	0.236	0.229	3.0	111	0.00
68	Hexachlorobenzene	0.299	0.286	4.3	110	0.00
69	Atrazine	0.225	0.223	0.9	111	0.00
70 C	Pentachlorophenol	0.168	0.173	-3.0	109	0.00
71	Phenanthrene	1.112	1.044	6.1	108	0.00
72	Anthracene	1.119	1.069	4.5	108	0.00
73	Carbazole	1.012	1.002	1.0	109	0.00
74	Di-n-butylphthalate	1.302	1.268	2.6	109	0.00
75 C	Fluoranthene	1.300	1.253	3.6	109	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	107	0.00
77	Benzidine	0.545	0.589	-8.1	113	0.00
78	Pyrene	1.198	1.147	4.3	107	0.01
79 S	Terphenyl-d14	1.166	1.119	4.0	107	0.01
80	Butylbenzylphthalate	0.533	0.540	-1.3	110	0.02
81	Benzo(a)anthracene	1.256	1.221	2.8	108	0.00
82	3,3'-Dichlorobenzidine	0.466	0.496	-6.4	111	0.00
83	Chrysene	1.190	1.138	4.4	108	0.00
84	Bis(2-ethylhexyl)phthalate	0.783	0.792	-1.1	111	0.00
85 c	Di-n-octyl phthalate	1.281	1.336	-4.3	112	0.00
86 I	Perylene-d12	1.000	1.000	0.0	109	0.01
87	Indeno(1,2,3-cd)pyrene	1.460	1.418	2.9	109	0.00
88	Benzo(b)fluoranthene	1.145	1.124	1.8	111	0.01
89	Benzo(k)fluoranthene	1.180	1.127	4.5	108	0.00
90 C	Benzo(a)pyrene	1.099	1.072	2.5	110	0.02
91	Dibenzo(a,h)anthracene	1.188	1.169	1.6	109	0.02
92	Benzo(g,h,i)perylene	1.181	1.149	2.7	109	0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024622.D
Acq On : 13 May 2025 17:01
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Quant Time: May 13 18:01:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
 Data File : BP024622.D
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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	119	0.00
2	1,4-Dioxane	40.000	36.789	8.0	119	0.00
3	Pyridine	40.000	39.526	1.2	120	0.00
4	n-Nitrosodimethylamine	40.000	37.979	5.1	118	0.00
5 S	2-Fluorophenol	80.000	77.955	2.6	123	0.00
6	Aniline	40.000	39.210	2.0	118	0.00
7 S	Phenol-d6	80.000	79.089	1.1	120	0.00
8	2-Chlorophenol	40.000	39.367	1.6	120	0.00
9	Benzaldehyde	40.000	39.033	2.4	118	0.00
10 C	Phenol	40.000	39.089	2.3	119	0.00
11	bis(2-Chloroethyl)ether	40.000	37.938	5.2	118	0.00
12	1,3-Dichlorobenzene	40.000	37.893	5.3	120	0.00
13 C	1,4-Dichlorobenzene	40.000	37.904	5.2	118	0.00
14	1,2-Dichlorobenzene	40.000	37.896	5.3	119	0.00
15	Benzyl Alcohol	40.000	40.541	-1.4	119	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	38.037	4.9	117	0.00
17	2-Methylphenol	40.000	39.618	1.0	119	0.00
18	Hexachloroethane	40.000	37.211	7.0	119	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	39.165	2.1	115	0.00
20	3+4-Methylphenols	40.000	39.562	1.1	117	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	115	0.00
22	Acetophenone	40.000	38.468	3.8	115	0.00
23 S	Nitrobenzene-d5	80.000	78.227	2.2	116	0.00
24	Nitrobenzene	40.000	38.505	3.7	115	0.00
25	Isophorone	40.000	38.491	3.8	113	0.00
26 C	2-Nitrophenol	40.000	41.121	-2.8	118	0.00
27	2,4-Dimethylphenol	40.000	39.484	1.3	115	0.00
28	bis(2-Chloroethoxy)methane	40.000	38.714	3.2	115	0.00
29 C	2,4-Dichlorophenol	40.000	40.189	-0.5	116	0.00
30	1,2,4-Trichlorobenzene	40.000	38.109	4.7	118	0.00
31	Naphthalene	40.000	38.069	4.8	116	0.00
32	Benzoic acid	40.000	36.464	8.8	108	0.00
33	4-Chloroaniline	40.000	40.368	-0.9	116	0.00
34 C	Hexachlorobutadiene	40.000	37.285	6.8	115	0.00
35	Caprolactam	40.000	39.752	0.6	110	0.00
36 C	4-Chloro-3-methylphenol	40.000	39.013	2.5	112	0.00
37	2-Methylnaphthalene	40.000	37.852	5.4	114	0.00
38	1-Methylnaphthalene	40.000	37.339	6.7	112	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	108	-0.01
40	1,2,4,5-Tetrachlorobenzene	40.000	39.130	2.2	112	0.00
41 P	Hexachlorocyclopentadiene	40.000	44.371	-10.9	118	0.00
42 S	2,4,6-Tribromophenol	80.000	78.525	1.8	111	0.00
43 C	2,4,6-Trichlorophenol	40.000	41.549	-3.9	114	0.00
44	2,4,5-Trichlorophenol	40.000	41.064	-2.7	115	0.00
45 S	2-Fluorobiphenyl	80.000	76.733	4.1	110	0.00
46	1,1'-Biphenyl	40.000	38.906	2.7	112	0.00
47	2-Chloronaphthalene	40.000	39.238	1.9	112	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
 Data File : BP024622.D
 Acq On : 13 May 2025 17:01
 Operator : RC/JU
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 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 ICVBP051325

Quant Time: May 13 18:01:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	2-Nitroaniline	40.000	40.604	-1.5	109	0.00
49	Acenaphthylene	40.000	38.493	3.8	109	0.00
50	Dimethylphthalate	40.000	38.751	3.1	110	0.00
51	2,6-Dinitrotoluene	40.000	39.317	1.7	109	0.00
52 C	Acenaphthene	40.000	37.904	5.2	108	0.00
53	3-Nitroaniline	40.000	40.871	-2.2	107	0.00
54 P	2,4-Dinitrophenol	40.000	37.829	5.4	109	0.00
55	Dibenzofuran	40.000	37.910	5.2	108	0.00
56 P	4-Nitrophenol	40.000	38.698	3.3	109	0.00
57	2,4-Dinitrotoluene	40.000	39.975	0.1	108	0.00
58	Fluorene	40.000	38.422	3.9	109	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	39.274	1.8	109	0.00
60	Diethylphthalate	40.000	38.171	4.6	110	0.00
61	4-Chlorophenyl-phenylether	40.000	38.249	4.4	111	0.00
62	4-Nitroaniline	40.000	42.722	-6.8	111	0.00
63	Azobenzene	40.000	38.822	2.9	110	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	109	0.00
65	4,6-Dinitro-2-methylphenol	40.000	40.305	-0.8	110	0.00
66 c	n-Nitrosodiphenylamine	40.000	38.382	4.0	108	0.00
67	4-Bromophenyl-phenylether	40.000	38.909	2.7	111	0.00
68	Hexachlorobenzene	40.000	38.175	4.6	110	0.00
69	Atrazine	40.000	39.570	1.1	111	0.00
70 C	Pentachlorophenol	40.000	41.124	-2.8	109	0.00
71	Phenanthrene	40.000	37.546	6.1	108	0.00
72	Anthracene	40.000	38.241	4.4	108	0.00
73	Carbazole	40.000	39.575	1.1	109	0.00
74	Di-n-butylphthalate	40.000	38.939	2.7	109	0.00
75 C	Fluoranthene	40.000	38.566	3.6	109	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	107	0.00
77	Benzydine	40.000	43.253	-8.1	113	0.00
78	Pyrene	40.000	38.281	4.3	107	0.01
79 S	Terphenyl-d14	80.000	76.753	4.1	107	0.01
80	Butylbenzylphthalate	40.000	40.523	-1.3	110	0.02
81	Benzo(a)anthracene	40.000	38.889	2.8	108	0.00
82	3,3'-Dichlorobenzidine	40.000	42.508	-6.3	111	0.00
83	Chrysene	40.000	38.227	4.4	108	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	40.433	-1.1	111	0.00
85 c	Di-n-octyl phthalate	40.000	41.721	-4.3	112	0.00
86 I	Perylene-d12	20.000	20.000	0.0	109	0.01
87	Indeno(1,2,3-cd)pyrene	40.000	38.851	2.9	109	0.00
88	Benzo(b)fluoranthene	40.000	39.289	1.8	111	0.01
89	Benzo(k)fluoranthene	40.000	38.223	4.4	108	0.00
90 C	Benzo(a)pyrene	40.000	39.004	2.5	110	0.02
91	Dibenzo(a,h)anthracene	40.000	39.377	1.6	109	0.02
92	Benzo(g,h,i)perylene	40.000	38.906	2.7	109	0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024622.D
Acq On : 13 May 2025 17:01
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Quant Time: May 13 18:01:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032

Instrument ID: BNA_F Calibration Date/Time: 05/19/2025 10:09

Lab File ID: BF142441.D Init. Calib. Date(s): 05/05/2025 05/05/2025

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.172	1.227		4.7	
Benzaldehyde	0.843	0.843		0.0	
Phenol-d6	1.441	1.481		2.8	
Phenol	1.531	1.710		11.7	20.0
bis(2-Chloroethyl)ether	1.506	1.207		-19.9	
2-Chlorophenol	1.252	1.349		7.7	
2-Methylphenol	1.014	1.039		2.5	
2,2-oxybis(1-Chloropropane)	2.249	2.042		-9.2	
Acetophenone	0.445	0.447		0.4	
3+4-Methylphenols	1.265	1.317		4.1	
n-Nitroso-di-n-propylamine	0.891	0.862	0.050	-3.3	
Nitrobenzene-d5	0.328	0.377		14.9	
Hexachloroethane	0.478	0.514		7.5	
Nitrobenzene	0.309	0.344		11.3	
Isophorone	0.621	0.614		-1.1	
2-Nitrophenol	0.129	0.186		44.2	20.0
2,4-Dimethylphenol	0.312	0.324		3.8	
bis(2-Chloroethoxy)methane	0.399	0.383		-4.0	
2,4-Dichlorophenol	0.265	0.292		10.2	20.0
Naphthalene	0.969	0.992		2.4	
4-Chloroaniline	0.395	0.405		2.5	
Hexachlorobutadiene	0.177	0.193		9.0	20.0
Caprolactam	0.077	0.088		14.3	
4-Chloro-3-methylphenol	0.276	0.291		5.4	20.0
2-Methylnaphthalene	0.602	0.611		1.5	
Hexachlorocyclopentadiene	0.345	0.409	0.050	18.6	
2,4,6-Trichlorophenol	0.352	0.404		14.8	20.0
2-Fluorobiphenyl	1.403	1.407		0.3	
2,4,5-Trichlorophenol	0.375	0.421		12.3	
1,1-Biphenyl	1.533	1.550		1.1	
2-Chloronaphthalene	1.140	1.160		1.8	
2-Nitroaniline	0.292	0.353		20.9	
Dimethylphthalate	1.284	1.329		3.5	
Acenaphthylene	1.908	1.943		1.8	
2,6-Dinitrotoluene	0.240	0.295		22.9	
3-Nitroaniline	0.282	0.335		18.8	
Acenaphthene	1.147	1.187		3.5	20.0
2,4-Dinitrophenol	0.102	0.157	0.050	53.9	
4-Nitrophenol	0.212	0.259	0.050	22.2	



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032

Instrument ID: BNA_F Calibration Date/Time: 05/19/2025 10:09

Lab File ID: BF142441.D Init. Calib. Date(s): 05/05/2025 05/05/2025

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.693	1.703		0.6	
2,4-Dinitrotoluene	0.308	0.400		29.9	
Diethylphthalate	1.283	1.281		-0.2	
4-Chlorophenyl-phenylether	0.623	0.625		0.3	
Fluorene	1.292	1.288		-0.3	
4-Nitroaniline	0.223	0.304		36.3	
4,6-Dinitro-2-methylphenol	0.082	0.120		46.3	
n-Nitrosodiphenylamine	0.666	0.666		0.0	20.0
2,4,6-Tribromophenol	0.193	0.230		19.2	
4-Bromophenyl-phenylether	0.227	0.233		2.6	
Hexachlorobenzene	0.249	0.263		5.6	
Atrazine	0.175	0.191		9.1	
Pentachlorophenol	0.131	0.159		21.4	20.0
Phenanthrene	1.048	1.053		0.5	
Anthracene	1.077	1.093		1.5	
Carbazole	0.966	0.972		0.6	
Di-n-butylphthalate	1.016	1.024		0.8	
Fluoranthene	1.048	1.029		-1.8	20.0
Pyrene	1.780	1.909		7.2	
Terphenyl-d14	1.351	1.382		2.3	
Butylbenzylphthalate	0.449	0.538		19.8	
3,3-Dichlorobenzidine	0.301	0.430		42.9	
Benzo (a) anthracene	1.295	1.341		3.6	
Chrysene	1.206	1.241		2.9	
Bis(2-ethylhexyl)phthalate	0.573	0.721		25.8	
Di-n-octyl phthalate	1.057	1.382		30.7	20.0
Benzo (b) fluoranthene	1.211	1.220		0.7	
Benzo (k) fluoranthene	1.109	1.121		1.1	
Benzo (a) pyrene	1.085	1.160		6.9	20.0
Indeno (1,2,3-cd) pyrene	1.391	1.527		9.8	
Dibenzo (a,h) anthracene	1.149	1.236		7.6	
Benzo (g,h,i) perylene	1.141	1.212		6.2	
1,2,4,5-Tetrachlorobenzene	0.559	0.585		4.7	
1,4-Dioxane	0.528	0.512		-3.0	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.355		14.9	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
 Data File : BF142441.D
 Acq On : 19 May 2025 10:09
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

Quant Time: May 19 10:33:14 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	140943	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	537518	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	282968	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	485793	20.000	ng	0.00
76) Chrysene-d12	14.068	240	261281	20.000	ng	0.00
86) Perylene-d12	15.557	264	285078	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	691612	83.767	ng	0.00
7) Phenol-d6	6.528	99	835018	82.229	ng	0.00
23) Nitrobenzene-d5	7.469	82	809605	91.858	ng	0.00
42) 2,4,6-Tribromophenol	10.727	330	260814	95.466	ng	0.00
45) 2-Fluorobiphenyl	9.263	172	1592797	80.261	ng	0.00
79) Terphenyl-d14	13.010	244	1444134	81.807	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.681	88	144260	38.800	ng	98
3) Pyridine	3.451	79	372435	42.665	ng	97
4) n-Nitrosodimethylamine	3.404	42	191012	37.650	ng	93
6) Aniline	6.563	93	565664	56.792	ng	100
8) 2-Chlorophenol	6.687	128	380141	43.086	ng	98
9) Benzaldehyde	6.451	77	237542	39.968	ng	100
10) Phenol	6.539	94	482025	44.781	ng	96
11) bis(2-Chloroethyl)ether	6.639	93	340196	32.049	ng	97
12) 1,3-Dichlorobenzene	6.845	146	415545	41.168	ng	98
13) 1,4-Dichlorobenzene	6.922	146	421036	41.544	ng	99
14) 1,2-Dichlorobenzene	7.075	146	398761	40.991	ng	99
15) Benzyl Alcohol	7.039	79	304959	46.378	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.175	45	575521	36.307	ng	98
17) 2-Methylphenol	7.151	107	292856	40.999	ng	99
18) Hexachloroethane	7.416	117	144905	42.973	ng	99
19) n-Nitroso-di-n-propyla...	7.316	70	242886	38.668	ng	97
20) 3+4-Methylphenols	7.304	107	371253	41.645	ng	95
22) Acetophenone	7.310	105	480166	40.176	ng	95
24) Nitrobenzene	7.486	77	370305	44.572	ng	98
25) Isophorone	7.722	82	660518	39.576	ng	99
26) 2-Nitrophenol	7.798	139	199790	49.731	ng	99
27) 2,4-Dimethylphenol	7.834	122	348428	41.523	ng	98
28) bis(2-Chloroethoxy)met...	7.934	93	411744	38.366	ng	100
29) 2,4-Dichlorophenol	8.039	162	314216	44.045	ng	99
30) 1,2,4-Trichlorobenzene	8.128	180	338179	42.121	ng	99
31) Naphthalene	8.210	128	1066592	40.942	ng	100
32) Benzoic acid	7.939	122	213916	47.644	ng	99
33) 4-Chloroaniline	8.251	127	435130	40.933	ng	99
34) Hexachlorobutadiene	8.328	225	207500	43.646	ng	99
35) Caprolactam	8.622	113	94170	45.292	ng	90
36) 4-Chloro-3-methylphenol	8.728	107	313232	42.238	ng	98
37) 2-Methylnaphthalene	8.898	142	657251	40.602	ng	99
38) 1-Methylnaphthalene	8.998	142	680639	40.341	ng	99
40) 1,2,4,5-Tetrachloroben...	9.063	216	330821	41.860	ng	99
41) Hexachlorocyclopentadiene	9.051	237	231391	47.375	ng	100
43) 2,4,6-Trichlorophenol	9.175	196	228513	45.840	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
 Data File : BF142441.D
 Acq On : 19 May 2025 10:09
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

Quant Time: May 19 10:33:14 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

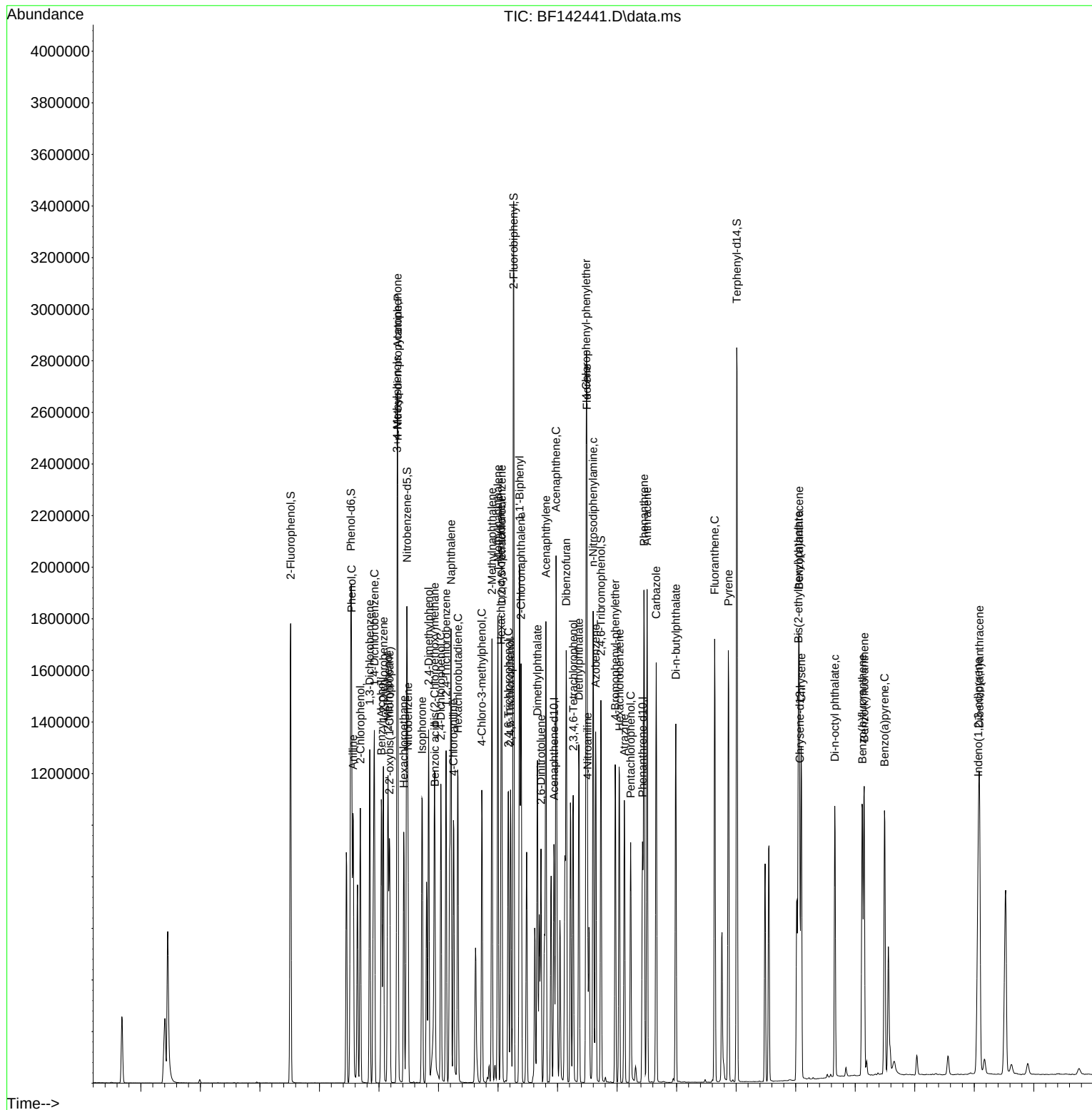
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.210	196	238350	44.937	ng	99
46) 1,1'-Biphenyl	9.363	154	877251	40.433	ng	99
47) 2-Chloronaphthalene	9.386	162	656341	40.678	ng	99
48) 2-Nitroaniline	9.480	65	199891	48.333	ng	93
49) Acenaphthylene	9.804	152	1099351	40.729	ng	100
50) Dimethylphthalate	9.663	163	752233	41.399	ng	99
51) 2,6-Dinitrotoluene	9.722	165	167128	49.139	ng	89
52) Acenaphthene	9.975	154	671611	41.382	ng	99
53) 3-Nitroaniline	9.892	138	189323	47.463	ng	93
54) 2,4-Dinitrophenol	9.992	184	88739	52.757	ng	# 24
55) Dibenzofuran	10.145	168	963600	40.230	ng	99
56) 4-Nitrophenol	10.039	139	146490	48.796	ng	98
57) 2,4-Dinitrotoluene	10.122	165	226288	51.869	ng	95
58) Fluorene	10.492	166	728683	39.864	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.263	232	200767	45.852	ng	98
60) Diethylphthalate	10.357	149	724798	39.943	ng	100
61) 4-Chlorophenyl-phenyle...	10.480	204	353762	40.114	ng	99
62) 4-Nitroaniline	10.504	138	171811	54.345	ng	99
63) Azobenzene	10.639	77	664469	38.321	ng	99
65) 4,6-Dinitro-2-methylph...	10.533	198	116161	50.803	ng	92
66) n-Nitrosodiphenylamine	10.598	169	646688	40.005	ng	100
67) 4-Bromophenyl-phenylether	10.969	248	226238	41.092	ng	99
68) Hexachlorobenzene	11.039	284	255524	42.193	ng	94
69) Atrazine	11.122	200	185714	43.582	ng	99
70) Pentachlorophenol	11.227	266	154590	48.523	ng	97
71) Phenanthrene	11.451	178	1023301	40.186	ng	99
72) Anthracene	11.504	178	1061876	40.585	ng	99
73) Carbazole	11.657	167	944127	40.221	ng	99
74) Di-n-butylphthalate	11.986	149	994577	40.294	ng	99
75) Fluoranthene	12.639	202	1000110	39.290	ng	99
77) Benzidine	12.763	184	369422	77.802	ng	98
78) Pyrene	12.868	202	997434	42.888	ng	100
80) Butylbenzylphthalate	13.486	149	280970	41.901	ng	97
81) Benzo(a)anthracene	14.057	228	700998	41.428	ng	100
82) 3,3'-Dichlorobenzidine	14.021	252	224828	57.136	ng	99
83) Chrysene	14.092	228	648721	41.183	ng	99
84) Bis(2-ethylhexyl)phtha...	14.045	149	376713	43.096	ng	99
85) Di-n-octyl phthalate	14.657	149	722027	45.748	ng	97
87) Indeno(1,2,3-cd)pyrene	17.068	276	870689	43.906	ng	98
88) Benzo(b)fluoranthene	15.121	252	695598	40.287	ng	98
89) Benzo(k)fluoranthene	15.151	252	639163	40.452	ng	99
90) Benzo(a)pyrene	15.492	252	661378	42.746	ng	99
91) Dibenzo(a,h)anthracene	17.086	278	704528	43.003	ng	98
92) Benzo(g,h,i)perylene	17.527	276	691150	42.505	ng	97

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


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Data Path : Z:\svoaerv\HPCHEM1\BNA_F\Data\BF051925\  
Data File : BF142441.D  
Acq On    : 19 May 2025  10:09  
Operator  : RC/JU  
Sample    : SSTDCCC040  
Misc      :  
ALS Vial  : 2    Sample Multiplier: 1
```

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: May 19 10:33:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
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Instrument :
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	66	0.00
2	1,4-Dioxane	0.528	0.512	3.0	67	0.00
3	Pyridine	1.239	1.321	-6.6	74	0.00
4	n-Nitrosodimethylamine	0.720	0.678	5.8	64	0.00
5 S	2-Fluorophenol	1.172	1.227	-4.7	71	0.00
6	Aniline	1.413	2.007	-42.0#	90	0.00
7 S	Phenol-d6	1.441	1.481	-2.8	71	0.00
8	2-Chlorophenol	1.252	1.349	-7.7	72	0.00
9	Benzaldehyde	0.843	0.843	0.0	75	0.00
10 C	Phenol	1.527	1.710	-12.0	76	0.00
11	bis(2-Chloroethyl)ether	1.506	1.207	19.9	58	0.00
12	1,3-Dichlorobenzene	1.432	1.474	-2.9	72	0.00
13 C	1,4-Dichlorobenzene	1.438	1.494	-3.9	72	0.00
14	1,2-Dichlorobenzene	1.380	1.415	-2.5	70	0.00
15	Benzyl Alcohol	0.933	1.082	-16.0	76	0.00
16	2,2'-oxybis(1-Chloropropane	2.249	2.042	9.2	63	0.00
17	2-Methylphenol	1.014	1.039	-2.5	70	0.00
18	Hexachloroethane	0.478	0.514	-7.5	73	0.00
19 P	n-Nitroso-di-n-propylamine	0.891	0.862	3.3	66	0.00
20	3+4-Methylphenols	1.265	1.317	-4.1	71	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	64	0.00
22	Acetophenone	0.445	0.447	-0.4	68	0.00
23 S	Nitrobenzene-d5	0.328	0.377	-14.9	73	0.00
24	Nitrobenzene	0.309	0.344	-11.3	72	0.00
25	Isophorone	0.621	0.614	1.1	67	0.00
26 C	2-Nitrophenol	0.129	0.186	-44.2#	90	0.00
27	2,4-Dimethylphenol	0.312	0.324	-3.8	69	0.00
28	bis(2-Chloroethoxy)methane	0.399	0.383	4.0	65	0.00
29 C	2,4-Dichlorophenol	0.265	0.292	-10.2	71	0.00
30	1,2,4-Trichlorobenzene	0.299	0.315	-5.4	71	0.00
31	Naphthalene	0.969	0.992	-2.4	70	0.00
32	Benzoic acid	0.150	0.199	-32.7#	91	0.00
33	4-Chloroaniline	0.396	0.405	-2.3	67	-0.02
34 C	Hexachlorobutadiene	0.177	0.193	-9.0	73	0.00
35	Caprolactam	0.077	0.088	-14.3	71	0.00
36 C	4-Chloro-3-methylphenol	0.276	0.291	-5.4	70	0.00
37	2-Methylnaphthalene	0.602	0.611	-1.5	69	0.00
38	1-Methylnaphthalene	0.628	0.633	-0.8	68	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	62	0.00
40	1,2,4,5-Tetrachlorobenzene	0.559	0.585	-4.7	71	0.00
41 P	Hexachlorocyclopentadiene	0.345	0.409	-18.6	74	0.00
42 S	2,4,6-Tribromophenol	0.193	0.230	-19.2	75	0.00
43 C	2,4,6-Trichlorophenol	0.352	0.404	-14.8	72	0.00
44	2,4,5-Trichlorophenol	0.375	0.421	-12.3	72	0.00
45 S	2-Fluorobiphenyl	1.403	1.407	-0.3	69	0.00
46	1,1'-Biphenyl	1.533	1.550	-1.1	68	0.00
47	2-Chloronaphthalene	1.140	1.160	-1.8	68	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
 Data File : BF142441.D
 Acq On : 19 May 2025 10:09
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: May 19 10:33:14 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	2-Nitroaniline	0.292	0.353	-20.9	74	0.00
49	Acenaphthylene	1.908	1.943	-1.8	68	0.00
50	Dimethylphthalate	1.284	1.329	-3.5	69	0.00
51	2,6-Dinitrotoluene	0.240	0.295	-22.9	75	0.00
52 C	Acenaphthene	1.147	1.187	-3.5	69	0.00
53	3-Nitroaniline	0.282	0.335	-18.8	73	0.00
54 P	2,4-Dinitrophenol	0.102	0.157	-53.9#	101	0.00
55	Dibenzofuran	1.693	1.703	-0.6	68	0.00
56 P	4-Nitrophenol	0.212	0.259	-22.2	75	0.00
57	2,4-Dinitrotoluene	0.308	0.400	-29.9#	78	0.00
58	Fluorene	1.292	1.288	0.3	67	0.00
59	2,3,4,6-Tetrachlorophenol	0.309	0.355	-14.9	72	0.00
60	Diethylphthalate	1.283	1.281	0.2	66	0.00
61	4-Chlorophenyl-phenylether	0.623	0.625	-0.3	68	0.00
62	4-Nitroaniline	0.223	0.304	-36.3#	84	0.00
63	Azobenzene	1.226	1.174	4.2	65	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	64	0.00
65	4,6-Dinitro-2-methylphenol	0.082	0.120	-46.3#	94	0.00
66 c	n-Nitrosodiphenylamine	0.666	0.666	0.0	68	0.00
67	4-Bromophenyl-phenylether	0.227	0.233	-2.6	69	0.00
68	Hexachlorobenzene	0.249	0.263	-5.6	71	0.00
69	Atrazine	0.175	0.191	-9.1	70	0.00
70 C	Pentachlorophenol	0.131	0.159	-21.4#	73	0.00
71	Phenanthrene	1.048	1.053	-0.5	68	0.00
72	Anthracene	1.077	1.093	-1.5	69	0.00
73	Carbazole	0.966	0.972	-0.6	67	0.00
74	Di-n-butylphthalate	1.016	1.024	-0.8	65	0.00
75 C	Fluoranthene	1.048	1.029	1.8	67	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	58	0.00
77	Benzidine	0.363	0.707	-94.8#	115	0.00
78	Pyrene	1.780	1.909	-7.2	65	0.00
79 S	Terphenyl-d14	1.351	1.382	-2.3	64	0.00
80	Butylbenzylphthalate	0.449	0.538	-19.8	67	0.00
81	Benzo(a)anthracene	1.295	1.341	-3.6	63	0.00
82	3,3'-Dichlorobenzidine	0.301	0.430	-42.9#	85	0.00
83	Chrysene	1.206	1.241	-2.9	66	0.00
84	Bis(2-ethylhexyl)phthalate	0.573	0.721	-25.8#	70	0.00
85 c	Di-n-octyl phthalate	1.057	1.382	-30.7#	78	-0.01
86 I	Perylene-d12	1.000	1.000	0.0	67	0.00
87	Indeno(1,2,3-cd)pyrene	1.391	1.527	-9.8	74	0.00
88	Benzo(b)fluoranthene	1.211	1.220	-0.7	70	0.00
89	Benzo(k)fluoranthene	1.109	1.121	-1.1	72	0.00
90 C	Benzo(a)pyrene	1.085	1.160	-6.9	73	0.00
91	Dibenzo(a,h)anthracene	1.149	1.236	-7.6	73	0.00
92	Benzo(g,h,i)perylene	1.141	1.212	-6.2	72	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 3

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	66	0.00
2	1,4-Dioxane	40.000	38.800	3.0	67	0.00
3	Pyridine	40.000	42.665	-6.7	74	0.00
4	n-Nitrosodimethylamine	40.000	37.650	5.9	64	0.00
5 S	2-Fluorophenol	80.000	83.767	-4.7	71	0.00
6	Aniline	40.000	56.792	-42.0#	90	0.00
7 S	Phenol-d6	80.000	82.229	-2.8	71	0.00
8	2-Chlorophenol	40.000	43.086	-7.7	72	0.00
9	Benzaldehyde	40.000	39.968	0.1	75	0.00
10 C	Phenol	40.000	44.781	-12.0	76	0.00
11	bis(2-Chloroethyl)ether	40.000	32.049	19.9	58	0.00
12	1,3-Dichlorobenzene	40.000	41.168	-2.9	72	0.00
13 C	1,4-Dichlorobenzene	40.000	41.544	-3.9	72	0.00
14	1,2-Dichlorobenzene	40.000	40.991	-2.5	70	0.00
15	Benzyl Alcohol	40.000	46.378	-15.9	76	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	36.307	9.2	63	0.00
17	2-Methylphenol	40.000	40.999	-2.5	70	0.00
18	Hexachloroethane	40.000	42.973	-7.4	73	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	38.668	3.3	66	0.00
20	3+4-Methylphenols	40.000	41.645	-4.1	71	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	64	0.00
22	Acetophenone	40.000	40.176	-0.4	68	0.00
23 S	Nitrobenzene-d5	80.000	91.858	-14.8	73	0.00
24	Nitrobenzene	40.000	44.572	-11.4	72	0.00
25	Isophorone	40.000	39.576	1.1	67	0.00
26 C	2-Nitrophenol	40.000	49.731	-24.3#	90	0.00
27	2,4-Dimethylphenol	40.000	41.523	-3.8	69	0.00
28	bis(2-Chloroethoxy)methane	40.000	38.366	4.1	65	0.00
29 C	2,4-Dichlorophenol	40.000	44.045	-10.1	71	0.00
30	1,2,4-Trichlorobenzene	40.000	42.121	-5.3	71	0.00
31	Naphthalene	40.000	40.942	-2.4	70	0.00
32	Benzoic acid	40.000	47.644	-19.1	91	0.00
33	4-Chloroaniline	40.000	40.933	-2.3	67	-0.02
34 C	Hexachlorobutadiene	40.000	43.646	-9.1	73	0.00
35	Caprolactam	40.000	45.292	-13.2	71	0.00
36 C	4-Chloro-3-methylphenol	40.000	42.238	-5.6	70	0.00
37	2-Methylnaphthalene	40.000	40.602	-1.5	69	0.00
38	1-Methylnaphthalene	40.000	40.341	-0.9	68	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	62	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	41.860	-4.6	71	0.00
41 P	Hexachlorocyclopentadiene	40.000	47.375	-18.4	74	0.00
42 S	2,4,6-Tribromophenol	80.000	95.466	-19.3	75	0.00
43 C	2,4,6-Trichlorophenol	40.000	45.840	-14.6	72	0.00
44	2,4,5-Trichlorophenol	40.000	44.937	-12.3	72	0.00
45 S	2-Fluorobiphenyl	80.000	80.261	-0.3	69	0.00
46	1,1'-Biphenyl	40.000	40.433	-1.1	68	0.00
47	2-Chloronaphthalene	40.000	40.678	-1.7	68	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
 Data File : BF142441.D
 Acq On : 19 May 2025 10:09
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: May 19 10:33:14 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	2-Nitroaniline	40.000	48.333	-20.8	74	0.00
49	Acenaphthylene	40.000	40.729	-1.8	68	0.00
50	Dimethylphthalate	40.000	41.399	-3.5	69	0.00
51	2,6-Dinitrotoluene	40.000	49.139	-22.8	75	0.00
52 C	Acenaphthene	40.000	41.382	-3.5	69	0.00
53	3-Nitroaniline	40.000	47.463	-18.7	73	0.00
54 P	2,4-Dinitrophenol	40.000	52.757	-31.9#	101	0.00
55	Dibenzofuran	40.000	40.230	-0.6	68	0.00
56 P	4-Nitrophenol	40.000	48.796	-22.0	75	0.00
57	2,4-Dinitrotoluene	40.000	51.869	-29.7#	78	0.00
58	Fluorene	40.000	39.864	0.3	67	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	45.852	-14.6	72	0.00
60	Diethylphthalate	40.000	39.943	0.1	66	0.00
61	4-Chlorophenyl-phenylether	40.000	40.114	-0.3	68	0.00
62	4-Nitroaniline	40.000	54.345	-35.9#	84	0.00
63	Azobenzene	40.000	38.321	4.2	65	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	64	0.00
65	4,6-Dinitro-2-methylphenol	40.000	50.803	-27.0#	94	0.00
66 c	n-Nitrosodiphenylamine	40.000	40.005	-0.0	68	0.00
67	4-Bromophenyl-phenylether	40.000	41.092	-2.7	69	0.00
68	Hexachlorobenzene	40.000	42.193	-5.5	71	0.00
69	Atrazine	40.000	43.582	-9.0	70	0.00
70 C	Pentachlorophenol	40.000	48.523	-21.3#	73	0.00
71	Phenanthrene	40.000	40.186	-0.5	68	0.00
72	Anthracene	40.000	40.585	-1.5	69	0.00
73	Carbazole	40.000	40.221	-0.6	67	0.00
74	Di-n-butylphthalate	40.000	40.294	-0.7	65	0.00
75 C	Fluoranthene	40.000	39.290	1.8	67	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	58	0.00
77	Benzidine	40.000	77.802	-94.5#	115	0.00
78	Pyrene	40.000	42.888	-7.2	65	0.00
79 S	Terphenyl-d14	80.000	81.807	-2.3	64	0.00
80	Butylbenzylphthalate	40.000	41.901	-4.8	67	0.00
81	Benzo(a)anthracene	40.000	41.428	-3.6	63	0.00
82	3,3'-Dichlorobenzidine	40.000	57.136	-42.8#	85	0.00
83	Chrysene	40.000	41.183	-3.0	66	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	43.096	-7.7	70	0.00
85 c	Di-n-octyl phthalate	40.000	45.748	-14.4	78	-0.01
86 I	Perylene-d12	20.000	20.000	0.0	67	0.00
87	Indeno(1,2,3-cd)pyrene	40.000	43.906	-9.8	74	0.00
88	Benzo(b)fluoranthene	40.000	40.287	-0.7	70	0.00
89	Benzo(k)fluoranthene	40.000	40.452	-1.1	72	0.00
90 C	Benzo(a)pyrene	40.000	42.746	-6.9	73	0.00
91	Dibenzo(a,h)anthracene	40.000	43.003	-7.5	73	0.00
92	Benzo(g,h,i)perylene	40.000	42.505	-6.3	72	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142441.D
Acq On : 19 May 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: May 19 10:33:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 2



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032

Instrument ID: BNA_P Calibration Date/Time: 05/19/2025 12:48

Lab File ID: BP024686.D Init. Calib. Date(s): 05/13/2025 05/13/2025

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.169	1.150		-1.6	
Benzaldehyde	0.966	0.927		-4.0	
Phenol-d6	1.492	1.492		0.0	
Phenol	1.540	1.515		-1.6	20.0
bis(2-Chloroethyl)ether	1.266	1.186		-6.3	
2-Chlorophenol	1.327	1.332		0.4	
2-Methylphenol	1.105	1.105		0.0	
2,2-oxybis(1-Chloropropane)	1.516	1.413		-6.8	
Acetophenone	0.500	0.474		-5.2	
3+4-Methylphenols	1.503	1.498		-0.3	
n-Nitroso-di-n-propylamine	1.032	0.994	0.050	-3.7	
Nitrobenzene-d5	0.396	0.371		-6.3	
Hexachloroethane	0.589	0.544		-7.6	
Nitrobenzene	0.348	0.326		-6.3	
Isophorone	0.687	0.647		-5.8	
2-Nitrophenol	0.171	0.181		5.8	20.0
2,4-Dimethylphenol	0.301	0.303		0.7	
bis(2-Chloroethoxy)methane	0.410	0.382		-6.8	
2,4-Dichlorophenol	0.292	0.294		0.7	20.0
Naphthalene	1.036	0.989		-4.5	
4-Chloroaniline	0.418	0.426		1.9	
Hexachlorobutadiene	0.213	0.203		-4.7	20.0
Caprolactam	0.106	0.109		2.8	
4-Chloro-3-methylphenol	0.356	0.352		-1.1	20.0
2-Methylnaphthalene	0.671	0.648		-3.4	
Hexachlorocyclopentadiene	0.352	0.524	0.050	48.9	
2,4,6-Trichlorophenol	0.376	0.389		3.5	20.0
2-Fluorobiphenyl	1.527	1.471		-3.7	
2,4,5-Trichlorophenol	0.419	0.420		0.2	
1,1-Biphenyl	1.478	1.423		-3.7	
2-Chloronaphthalene	1.127	1.099		-2.5	
2-Nitroaniline	0.334	0.330		-1.2	
Dimethylphthalate	1.524	1.431		-6.1	
Acenaphthylene	1.886	1.814		-3.8	
2,6-Dinitrotoluene	0.322	0.314		-2.5	
3-Nitroaniline	0.329	0.334		1.5	
Acenaphthene	1.084	1.034		-4.6	20.0
2,4-Dinitrophenol	0.169	0.173	0.050	2.4	
4-Nitrophenol	0.250	0.219	0.050	-12.4	



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032

Instrument ID: BNA_P Calibration Date/Time: 05/19/2025 12:48

Lab File ID: BP024686.D Init. Calib. Date(s): 05/13/2025 05/13/2025

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.730	1.657		-4.2	
2,4-Dinitrotoluene	0.454	0.465		2.4	
Diethylphthalate	1.541	1.495		-3.0	
4-Chlorophenyl-phenylether	0.703	0.692		-1.6	
Fluorene	1.410	1.400		-0.7	
4-Nitroaniline	0.317	0.343		8.2	
4,6-Dinitro-2-methylphenol	0.129	0.132		2.3	
n-Nitrosodiphenylamine	0.614	0.585		-4.7	20.0
2,4,6-Tribromophenol	0.339	0.350		3.2	
4-Bromophenyl-phenylether	0.236	0.231		-2.1	
Hexachlorobenzene	0.299	0.295		-1.3	
Atrazine	0.225	0.223		-0.9	
Pentachlorophenol	0.168	0.164		-2.4	20.0
Phenanthrene	1.112	1.047		-5.8	
Anthracene	1.119	1.084		-3.1	
Carbazole	1.012	0.995		-1.7	
Di-n-butylphthalate	1.302	1.256		-3.5	
Fluoranthene	1.300	1.236		-4.9	20.0
Pyrene	1.198	1.261		5.3	
Terphenyl-d14	1.166	1.259		8.0	
Butylbenzylphthalate	0.533	0.570		6.9	
3,3-Dichlorobenzidine	0.466	0.455		-2.4	
Benzo (a) anthracene	1.256	1.234		-1.8	
Chrysene	1.190	1.150		-3.4	
Bis(2-ethylhexyl)phthalate	0.783	0.792		1.1	
Di-n-octyl phthalate	1.281	1.160		-9.4	20.0
Benzo (b) fluoranthene	1.145	1.167		1.9	
Benzo (k) fluoranthene	1.180	1.204		2.0	
Benzo (a) pyrene	1.099	1.092		-0.6	20.0
Indeno (1,2,3-cd) pyrene	1.460	1.430		-2.1	
Dibenzo (a,h) anthracene	1.188	1.163		-2.1	
Benzo (g,h,i) perylene	1.181	1.155		-2.2	
1,2,4,5-Tetrachlorobenzene	0.581	0.567		-2.4	
1,4-Dioxane	0.549	0.489		-10.9	20.0
2,3,4,6-Tetrachlorophenol	0.388	0.388		0.0	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
 Data File : BP024686.D
 Acq On : 19 May 2025 12:48
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDCCC040

Quant Time: May 19 14:38:00 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.658	152	148955	20.000	ng	0.00
21) Naphthalene-d8	10.428	136	651543	20.000	ng	0.00
39) Acenaphthene-d10	14.292	164	426043	20.000	ng	-0.01
64) Phenanthrene-d10	17.092	188	875686	20.000	ng	0.00
76) Chrysene-d12	21.527	240	872281	20.000	ng	0.00
86) Perylene-d12	24.810	264	779874	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.293	112	685452	78.707	ng	0.00
7) Phenol-d6	6.863	99	889072	79.989	ng	0.01
23) Nitrobenzene-d5	8.805	82	966184	74.927	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	596739	82.620	ng	0.00
45) 2-Fluorobiphenyl	12.898	172	2507287	77.102	ng	0.00
79) Terphenyl-d14	19.816	244	4391709	86.330	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.222	88	145677	35.623	ng	98
3) Pyridine	3.617	79	350313	38.632	ng	96
4) n-Nitrosodimethylamine	3.534	42	148599	37.120	ng	99
6) Aniline	6.999	93	555852	38.734	ng	99
8) 2-Chlorophenol	7.240	128	396752	40.131	ng	98
9) Benzaldehyde	6.811	77	276033	38.364	ng	99
10) Phenol	6.887	94	451200	39.330	ng	98
11) bis(2-Chloroethyl)ether	7.093	93	353209	37.469	ng	97
12) 1,3-Dichlorobenzene	7.546	146	435566	38.293	ng	99
13) 1,4-Dichlorobenzene	7.687	146	445903	38.977	ng	99
14) 1,2-Dichlorobenzene	8.005	146	427894	38.385	ng	100
15) Benzyl Alcohol	7.905	79	339203	40.159	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.175	45	421083	37.300	ng	98
17) 2-Methylphenol	8.116	107	329222	40.012	ng	98
18) Hexachloroethane	8.722	117	162073	36.970	ng	97
19) n-Nitroso-di-n-propyla...	8.457	70	296114	38.513	ng	99
20) 3+4-Methylphenols	8.446	107	446406	39.884	ng	99
22) Acetophenone	8.475	105	618238	37.987	ng	# 98
24) Nitrobenzene	8.846	77	425179	37.468	ng	96
25) Isophorone	9.369	82	842538	37.667	ng	99
26) 2-Nitrophenol	9.552	139	235757	42.398	ng	99
27) 2,4-Dimethylphenol	9.628	122	395068	40.297	ng	99
28) bis(2-Chloroethoxy)met...	9.846	93	497670	37.241	ng	99
29) 2,4-Dichlorophenol	10.104	162	383741	40.391	ng	97
30) 1,2,4-Trichlorobenzene	10.293	180	412457	38.526	ng	97
31) Naphthalene	10.475	128	1289180	38.183	ng	100
32) Benzoic acid	9.799	122	238678	36.998	ng	94
33) 4-Chloroaniline	10.599	127	554976	40.734	ng	99
34) Hexachlorobutadiene	10.757	225	264931	38.199	ng	97
35) Caprolactam	11.399	113	141941	41.294	ng	96
36) 4-Chloro-3-methylphenol	11.751	107	458991	39.617	ng	99
37) 2-Methylnaphthalene	12.087	142	844620	38.634	ng	98
38) 1-Methylnaphthalene	12.310	142	897341	38.361	ng	100
40) 1,2,4,5-Tetrachloroben...	12.469	216	483050	39.044	ng	100
41) Hexachlorocyclopentadiene	12.446	237	446152	59.472	ng	98
43) 2,4,6-Trichlorophenol	12.716	196	331738	41.398	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
 Data File : BP024686.D
 Acq On : 19 May 2025 12:48
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDCCC040

Quant Time: May 19 14:38:00 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

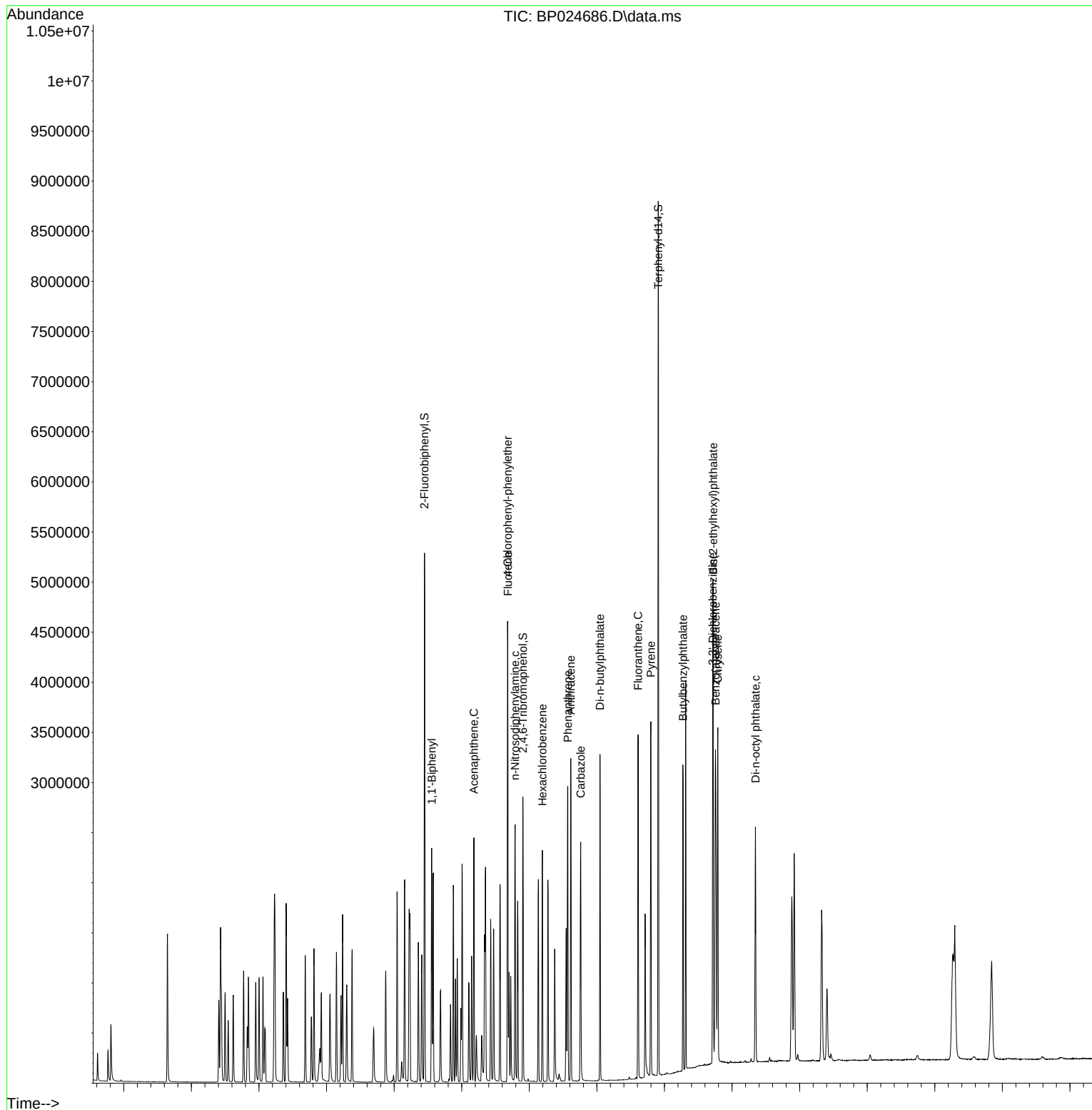
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.816	196	358296	40.168	ng	97
46) 1,1'-Biphenyl	13.110	154	1212140	38.494	ng	99
47) 2-Chloronaphthalene	13.157	162	936591	39.009	ng	100
48) 2-Nitroaniline	13.369	65	281236	39.564	ng	96
49) Acenaphthylene	14.010	152	1546043	38.478	ng	99
50) Dimethylphthalate	13.751	163	1219478	37.553	ng	100
51) 2,6-Dinitrotoluene	13.869	165	267422	38.993	ng	100
52) Acenaphthene	14.363	154	880942	38.138	ng	99
53) 3-Nitroaniline	14.210	138	284551	40.635	ng	99
54) 2,4-Dinitrophenol	14.434	184	147319	37.740	ng	96
55) Dibenzofuran	14.704	168	1412131	38.328	ng	98
56) 4-Nitrophenol	14.592	139	186704	33.400	ng	98
57) 2,4-Dinitrotoluene	14.675	165	396402	40.998	ng	95
58) Fluorene	15.363	166	1192750	39.702	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.945	232	330705	39.967	ng	97
60) Diethylphthalate	15.134	149	1273676	38.807	ng	99
61) 4-Chlorophenyl-phenyle...	15.357	204	589348	39.337	ng	98
62) 4-Nitroaniline	15.398	138	291885	43.168	ng	99
63) Azobenzene	15.657	77	1043623	37.169	ng	96
65) 4,6-Dinitro-2-methylph...	15.451	198	231347	40.900	ng	99
66) n-Nitrosodiphenylamine	15.581	169	1025110	38.112	ng	99
67) 4-Bromophenyl-phenylether	16.269	248	404396	39.191	ng	98
68) Hexachlorobenzene	16.386	284	516422	39.386	ng	96
69) Atrazine	16.551	200	390518	39.617	ng	99
70) Pentachlorophenol	16.751	266	287810	39.104	ng	98
71) Phenanthrene	17.139	178	1834222	37.679	ng	100
72) Anthracene	17.228	178	1898802	38.768	ng	100
73) Carbazole	17.522	167	1742661	39.311	ng	99
74) Di-n-butylphthalate	18.092	149	2200144	38.591	ng	99
75) Fluoranthene	19.222	202	2164114	38.031	ng	99
77) Benzidine	19.427	184	1039374	43.749	ng	100
78) Pyrene	19.598	202	2200729	42.107	ng	100
80) Butylbenzylphthalate	20.545	149	994991	42.806	ng	97
81) Benzo(a)anthracene	21.510	228	2152203	39.294	ng	100
82) 3,3'-Dichlorobenzidine	21.427	252	793072	38.984	ng	100
83) Chrysene	21.580	228	2005387	38.624	ng	100
84) Bis(2-ethylhexyl)phtha...	21.439	149	1380988	40.421	ng	100
85) Di-n-octyl phthalate	22.692	149	2024055	36.228	ng	99
87) Indeno(1,2,3-cd)pyrene	28.527	276	2231204	39.188	ng	# 92
88) Benzo(b)fluoranthene	23.768	252	1819580	40.762	ng	99
89) Benzo(k)fluoranthene	23.839	252	1877708	40.822	ng	100
90) Benzo(a)pyrene	24.651	252	1703325	39.731	ng	99
91) Dibenzo(a,h)anthracene	28.592	278	1814035	39.164	ng	99
92) Benzo(g,h,i)perylene	29.680	276	1801944	39.120	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
Data File : BP024686.D
Acq On : 19 May 2025 12:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: May 19 14:38:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
 Data File : BP024686.D
 Acq On : 19 May 2025 12:48
 Operator : RC/JU
 Sample : SSTDCCC040
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Instrument :
 BNA_P
 LabSampleId :
 SSTDCCC040

Quant Time: May 19 14:38:00 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	123	0.00
2	1,4-Dioxane	0.549	0.489	10.9	119	0.00
3	Pyridine	1.218	1.176	3.4	121	0.00
4	n-Nitrosodimethylamine	0.538	0.499	7.2	119	0.00
5 S	2-Fluorophenol	1.169	1.150	1.6	128	0.00
6	Aniline	1.927	1.866	3.2	120	0.00
7 S	Phenol-d6	1.492	1.492	0.0	125	0.01
8	2-Chlorophenol	1.327	1.332	-0.4	126	0.00
9	Benzaldehyde	0.966	0.927	4.0	119	-0.01
10 C	Phenol	1.540	1.515	1.6	124	0.00
11	bis(2-Chloroethyl)ether	1.266	1.186	6.3	120	0.00
12	1,3-Dichlorobenzene	1.527	1.462	4.3	125	0.00
13 C	1,4-Dichlorobenzene	1.536	1.497	2.5	125	-0.01
14	1,2-Dichlorobenzene	1.497	1.436	4.1	124	0.00
15	Benzyl Alcohol	1.134	1.139	-0.4	122	0.00
16	2,2'-oxybis(1-Chloropropane	1.516	1.413	6.8	119	-0.01
17	2-Methylphenol	1.105	1.105	0.0	124	0.00
18	Hexachloroethane	0.589	0.544	7.6	122	0.00
19 P	n-Nitroso-di-n-propylamine	1.032	0.994	3.7	117	0.00
20	3+4-Methylphenols	1.503	1.498	0.3	122	0.01
21 I	Naphthalene-d8	1.000	1.000	0.0	121	0.00
22	Acetophenone	0.500	0.474	5.2	119	0.00
23 S	Nitrobenzene-d5	0.396	0.371	6.3	117	0.00
24	Nitrobenzene	0.348	0.326	6.3	117	0.00
25	Isophorone	0.687	0.647	5.8	116	0.00
26 C	2-Nitrophenol	0.171	0.181	-5.8	127	-0.01
27	2,4-Dimethylphenol	0.301	0.303	-0.7	123	0.00
28	bis(2-Chloroethoxy)methane	0.410	0.382	6.8	115	0.00
29 C	2,4-Dichlorophenol	0.292	0.294	-0.7	122	0.01
30	1,2,4-Trichlorobenzene	0.329	0.317	3.6	125	0.00
31	Naphthalene	1.036	0.989	4.5	122	0.00
32	Benzoic acid	0.181	0.183	-1.1	115	0.02
33	4-Chloroaniline	0.418	0.426	-1.9	123	0.00
34 C	Hexachlorobutadiene	0.213	0.203	4.7	124	0.00
35	Caprolactam	0.106	0.109	-2.8	120	0.01
36 C	4-Chloro-3-methylphenol	0.356	0.352	1.1	119	0.02
37	2-Methylnaphthalene	0.671	0.648	3.4	122	0.00
38	1-Methylnaphthalene	0.718	0.689	4.0	120	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	118	-0.01
40	1,2,4,5-Tetrachlorobenzene	0.581	0.567	2.4	121	0.00
41 P	Hexachlorocyclopentadiene	0.352	0.524	-48.9#	173#	0.00
42 S	2,4,6-Tribromophenol	0.339	0.350	-3.2	128	0.00
43 C	2,4,6-Trichlorophenol	0.376	0.389	-3.5	123	0.00
44	2,4,5-Trichlorophenol	0.419	0.420	-0.2	122	0.02
45 S	2-Fluorobiphenyl	1.527	1.471	3.7	121	0.00
46	1,1'-Biphenyl	1.478	1.423	3.7	121	0.00
47	2-Chloronaphthalene	1.127	1.099	2.5	121	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
 Data File : BP024686.D
 Acq On : 19 May 2025 12:48
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_P
 LabSampleId :
 SSTDCCC040

Quant Time: May 19 14:38:00 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	2-Nitroaniline	0.334	0.330	1.2	116	0.00
49	Acenaphthylene	1.886	1.814	3.8	118	0.00
50	Dimethylphthalate	1.524	1.431	6.1	116	0.00
51	2,6-Dinitrotoluene	0.322	0.314	2.5	118	-0.01
52 C	Acenaphthene	1.084	1.034	4.6	118	0.00
53	3-Nitroaniline	0.329	0.334	-1.5	115	0.00
54 P	2,4-Dinitrophenol	0.169	0.173	-2.4	118	0.00
55	Dibenzofuran	1.730	1.657	4.2	119	0.00
56 P	4-Nitrophenol	0.250	0.219	12.4	100	0.04
57	2,4-Dinitrotoluene	0.454	0.465	-2.4	120	0.00
58	Fluorene	1.410	1.400	0.7	123	0.00
59	2,3,4,6-Tetrachlorophenol	0.388	0.388	0.0	121	0.00
60	Diethylphthalate	1.541	1.495	3.0	122	0.00
61	4-Chlorophenyl-phenylether	0.703	0.692	1.6	124	0.00
62	4-Nitroaniline	0.317	0.343	-8.2	122	0.00
63	Azobenzene	1.318	1.225	7.1	115	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	122	0.00
65	4,6-Dinitro-2-methylphenol	0.129	0.132	-2.3	125	0.00
66 c	n-Nitrosodiphenylamine	0.614	0.585	4.7	120	0.00
67	4-Bromophenyl-phenylether	0.236	0.231	2.1	125	0.00
68	Hexachlorobenzene	0.299	0.295	1.3	128	0.00
69	Atrazine	0.225	0.223	0.9	125	0.00
70 C	Pentachlorophenol	0.168	0.164	2.4	117	0.00
71	Phenanthrene	1.112	1.047	5.8	122	0.00
72	Anthracene	1.119	1.084	3.1	123	0.00
73	Carbazole	1.012	0.995	1.7	121	0.00
74	Di-n-butylphthalate	1.302	1.256	3.5	122	0.00
75 C	Fluoranthene	1.300	1.236	4.9	121	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	108	0.00
77	Benzidine	0.545	0.596	-9.4	115	0.01
78	Pyrene	1.198	1.261	-5.3	118	0.00
79 S	Terphenyl-d14	1.166	1.259	-8.0	120	0.00
80	Butylbenzylphthalate	0.533	0.570	-6.9	116	0.00
81	Benzo(a)anthracene	1.256	1.234	1.8	110	0.00
82	3,3'-Dichlorobenzidine	0.466	0.455	2.4	102	0.00
83	Chrysene	1.190	1.150	3.4	109	0.01
84	Bis(2-ethylhexyl)phthalate	0.783	0.792	-1.1	111	0.00
85 c	Di-n-octyl phthalate	1.281	1.160	9.4	98	0.00
86 I	Perylene-d12	1.000	1.000	0.0	84	0.00
87	Indeno(1,2,3-cd)pyrene	1.460	1.430	2.1	84	0.01
88	Benzo(b)fluoranthene	1.145	1.167	-1.9	89	0.01
89	Benzo(k)fluoranthene	1.180	1.204	-2.0	89	0.01
90 C	Benzo(a)pyrene	1.099	1.092	0.6	86	0.00
91	Dibenzo(a,h)anthracene	1.188	1.163	2.1	84	0.00
92	Benzo(g,h,i)perylene	1.181	1.155	2.2	84	0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
Data File : BP024686.D
Acq On : 19 May 2025 12:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 19 14:38:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
 Data File : BP024686.D
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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	123	0.00
2	1,4-Dioxane	40.000	35.623	10.9	119	0.00
3	Pyridine	40.000	38.632	3.4	121	0.00
4	n-Nitrosodimethylamine	40.000	37.120	7.2	119	0.00
5 S	2-Fluorophenol	80.000	78.707	1.6	128	0.00
6	Aniline	40.000	38.734	3.2	120	0.00
7 S	Phenol-d6	80.000	79.989	0.0	125	0.01
8	2-Chlorophenol	40.000	40.131	-0.3	126	0.00
9	Benzaldehyde	40.000	38.364	4.1	119	-0.01
10 C	Phenol	40.000	39.330	1.7	124	0.00
11	bis(2-Chloroethyl)ether	40.000	37.469	6.3	120	0.00
12	1,3-Dichlorobenzene	40.000	38.293	4.3	125	0.00
13 C	1,4-Dichlorobenzene	40.000	38.977	2.6	125	-0.01
14	1,2-Dichlorobenzene	40.000	38.385	4.0	124	0.00
15	Benzyl Alcohol	40.000	40.159	-0.4	122	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	37.300	6.8	119	-0.01
17	2-Methylphenol	40.000	40.012	-0.0	124	0.00
18	Hexachloroethane	40.000	36.970	7.6	122	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	38.513	3.7	117	0.00
20	3+4-Methylphenols	40.000	39.884	0.3	122	0.01
21 I	Naphthalene-d8	20.000	20.000	0.0	121	0.00
22	Acetophenone	40.000	37.987	5.0	119	0.00
23 S	Nitrobenzene-d5	80.000	74.927	6.3	117	0.00
24	Nitrobenzene	40.000	37.468	6.3	117	0.00
25	Isophorone	40.000	37.667	5.8	116	0.00
26 C	2-Nitrophenol	40.000	42.398	-6.0	127	-0.01
27	2,4-Dimethylphenol	40.000	40.297	-0.7	123	0.00
28	bis(2-Chloroethoxy)methane	40.000	37.241	6.9	115	0.00
29 C	2,4-Dichlorophenol	40.000	40.391	-1.0	122	0.01
30	1,2,4-Trichlorobenzene	40.000	38.526	3.7	125	0.00
31	Naphthalene	40.000	38.183	4.5	122	0.00
32	Benzoic acid	40.000	36.998	7.5	115	0.02
33	4-Chloroaniline	40.000	40.734	-1.8	123	0.00
34 C	Hexachlorobutadiene	40.000	38.199	4.5	124	0.00
35	Caprolactam	40.000	41.294	-3.2	120	0.01
36 C	4-Chloro-3-methylphenol	40.000	39.617	1.0	119	0.02
37	2-Methylnaphthalene	40.000	38.634	3.4	122	0.00
38	1-Methylnaphthalene	40.000	38.361	4.1	120	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	118	-0.01
40	1,2,4,5-Tetrachlorobenzene	40.000	39.044	2.4	121	0.00
41 P	Hexachlorocyclopentadiene	40.000	59.472	-48.7#	173	0.00
42 S	2,4,6-Tribromophenol	80.000	82.620	-3.3	128	0.00
43 C	2,4,6-Trichlorophenol	40.000	41.398	-3.5	123	0.00
44	2,4,5-Trichlorophenol	40.000	40.168	-0.4	122	0.02
45 S	2-Fluorobiphenyl	80.000	77.102	3.6	121	0.00
46	1,1'-Biphenyl	40.000	38.494	3.8	121	0.00
47	2-Chloronaphthalene	40.000	39.009	2.5	121	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
 Data File : BP024686.D
 Acq On : 19 May 2025 12:48
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_P
 LabSampleId :
 SSTDCCC040

Quant Time: May 19 14:38:00 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	2-Nitroaniline	40.000	39.564	1.1	116	0.00
49	Acenaphthylene	40.000	38.478	3.8	118	0.00
50	Dimethylphthalate	40.000	37.553	6.1	116	0.00
51	2,6-Dinitrotoluene	40.000	38.993	2.5	118	-0.01
52 C	Acenaphthene	40.000	38.138	4.7	118	0.00
53	3-Nitroaniline	40.000	40.635	-1.6	115	0.00
54 P	2,4-Dinitrophenol	40.000	37.740	5.6	118	0.00
55	Dibenzofuran	40.000	38.328	4.2	119	0.00
56 P	4-Nitrophenol	40.000	33.400	16.5	100	0.04
57	2,4-Dinitrotoluene	40.000	40.998	-2.5	120	0.00
58	Fluorene	40.000	39.702	0.7	123	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	39.967	0.1	121	0.00
60	Diethylphthalate	40.000	38.807	3.0	122	0.00
61	4-Chlorophenyl-phenylether	40.000	39.337	1.7	124	0.00
62	4-Nitroaniline	40.000	43.168	-7.9	122	0.00
63	Azobenzene	40.000	37.169	7.1	115	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	122	0.00
65	4,6-Dinitro-2-methylphenol	40.000	40.900	-2.2	125	0.00
66 c	n-Nitrosodiphenylamine	40.000	38.112	4.7	120	0.00
67	4-Bromophenyl-phenylether	40.000	39.191	2.0	125	0.00
68	Hexachlorobenzene	40.000	39.386	1.5	128	0.00
69	Atrazine	40.000	39.617	1.0	125	0.00
70 C	Pentachlorophenol	40.000	39.104	2.2	117	0.00
71	Phenanthrene	40.000	37.679	5.8	122	0.00
72	Anthracene	40.000	38.768	3.1	123	0.00
73	Carbazole	40.000	39.311	1.7	121	0.00
74	Di-n-butylphthalate	40.000	38.591	3.5	122	0.00
75 C	Fluoranthene	40.000	38.031	4.9	121	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	108	0.00
77	Benzidine	40.000	43.749	-9.4	115	0.01
78	Pyrene	40.000	42.107	-5.3	118	0.00
79 S	Terphenyl-d14	80.000	86.330	-7.9	120	0.00
80	Butylbenzylphthalate	40.000	42.806	-7.0	116	0.00
81	Benzo(a)anthracene	40.000	39.294	1.8	110	0.00
82	3,3'-Dichlorobenzidine	40.000	38.984	2.5	102	0.00
83	Chrysene	40.000	38.624	3.4	109	0.01
84	Bis(2-ethylhexyl)phthalate	40.000	40.421	-1.1	111	0.00
85 c	Di-n-octyl phthalate	40.000	36.228	9.4	98	0.00
86 I	Perylene-d12	20.000	20.000	0.0	84	0.00
87	Indeno(1,2,3-cd)pyrene	40.000	39.188	2.0	84	0.01
88	Benzo(b)fluoranthene	40.000	40.762	-1.9	89	0.01
89	Benzo(k)fluoranthene	40.000	40.822	-2.1	89	0.01
90 C	Benzo(a)pyrene	40.000	39.731	0.7	86	0.00
91	Dibenzo(a,h)anthracene	40.000	39.164	2.1	84	0.00
92	Benzo(g,h,i)perylene	40.000	39.120	2.2	84	0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
Data File : BP024686.D
Acq On : 19 May 2025 12:48
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 19 14:38:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032

Instrument ID: BNA_P Calibration Date/Time: 05/20/2025 11:52

Lab File ID: BP024703.D Init. Calib. Date(s): 05/13/2025 05/13/2025

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.169	1.129		-3.4	
Benzaldehyde	0.966	0.885		-8.4	
Phenol-d6	1.492	1.410		-5.5	
Phenol	1.540	1.418		-7.9	20.0
bis(2-Chloroethyl)ether	1.266	1.114		-12.0	
2-Chlorophenol	1.327	1.280		-3.5	
2-Methylphenol	1.105	1.022		-7.5	
2,2-oxybis(1-Chloropropane)	1.516	1.340		-11.6	
Acetophenone	0.500	0.472		-5.6	
3+4-Methylphenols	1.503	1.381		-8.1	
n-Nitroso-di-n-propylamine	1.032	0.915	0.050	-11.3	
Nitrobenzene-d5	0.396	0.375		-5.3	
Hexachloroethane	0.589	0.545		-7.5	
Nitrobenzene	0.348	0.330		-5.2	
Isophorone	0.687	0.624		-9.2	
2-Nitrophenol	0.171	0.178		4.1	20.0
2,4-Dimethylphenol	0.301	0.296		-1.7	
bis(2-Chloroethoxy)methane	0.410	0.367		-10.5	
2,4-Dichlorophenol	0.292	0.289		-1.0	20.0
Naphthalene	1.036	0.995		-4.0	
4-Chloroaniline	0.418	0.409		-2.2	
Hexachlorobutadiene	0.213	0.211		-0.9	20.0
Caprolactam	0.106	0.098		-7.5	
4-Chloro-3-methylphenol	0.356	0.337		-5.3	20.0
2-Methylnaphthalene	0.671	0.634		-5.5	
Hexachlorocyclopentadiene	0.352	0.351	0.050	-0.3	
2,4,6-Trichlorophenol	0.376	0.384		2.1	20.0
2-Fluorobiphenyl	1.527	1.512		-1.0	
2,4,5-Trichlorophenol	0.419	0.427		1.9	
1,1-Biphenyl	1.478	1.420		-3.9	
2-Chloronaphthalene	1.127	1.097		-2.7	
2-Nitroaniline	0.334	0.320		-4.2	
Dimethylphthalate	1.524	1.412		-7.3	
Acenaphthylene	1.886	1.792		-5.0	
2,6-Dinitrotoluene	0.322	0.312		-3.1	
3-Nitroaniline	0.329	0.315		-4.3	
Acenaphthene	1.084	1.035		-4.5	20.0
2,4-Dinitrophenol	0.169	0.160	0.050	-5.3	
4-Nitrophenol	0.250	0.320	0.050	28.0	



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2032 SAS No.: Q2032 SDG No.: Q2032

Instrument ID: BNA_P Calibration Date/Time: 05/20/2025 11:52

Lab File ID: BP024703.D Init. Calib. Date(s): 05/13/2025 05/13/2025

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.730	1.654		-4.4	
2,4-Dinitrotoluene	0.454	0.441		-2.9	
Diethylphthalate	1.541	1.438		-6.7	
4-Chlorophenyl-phenylether	0.703	0.679		-3.4	
Fluorene	1.410	1.354		-4.0	
4-Nitroaniline	0.317	0.299		-5.7	
4,6-Dinitro-2-methylphenol	0.129	0.128		-0.8	
n-Nitrosodiphenylamine	0.614	0.596		-2.9	20.0
2,4,6-Tribromophenol	0.339	0.348		2.7	
4-Bromophenyl-phenylether	0.236	0.238		0.8	
Hexachlorobenzene	0.299	0.299		0.0	
Atrazine	0.225	0.224		-0.4	
Pentachlorophenol	0.168	0.165		-1.8	20.0
Phenanthrene	1.112	1.065		-4.2	
Anthracene	1.119	1.093		-2.3	
Carbazole	1.012	0.966		-4.5	
Di-n-butylphthalate	1.302	1.263		-3.0	
Fluoranthene	1.300	1.234		-5.1	20.0
Pyrene	1.198	1.171		-2.3	
Terphenyl-d14	1.166	1.167		0.1	
Butylbenzylphthalate	0.533	0.527		-1.1	
3,3-Dichlorobenzidine	0.466	0.476		2.1	
Benzo (a) anthracene	1.256	1.210		-3.7	
Chrysene	1.190	1.135		-4.6	
Bis(2-ethylhexyl)phthalate	0.783	0.764		-2.4	
Di-n-octyl phthalate	1.281	1.290		0.7	20.0
Benzo (b) fluoranthene	1.145	1.102		-3.8	
Benzo (k) fluoranthene	1.180	1.133		-4.0	
Benzo (a) pyrene	1.099	1.069		-2.7	20.0
Indeno (1,2,3-cd) pyrene	1.460	1.420		-2.7	
Dibenzo (a,h) anthracene	1.188	1.154		-2.9	
Benzo (g,h,i) perylene	1.181	1.129		-4.4	
1,2,4,5-Tetrachlorobenzene	0.581	0.583		0.3	
1,4-Dioxane	0.549	0.490		-10.7	20.0
2,3,4,6-Tetrachlorophenol	0.388	0.381		-1.8	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
 Data File : BP024703.D
 Acq On : 20 May 2025 11:52
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDCCC040

Quant Time: May 20 12:59:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.657	152	123667	20.000	ng	0.00
21) Naphthalene-d8	10.428	136	504753	20.000	ng	0.00
39) Acenaphthene-d10	14.287	164	316846	20.000	ng	-0.02
64) Phenanthrene-d10	17.081	188	620396	20.000	ng	-0.02
76) Chrysene-d12	21.516	240	679929	20.000	ng	0.00
86) Perylene-d12	24.798	264	792201	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.293	112	558471	77.239	ng	0.00
7) Phenol-d6	6.858	99	697511	75.586	ng	0.00
23) Nitrobenzene-d5	8.804	82	758074	75.884	ng	0.00
42) 2,4,6-Tribromophenol	15.804	330	441081	82.116	ng	0.00
45) 2-Fluorobiphenyl	12.893	172	1916443	79.243	ng	-0.01
79) Terphenyl-d14	19.810	244	3174042	80.045	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.222	88	121113	35.672	ng	99
3) Pyridine	3.622	79	281565	37.400	ng	98
4) n-Nitrosodimethylamine	3.528	42	126280	37.995	ng	94
6) Aniline	6.999	93	436222	36.614	ng	99
8) 2-Chlorophenol	7.234	128	316592	38.571	ng	98
9) Benzaldehyde	6.810	77	218883	36.642	ng	99
10) Phenol	6.887	94	350820	36.834	ng	96
11) bis(2-Chloroethyl)ether	7.093	93	275441	35.195	ng	98
12) 1,3-Dichlorobenzene	7.546	146	358557	37.969	ng	99
13) 1,4-Dichlorobenzene	7.693	146	361848	38.098	ng	100
14) 1,2-Dichlorobenzene	8.005	146	350515	37.873	ng	99
15) Benzyl Alcohol	7.905	79	266818	38.049	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.181	45	331428	35.362	ng	99
17) 2-Methylphenol	8.116	107	252873	37.017	ng	97
18) Hexachloroethane	8.716	117	134692	37.007	ng	95
19) n-Nitroso-di-n-propyla...	8.457	70	226226	35.440	ng	99
20) 3+4-Methylphenols	8.440	107	341536	36.755	ng	99
22) Acetophenone	8.475	105	475992	37.752	ng	# 99
24) Nitrobenzene	8.846	77	332647	37.838	ng	96
25) Isophorone	9.369	82	630069	36.360	ng	98
26) 2-Nitrophenol	9.552	139	180007	41.786	ng	99
27) 2,4-Dimethylphenol	9.622	122	298599	39.314	ng	99
28) bis(2-Chloroethoxy)met...	9.840	93	370445	35.782	ng	100
29) 2,4-Dichlorophenol	10.104	162	291338	39.583	ng	96
30) 1,2,4-Trichlorobenzene	10.287	180	329782	39.761	ng	95
31) Naphthalene	10.475	128	1004479	38.402	ng	99
32) Benzoic acid	9.793	122	177252	35.775	ng	96
33) 4-Chloroaniline	10.593	127	412703	39.100	ng	99
34) Hexachlorobutadiene	10.757	225	213441	39.725	ng	97
35) Caprolactam	11.393	113	99335	37.303	ng	99
36) 4-Chloro-3-methylphenol	11.740	107	340527	37.939	ng	97
37) 2-Methylnaphthalene	12.087	142	640384	37.810	ng	99
38) 1-Methylnaphthalene	12.310	142	679915	37.519	ng	100
40) 1,2,4,5-Tetrachloroben...	12.463	216	369584	40.169	ng	99
41) Hexachlorocyclopentadiene	12.440	237	222383	39.860	ng	97
43) 2,4,6-Trichlorophenol	12.716	196	243302	40.826	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
 Data File : BP024703.D
 Acq On : 20 May 2025 11:52
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SSTDCCC040

Quant Time: May 20 12:59:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.810	196	270865	40.832	ng	97
46) 1,1'-Biphenyl	13.110	154	899673	38.417	ng	99
47) 2-Chloronaphthalene	13.151	162	695128	38.930	ng	99
48) 2-Nitroaniline	13.363	65	203001	38.400	ng	98
49) Acenaphthylene	14.004	152	1135762	38.009	ng	100
50) Dimethylphthalate	13.751	163	895032	37.061	ng	100
51) 2,6-Dinitrotoluene	13.869	165	197446	38.712	ng	98
52) Acenaphthene	14.351	154	656098	38.193	ng	100
53) 3-Nitroaniline	14.204	138	199441	38.296	ng	99
54) 2,4-Dinitrophenol	14.434	184	101110	35.323	ng	97
55) Dibenzofuran	14.692	168	1048113	38.252	ng	99
56) 4-Nitrophenol	14.581	139	202652	46.802	ng	97
57) 2,4-Dinitrotoluene	14.669	165	279529	38.874	ng	99
58) Fluorene	15.351	166	857836	38.395	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.939	232	241572	39.256	ng	97
60) Diethylphthalate	15.128	149	911477	37.342	ng	99
61) 4-Chlorophenyl-phenyle...	15.345	204	430331	38.622	ng	99
62) 4-Nitroaniline	15.392	138	189242	37.633	ng	98
63) Azobenzene	15.645	77	752861	36.055	ng	97
65) 4,6-Dinitro-2-methylph...	15.451	198	158899	39.652	ng	97
66) n-Nitrosodiphenylamine	15.569	169	740115	38.839	ng	98
67) 4-Bromophenyl-phenylether	16.257	248	295412	40.410	ng	97
68) Hexachlorobenzene	16.381	284	370994	39.938	ng	94
69) Atrazine	16.545	200	277598	39.750	ng	99
70) Pentachlorophenol	16.745	266	204812	39.278	ng	100
71) Phenanthrene	17.128	178	1321707	38.323	ng	100
72) Anthracene	17.222	178	1355916	39.076	ng	100
73) Carbazole	17.504	167	1198207	38.152	ng	100
74) Di-n-butylphthalate	18.086	149	1566966	38.795	ng	100
75) Fluoranthene	19.216	202	1531668	37.992	ng	99
77) Benzidine	19.422	184	725976	39.203	ng	99
78) Pyrene	19.592	202	1591992	39.077	ng	100
80) Butylbenzylphthalate	20.539	149	716477	39.544	ng	96
81) Benzo(a)anthracene	21.492	228	1645382	38.539	ng	99
82) 3,3'-Dichlorobenzidine	21.421	252	646986	40.800	ng	100
83) Chrysene	21.569	228	1543547	38.139	ng	100
84) Bis(2-ethylhexyl)phtha...	21.433	149	1039093	39.018	ng	99
85) Di-n-octyl phthalate	22.680	149	1753560	40.266	ng	99
87) Indeno(1,2,3-cd)pyrene	28.515	276	2249969	38.903	ng	# 87
88) Benzo(b)fluoranthene	23.757	252	1745599	38.496	ng	99
89) Benzo(k)fluoranthene	23.833	252	1794614	38.409	ng	99
90) Benzo(a)pyrene	24.651	252	1693647	38.890	ng	99
91) Dibenzo(a,h)anthracene	28.598	278	1829060	38.874	ng	99
92) Benzo(g,h,i)perylene	29.674	276	1788388	38.222	ng	98

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

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

[illegible]

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
 Data File : BP024703.D
 Acq On : 20 May 2025 11:52
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_P
 LabSampleId :
 SSTDCCC040

Quant Time: May 20 12:59:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
2	1,4-Dioxane	0.549	0.490	10.7	99	0.00
3	Pyridine	1.218	1.138	6.6	97	0.00
4	n-Nitrosodimethylamine	0.538	0.511	5.0	101	0.00
5 S	2-Fluorophenol	1.169	1.129	3.4	104	0.00
6	Aniline	1.927	1.764	8.5	94	0.00
7 S	Phenol-d6	1.492	1.410	5.5	98	0.00
8	2-Chlorophenol	1.327	1.280	3.5	100	0.00
9	Benzaldehyde	0.966	0.885	8.4	95	-0.01
10 C	Phenol	1.540	1.418	7.9	96	0.00
11	bis(2-Chloroethyl)ether	1.266	1.114	12.0	94	0.00
12	1,3-Dichlorobenzene	1.527	1.450	5.0	103	0.00
13 C	1,4-Dichlorobenzene	1.536	1.463	4.8	102	0.00
14	1,2-Dichlorobenzene	1.497	1.417	5.3	102	0.00
15	Benzyl Alcohol	1.134	1.079	4.9	96	0.00
16	2,2'-oxybis(1-Chloropropane	1.516	1.340	11.6	93	0.00
17	2-Methylphenol	1.105	1.022	7.5	95	0.00
18	Hexachloroethane	0.589	0.545	7.5	101	-0.01
19 P	n-Nitroso-di-n-propylamine	1.032	0.915	11.3	89	0.00
20	3+4-Methylphenols	1.503	1.381	8.1	93	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	93	0.00
22	Acetophenone	0.500	0.472	5.6	91	0.00
23 S	Nitrobenzene-d5	0.396	0.375	5.3	92	0.00
24	Nitrobenzene	0.348	0.330	5.2	91	0.00
25	Isophorone	0.687	0.624	9.2	87	0.00
26 C	2-Nitrophenol	0.171	0.178	-4.1	97	-0.01
27	2,4-Dimethylphenol	0.301	0.296	1.7	93	0.00
28	bis(2-Chloroethoxy)methane	0.410	0.367	10.5	86	-0.01
29 C	2,4-Dichlorophenol	0.292	0.289	1.0	93	0.01
30	1,2,4-Trichlorobenzene	0.329	0.327	0.6	100	-0.01
31	Naphthalene	1.036	0.995	4.0	95	0.00
32	Benzoic acid	0.181	0.176	2.8	86	0.02
33	4-Chloroaniline	0.418	0.409	2.2	91	0.00
34 C	Hexachlorobutadiene	0.213	0.211	0.9	100	0.00
35	Caprolactam	0.106	0.098	7.5	84	0.00
36 C	4-Chloro-3-methylphenol	0.356	0.337	5.3	88	0.00
37	2-Methylnaphthalene	0.671	0.634	5.5	93	0.00
38	1-Methylnaphthalene	0.718	0.674	6.1	91	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	87	-0.02
40	1,2,4,5-Tetrachlorobenzene	0.581	0.583	-0.3	93	0.00
41 P	Hexachlorocyclopentadiene	0.352	0.351	0.3	86	0.00
42 S	2,4,6-Tribromophenol	0.339	0.348	-2.7	94	0.00
43 C	2,4,6-Trichlorophenol	0.376	0.384	-2.1	91	0.00
44	2,4,5-Trichlorophenol	0.419	0.427	-1.9	92	0.01
45 S	2-Fluorobiphenyl	1.527	1.512	1.0	92	-0.01
46	1,1'-Biphenyl	1.478	1.420	3.9	90	0.00
47	2-Chloronaphthalene	1.127	1.097	2.7	90	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
 Data File : BP024703.D
 Acq On : 20 May 2025 11:52
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_P
 LabSampleId :
 SSTDCCC040

Quant Time: May 20 12:59:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	2-Nitroaniline	0.334	0.320	4.2	84	-0.01
49	Acenaphthylene	1.886	1.792	5.0	87	-0.01
50	Dimethylphthalate	1.524	1.412	7.3	85	0.00
51	2,6-Dinitrotoluene	0.322	0.312	3.1	87	-0.01
52 C	Acenaphthene	1.084	1.035	4.5	88	-0.01
53	3-Nitroaniline	0.329	0.315	4.3	81	-0.01
54 P	2,4-Dinitrophenol	0.169	0.160	5.3	81	0.00
55	Dibenzofuran	1.730	1.654	4.4	89	0.00
56 P	4-Nitrophenol	0.250	0.320	-28.0#	109	0.03
57	2,4-Dinitrotoluene	0.454	0.441	2.9	85	-0.01
58	Fluorene	1.410	1.354	4.0	89	0.00
59	2,3,4,6-Tetrachlorophenol	0.388	0.381	1.8	88	0.00
60	Diethylphthalate	1.541	1.438	6.7	87	-0.01
61	4-Chlorophenyl-phenylether	0.703	0.679	3.4	91	-0.01
62	4-Nitroaniline	0.317	0.299	5.7	79	0.00
63	Azobenzene	1.318	1.188	9.9	83	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	86	-0.02
65	4,6-Dinitro-2-methylphenol	0.129	0.128	0.8	86	0.00
66 c	n-Nitrosodiphenylamine	0.614	0.596	2.9	87	-0.01
67	4-Bromophenyl-phenylether	0.236	0.238	-0.8	91	0.00
68	Hexachlorobenzene	0.299	0.299	0.0	92	0.00
69	Atrazine	0.225	0.224	0.4	89	-0.01
70 C	Pentachlorophenol	0.168	0.165	1.8	83	0.00
71	Phenanthrene	1.112	1.065	4.2	88	0.00
72	Anthracene	1.119	1.093	2.3	88	0.00
73	Carbazole	1.012	0.966	4.5	83	-0.01
74	Di-n-butylphthalate	1.302	1.263	3.0	87	-0.01
75 C	Fluoranthene	1.300	1.234	5.1	85	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	84	0.00
77	Benzidine	0.545	0.534	2.0	80	0.00
78	Pyrene	1.198	1.171	2.3	85	0.00
79 S	Terphenyl-d14	1.166	1.167	-0.1	87	0.00
80	Butylbenzylphthalate	0.533	0.527	1.1	84	0.00
81	Benzo(a)anthracene	1.256	1.210	3.7	84	-0.01
82	3,3'-Dichlorobenzidine	0.466	0.476	-2.1	84	0.00
83	Chrysene	1.190	1.135	4.6	84	0.00
84	Bis(2-ethylhexyl)phthalate	0.783	0.764	2.4	84	0.00
85 c	Di-n-octyl phthalate	1.281	1.290	-0.7	85	-0.01
86 I	Perylene-d12	1.000	1.000	0.0	85	0.00
87	Indeno(1,2,3-cd)pyrene	1.460	1.420	2.7	85	0.00
88	Benzo(b)fluoranthene	1.145	1.102	3.8	85	0.00
89	Benzo(k)fluoranthene	1.180	1.133	4.0	85	0.00
90 C	Benzo(a)pyrene	1.099	1.069	2.7	86	0.00
91	Dibenzo(a,h)anthracene	1.188	1.154	2.9	84	0.00
92	Benzo(g,h,i)perylene	1.181	1.129	4.4	84	0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024703.D
Acq On : 20 May 2025 11:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 20 12:59:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev Area	% Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
 Data File : BP024703.D
 Acq On : 20 May 2025 11:52
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_P
 LabSampleId :
 SSTDCCC040

Quant Time: May 20 12:59:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	102	0.00
2	1,4-Dioxane	40.000	35.672	10.8	99	0.00
3	Pyridine	40.000	37.400	6.5	97	0.00
4	n-Nitrosodimethylamine	40.000	37.995	5.0	101	0.00
5 S	2-Fluorophenol	80.000	77.239	3.5	104	0.00
6	Aniline	40.000	36.614	8.5	94	0.00
7 S	Phenol-d6	80.000	75.586	5.5	98	0.00
8	2-Chlorophenol	40.000	38.571	3.6	100	0.00
9	Benzaldehyde	40.000	36.642	8.4	95	-0.01
10 C	Phenol	40.000	36.834	7.9	96	0.00
11	bis(2-Chloroethyl)ether	40.000	35.195	12.0	94	0.00
12	1,3-Dichlorobenzene	40.000	37.969	5.1	103	0.00
13 C	1,4-Dichlorobenzene	40.000	38.098	4.8	102	0.00
14	1,2-Dichlorobenzene	40.000	37.873	5.3	102	0.00
15	Benzyl Alcohol	40.000	38.049	4.9	96	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	35.362	11.6	93	0.00
17	2-Methylphenol	40.000	37.017	7.5	95	0.00
18	Hexachloroethane	40.000	37.007	7.5	101	-0.01
19 P	n-Nitroso-di-n-propylamine	40.000	35.440	11.4	89	0.00
20	3+4-Methylphenols	40.000	36.755	8.1	93	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	93	0.00
22	Acetophenone	40.000	37.752	5.6	91	0.00
23 S	Nitrobenzene-d5	80.000	75.884	5.1	92	0.00
24	Nitrobenzene	40.000	37.838	5.4	91	0.00
25	Isophorone	40.000	36.360	9.1	87	0.00
26 C	2-Nitrophenol	40.000	41.786	-4.5	97	-0.01
27	2,4-Dimethylphenol	40.000	39.314	1.7	93	0.00
28	bis(2-Chloroethoxy)methane	40.000	35.782	10.5	86	-0.01
29 C	2,4-Dichlorophenol	40.000	39.583	1.0	93	0.01
30	1,2,4-Trichlorobenzene	40.000	39.761	0.6	100	-0.01
31	Naphthalene	40.000	38.402	4.0	95	0.00
32	Benzoic acid	40.000	35.775	10.6	86	0.02
33	4-Chloroaniline	40.000	39.100	2.2	91	0.00
34 C	Hexachlorobutadiene	40.000	39.725	0.7	100	0.00
35	Caprolactam	40.000	37.303	6.7	84	0.00
36 C	4-Chloro-3-methylphenol	40.000	37.939	5.2	88	0.00
37	2-Methylnaphthalene	40.000	37.810	5.5	93	0.00
38	1-Methylnaphthalene	40.000	37.519	6.2	91	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	87	-0.02
40	1,2,4,5-Tetrachlorobenzene	40.000	40.169	-0.4	93	0.00
41 P	Hexachlorocyclopentadiene	40.000	39.860	0.4	86	0.00
42 S	2,4,6-Tribromophenol	80.000	82.116	-2.6	94	0.00
43 C	2,4,6-Trichlorophenol	40.000	40.826	-2.1	91	0.00
44	2,4,5-Trichlorophenol	40.000	40.832	-2.1	92	0.01
45 S	2-Fluorobiphenyl	80.000	79.243	0.9	92	-0.01
46	1,1'-Biphenyl	40.000	38.417	4.0	90	0.00
47	2-Chloronaphthalene	40.000	38.930	2.7	90	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
 Data File : BP024703.D
 Acq On : 20 May 2025 11:52
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_P
 LabSampleId :
 SSTDCCC040

Quant Time: May 20 12:59:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	2-Nitroaniline	40.000	38.400	4.0	84	-0.01
49	Acenaphthylene	40.000	38.009	5.0	87	-0.01
50	Dimethylphthalate	40.000	37.061	7.3	85	0.00
51	2,6-Dinitrotoluene	40.000	38.712	3.2	87	-0.01
52 C	Acenaphthene	40.000	38.193	4.5	88	-0.01
53	3-Nitroaniline	40.000	38.296	4.3	81	-0.01
54 P	2,4-Dinitrophenol	40.000	35.323	11.7	81	0.00
55	Dibenzofuran	40.000	38.252	4.4	89	0.00
56 P	4-Nitrophenol	40.000	46.802	-17.0	109	0.03
57	2,4-Dinitrotoluene	40.000	38.874	2.8	85	-0.01
58	Fluorene	40.000	38.395	4.0	89	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	39.256	1.9	88	0.00
60	Diethylphthalate	40.000	37.342	6.6	87	-0.01
61	4-Chlorophenyl-phenylether	40.000	38.622	3.4	91	-0.01
62	4-Nitroaniline	40.000	37.633	5.9	79	0.00
63	Azobenzene	40.000	36.055	9.9	83	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	86	-0.02
65	4,6-Dinitro-2-methylphenol	40.000	39.652	0.9	86	0.00
66 c	n-Nitrosodiphenylamine	40.000	38.839	2.9	87	-0.01
67	4-Bromophenyl-phenylether	40.000	40.410	-1.0	91	0.00
68	Hexachlorobenzene	40.000	39.938	0.2	92	0.00
69	Atrazine	40.000	39.750	0.6	89	-0.01
70 C	Pentachlorophenol	40.000	39.278	1.8	83	0.00
71	Phenanthrene	40.000	38.323	4.2	88	0.00
72	Anthracene	40.000	39.076	2.3	88	0.00
73	Carbazole	40.000	38.152	4.6	83	-0.01
74	Di-n-butylphthalate	40.000	38.795	3.0	87	-0.01
75 C	Fluoranthene	40.000	37.992	5.0	85	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	84	0.00
77	Benzydine	40.000	39.203	2.0	80	0.00
78	Pyrene	40.000	39.077	2.3	85	0.00
79 S	Terphenyl-d14	80.000	80.045	-0.1	87	0.00
80	Butylbenzylphthalate	40.000	39.544	1.1	84	0.00
81	Benzo(a)anthracene	40.000	38.539	3.7	84	-0.01
82	3,3'-Dichlorobenzidine	40.000	40.800	-2.0	84	0.00
83	Chrysene	40.000	38.139	4.7	84	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	39.018	2.5	84	0.00
85 c	Di-n-octyl phthalate	40.000	40.266	-0.7	85	-0.01
86 I	Perylene-d12	20.000	20.000	0.0	85	0.00
87	Indeno(1,2,3-cd)pyrene	40.000	38.903	2.7	85	0.00
88	Benzo(b)fluoranthene	40.000	38.496	3.8	85	0.00
89	Benzo(k)fluoranthene	40.000	38.409	4.0	85	0.00
90 C	Benzo(a)pyrene	40.000	38.890	2.8	86	0.00
91	Dibenzo(a,h)anthracene	40.000	38.874	2.8	84	0.00
92	Benzo(g,h,i)perylene	40.000	38.222	4.4	84	0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024703.D
Acq On : 20 May 2025 11:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 20 12:59:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0



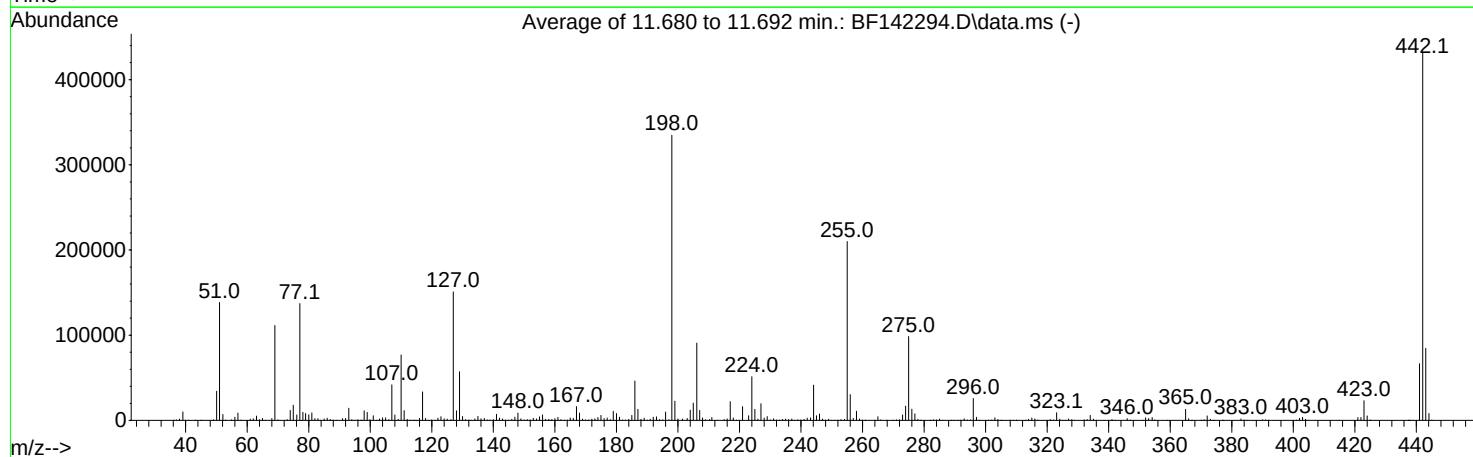
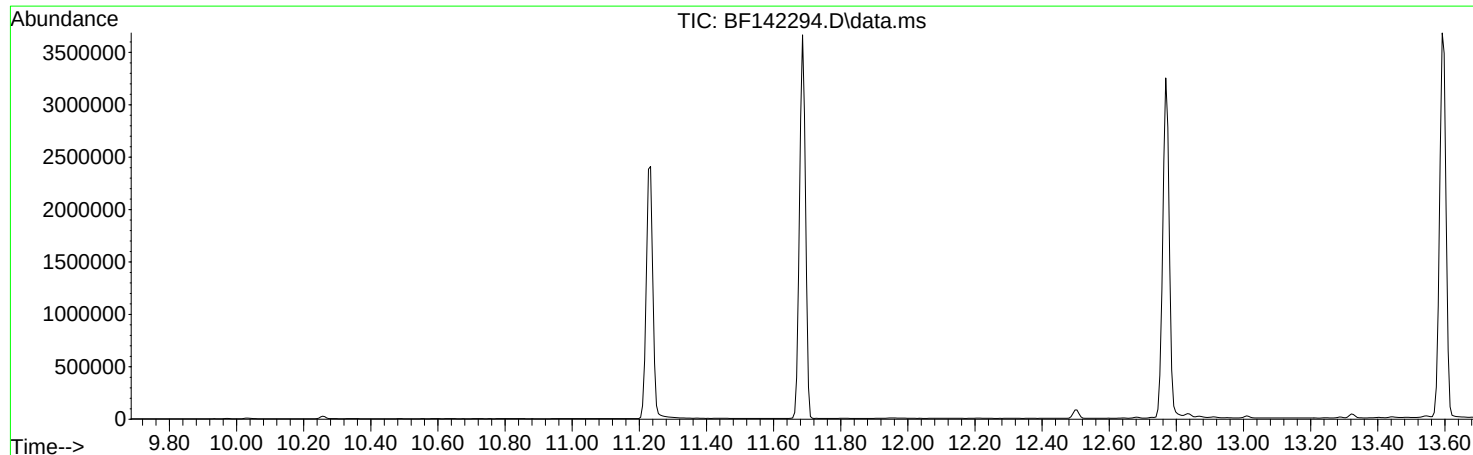
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
Data File : BF142294.D
Acq On : 05 May 2025 13:24
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

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



AutoFind: Scans 1613, 1614, 1615; Background Corrected with Scan 1606

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	41.3	138422	PASS
68	69	0.00	2	1.8	2002	PASS
69	198	0.00	100	33.3	111451	PASS
70	69	0.00	2	0.5	606	PASS
127	198	10	80	45.1	150915	PASS
197	198	0.00	2	0.2	791	PASS
198	198	100	100	100.0	334827	PASS
199	198	5	9	6.7	22493	PASS
275	198	10	60	29.4	98472	PASS
365	198	1	100	3.9	13004	PASS
441	198	0.01	100	19.9	66483	PASS
442	442	50	100	100.0	431915	PASS
443	442	15	24	19.6	84477	PASS

DDT Breakdown

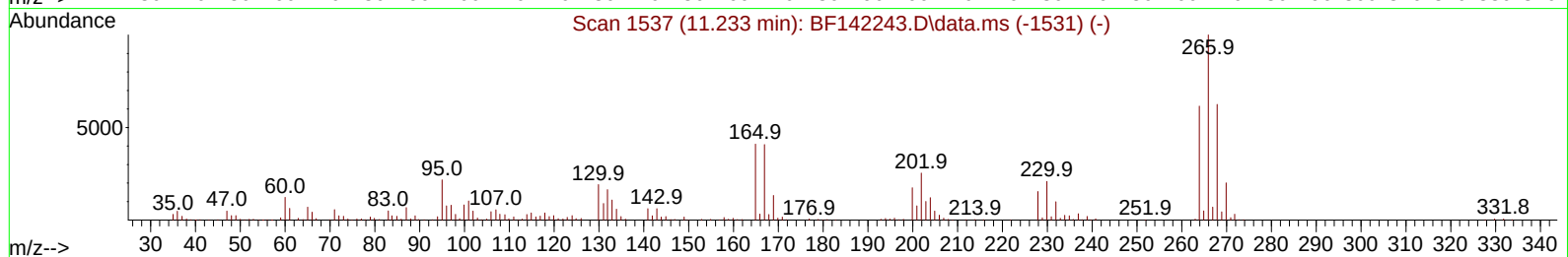
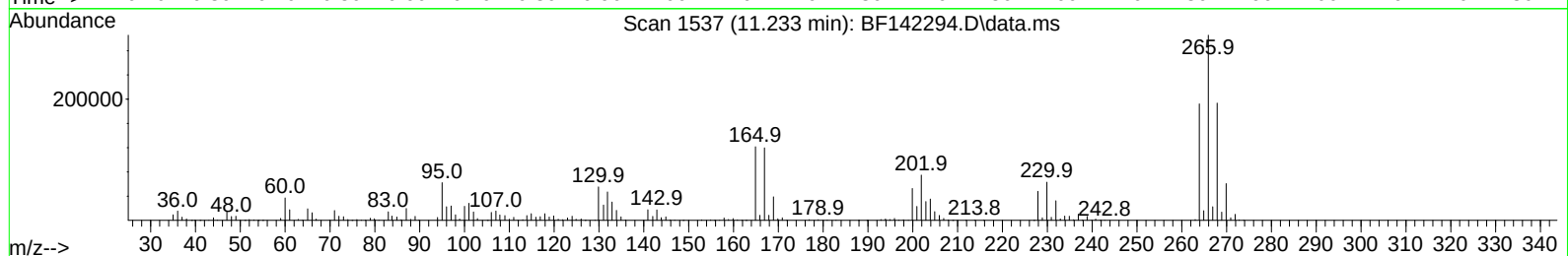
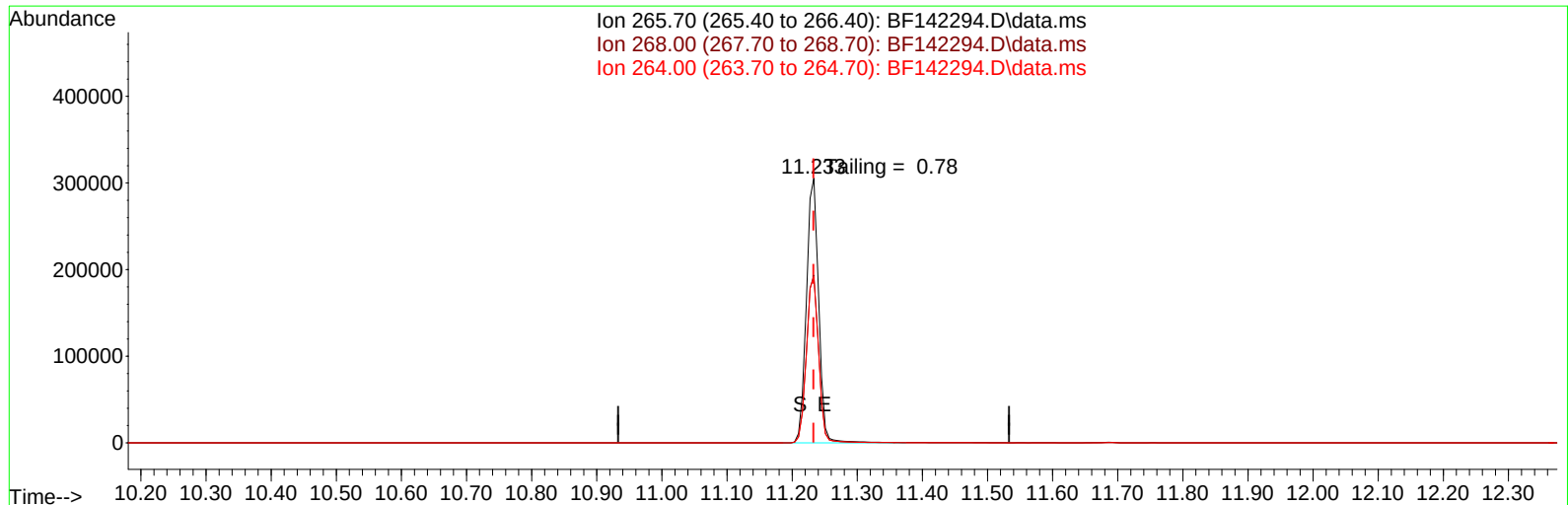
Date	Instrument Name	DFTPP Data File
5/5/2025	BNA_F	<u>BF142294.D</u>
Compound Name	Response	Retention Time
DDT	875067	13.592
DDD	9793	13.321
DDE	601	12.957
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
10394	885461	1.17

Instrument :
BNA_F
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050525\
Data File : BF142294.D
Acq On : 05 May 2025 13:24
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: May 05 15:26:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 15:26:28 2025
Response via : Initial Calibration



TIC: BF142294.D\data.ms

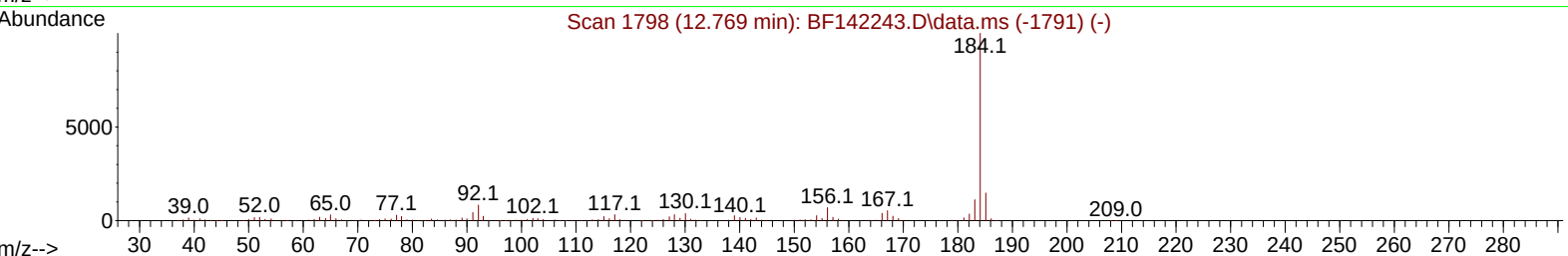
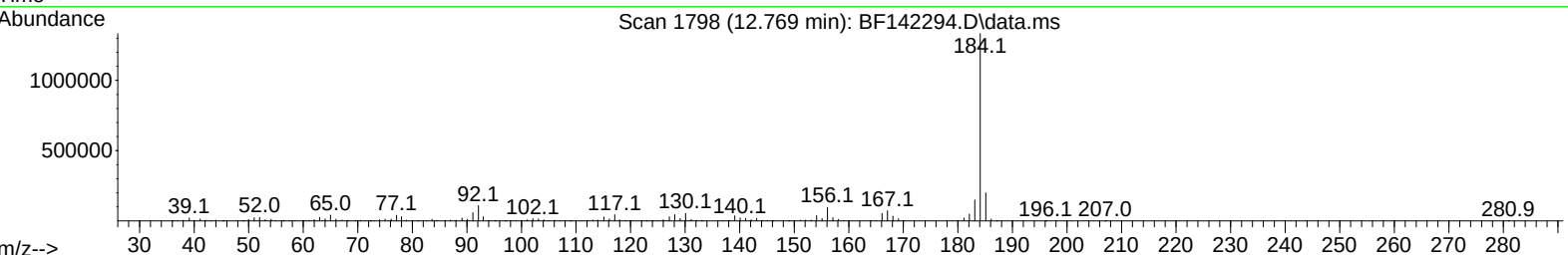
(70) Pentachlorophenol (C)

11.233min (+ 0.000) 69841.70 ng

response 401301

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.50	63.35
264.00	61.60	62.89
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP



TIC: BF142294.D\data.ms

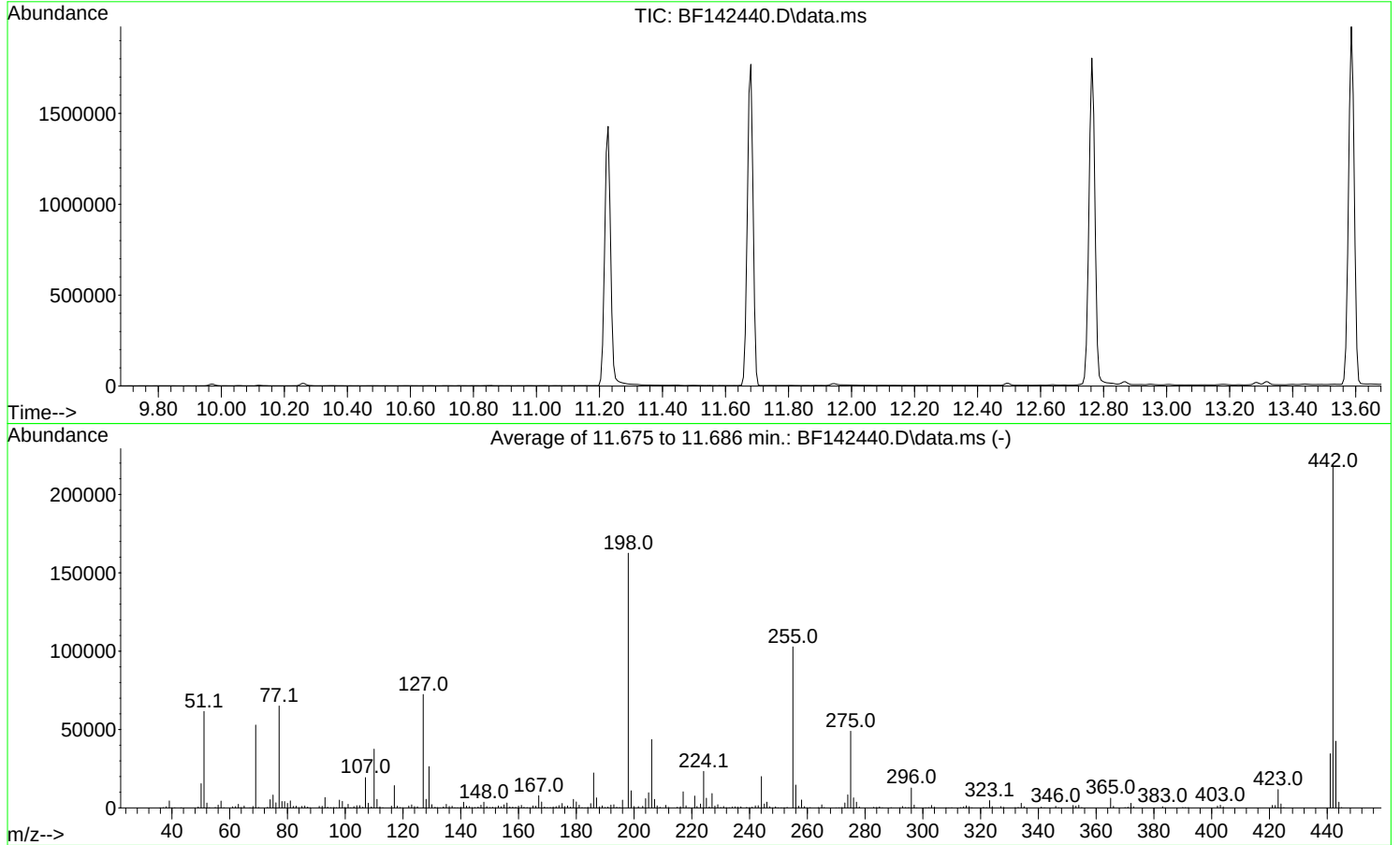
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.70	15.01
183.00	11.10	11.15
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142440.D
Acq On : 19 May 2025 09:40
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

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



AutoFind: Scans 1612, 1613, 1614; Background Corrected with Scan 1605

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.9	61579	PASS
68	69	0.00	2	1.8	950	PASS
69	198	0.00	100	32.5	52867	PASS
70	69	0.00	2	0.6	296	PASS
127	198	10	80	44.5	72395	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	162520	PASS
199	198	5	9	6.7	10962	PASS
275	198	10	60	30.1	48963	PASS
365	198	1	100	3.8	6225	PASS
441	198	0.01	100	21.3	34565	PASS
442	442	50	100	100.0	218325	PASS
443	442	15	24	19.5	42557	PASS

DDT Breakdown

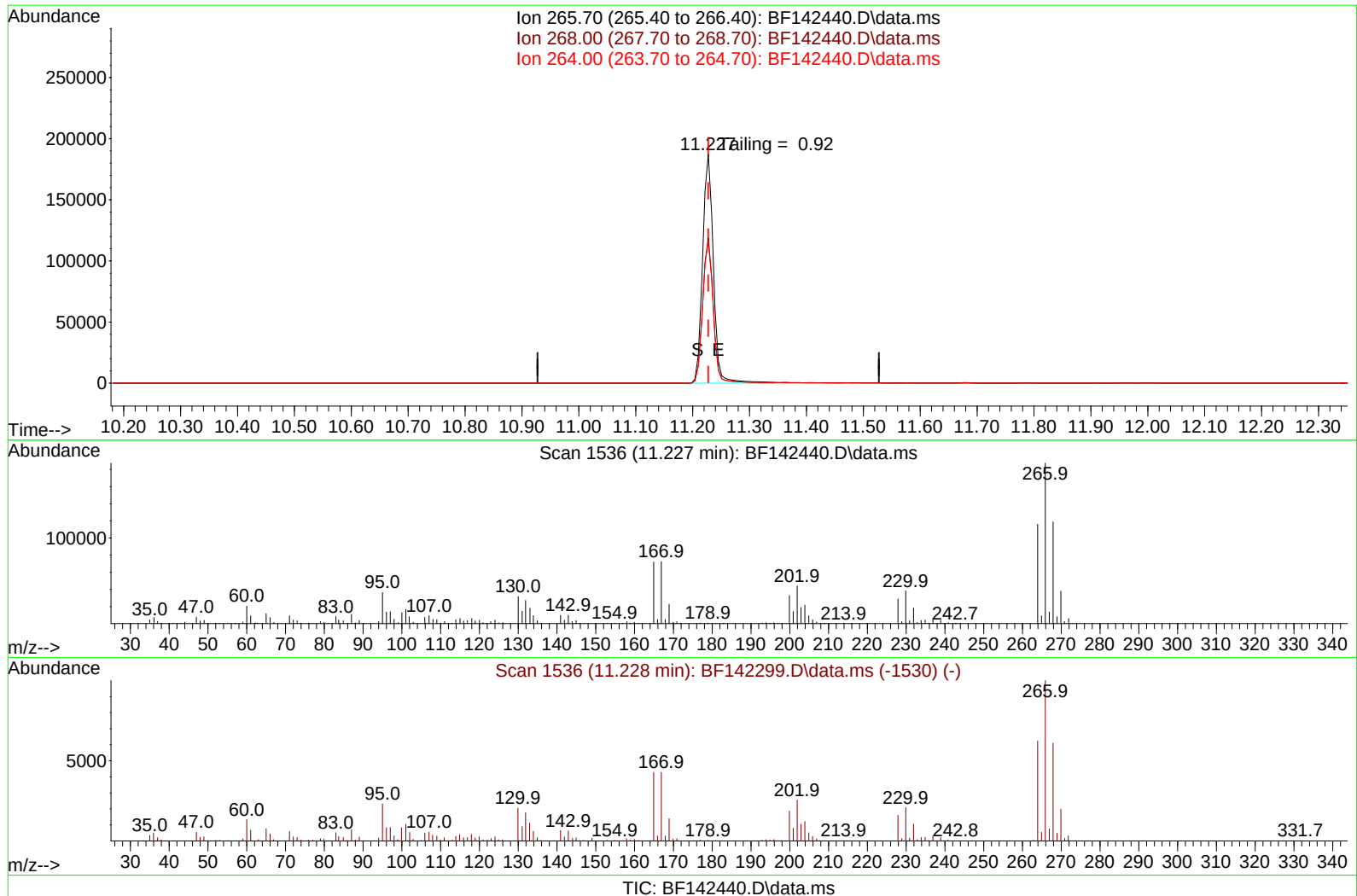
Date	Instrument Name	DFTPP Data File
5/19/2025	BNA_F	<u>BF142440.D</u>
Compound Name	Response	Retention Time
DDT	508668	13.586
DDD	8513	13.316
DDE	1079	12.951
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
9592	518260	1.85

Instrument :
BNA_F
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142440.D
Acq On : 19 May 2025 09:40
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: May 19 11:53:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration

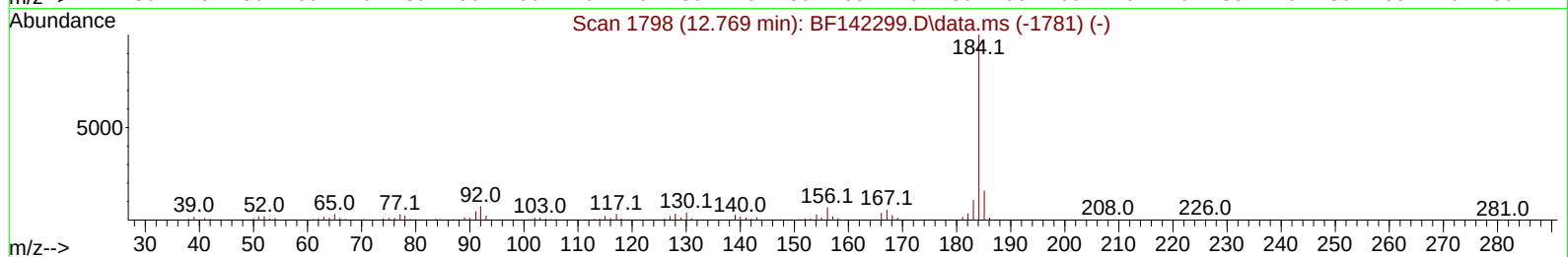
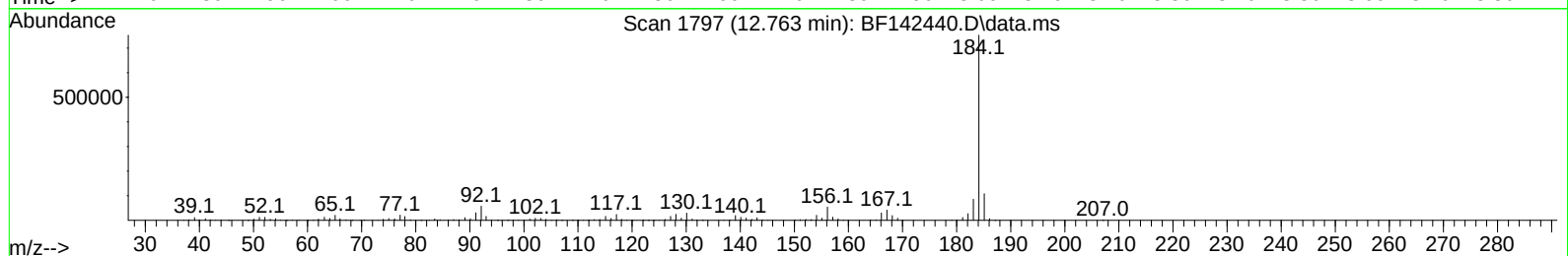
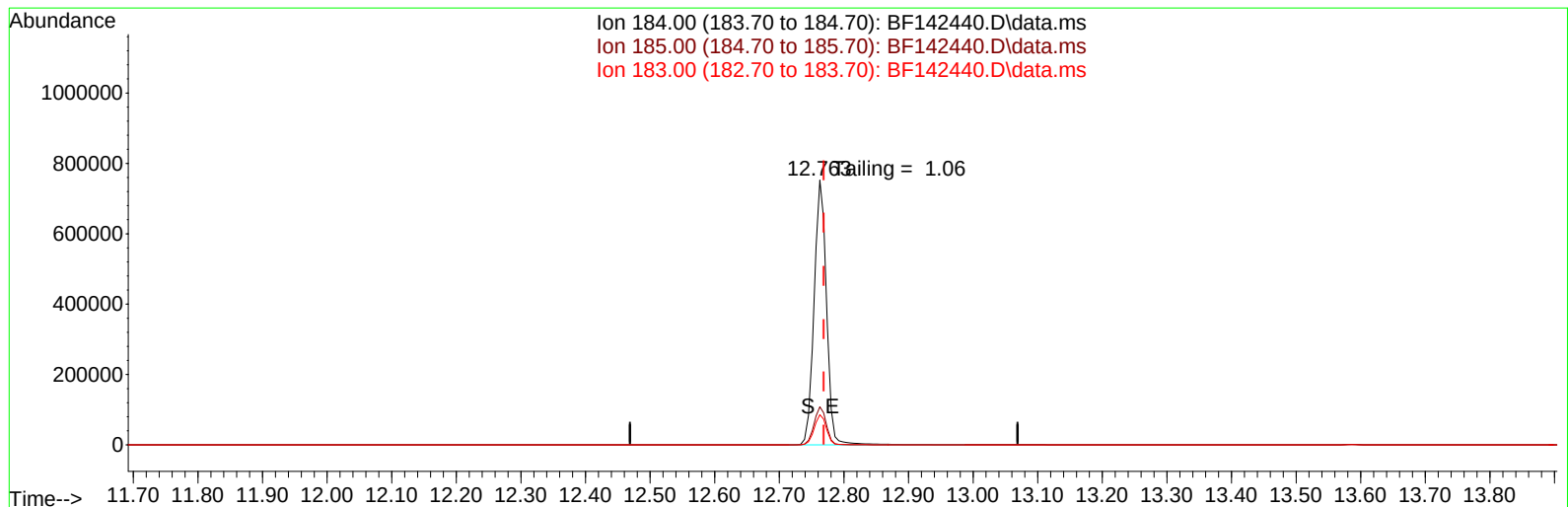
**(70) Pentachlorophenol (C)****11.227min (-0.000) 66651.09 ng****response 247406**

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	60.90	63.35
264.00	62.20	61.92
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051925\
Data File : BF142440.D
Acq On : 19 May 2025 09:40
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: May 19 11:53:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 05 18:41:44 2025
Response via : Initial Calibration



TIC: BF142440.D\data.ms

(77) Benzidine

12.763min (-0.006) 146948.14 ng

response 1009435

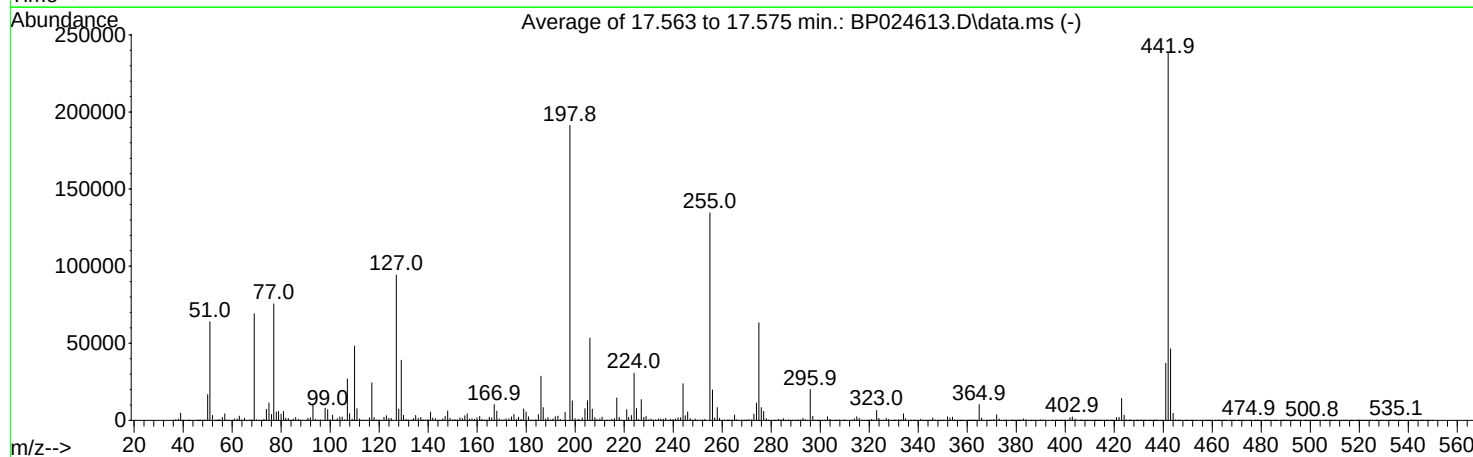
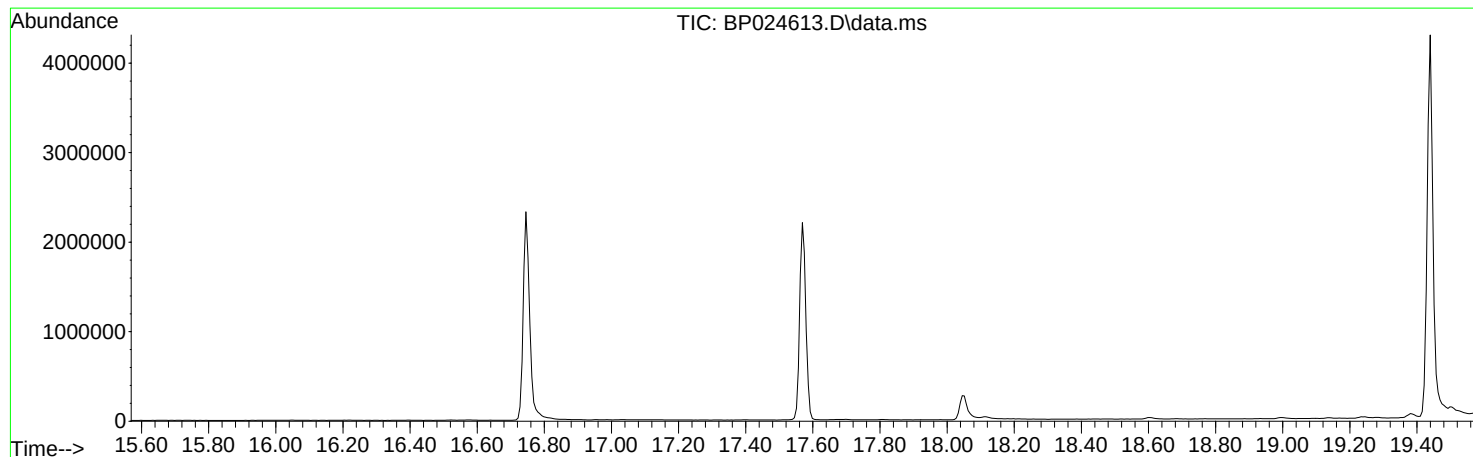
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.70	14.41
183.00	10.70	11.41
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024613.D
Acq On : 13 May 2025 10:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Integration File: rteint.p

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



AutoFind: Scans 2461, 2462, 2463; Background Corrected with Scan 2449

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.5	63968	PASS
68	69	0.00	2	0.6	438	PASS
69	198	0.00	100	36.2	69152	PASS
70	69	0.00	2	0.6	419	PASS
127	198	10	80	49.3	94192	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	191223	PASS
199	198	5	9	6.6	12661	PASS
275	198	10	60	33.1	63293	PASS
365	198	1	100	5.4	10286	PASS
441	198	0.01	100	19.4	37080	PASS
442	442	100	100	100.0	238569	PASS
443	442	15	24	19.4	46397	PASS

DDT Breakdown

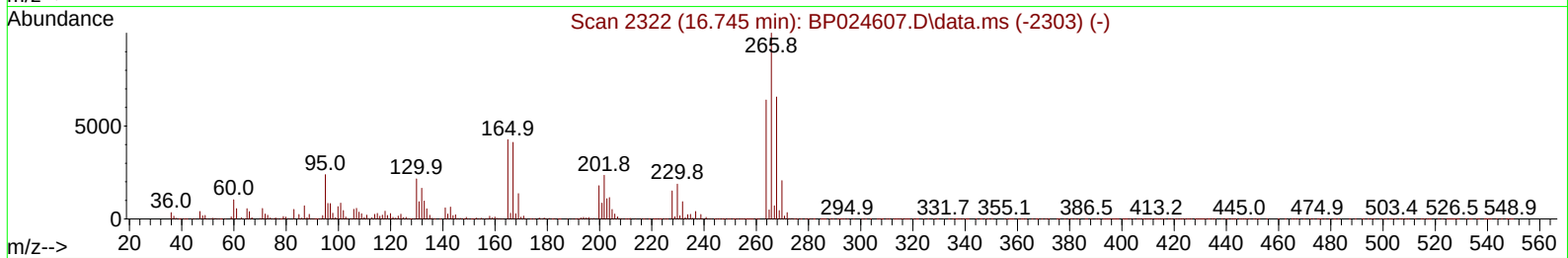
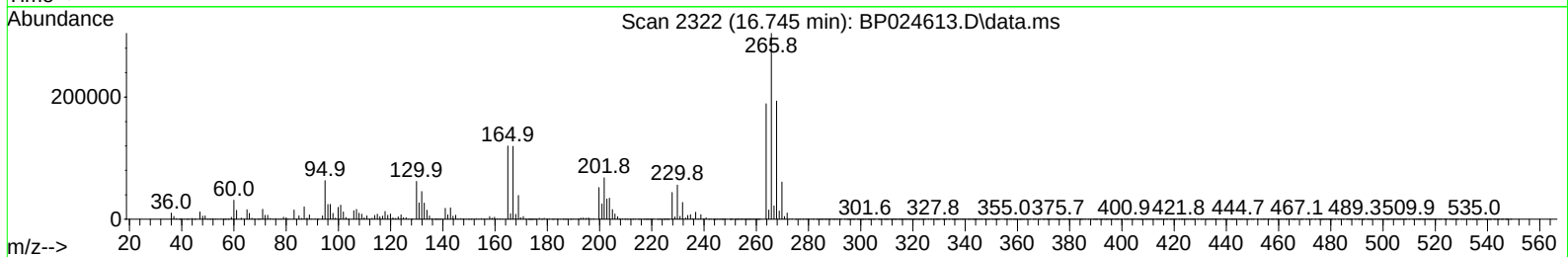
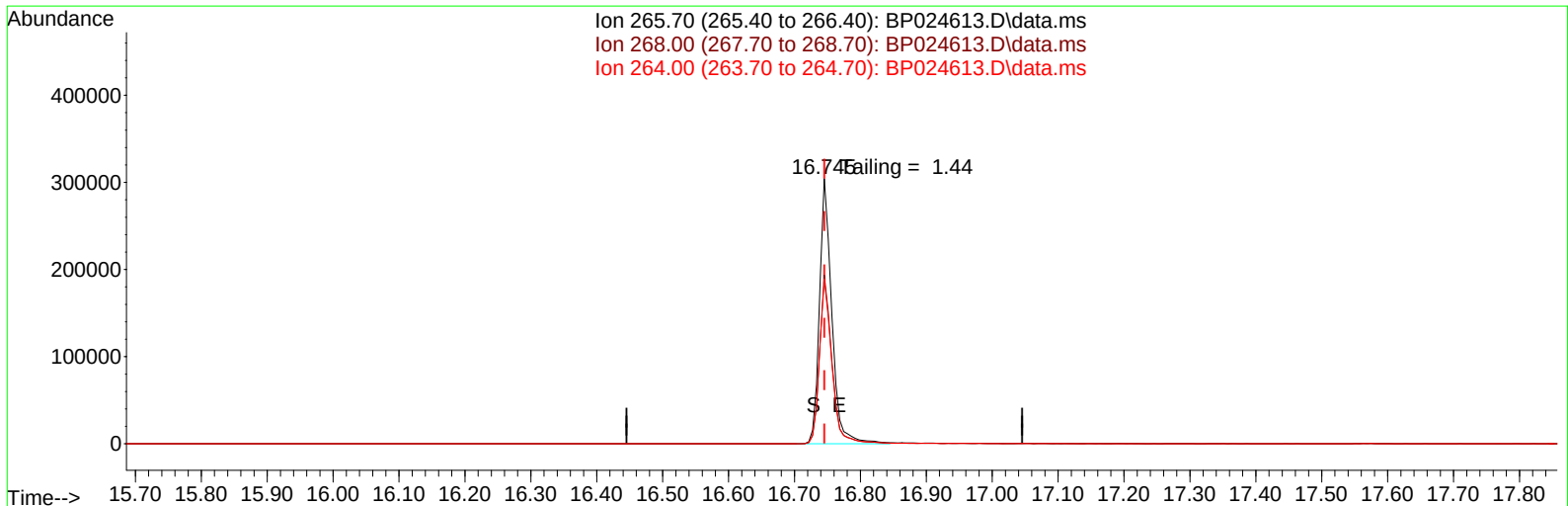
Date	Instrument Name	DFTPP Data File
5/13/2025	BNA_P	<u>BP024613.D</u>
Compound Name	Response	Retention Time
DDT	750509	20.716
DDD	13774	20.269
DDE	1248	19.733
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
15022	765531	1.96

Instrument :
BNA_P
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024613.D
Acq On : 13 May 2025 10:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: May 13 12:28:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 12:28:24 2025
Response via : Initial Calibration



TIC: BP024613.D\data.ms

(70) Pentachlorophenol (C)

16.745min (-0.000) 42670.46 ng

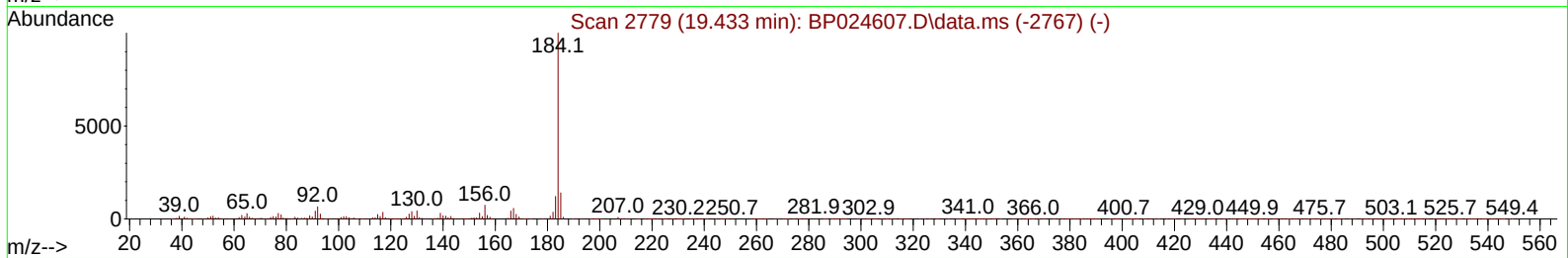
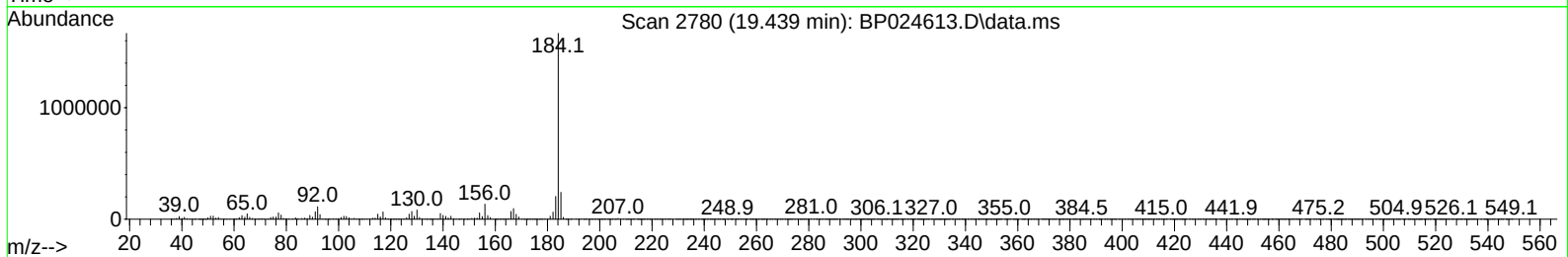
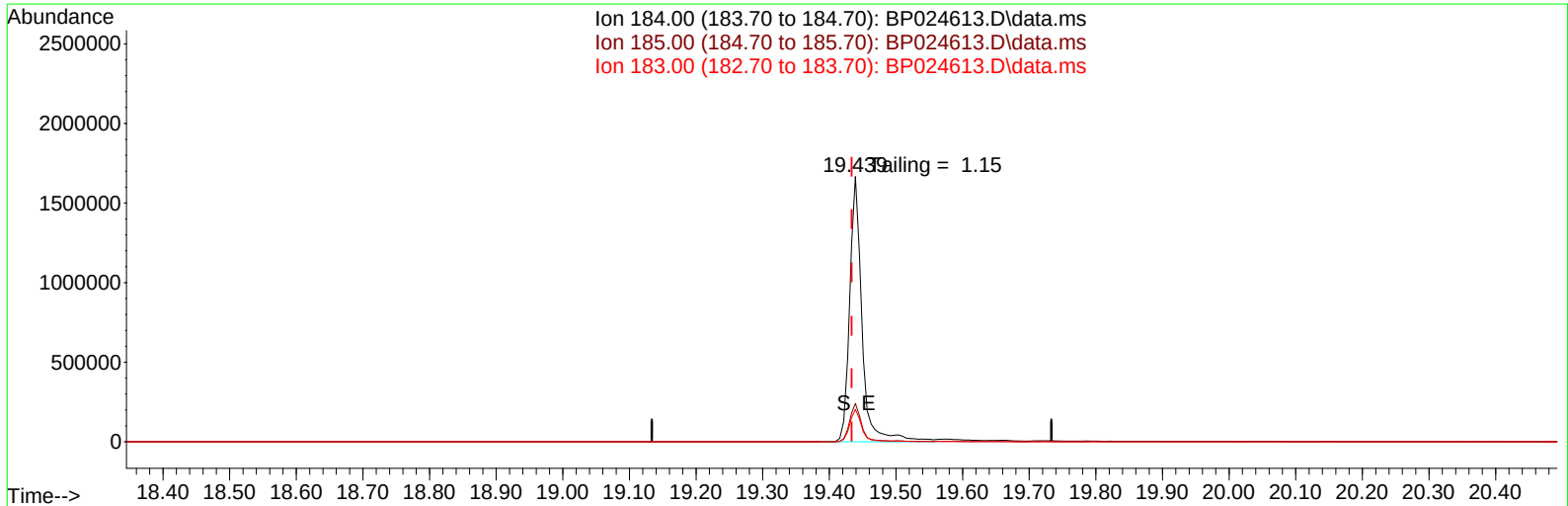
response 398426

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	65.60	63.59
264.00	64.00	62.12
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024613.D
Acq On : 13 May 2025 10:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: May 13 12:28:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 12:28:24 2025
Response via : Initial Calibration



TIC: BP024613.D\data.ms

(77) Benzidine

19.439min (+ 0.006) 5637.89 ng

response 2074486

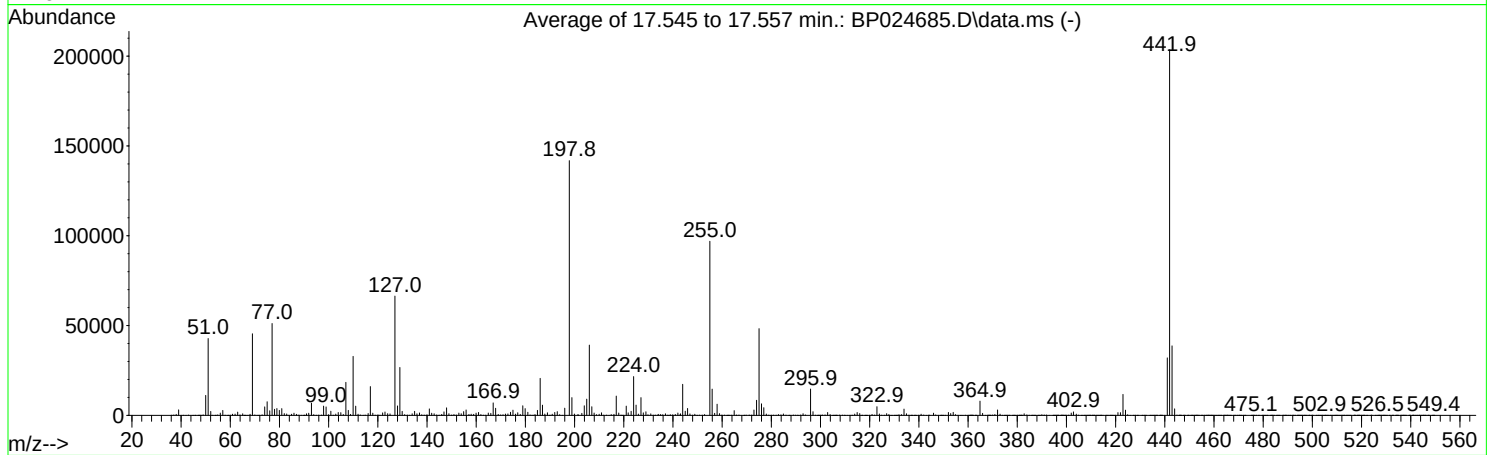
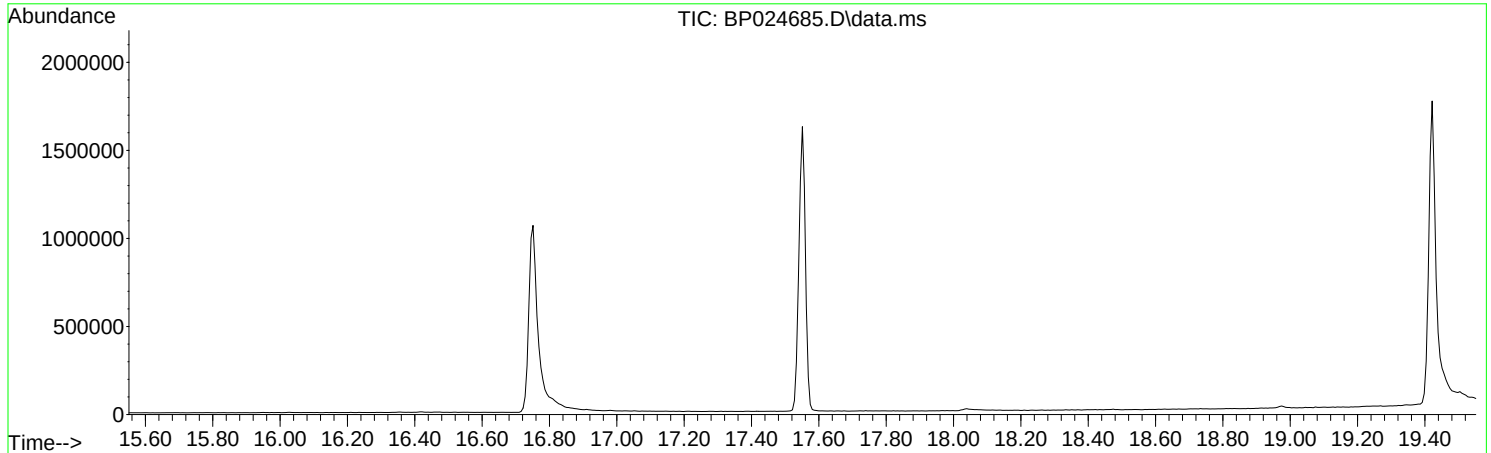
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.10	14.46
183.00	12.10	12.23
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
Data File : BP024685.D
Acq On : 19 May 2025 11:26
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Integration File: rteint.p

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



AutoFind: Scans 2458, 2459, 2460; Background Corrected with Scan 2448

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	30.2	42781	PASS
68	69	0.00	2	1.3	608	PASS
69	198	0.00	100	32.0	45436	PASS
70	69	0.00	2	0.5	248	PASS
127	198	10	80	46.8	66420	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	141834	PASS
199	198	5	9	7.0	9883	PASS
275	198	10	60	34.1	48297	PASS
365	198	1	100	5.6	7951	PASS
441	198	0.01	100	22.6	32009	PASS
442	442	100	100	100.0	203603	PASS
443	442	15	24	19.0	38702	PASS

DDT Breakdown

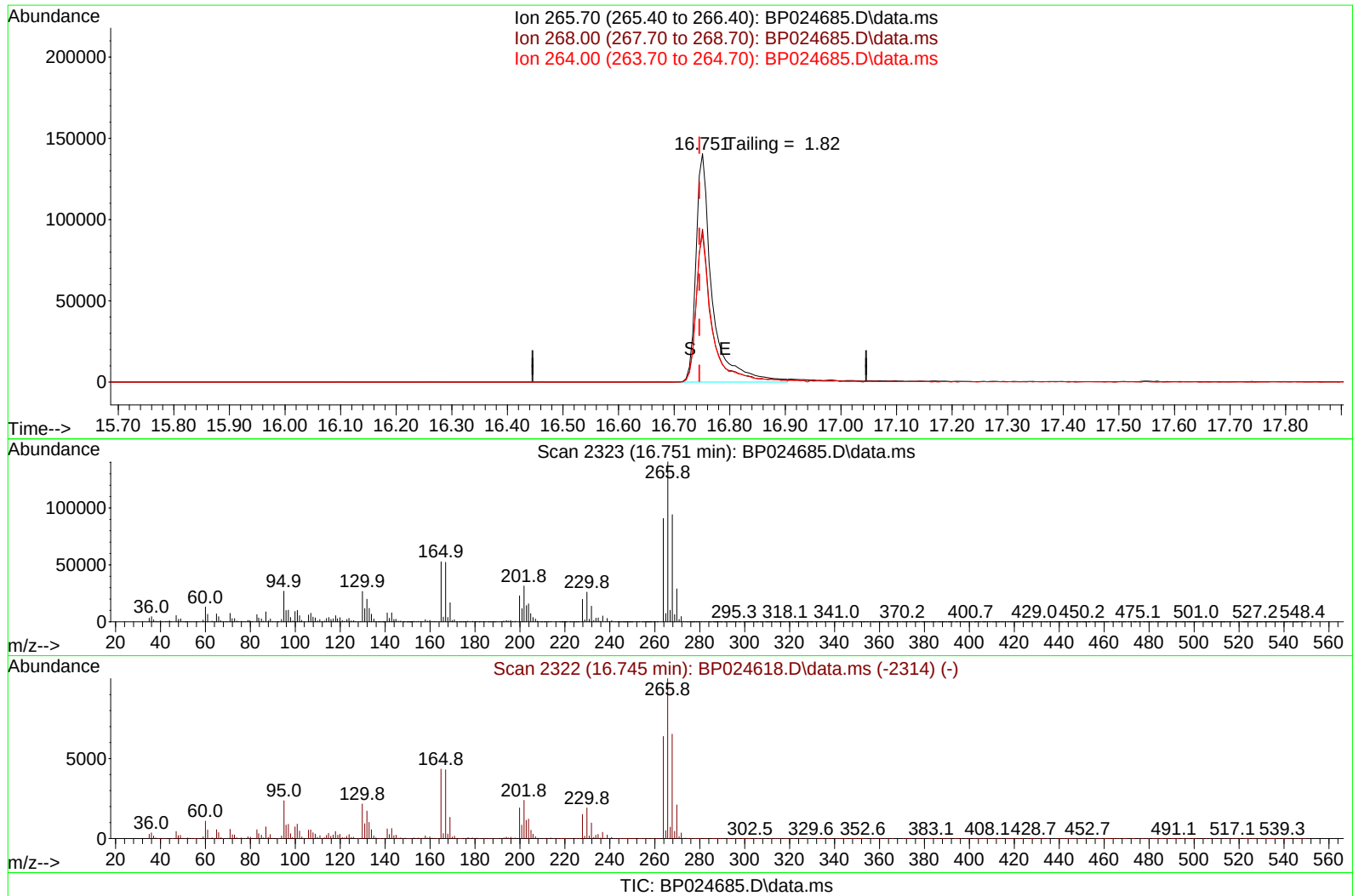
Date	Instrument Name	DFTPP Data File
5/19/2025	BNA_P	<u>BP024685.D</u>
Compound Name	Response	Retention Time
DDT	528818	20.71
DDD	19377	20.251
DDE	3479	19.721
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
22856	551674	4.14

Instrument :
BNA_P
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
Data File : BP024685.D
Acq On : 19 May 2025 11:26
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: May 19 14:36:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



(70) Pentachlorophenol (C)

16.751min (+ 0.006) 677862.06 ng

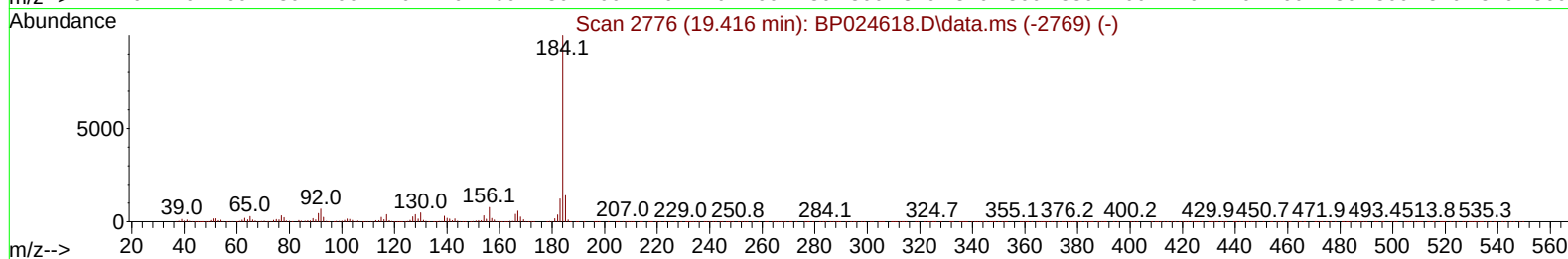
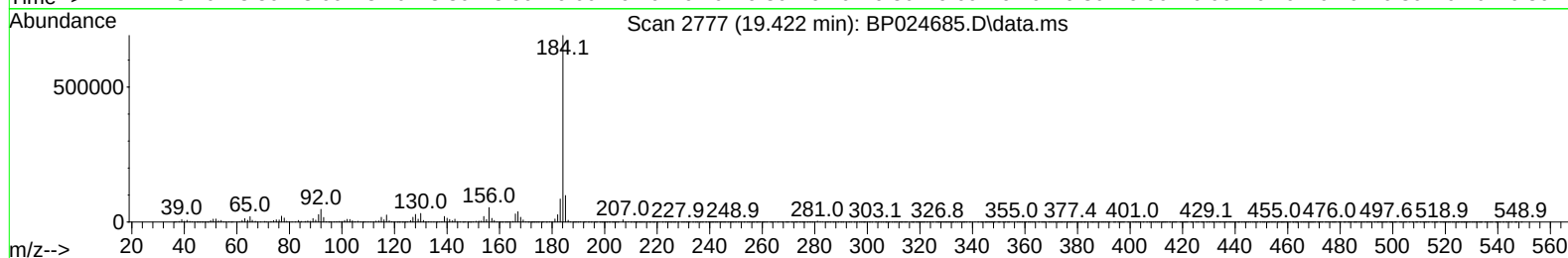
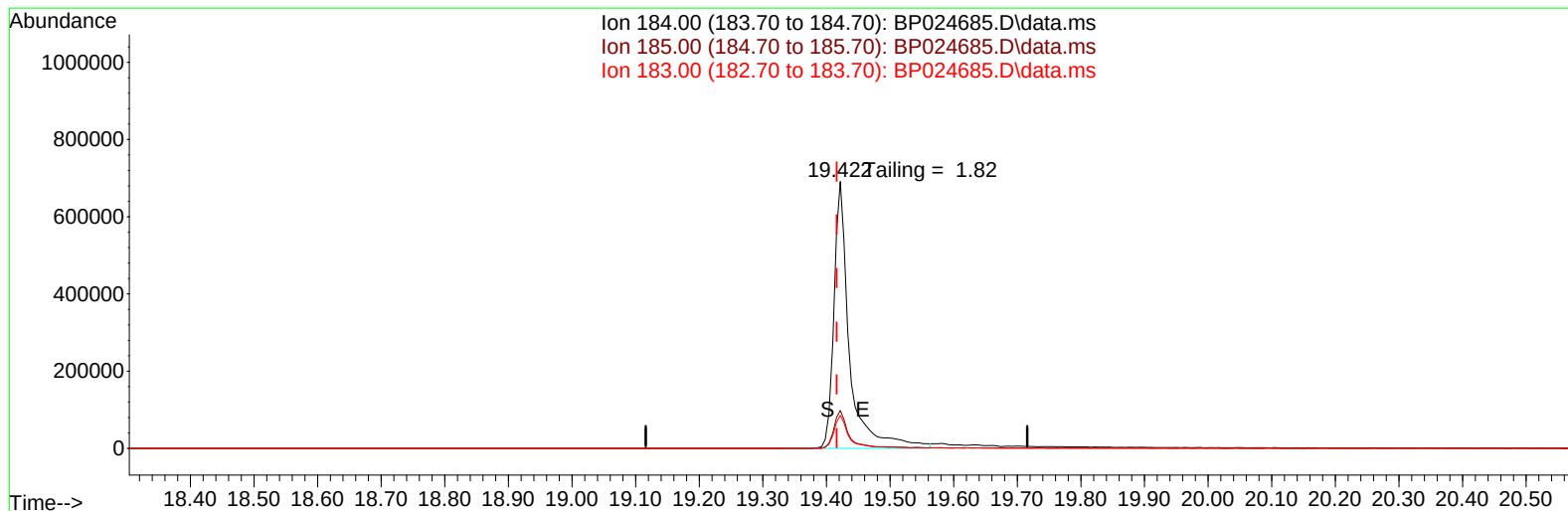
response 284874

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	65.30	67.02
264.00	63.90	64.61
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
Data File : BP024685.D
Acq On : 19 May 2025 11:26
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: May 19 14:36:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



TIC: BP024685.D\data.ms

(77) Benzidine

19.422min (+ 0.006) 78779.38 ng

response 1186534

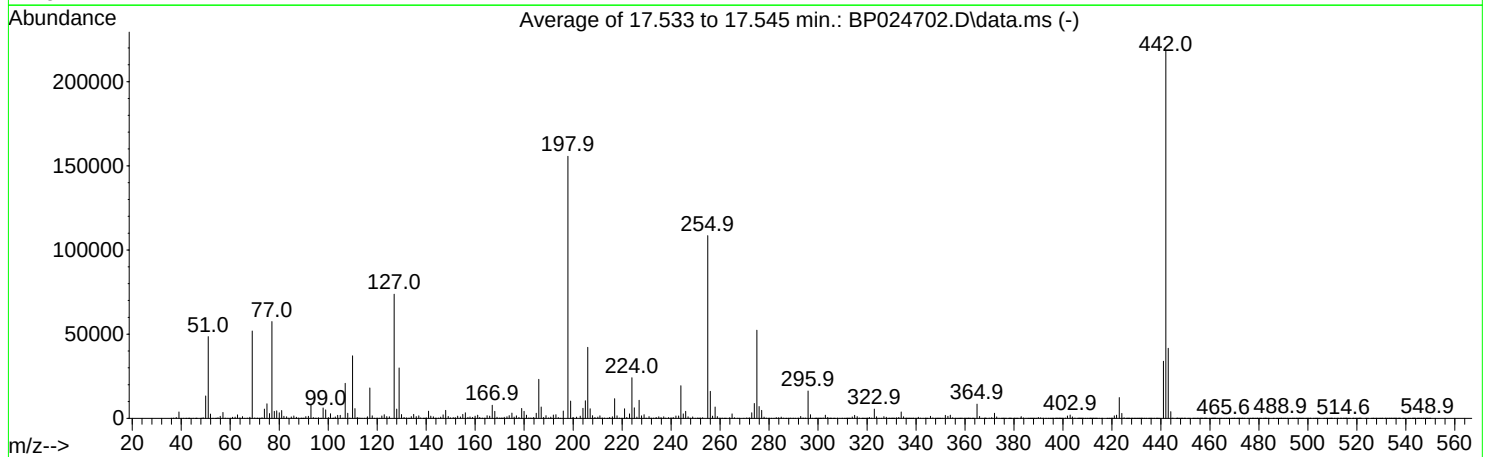
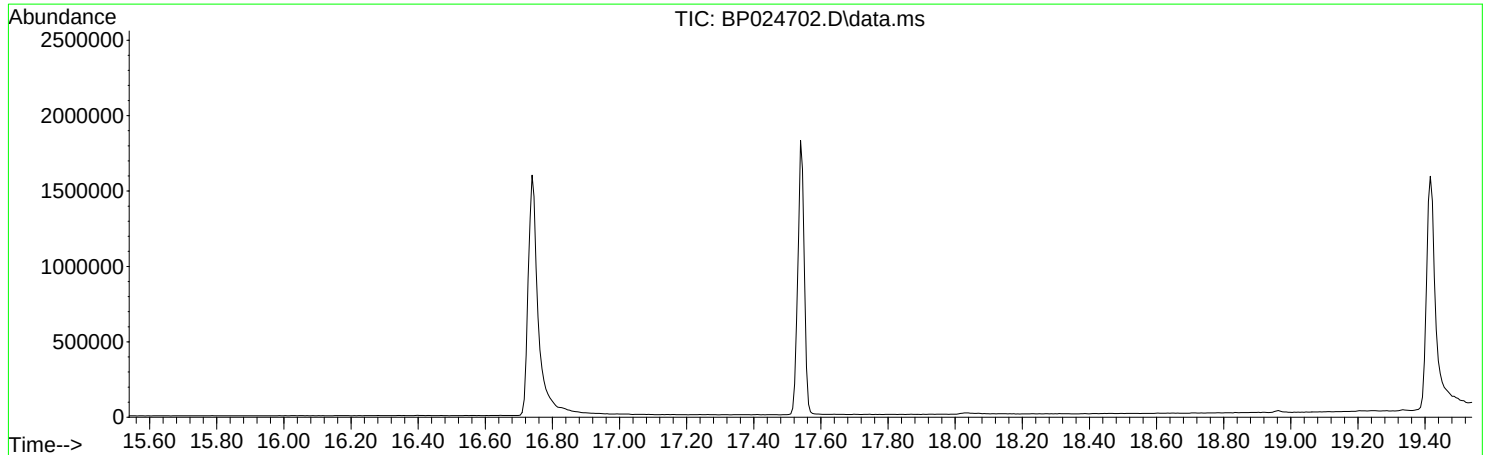
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.00	14.18
183.00	12.30	12.34
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024702.D
Acq On : 20 May 2025 10:31
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Integration File: rteint.p

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



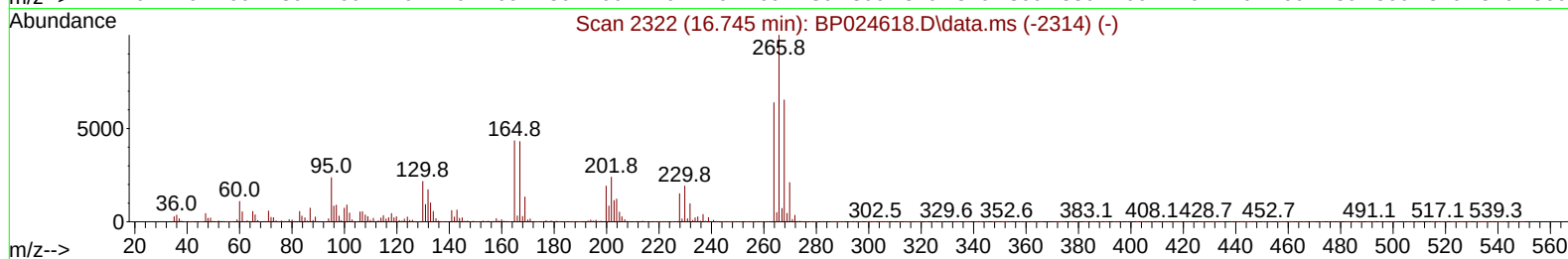
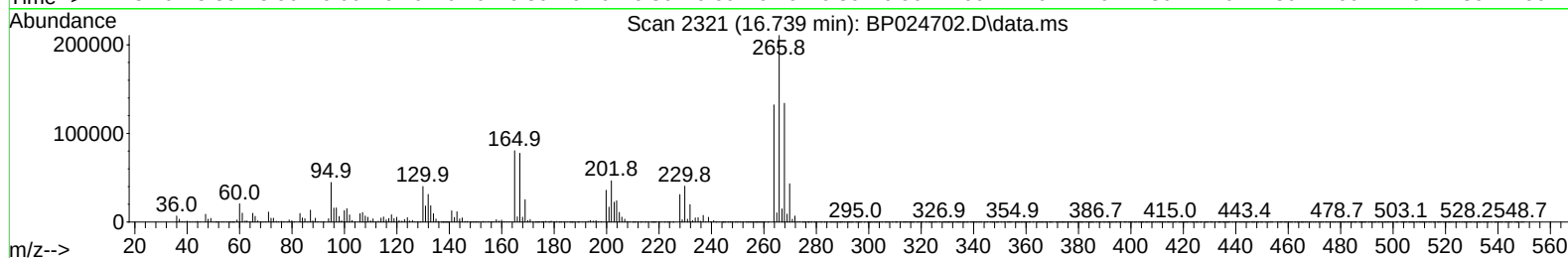
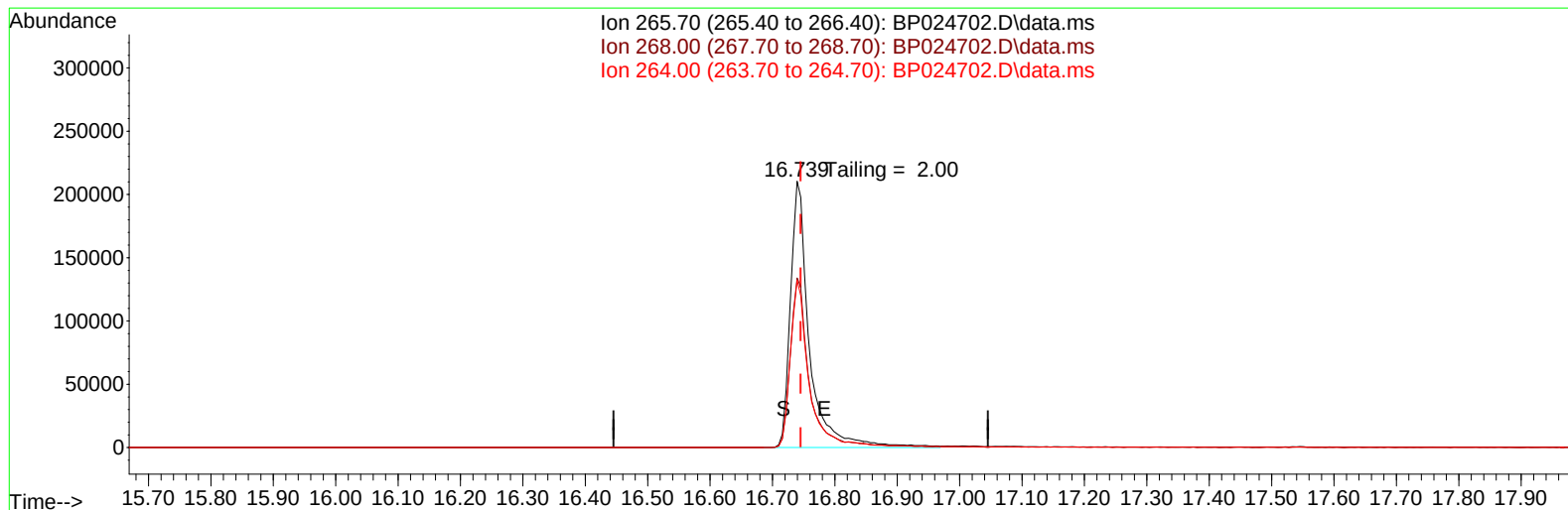
AutoFind: Scans 2456, 2457, 2458; Background Corrected with Scan 2447

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	31.2	48558	PASS
68	69	0.00	2	1.3	692	PASS
69	198	0.00	100	33.3	51898	PASS
70	69	0.00	2	0.6	286	PASS
127	198	10	80	47.4	73724	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	155659	PASS
199	198	5	9	6.6	10281	PASS
275	198	10	60	33.6	52370	PASS
365	198	1	100	5.4	8455	PASS
441	198	0.01	100	21.8	33949	PASS
442	442	100	100	100.0	218491	PASS
443	442	15	24	19.0	41616	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024702.D
Acq On : 20 May 2025 10:31
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: May 20 12:58:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



TIC: BP024702.D\data.ms

(70) Pentachlorophenol (C)

16.739min (-0.006) 1977139.32 ng

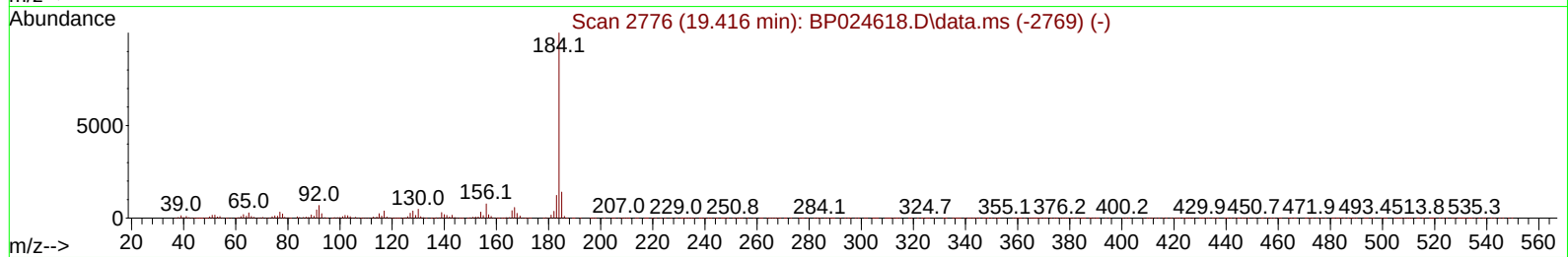
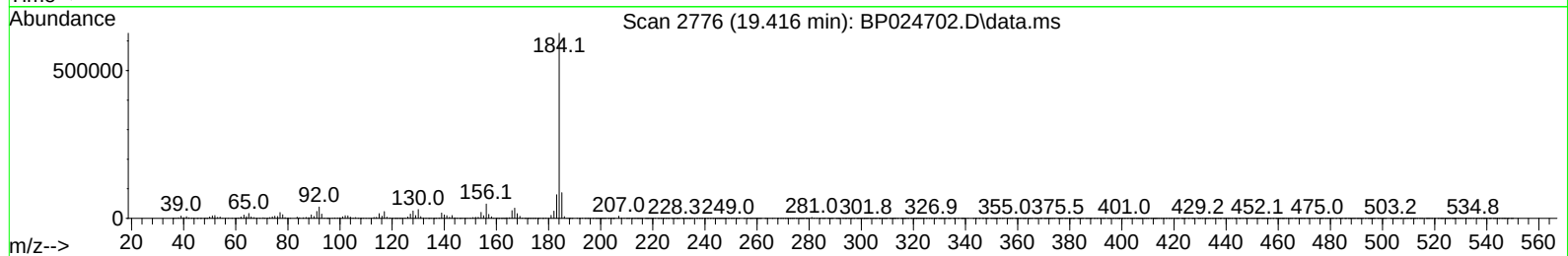
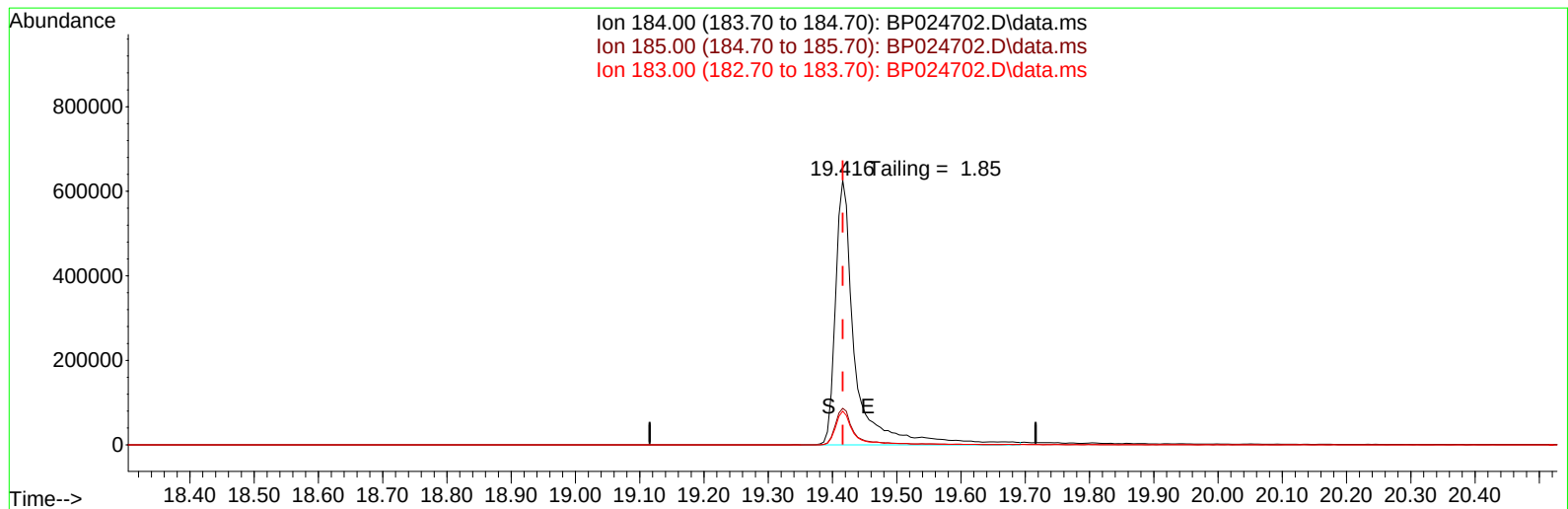
response 448686

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	65.30	63.67
264.00	63.90	62.85
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024702.D
Acq On : 20 May 2025 10:31
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: May 20 12:58:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



TIC: BP024702.D\data.ms

(77) Benzidine

19.416min (-0.000) 89911.52 ng

response 1248901

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.00	13.86
183.00	12.30	12.78
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
5/20/2025	BNA_P	<u>BP024702.D</u>
Compound Name	Response	Retention Time
DDT	589251	20.698
DDD	22194	20.239
DDE	3176	19.71
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
25370	614621	4.13

Instrument :
BNA_P
ClientSampleId :
DFTPP

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168041BL	SDG No.:	Q2032
Lab Sample ID:	PB168041BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024688.D	1	05/16/25 10:00	05/19/25 14:09	PB168041

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168041BL	SDG No.:	Q2032
Lab Sample ID:	PB168041BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024688.D	1	05/16/25 10:00	05/19/25 14:09	PB168041

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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168041BL	SDG No.:	Q2032
Lab Sample ID:	PB168041BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024688.D	1	05/16/25 10:00	05/19/25 14:09	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	22.4	U	22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	29.5	U	29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	29.1	U	29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	27.4	U	27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	25.7	U	25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	25.6	U	25.6	170	ug/Kg
123-91-1	1,4-Dioxane	45.2	U	45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	27.4	U	27.4	170	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	137		18 - 112	92%	SPK: 150
13127-88-3	Phenol-d6	126		15 - 107	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	78.6		18 - 107	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	81.1		20 - 109	81%	SPK: 100
118-79-6	2,4,6-Tribromophenol	131		10 - 116	87%	SPK: 150
1718-51-0	Terphenyl-d14	83.8		10 - 105	84%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	146000	7.658
1146-65-2	Naphthalene-d8	547000	10.428
15067-26-2	Acenaphthene-d10	319000	14.293
1517-22-2	Phenanthrene-d10	592000	17.087
1719-03-5	Chrysene-d12	590000	21.522
1520-96-3	Perylene-d12	765000	24.804

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	240	A	4.83	ug/Kg



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

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168041BL	SDG No.:	Q2032
Lab Sample ID:	PB168041BL	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024688.D	1	05/16/25 10:00	05/19/25 14:09	PB168041

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
Data File : BP024688.D
Acq On : 19 May 2025 14:09
Operator : RC/JU
Sample : PB168041BL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168041BL

Quant Time: May 19 15:01:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.658	152	146055	20.000	ng	0.00
21) Naphthalene-d8	10.428	136	546676	20.000	ng	0.00
39) Acenaphthene-d10	14.293	164	318784	20.000	ng	-0.01
64) Phenanthrene-d10	17.087	188	591988	20.000	ng	-0.01
76) Chrysene-d12	21.522	240	589770	20.000	ng	0.00
86) Perylene-d12	24.804	264	764959	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.293	112	1172075	137.255	ng	0.00
7) Phenol-d6	6.864	99	1377861	126.426	ng	0.01
23) Nitrobenzene-d5	8.811	82	850821	78.637	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	708012	131.009	ng	0.00
45) 2-Fluorobiphenyl	12.904	172	1973403	81.102	ng	0.00
79) Terphenyl-d14	19.816	244	2881122	83.766	ng	0.00

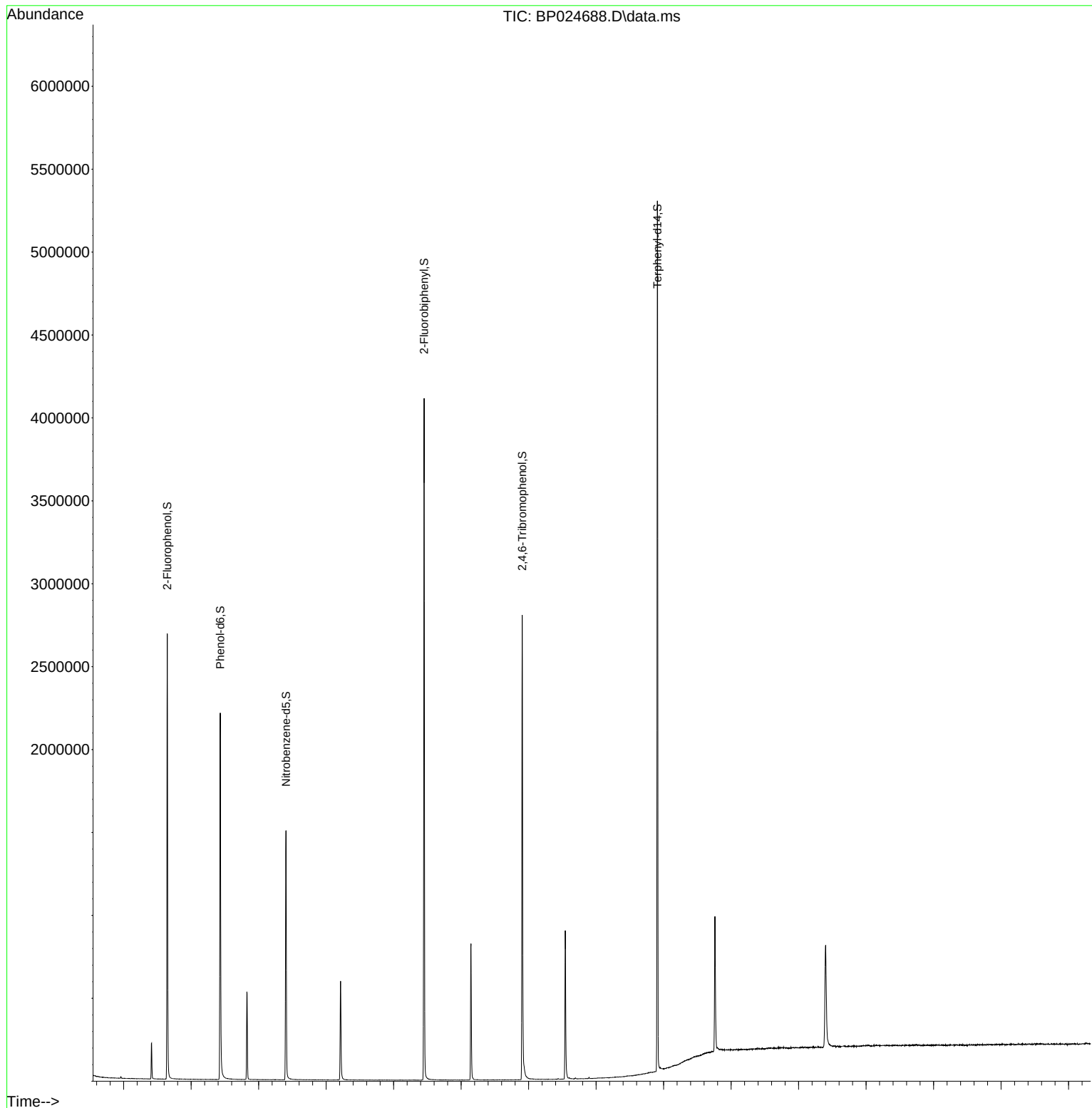
Target Compounds Qvalue

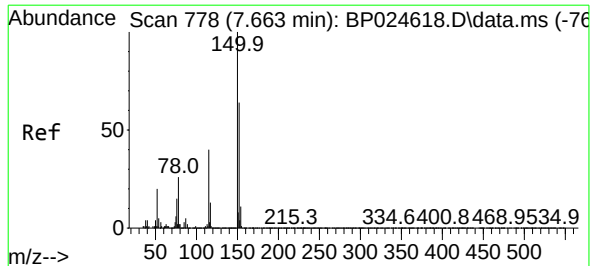
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
Data File : BP024688.D
Acq On : 19 May 2025 14:09
Operator : RC/JU
Sample : PB168041BL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168041BL

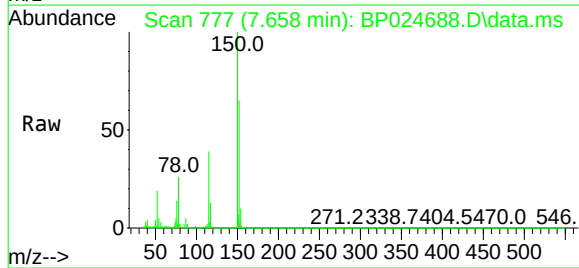
Quant Time: May 19 15:01:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



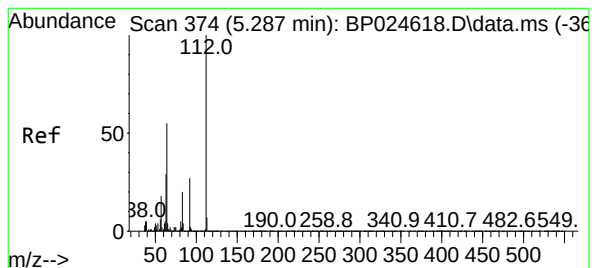
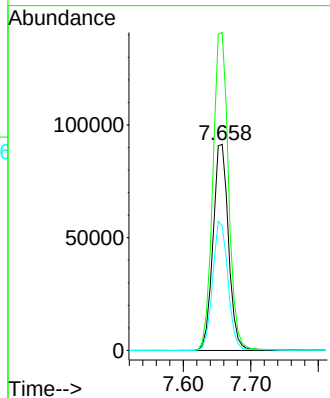
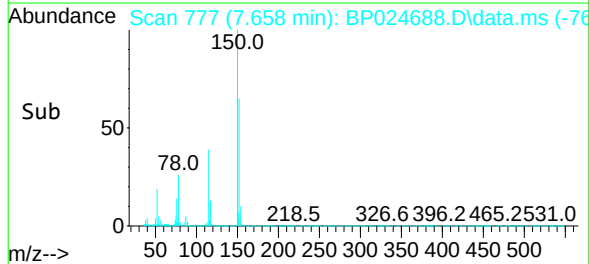


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.658 min Scan# 778
Delta R.T. -0.005 min
Lab File: BP024688.D
Acq: 19 May 2025 14:09

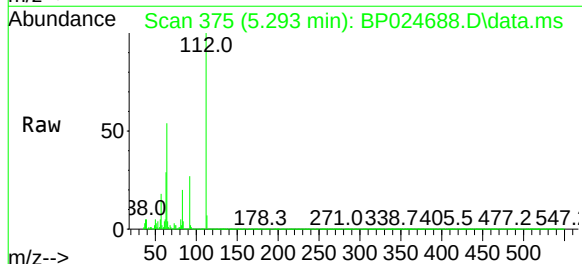
Instrument :
BNA_P
ClientSampleId :
PB168041BL



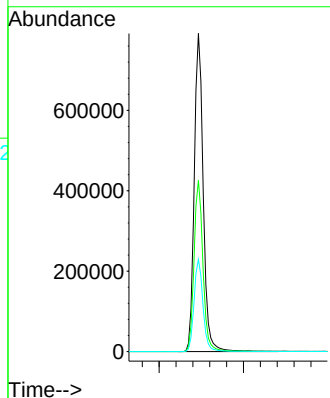
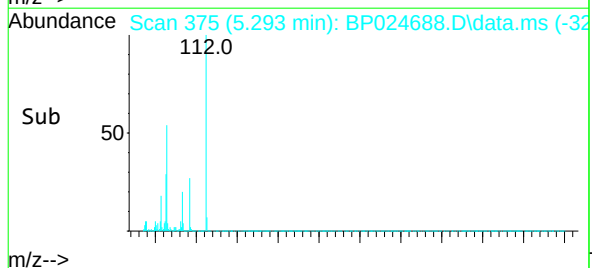
Tgt Ion:152 Resp: 146055
Ion Ratio Lower Upper
152 100
150 154.3 125.9 188.9
115 60.4 50.1 75.1

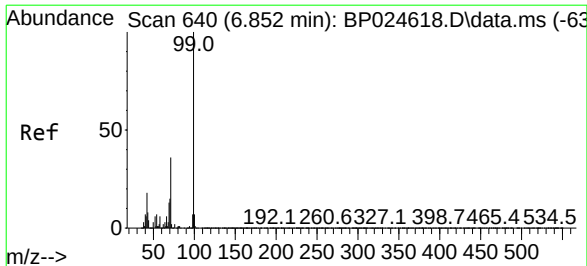


#5
2-Fluorophenol
Concen: 137.255 ng
RT: 5.293 min Scan# 375
Delta R.T. 0.006 min
Lab File: BP024688.D
Acq: 19 May 2025 14:09



Tgt Ion:112 Resp: 1172075
Ion Ratio Lower Upper
112 100
64 53.9 44.1 66.1
63 29.0 23.5 35.3





#7

Phenol-d6

Concen: 126.426 ng

RT: 6.864 min Scan# 64

Delta R.T. 0.012 min

Lab File: BP024688.D

Acq: 19 May 2025 14:09

Instrument :

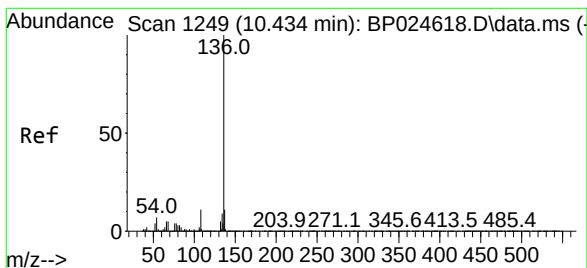
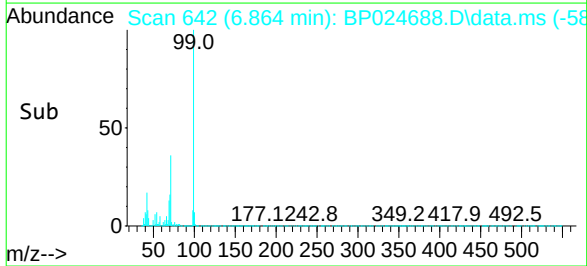
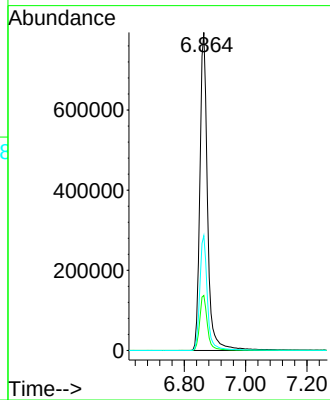
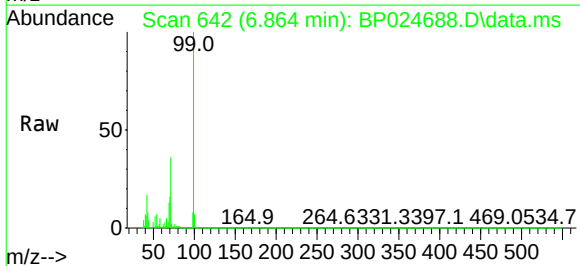
BNA_P

ClientSampleId :

PB168041BL

Tgt Ion: 99 Resp: 1377861

Ion	Ratio	Lower	Upper
99	100		
42	17.3	14.4	21.6
71	36.1	29.2	43.8



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.428 min Scan# 1248

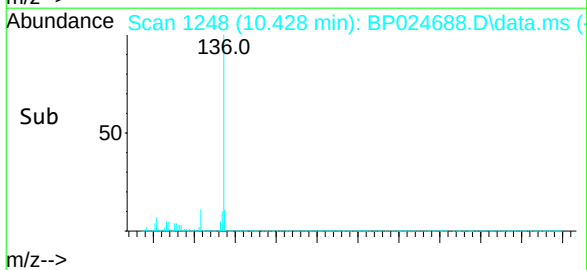
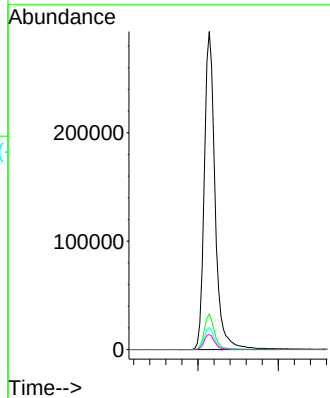
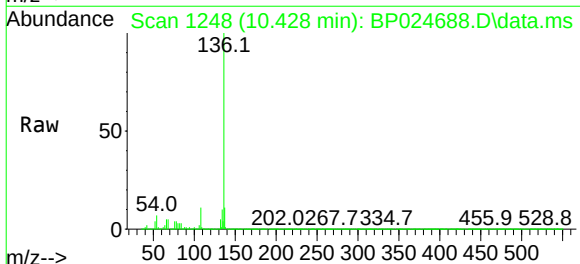
Delta R.T. -0.006 min

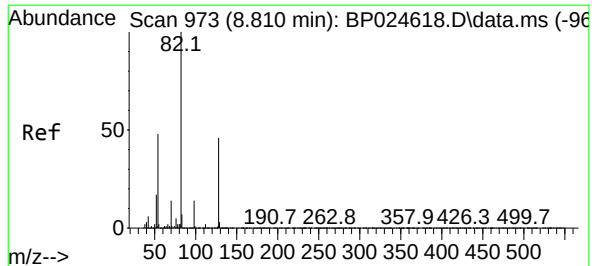
Lab File: BP024688.D

Acq: 19 May 2025 14:09

Tgt Ion: 136 Resp: 546676

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.8	13.2
54	6.9	5.5	8.3
68	4.7	4.2	6.2





#23

Nitrobenzene-d5

Concen: 78.637 ng

RT: 8.811 min Scan# 97

Delta R.T. 0.000 min

Lab File: BP024688.D

Acq: 19 May 2025 14:09

Instrument :

BNA_P

ClientSampleId :

PB168041BL

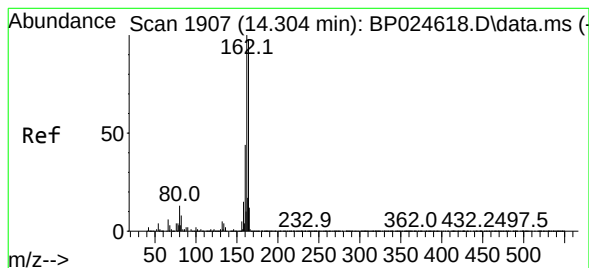
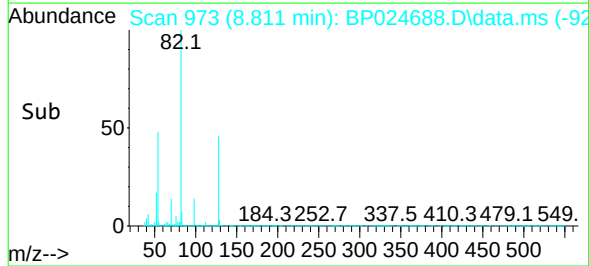
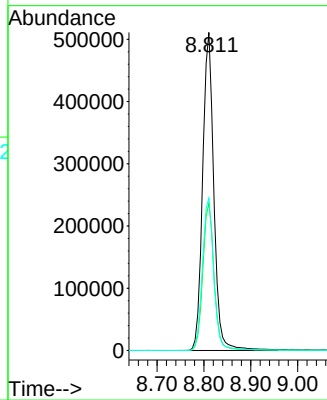
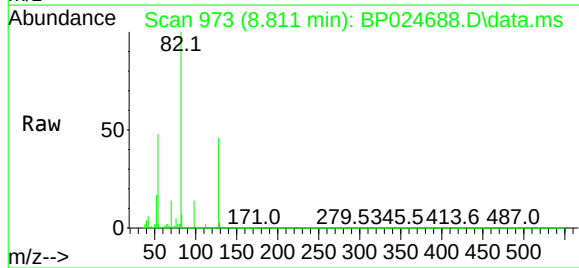
Tgt Ion: 82 Resp: 850821

Ion Ratio Lower Upper

82 100

128 46.2 37.0 55.4

54 47.9 38.7 58.1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.293 min Scan# 1905

Delta R.T. -0.012 min

Lab File: BP024688.D

Acq: 19 May 2025 14:09

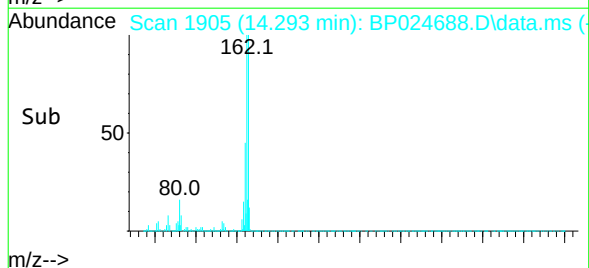
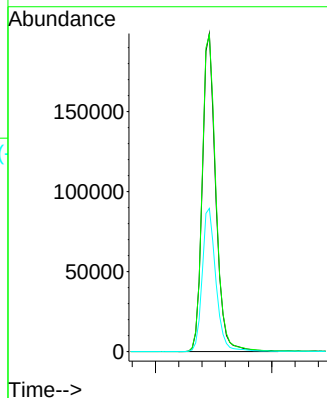
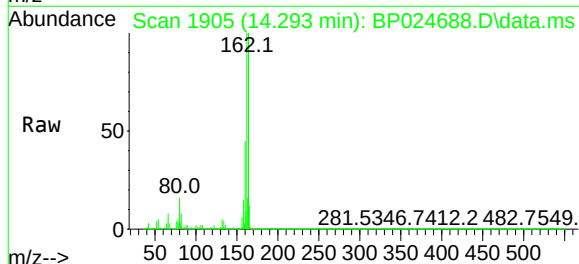
Tgt Ion: 164 Resp: 318784

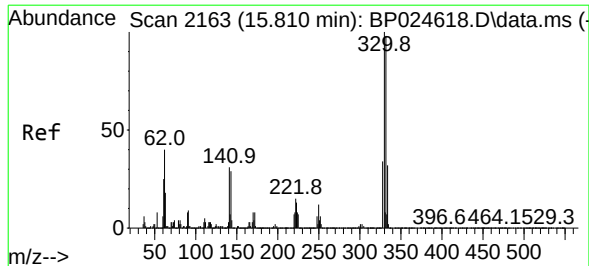
Ion Ratio Lower Upper

164 100

162 99.6 81.8 122.6

160 45.0 36.3 54.5





#42

2,4,6-Tribromophenol

Concen: 131.009 ng

RT: 15.810 min Scan# 2163

Delta R.T. 0.000 min

Lab File: BP024688.D

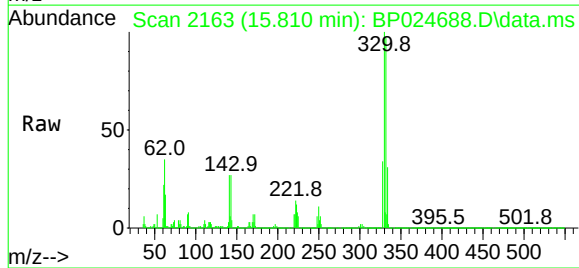
Acq: 19 May 2025 14:09

Instrument :

BNA_P

ClientSampleId :

PB168041BL



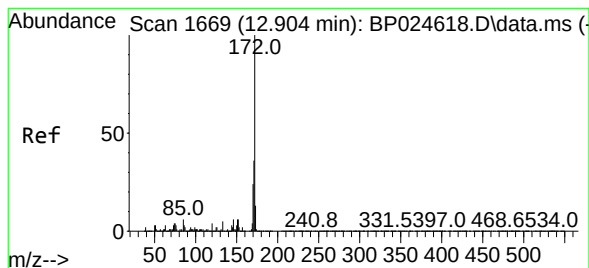
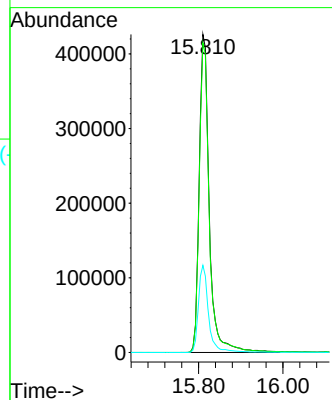
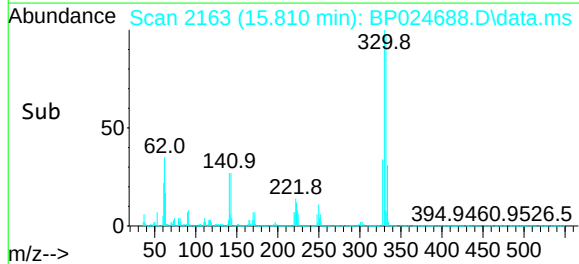
Tgt Ion:330 Resp: 708012

Ion Ratio Lower Upper

330 100

332 97.5 78.2 117.4

141 27.3 24.3 36.5



#45

2-Fluorobiphenyl

Concen: 81.102 ng

RT: 12.904 min Scan# 1669

Delta R.T. 0.000 min

Lab File: BP024688.D

Acq: 19 May 2025 14:09

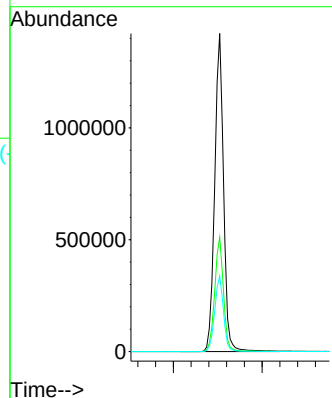
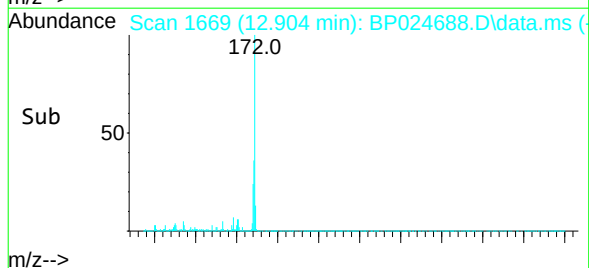
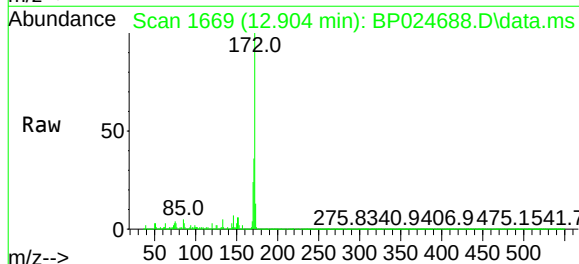
Tgt Ion:172 Resp: 1973403

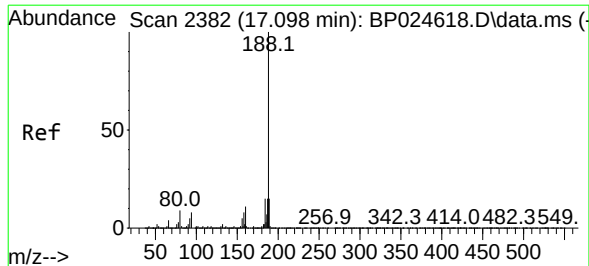
Ion Ratio Lower Upper

172 100

171 36.0 28.8 43.2

170 23.7 18.8 28.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.087 min Scan# 2382

Delta R.T. -0.012 min

Lab File: BP024688.D

Acq: 19 May 2025 14:09

Instrument :

BNA_P

ClientSampleId :

PB168041BL

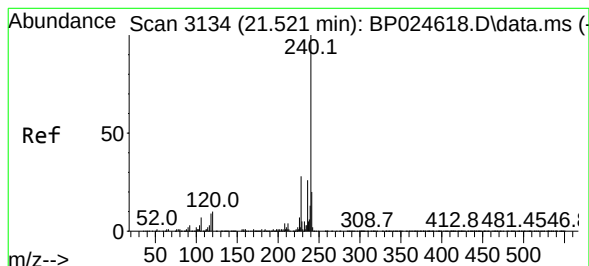
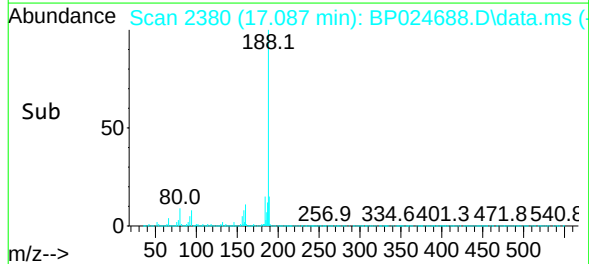
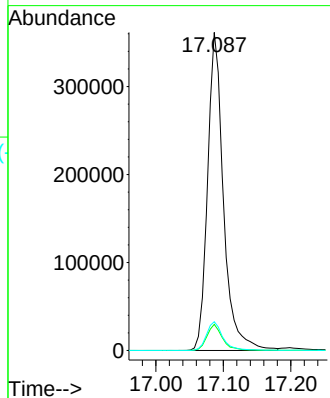
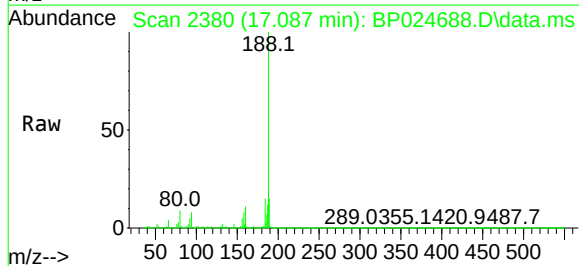
Tgt Ion:188 Resp: 591988

Ion Ratio Lower Upper

188 100

94 8.2 6.5 9.7

80 9.0 7.3 10.9



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.522 min Scan# 3134

Delta R.T. 0.000 min

Lab File: BP024688.D

Acq: 19 May 2025 14:09

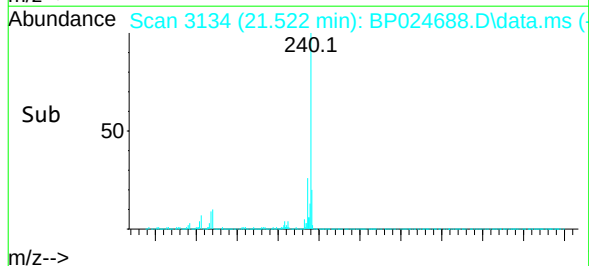
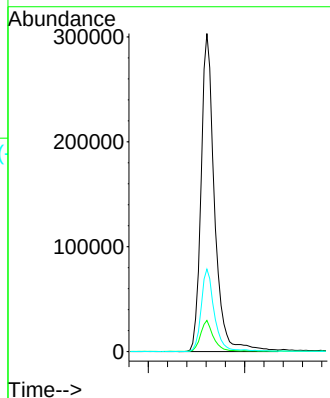
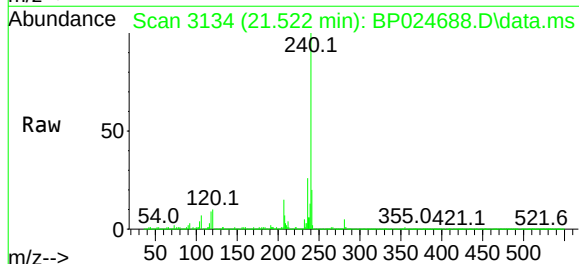
Tgt Ion:240 Resp: 589770

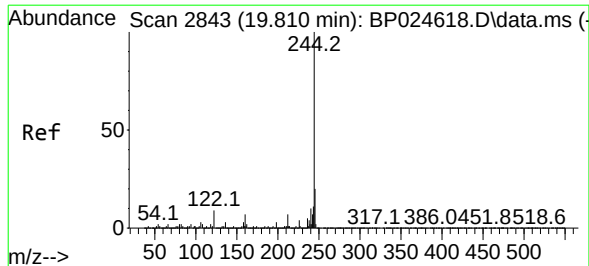
Ion Ratio Lower Upper

240 100

120 9.8 7.8 11.6

236 25.9 20.6 31.0





#79

Terphenyl-d14

Concen: 83.766 ng

RT: 19.816 min Scan# 28

Delta R.T. 0.006 min

Lab File: BP024688.D

Acq: 19 May 2025 14:09

Instrument :

BNA_P

ClientSampleId :

PB168041BL

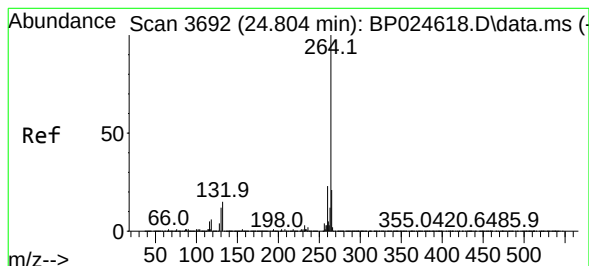
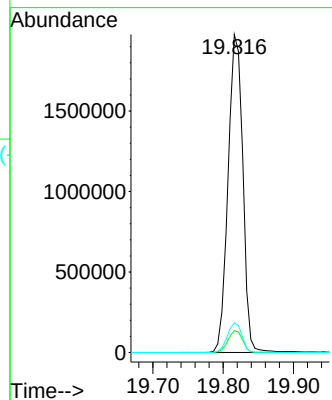
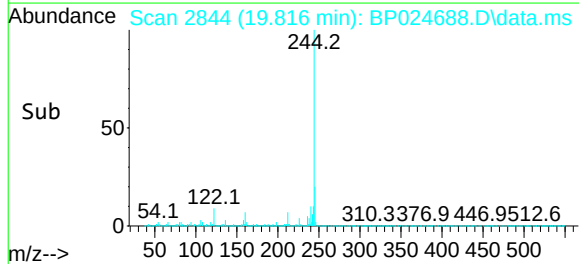
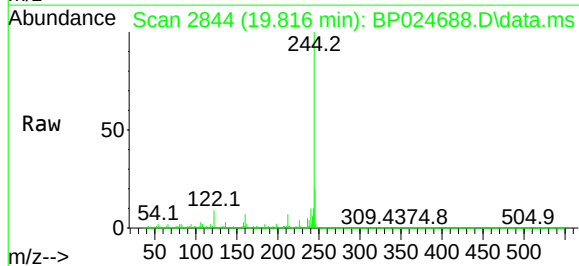
Tgt Ion:244 Resp: 2881122

Ion Ratio Lower Upper

244 100

212 6.9 5.5 8.3

122 9.3 7.4 11.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.804 min Scan# 3692

Delta R.T. 0.000 min

Lab File: BP024688.D

Acq: 19 May 2025 14:09

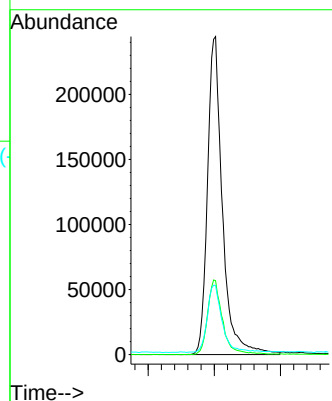
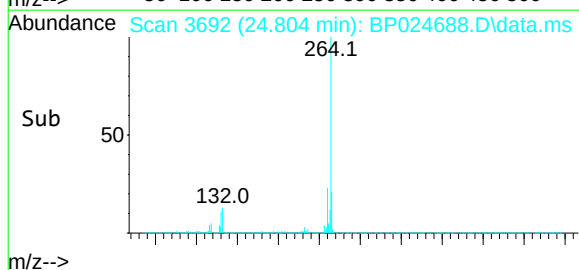
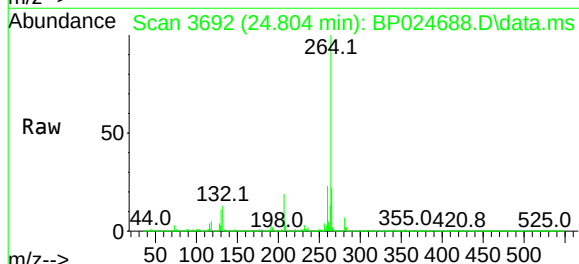
Tgt Ion:264 Resp: 764959

Ion Ratio Lower Upper

264 100

260 23.2 18.7 28.1

265 21.7 17.0 25.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
 Data File : BP024688.D
 Acq On : 19 May 2025 14:09
 Operator : RC/JU
 Sample : PB168041BL
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 PB168041BL

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0
 Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

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

Signal : TIC: BP024688.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.828	291	296	305	rBV	215619	306192	3.99%	0.831%
2	5.293	369	375	395	rBV	2684744	3940102	51.32%	10.693%
3	6.864	635	642	677	rBV	2209513	3860902	50.29%	10.478%
4	7.652	770	776	790	rBV	528909	843146	10.98%	2.288%
5	8.811	964	973	996	rBV	1503130	2526591	32.91%	6.857%
6	10.428	1237	1248	1268	rBV	596387	1099155	14.32%	2.983%
7	12.904	1661	1669	1692	rBV	4110960	5778206	75.26%	15.681%
8	14.293	1898	1905	1922	rBV	821132	1360145	17.72%	3.691%
9	15.810	2156	2163	2184	rBV	2802084	4636859	60.39%	12.584%
10	17.087	2373	2380	2396	rBV2	895217	1489735	19.40%	4.043%
11	19.816	2838	2844	2855	rBV	5247318	7677639	100.00%	20.836%
12	21.522	3128	3134	3144	rBV2	811602	1527248	19.89%	4.145%
13	24.804	3683	3692	3713	rVB	602622	1801407	23.46%	4.889%

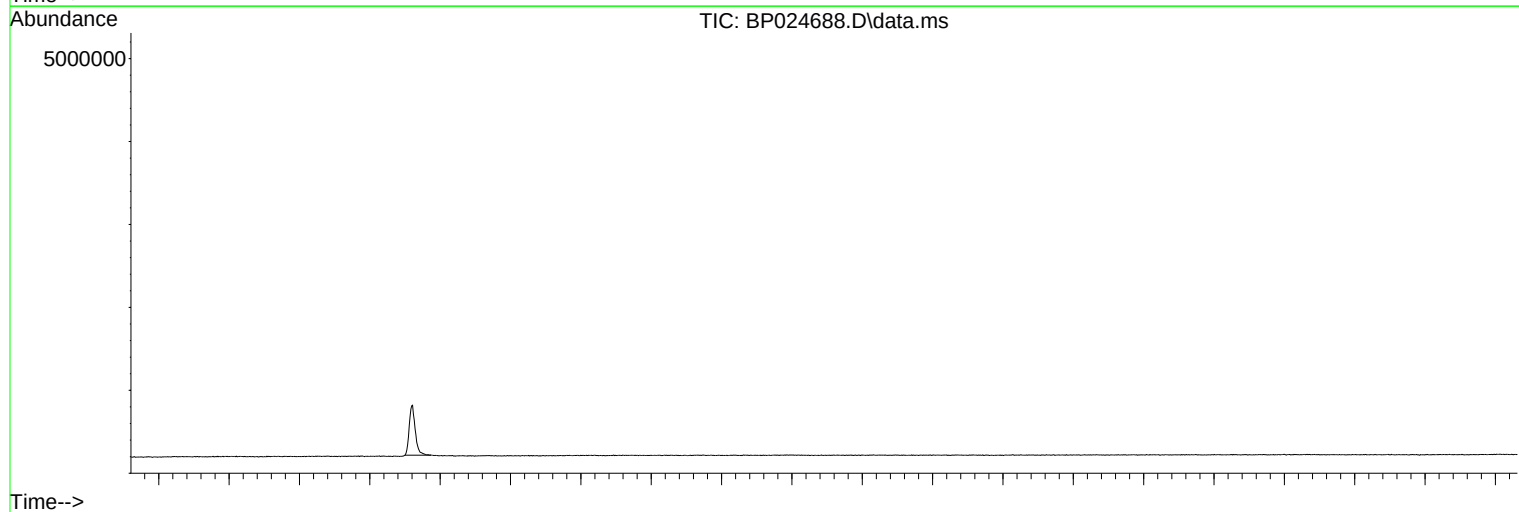
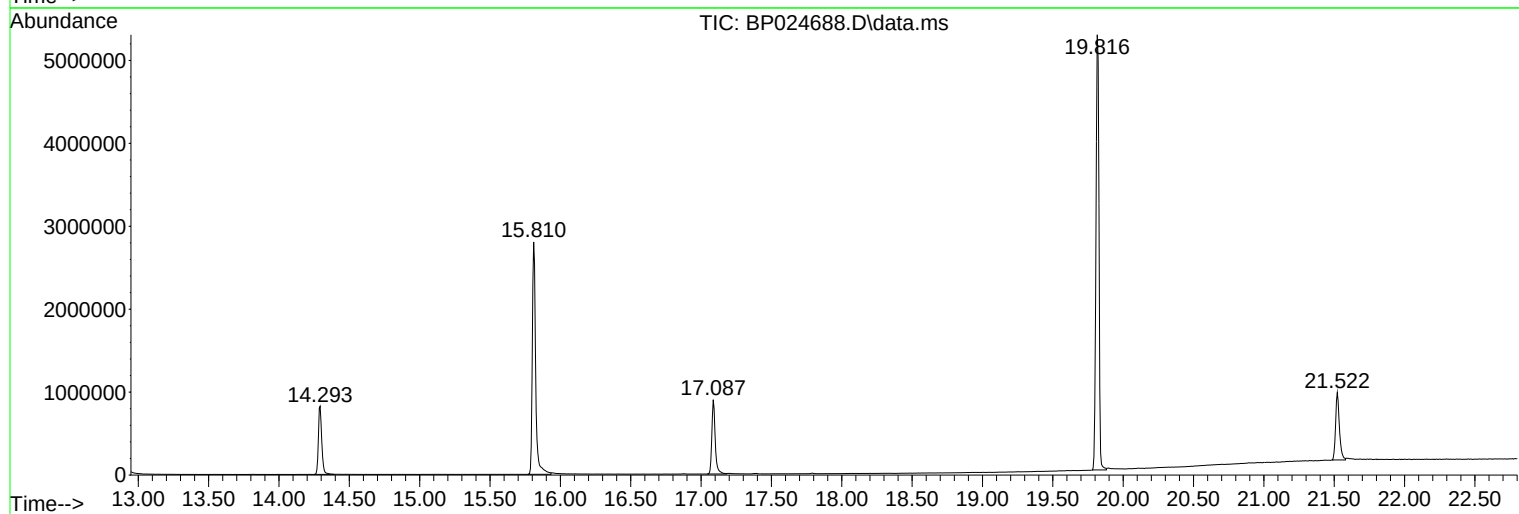
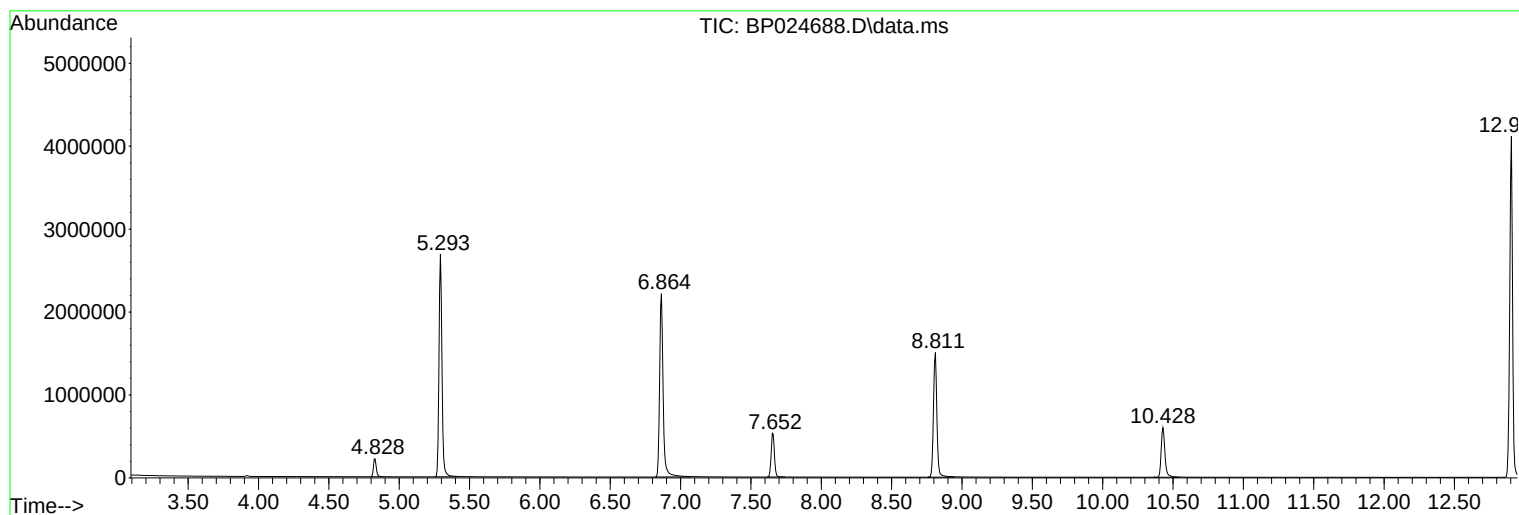
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Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
Data File : BP024688.D
Acq On : 19 May 2025 14:09
Operator : RC/JU
Sample : PB168041BL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168041BL

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

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
Data File : BP024688.D
Acq On : 19 May 2025 14:09
Operator : RC/JU
Sample : PB168041BL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168041BL

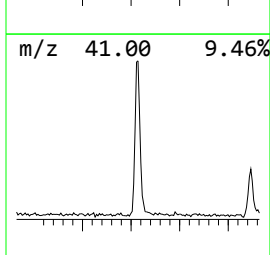
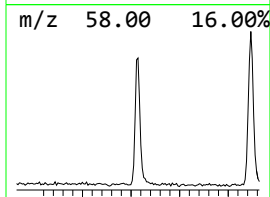
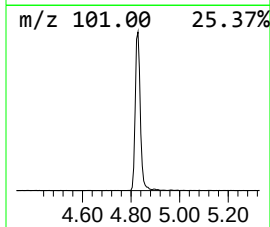
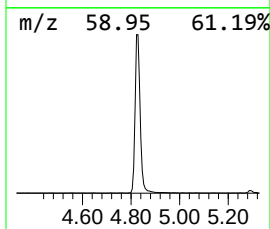
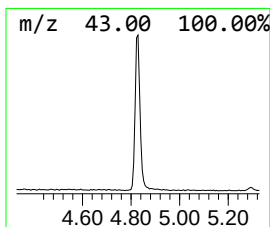
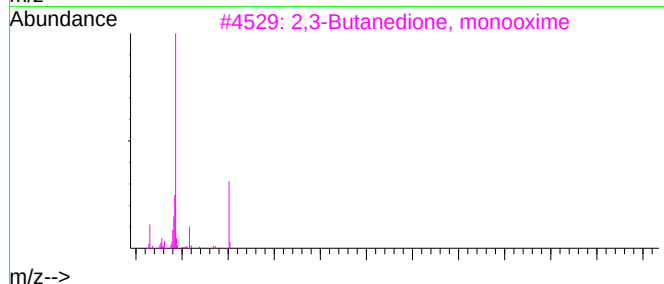
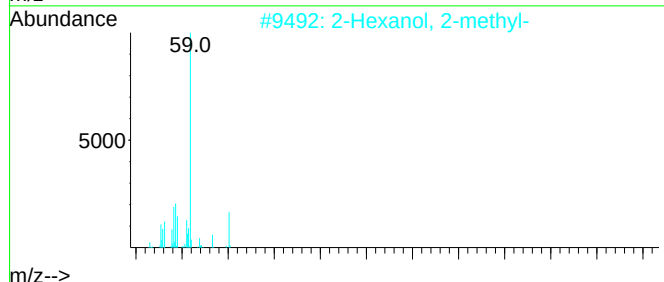
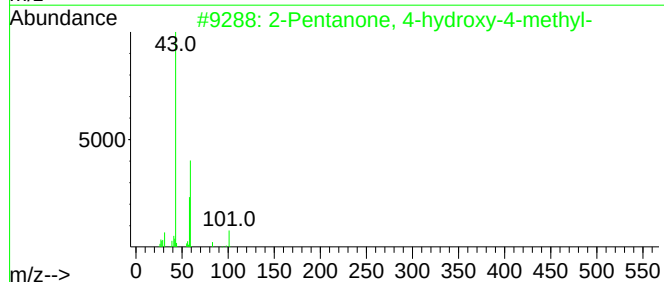
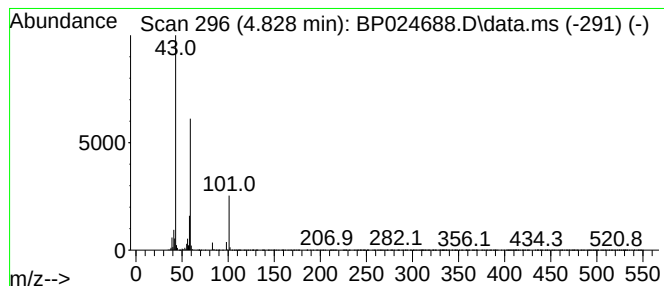
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.828	7.26 ng	306192	1,4-Dichlorobenzene-d4	7.658

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	17
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17
5	Acetone	58	C3H6O	000067-64-1	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
Data File : BP024688.D
Acq On : 19 May 2025 14:09
Operator : RC/JU
Sample : PB168041BL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168041BL

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

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	4.828	7.3	ng	306192	1	7.658	843146	20.0

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168048BL	SDG No.:	Q2032
Lab Sample ID:	PB168048BL	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024706.D	1	05/19/25 08:42	05/20/25 13:55	PB168048

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	U	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	U	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	U	0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	0.61	U	0.61	5.00	ug/L

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168048BL	SDG No.:	Q2032
Lab Sample ID:	PB168048BL	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024706.D	1	05/19/25 08:42	05/20/25 13:55	PB168048

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	U	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	U	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	U	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	1.90	U	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168048BL	SDG No.:	Q2032
Lab Sample ID:	PB168048BL	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024706.D	1	05/19/25 08:42	05/20/25 13:55	PB168048

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	133		10 - 139	88%	SPK: 150
13127-88-3	Phenol-d6	122		10 - 134	81%	SPK: 150
4165-60-0	Nitrobenzene-d5	76.1		49 - 133	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	76.8		52 - 132	77%	SPK: 100
118-79-6	2,4,6-Tribromophenol	145		44 - 137	97%	SPK: 150
1718-51-0	Terphenyl-d14	90.1		48 - 125	90%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	134000		7.658		
1146-65-2	Naphthalene-d8	501000		10.428		
15067-26-2	Acenaphthene-d10	301000		14.287		
1517-22-2	Phenanthrene-d10	642000		17.092		
1719-03-5	Chrysene-d12	692000		21.522		
1520-96-3	Perylene-d12	757000		24.821		
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	6.90	A		4.82	ug/L

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168048BL	SDG No.:	Q2032
Lab Sample ID:	PB168048BL	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024706.D	1	05/19/25 08:42	05/20/25 13:55	PB168048

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024706.D
Acq On : 20 May 2025 13:55
Operator : RC/JU
Sample : PB168048BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168048BL

Quant Time: May 20 14:28:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.658	152	134412	20.000	ng	0.00
21) Naphthalene-d8	10.428	136	500749	20.000	ng	0.00
39) Acenaphthene-d10	14.287	164	300658	20.000	ng	-0.02
64) Phenanthrene-d10	17.092	188	642481	20.000	ng	0.00
76) Chrysene-d12	21.522	240	691700	20.000	ng	0.00
86) Perylene-d12	24.821	264	756782	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.293	112	1042522	132.659	ng	0.00
7) Phenol-d6	6.863	99	1220255	121.663	ng	0.01
23) Nitrobenzene-d5	8.805	82	754094	76.089	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	739588	145.102	ng	0.00
45) 2-Fluorobiphenyl	12.898	172	1762567	76.804	ng	0.00
79) Terphenyl-d14	19.822	244	3635117	90.113	ng	0.01

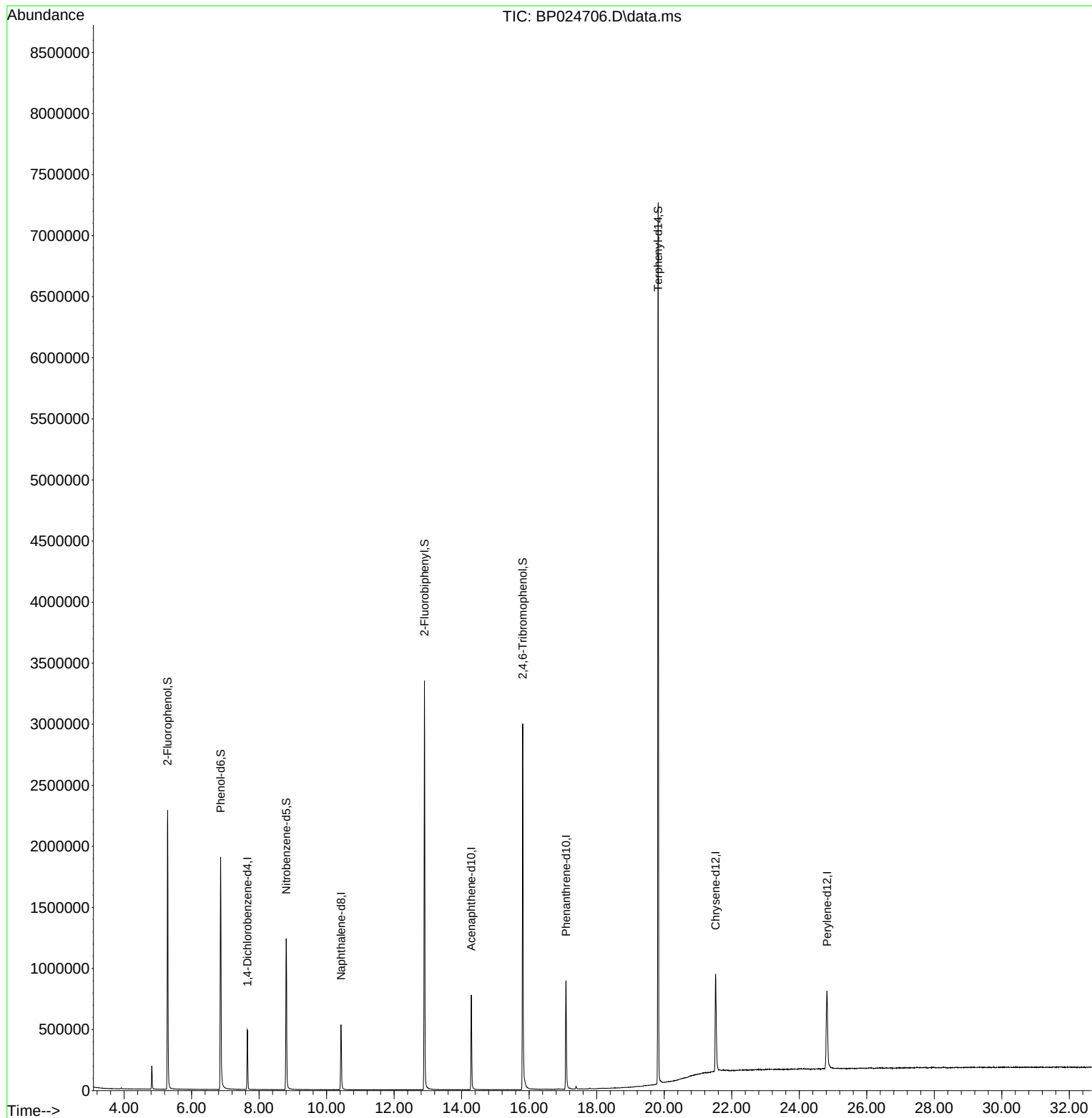
Target Compounds	Qvalue

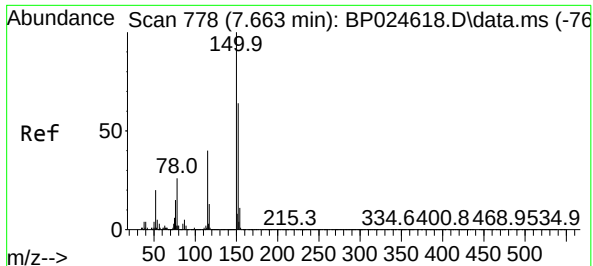
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024706.D
Acq On : 20 May 2025 13:55
Operator : RC/JU
Sample : PB168048BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168048BL

Quant Time: May 20 14:28:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

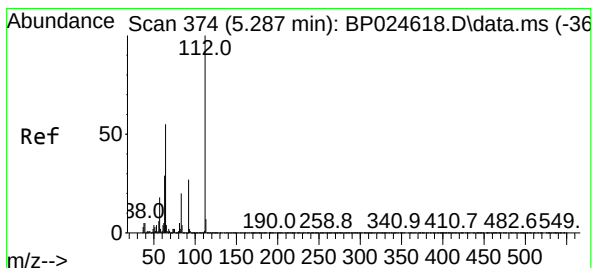
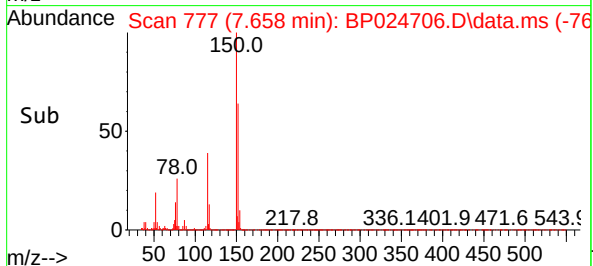
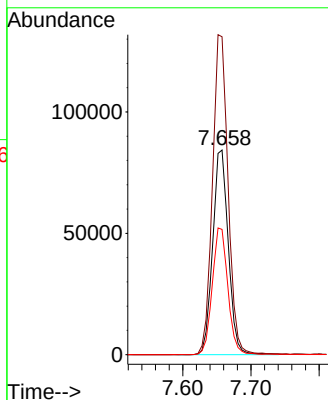
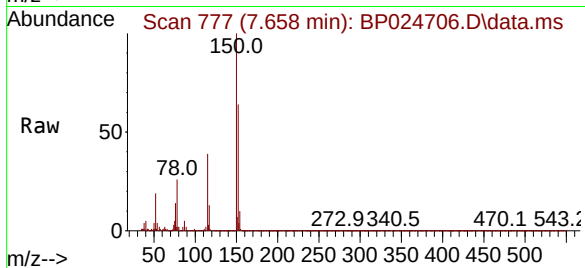




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.658 min Scan# 71
Delta R.T. -0.005 min
Lab File: BP024706.D
Acq: 20 May 2025 13:55

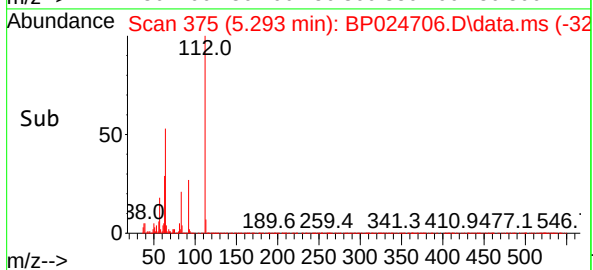
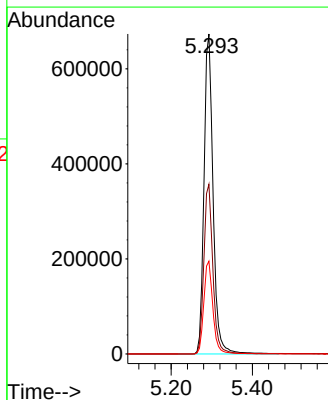
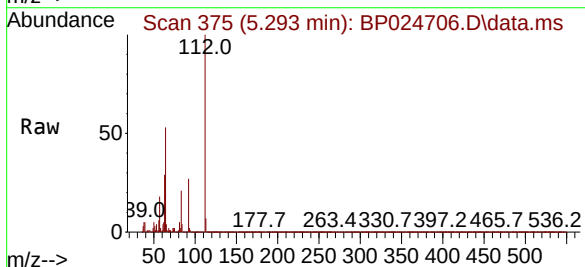
Instrument :
BNA_P
ClientSampleId :
PB168048BL

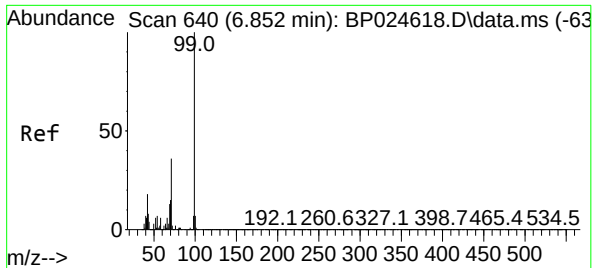
Tgt Ion:152 Resp: 134412
Ion Ratio Lower Upper
152 100
150 155.4 125.9 188.9
115 61.2 50.1 75.1



#5
2-Fluorophenol
Concen: 132.659 ng
RT: 5.293 min Scan# 375
Delta R.T. 0.006 min
Lab File: BP024706.D
Acq: 20 May 2025 13:55

Tgt Ion:112 Resp: 1042522
Ion Ratio Lower Upper
112 100
64 53.0 44.1 66.1
63 29.0 23.5 35.3





#7

Phenol-d6

Concen: 121.663 ng

RT: 6.863 min Scan# 640

Delta R.T. 0.012 min

Lab File: BP024706.D

Acq: 20 May 2025 13:55

Instrument :

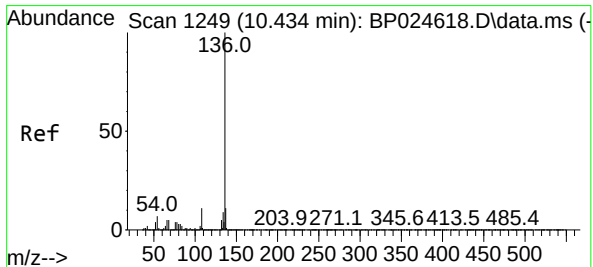
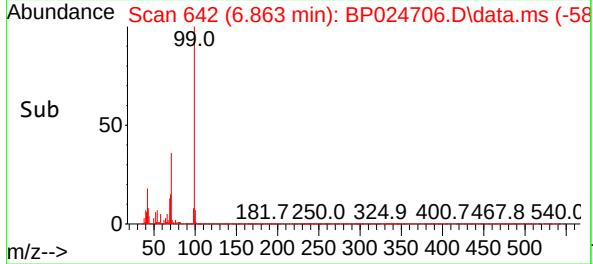
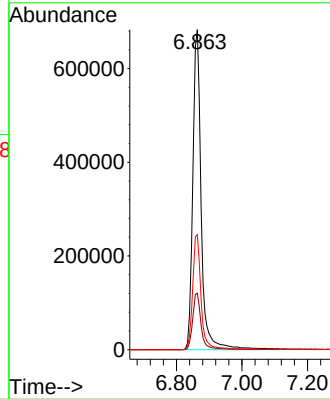
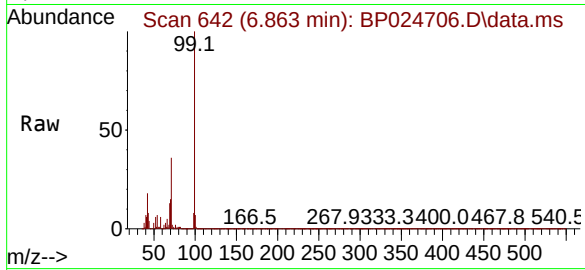
BNA_P

ClientSampleId :

PB168048BL

Tgt Ion: 99 Resp: 1220255

Ion	Ratio	Lower	Upper
99	100		
42	17.7	14.4	21.6
71	36.0	29.2	43.8



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.428 min Scan# 1248

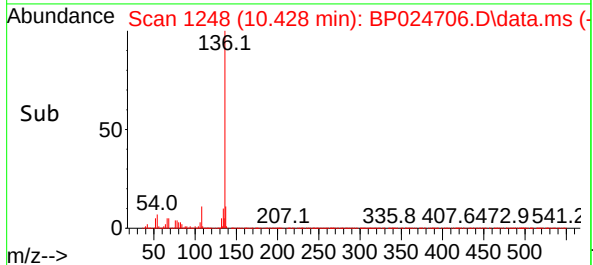
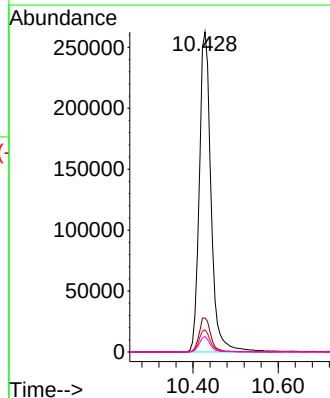
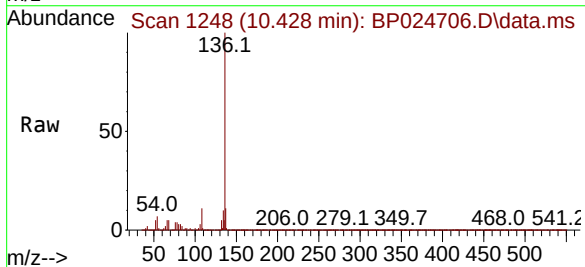
Delta R.T. -0.006 min

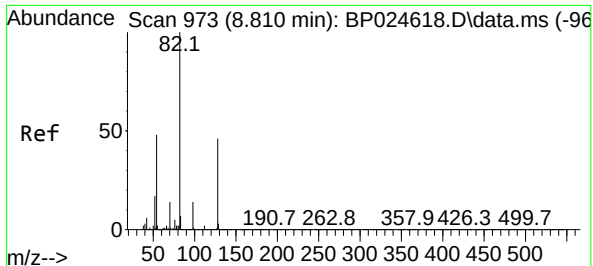
Lab File: BP024706.D

Acq: 20 May 2025 13:55

Tgt Ion: 136 Resp: 500749

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.8	13.2
54	6.9	5.5	8.3
68	4.9	4.2	6.2





#23

Nitrobenzene-d5

Concen: 76.089 ng

RT: 8.805 min Scan# 91

Delta R.T. -0.006 min

Lab File: BP024706.D

Acq: 20 May 2025 13:55

Instrument :

BNA_P

ClientSampleId :

PB168048BL

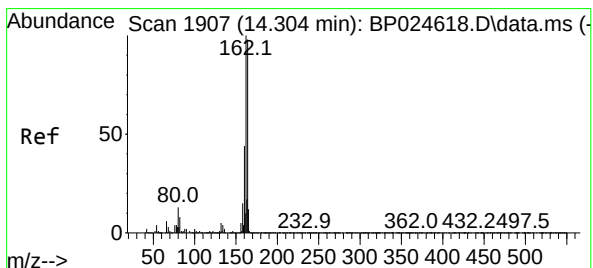
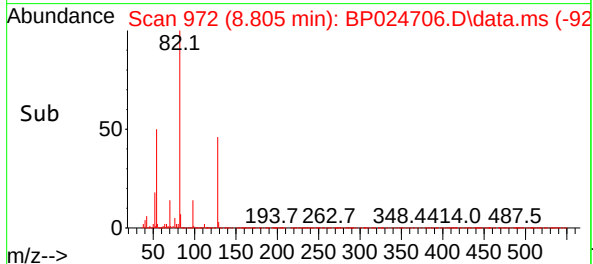
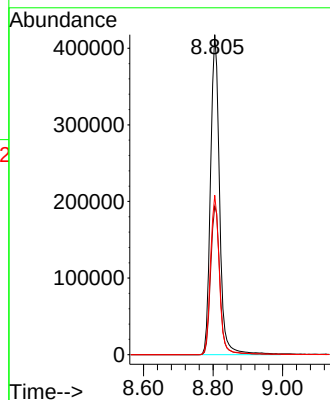
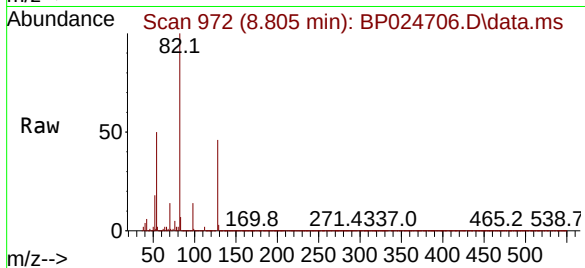
Tgt Ion: 82 Resp: 754094

Ion Ratio Lower Upper

82 100

128 46.3 37.0 55.4

54 49.8 38.7 58.1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.287 min Scan# 1904

Delta R.T. -0.018 min

Lab File: BP024706.D

Acq: 20 May 2025 13:55

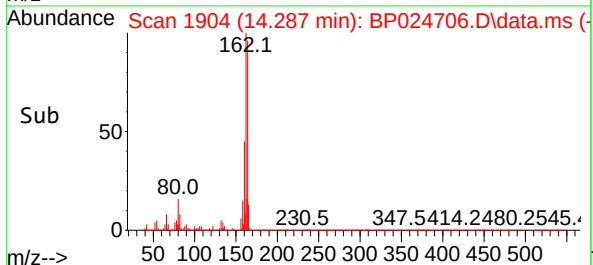
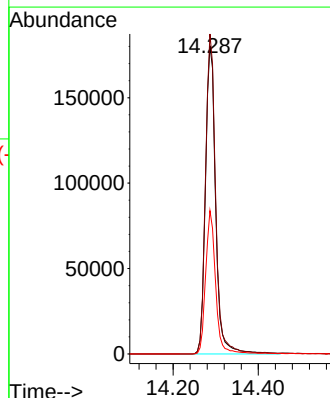
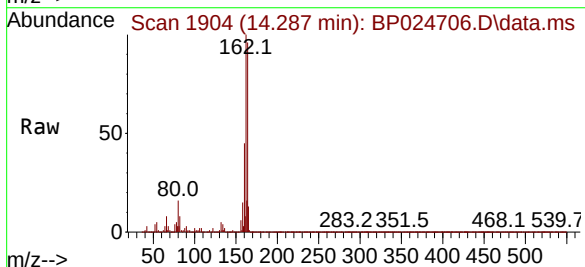
Tgt Ion: 164 Resp: 300658

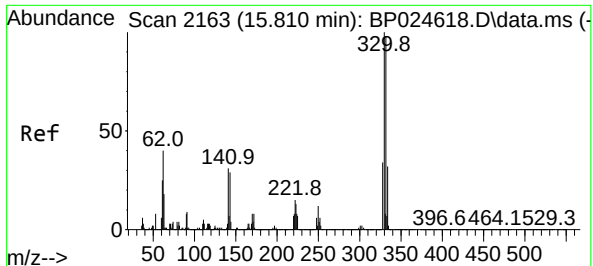
Ion Ratio Lower Upper

164 100

162 103.8 81.8 122.6

160 46.5 36.3 54.5

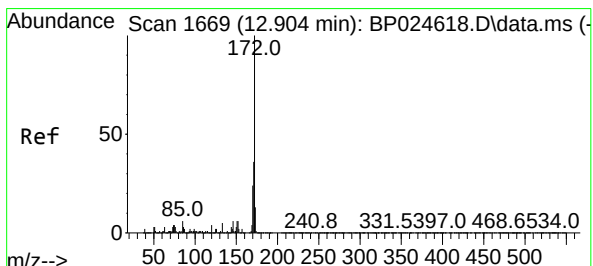
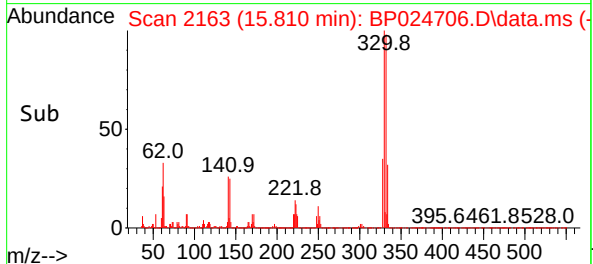
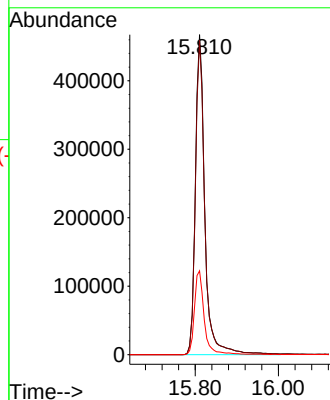
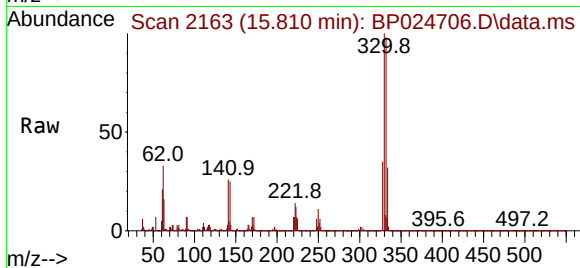




#42
2,4,6-Tribromophenol
Concen: 145.102 ng
RT: 15.810 min Scan# 2163
Delta R.T. 0.000 min
Lab File: BP024706.D
Acq: 20 May 2025 13:55

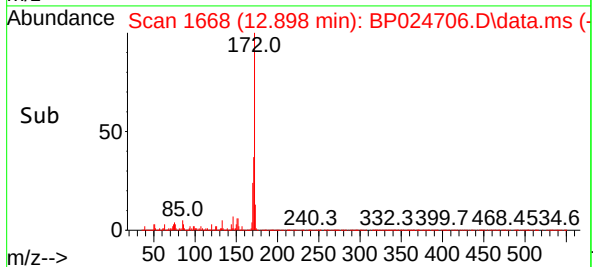
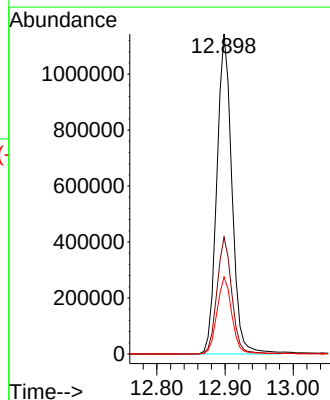
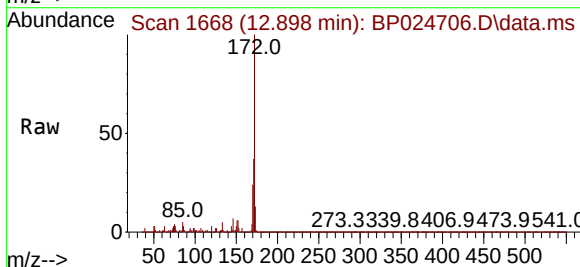
Instrument :
BNA_P
ClientSampleId :
PB168048BL

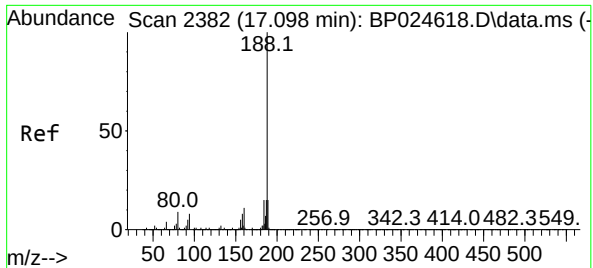
Tgt Ion:330 Resp: 739588
Ion Ratio Lower Upper
330 100
332 97.8 78.2 117.4
141 27.2 24.3 36.5



#45
2-Fluorobiphenyl
Concen: 76.804 ng
RT: 12.898 min Scan# 1668
Delta R.T. -0.006 min
Lab File: BP024706.D
Acq: 20 May 2025 13:55

Tgt Ion:172 Resp: 1762567
Ion Ratio Lower Upper
172 100
171 36.5 28.8 43.2
170 24.0 18.8 28.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.092 min Scan# 21

Delta R.T. -0.006 min

Lab File: BP024706.D

Acq: 20 May 2025 13:55

Instrument :

BNA_P

ClientSampleId :

PB168048BL

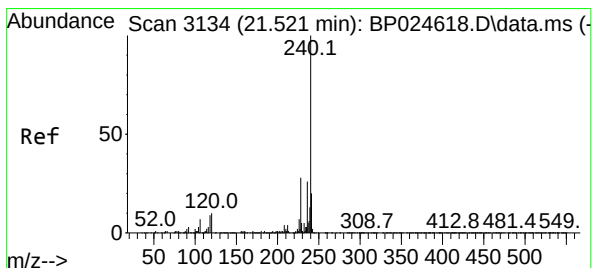
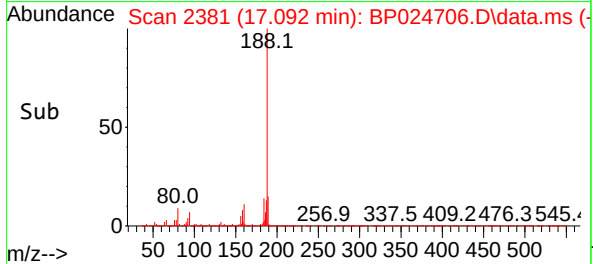
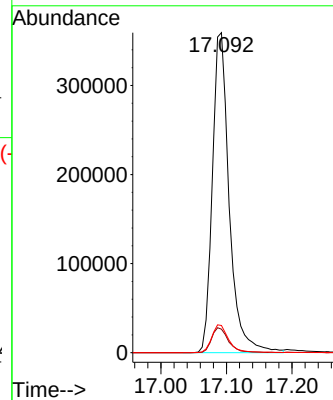
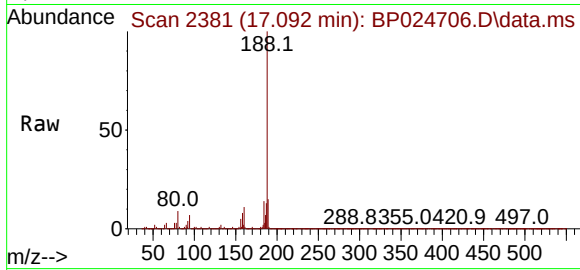
Tgt Ion:188 Resp: 642481

Ion Ratio Lower Upper

188 100

94 7.4 6.5 9.7

80 8.5 7.3 10.9



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.522 min Scan# 3134

Delta R.T. 0.000 min

Lab File: BP024706.D

Acq: 20 May 2025 13:55

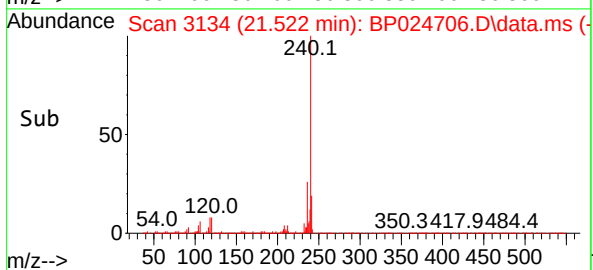
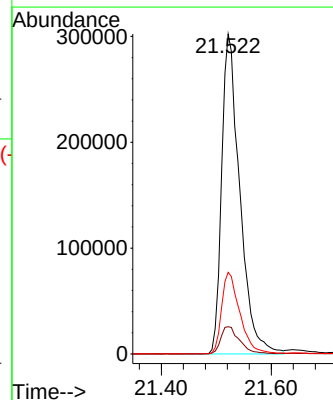
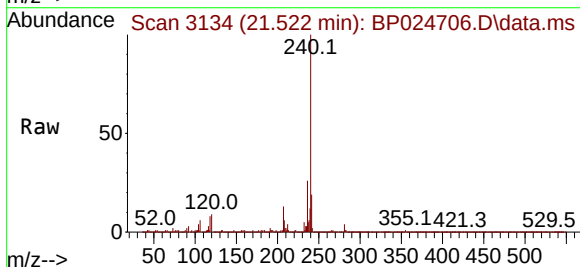
Tgt Ion:240 Resp: 691700

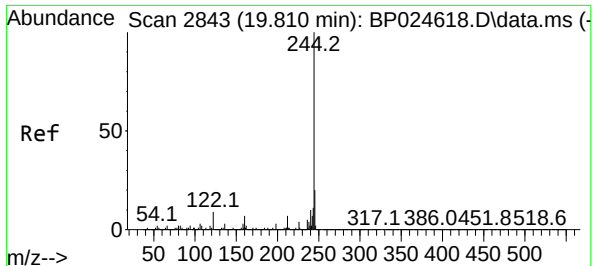
Ion Ratio Lower Upper

240 100

120 8.5 7.8 11.6

236 25.5 20.6 31.0

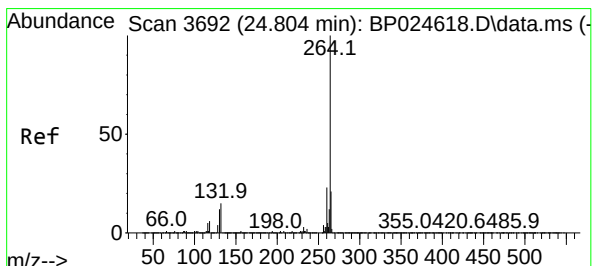
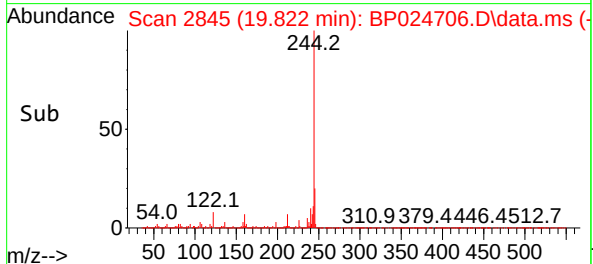
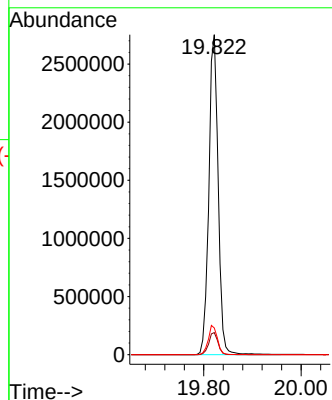
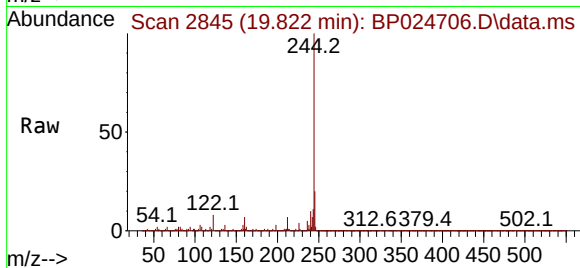




#79
 Terphenyl-d14
 Concen: 90.113 ng
 RT: 19.822 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: BP024706.D
 Acq: 20 May 2025 13:55

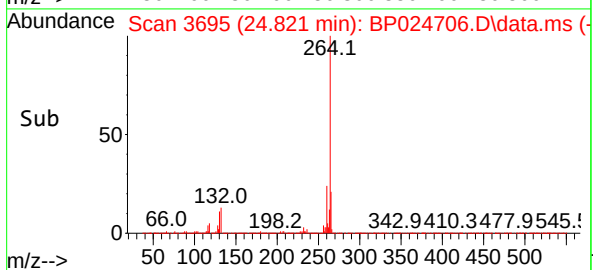
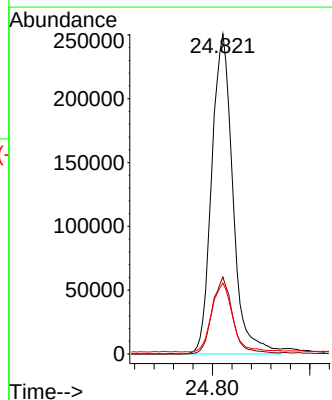
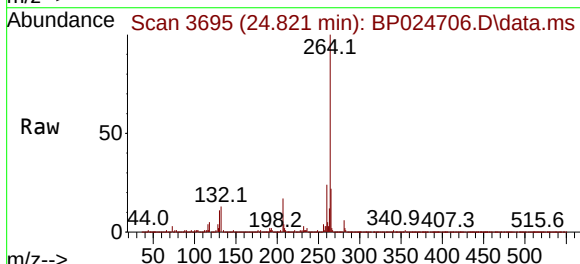
Instrument :
 BNA_P
 ClientSampleId :
 PB168048BL

Tgt Ion:244 Resp: 3635117
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.5 8.3
 122 8.4 7.4 11.0



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 24.821 min Scan# 3695
 Delta R.T. 0.018 min
 Lab File: BP024706.D
 Acq: 20 May 2025 13:55

Tgt Ion:264 Resp: 756782
 Ion Ratio Lower Upper
 264 100
 260 24.1 18.7 28.1
 265 22.2 17.0 25.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
 Data File : BP024706.D
 Acq On : 20 May 2025 13:55
 Operator : RC/JU
 Sample : PB168048BL
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 PB168048BL

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

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

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP024706.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.822	290	295	304	rBV	190498	266261	2.75%	0.711%
2	5.293	368	375	394	rBV	2283928	3532627	36.49%	9.432%
3	6.863	633	642	661	rBV	1904091	3395538	35.07%	9.066%
4	7.652	769	776	789	rBV	486824	774131	8.00%	2.067%
5	8.805	965	972	996	rBV	1237316	2252985	23.27%	6.016%
6	10.428	1240	1248	1268	rBV	532443	1008316	10.42%	2.692%
7	12.898	1660	1668	1682	rBV	3349085	5175299	53.46%	13.818%
8	14.287	1896	1904	1923	rBV	776473	1285175	13.27%	3.432%
9	15.810	2156	2163	2182	rBV	2995031	4794305	49.52%	12.801%
10	17.092	2374	2381	2396	rBV2	888871	1608008	16.61%	4.294%
11	19.822	2838	2845	2857	rBV	7214986	9681201	100.00%	25.850%
12	21.522	3128	3134	3150	rBV2	793149	1843944	19.05%	4.923%
13	24.821	3686	3695	3712	rVB	626783	1834206	18.95%	4.897%

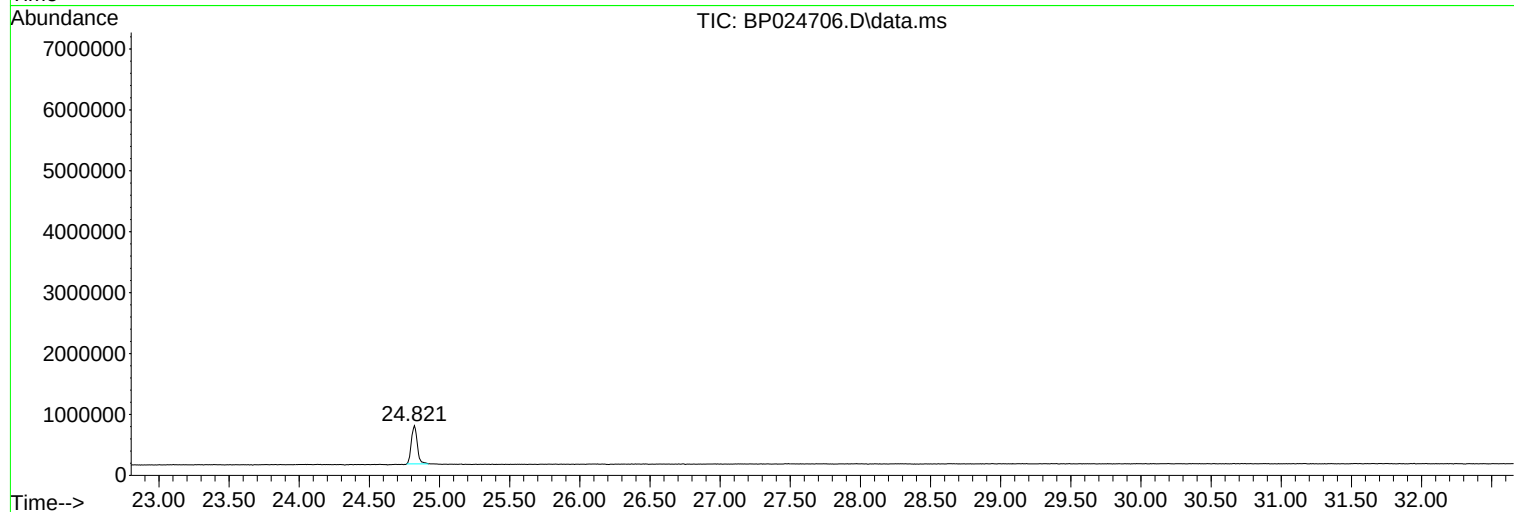
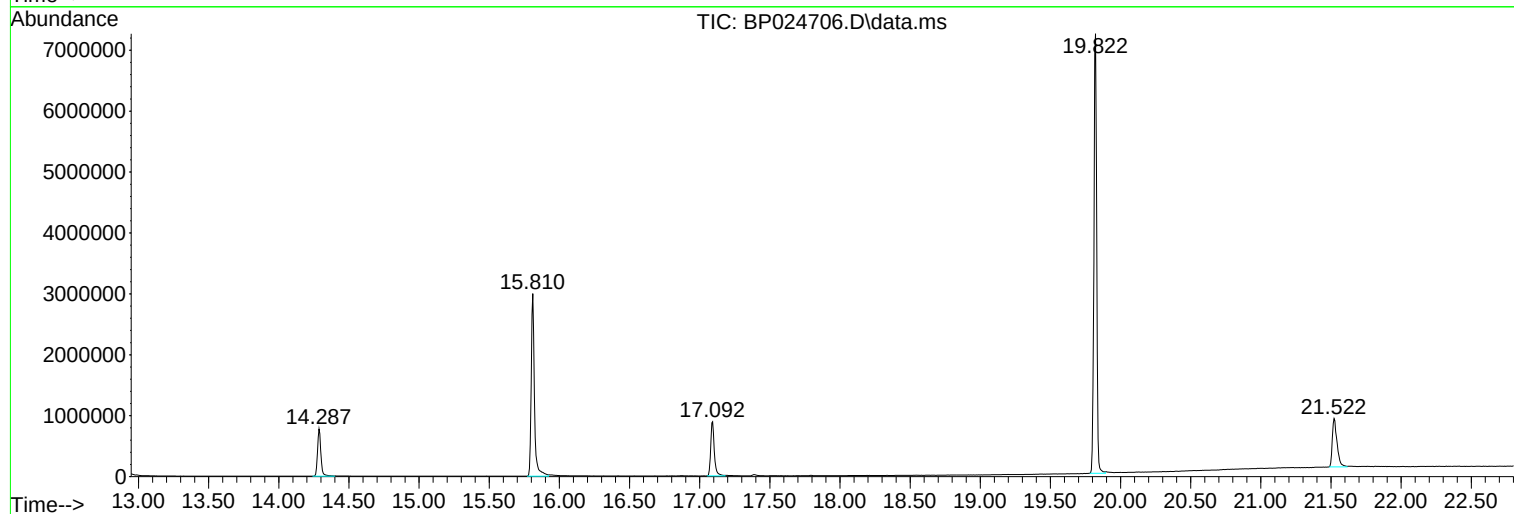
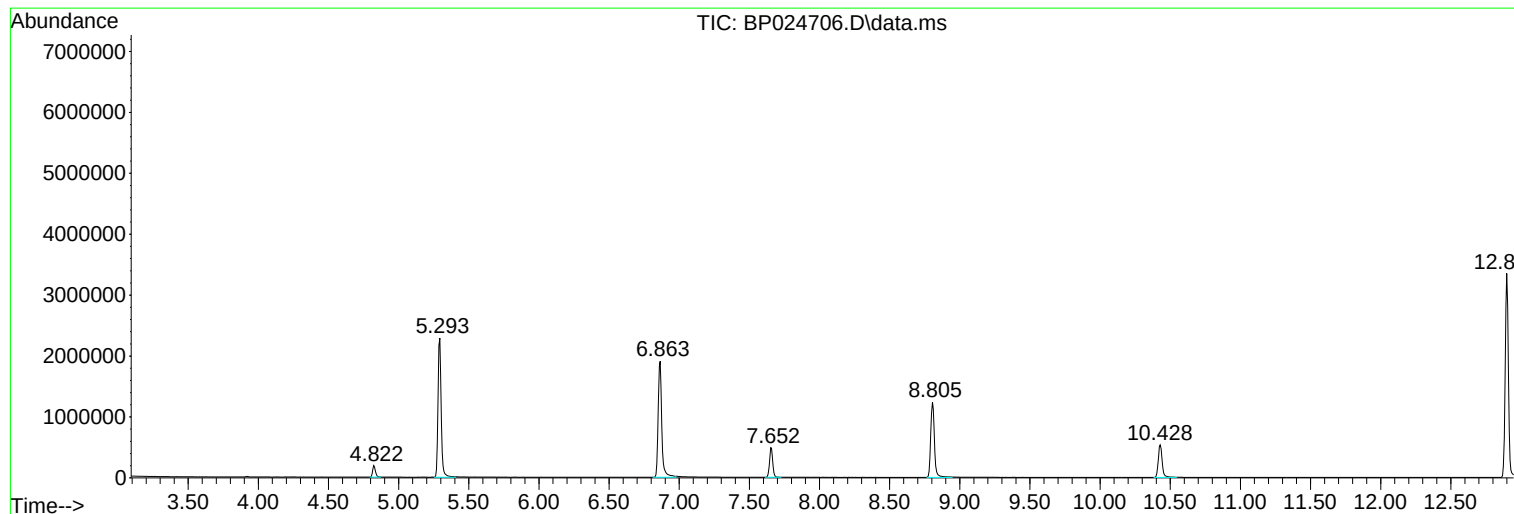
Sum of corrected areas: 37451996

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024706.D
Acq On : 20 May 2025 13:55
Operator : RC/JU
Sample : PB168048BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168048BL

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

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024706.D
Acq On : 20 May 2025 13:55
Operator : RC/JU
Sample : PB168048BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168048BL

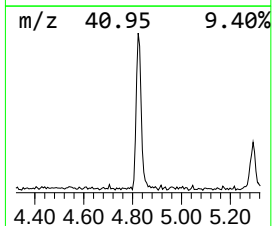
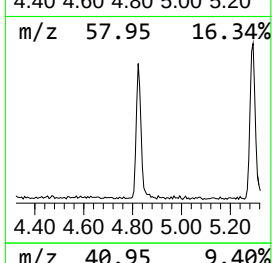
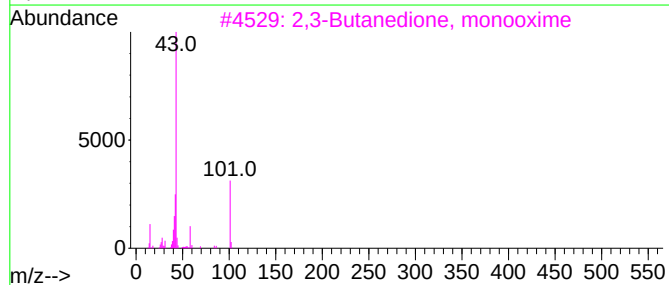
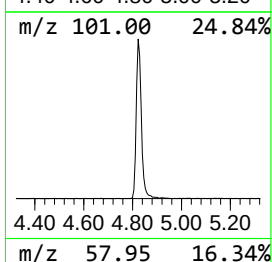
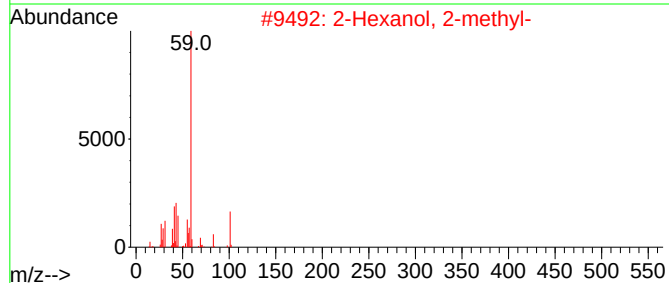
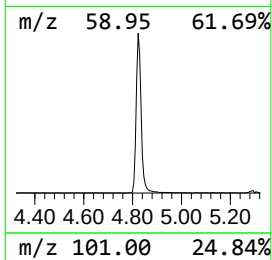
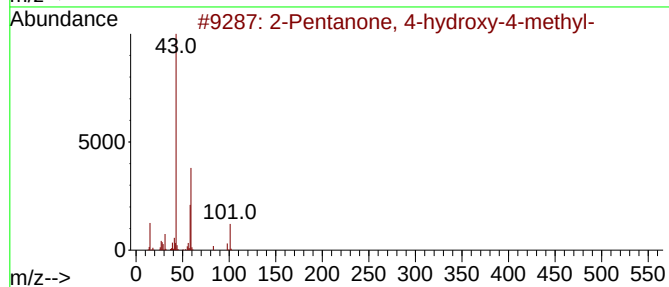
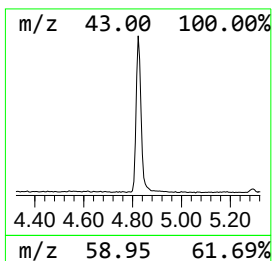
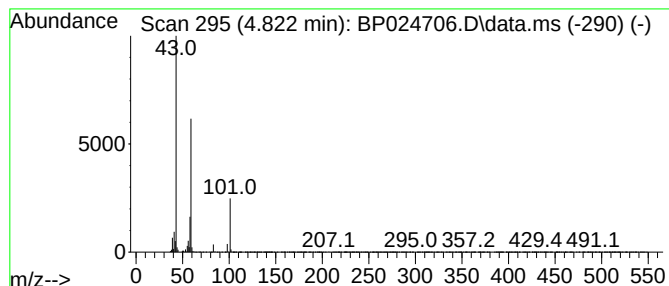
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.822	6.88 ng	266261	1,4-Dichlorobenzene-d4	7.658

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2			2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	38
3			2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	17
4			Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	12
5			1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024706.D
Acq On : 20 May 2025 13:55
Operator : RC/JU
Sample : PB168048BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168048BL

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

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-...	4.822	6.9	ng	266261	1	7.658	774131	20.0

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168041BS	SDG No.:	Q2032
Lab Sample ID:	PB168041BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024689.D	1	05/16/25 10:00	05/19/25 14:50	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1100		160	330	ug/Kg
108-95-2	Phenol	1400		22.1	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1300		24.3	170	ug/Kg
95-57-8	2-Chlorophenol	1400		24.4	170	ug/Kg
95-48-7	2-Methylphenol	1400		29.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1200		37.5	170	ug/Kg
98-86-2	Acetophenone	1400		29.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	1300		41.1	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1200		47.4	79.9	ug/Kg
67-72-1	Hexachloroethane	1300		17.6	170	ug/Kg
98-95-3	Nitrobenzene	1400		18.3	170	ug/Kg
78-59-1	Isophorone	1300		32.8	170	ug/Kg
88-75-5	2-Nitrophenol	1500		58.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1400		64.7	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1300		30.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		28.3	170	ug/Kg
91-20-3	Naphthalene	1400		22.7	170	ug/Kg
106-47-8	4-Chloroaniline	560		35.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		25.3	170	ug/Kg
105-60-2	Caprolactam	1100		52.0	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1300		28.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	1300		25.6	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3500	E	120	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		19.8	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		29.1	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		21.8	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		22.5	170	ug/Kg
88-74-4	2-Nitroaniline	1400		48.1	170	ug/Kg
131-11-3	Dimethylphthalate	1300		27.1	170	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168041BS	SDG No.:	Q2032
Lab Sample ID:	PB168041BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024689.D	1	05/16/25 10:00	05/19/25 14:50	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1400		28.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1400		33.6	170	ug/Kg
99-09-2	3-Nitroaniline	700		46.0	170	ug/Kg
83-32-9	Acenaphthene	1400		21.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	2500		230	330	ug/Kg
100-02-7	4-Nitrophenol	2100		110	330	ug/Kg
132-64-9	Dibenzofuran	1400		22.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1300		50.0	170	ug/Kg
84-66-2	Diethylphthalate	1300		28.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1400		26.7	170	ug/Kg
86-73-7	Fluorene	1400		25.3	170	ug/Kg
100-01-6	4-Nitroaniline	1200		64.1	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		100	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		32.9	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		27.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		25.3	170	ug/Kg
1912-24-9	Atrazine	1500		34.0	170	ug/Kg
87-86-5	Pentachlorophenol	3200	E	51.2	330	ug/Kg
85-01-8	Phenanthrene	1500		20.9	170	ug/Kg
120-12-7	Anthracene	1500		33.3	170	ug/Kg
86-74-8	Carbazole	1400		31.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1400		47.9	170	ug/Kg
206-44-0	Fluoranthene	1400		30.0	170	ug/Kg
129-00-0	Pyrene	1600		36.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1500		71.3	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1200		36.7	330	ug/Kg
56-55-3	Benzo(a)anthracene	1500		23.0	170	ug/Kg
218-01-9	Chrysene	1500		19.9	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		59.1	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1700		86.7	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		19.0	170	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168041BS	SDG No.:	Q2032
Lab Sample ID:	PB168041BS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024689.D	1	05/16/25 10:00	05/19/25 14:50	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1400		22.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	1500		29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1700		29.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1700		27.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		25.7	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		25.6	170	ug/Kg
123-91-1	1,4-Dioxane	1100		45.2	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1400		27.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	130		18 - 112	86%	SPK: 150
13127-88-3	Phenol-d6	121		15 - 107	81%	SPK: 150
4165-60-0	Nitrobenzene-d5	74.1		18 - 107	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	82.8		20 - 109	83%	SPK: 100
118-79-6	2,4,6-Tribromophenol	121		10 - 116	81%	SPK: 150
1718-51-0	Terphenyl-d14	82.5		10 - 105	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	179000	7.657			
1146-65-2	Naphthalene-d8	689000	10.428			
15067-26-2	Acenaphthene-d10	378000	14.286			
1517-22-2	Phenanthrene-d10	632000	17.08			
1719-03-5	Chrysene-d12	603000	21.521			
1520-96-3	Perylene-d12	805000	24.809			

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
 Data File : BP024689.D
 Acq On : 19 May 2025 14:50
 Operator : RC/JU
 Sample : PB168041BS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 PB168041BS

Quant Time: May 19 18:58:17 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.657	152	179011	20.000	ng	0.00
21) Naphthalene-d8	10.428	136	689037	20.000	ng	0.00
39) Acenaphthene-d10	14.286	164	377539	20.000	ng	-0.02
64) Phenanthrene-d10	17.080	188	631736	20.000	ng	-0.02
76) Chrysene-d12	21.521	240	602821	20.000	ng	0.00
86) Perylene-d12	24.809	264	805398	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.293	112	1357920	129.743	ng	0.00
7) Phenol-d6	6.869	99	1613484	120.790	ng	0.02
23) Nitrobenzene-d5	8.810	82	1011092	74.142	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	776691	121.351	ng	0.00
45) 2-Fluorobiphenyl	12.892	172	2385462	82.780	ng	-0.01
79) Terphenyl-d14	19.810	244	2900273	82.497	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.228	88	161486	32.858	ng	98
3) Pyridine	3.622	79	392111	35.982	ng	96
4) n-Nitrosodimethylamine	3.534	42	195637	40.665	ng	94
6) Aniline	6.999	93	494103	28.650	ng	100
8) 2-Chlorophenol	7.240	128	516315	43.456	ng	99
9) Benzaldehyde	6.810	77	287824	33.286	ng	99
10) Phenol	6.893	94	577541	41.891	ng	99
11) bis(2-Chloroethyl)ether	7.093	93	430407	37.993	ng	99
12) 1,3-Dichlorobenzene	7.546	146	562962	41.183	ng	99
13) 1,4-Dichlorobenzene	7.693	146	568126	41.323	ng	99
14) 1,2-Dichlorobenzene	8.004	146	542120	40.466	ng	98
15) Benzyl Alcohol	7.910	79	410902	40.480	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.175	45	506871	37.361	ng	98
17) 2-Methylphenol	8.116	107	400886	40.541	ng	99
18) Hexachloroethane	8.722	117	213500	40.524	ng	97
19) n-Nitroso-di-n-propyla...	8.457	70	326925	35.381	ng	99
20) 3+4-Methylphenols	8.446	107	536209	39.864	ng	97
22) Acetophenone	8.475	105	716343	41.619	ng	99
24) Nitrobenzene	8.851	77	498515	41.540	ng	95
25) Isophorone	9.375	82	894332	37.807	ng	98
26) 2-Nitrophenol	9.551	139	270571	46.011	ng	98
27) 2,4-Dimethylphenol	9.628	122	446622	43.076	ng	99
28) bis(2-Chloroethoxy)met...	9.846	93	563242	39.854	ng	99
29) 2,4-Dichlorophenol	10.104	162	447514	44.541	ng	98
30) 1,2,4-Trichlorobenzene	10.287	180	497228	43.916	ng	97
31) Naphthalene	10.481	128	1508450	42.246	ng	100
32) Benzoic acid	9.816	122	254266	37.214	ng	99
33) 4-Chloroaniline	10.598	127	240561	16.696	ng	98
34) Hexachlorobutadiene	10.763	225	324047	44.181	ng	99
35) Caprolactam	11.398	113	121891	33.532	ng	97
36) 4-Chloro-3-methylphenol	11.745	107	474335	38.713	ng	98
37) 2-Methylnaphthalene	12.087	142	933364	40.370	ng	98
38) 1-Methylnaphthalene	12.310	142	976101	39.457	ng	100
40) 1,2,4,5-Tetrachloroben...	12.463	216	541911	49.430	ng	100
41) Hexachlorocyclopentadiene	12.440	237	708183	106.529	ng	96
43) 2,4,6-Trichlorophenol	12.716	196	343683	48.399	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
 Data File : BP024689.D
 Acq On : 19 May 2025 14:50
 Operator : RC/JU
 Sample : PB168041BS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 PB168041BS

Quant Time: May 19 18:58:17 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

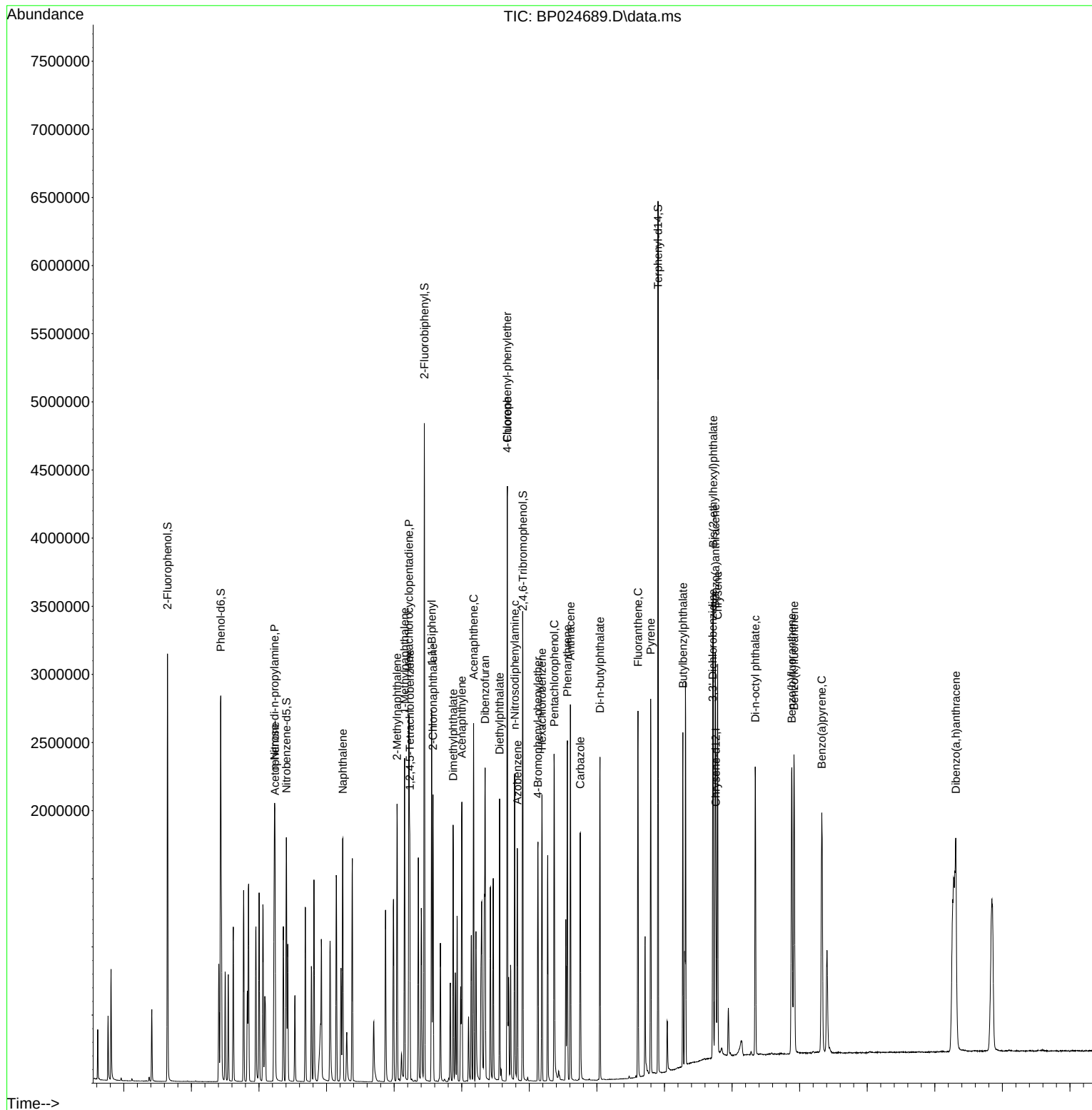
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.804	196	362987	45.922	ng	98
46) 1,1'-Biphenyl	13.110	154	1295311	46.420	ng	100
47) 2-Chloronaphthalene	13.151	162	989216	46.494	ng	99
48) 2-Nitroaniline	13.369	65	257122	40.819	ng	95
49) Acenaphthylene	14.004	152	1549623	43.522	ng	99
50) Dimethylphthalate	13.745	163	1161487	40.363	ng	100
51) 2,6-Dinitrotoluene	13.869	165	252252	41.507	ng	96
52) Acenaphthene	14.351	154	883211	43.149	ng	99
53) 3-Nitroaniline	14.204	138	129590	20.883	ng	98
54) 2,4-Dinitrophenol	14.422	184	283716	74.510	ng	97
55) Dibenzofuran	14.692	168	1388976	42.542	ng	99
56) 4-Nitrophenol	14.569	139	333127	62.960	ng	98
57) 2,4-Dinitrotoluene	14.669	165	342662	39.993	ng	99
58) Fluorene	15.351	166	1094155	41.100	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.934	232	299203	40.805	ng	98
60) Diethylphthalate	15.122	149	1110914	38.196	ng	99
61) 4-Chlorophenyl-phenyle...	15.345	204	552635	41.625	ng	99
62) 4-Nitroaniline	15.386	138	207218	34.584	ng	99
63) Azobenzene	15.645	77	989411	39.766	ng	98
65) 4,6-Dinitro-2-methylph...	15.451	198	188204	46.122	ng	97
66) n-Nitrosodiphenylamine	15.569	169	927174	47.782	ng	98
67) 4-Bromophenyl-phenylether	16.257	248	364435	48.957	ng	97
68) Hexachlorobenzene	16.375	284	460798	48.715	ng	97
69) Atrazine	16.545	200	314166	44.179	ng	100
70) Pentachlorophenol	16.739	266	504633	95.038	ng	98
71) Phenanthrene	17.128	178	1556680	44.326	ng	99
72) Anthracene	17.216	178	1576828	44.627	ng	99
73) Carbazole	17.510	167	1361201	42.563	ng	100
74) Di-n-butylphthalate	18.092	149	1762481	42.852	ng	100
75) Fluoranthene	19.216	202	1678461	40.886	ng	99
77) Benzidine	19.427	184	665703	40.546	ng	99
78) Pyrene	19.592	202	1692845	46.868	ng	100
80) Butylbenzylphthalate	20.545	149	745149	46.387	ng	95
81) Benzo(a)anthracene	21.504	228	1717345	45.370	ng	99
82) 3,3'-Dichlorobenzidine	21.427	252	502204	35.721	ng	99
83) Chrysene	21.574	228	1615533	45.023	ng	100
84) Bis(2-ethylhexyl)phtha...	21.439	149	1083795	45.902	ng	100
85) Di-n-octyl phthalate	22.686	149	1933782	50.084	ng	100
87) Indeno(1,2,3-cd)pyrene	28.556	276	3000018	51.022	ng	96
88) Benzo(b)fluoranthene	23.768	252	2033252	44.105	ng	99
89) Benzo(k)fluoranthene	23.833	252	2017301	42.467	ng	100
90) Benzo(a)pyrene	24.657	252	2026541	45.772	ng	98
91) Dibenzo(a,h)anthracene	28.621	278	2474876	51.738	ng	99
92) Benzo(g,h,i)perylene	29.692	276	2453442	51.576	ng	99

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

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\  
Data File : BP024689.D  
Acq On    : 19 May 2025   14:50  
Operator   : RC/JU  
Sample     : PB168041BS  
Misc       :  
ALS Vial   : 5    Sample Multiplier: 1
```

Instrument :
BNA_P
ClientSampleId :
PB168041BS

Quant Time: May 19 18:58:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168048BS	SDG No.:	Q2032
Lab Sample ID:	PB168048BS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024707.D	1	05/19/25 08:42	05/20/25 14:35	PB168048

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	30.6		3.90	10.0	ug/L
108-95-2	Phenol	40.0		0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	35.7		0.81	5.00	ug/L
95-57-8	2-Chlorophenol	41.7		0.58	5.00	ug/L
95-48-7	2-Methylphenol	39.9		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	34.9		1.30	5.00	ug/L
98-86-2	Acetophenone	38.9		0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	38.8		1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	33.4		1.40	2.50	ug/L
67-72-1	Hexachloroethane	38.0		0.65	5.00	ug/L
98-95-3	Nitrobenzene	37.8		0.76	5.00	ug/L
78-59-1	Isophorone	35.9		0.75	5.00	ug/L
88-75-5	2-Nitrophenol	43.7		1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	42.9		1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	37.2		0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	43.9		0.52	5.00	ug/L
91-20-3	Naphthalene	39.4		0.50	5.00	ug/L
106-47-8	4-Chloroaniline	19.5		0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	42.4		0.54	5.00	ug/L
105-60-2	Caprolactam	39.7		1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	41.9		0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	39.5		0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	89.2	E	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	46.4		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	45.0		0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	42.8		0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	43.0		0.61	5.00	ug/L
88-74-4	2-Nitroaniline	43.3		1.30	5.00	ug/L
131-11-3	Dimethylphthalate	42.4		0.61	5.00	ug/L

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168048BS	SDG No.:	Q2032
Lab Sample ID:	PB168048BS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024707.D	1	05/19/25 08:42	05/20/25 14:35	PB168048

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	41.4		0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	43.0		0.92	5.00	ug/L
99-09-2	3-Nitroaniline	26.3		1.10	5.00	ug/L
83-32-9	Acenaphthene	41.3		0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	81.6	E	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	75.5		2.40	10.0	ug/L
132-64-9	Dibenzofuran	42.2		0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	44.7		1.20	5.00	ug/L
84-66-2	Diethylphthalate	41.6		0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	42.5		0.68	5.00	ug/L
86-73-7	Fluorene	42.4		0.63	5.00	ug/L
100-01-6	4-Nitroaniline	40.0		1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	44.3		2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	42.6		0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	44.0		0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	44.4		0.52	5.00	ug/L
1912-24-9	Atrazine	44.4		1.00	5.00	ug/L
87-86-5	Pentachlorophenol	98.8	E	1.60	10.0	ug/L
85-01-8	Phenanthrene	40.6		0.50	5.00	ug/L
120-12-7	Anthracene	42.4		0.61	5.00	ug/L
86-74-8	Carbazole	42.9		0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	41.5		1.20	5.00	ug/L
206-44-0	Fluoranthene	42.5		0.82	5.00	ug/L
129-00-0	Pyrene	42.4		0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	43.1		1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	33.0		0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	41.9		0.45	5.00	ug/L
218-01-9	Chrysene	40.8		0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	44.3		1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	45.4		2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	42.5		0.49	5.00	ug/L

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168048BS	SDG No.:	Q2032
Lab Sample ID:	PB168048BS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024707.D	1	05/19/25 08:42	05/20/25 14:35	PB168048

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	42.7		0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	42.6		0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	42.7		0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	43.2		0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	42.1		0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	43.5		0.52	5.00	ug/L
123-91-1	1,4-Dioxane	30.9		1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	43.3		0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	122		10 - 139	82%	SPK: 150
13127-88-3	Phenol-d6	117		10 - 134	78%	SPK: 150
4165-60-0	Nitrobenzene-d5	69.5		49 - 133	69%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.5		52 - 132	74%	SPK: 100
118-79-6	2,4,6-Tribromophenol	139		44 - 137	93%	SPK: 150
1718-51-0	Terphenyl-d14	76.9		48 - 125	77%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	125000	7.657			
1146-65-2	Naphthalene-d8	495000	10.428			
15067-26-2	Acenaphthene-d10	304000	14.287			
1517-22-2	Phenanthrene-d10	614000	17.081			
1719-03-5	Chrysene-d12	693000	21.516			
1520-96-3	Perylene-d12	828000	24.792			

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
 Data File : BP024707.D
 Acq On : 20 May 2025 14:35
 Operator : RC/JU
 Sample : PB168048BS
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 PB168048BS

Quant Time: May 20 15:06:43 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.657	152	124819	20.000	ng	0.00
21) Naphthalene-d8	10.428	136	494827	20.000	ng	0.00
39) Acenaphthene-d10	14.287	164	304328	20.000	ng	-0.02
64) Phenanthrene-d10	17.081	188	614284	20.000	ng	-0.02
76) Chrysene-d12	21.516	240	693187	20.000	ng	0.00
86) Perylene-d12	24.792	264	827509	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.293	112	893003	122.366	ng	0.00
7) Phenol-d6	6.863	99	1089104	116.932	ng	0.01
23) Nitrobenzene-d5	8.810	82	680416	69.477	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	718839	139.330	ng	0.00
45) 2-Fluorobiphenyl	12.892	172	1730298	74.489	ng	-0.01
79) Terphenyl-d14	19.816	244	3106963	76.855	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.228	88	105719	30.850	ng	97
3) Pyridine	3.617	79	245584	32.320	ng	93
4) n-Nitrosodimethylamine	3.528	42	126980	37.853	ng	84
6) Aniline	6.999	93	311151	25.875	ng	99
8) 2-Chlorophenol	7.234	128	345097	41.656	ng	99
9) Benzaldehyde	6.810	77	184460	30.594	ng	99
10) Phenol	6.887	94	384088	39.954	ng	96
11) bis(2-Chloroethyl)ether	7.093	93	281912	35.689	ng	99
12) 1,3-Dichlorobenzene	7.546	146	372303	39.061	ng	99
13) 1,4-Dichlorobenzene	7.693	146	377192	39.347	ng	99
14) 1,2-Dichlorobenzene	8.005	146	361042	38.651	ng	100
15) Benzyl Alcohol	7.905	79	282068	39.852	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.175	45	330220	34.907	ng	99
17) 2-Methylphenol	8.116	107	274999	39.885	ng	98
18) Hexachloroethane	8.716	117	139528	37.982	ng	97
19) n-Nitroso-di-n-propyla...	8.457	70	215124	33.390	ng	96
20) 3+4-Methylphenols	8.446	107	363562	38.764	ng	96
22) Acetophenone	8.475	105	480484	38.873	ng	# 100
24) Nitrobenzene	8.846	77	325420	37.759	ng	96
25) Isophorone	9.369	82	610351	35.928	ng	98
26) 2-Nitrophenol	9.551	139	184377	43.659	ng	96
27) 2,4-Dimethylphenol	9.628	122	319643	42.929	ng	100
28) bis(2-Chloroethoxy)met...	9.846	93	377505	37.195	ng	99
29) 2,4-Dichlorophenol	10.104	162	316434	43.856	ng	98
30) 1,2,4-Trichlorobenzene	10.293	180	333960	41.073	ng	97
31) Naphthalene	10.475	128	1011010	39.427	ng	100
32) Benzoic acid	9.804	122	190843	38.557	ng	97
33) 4-Chloroaniline	10.599	127	201537	19.477	ng	99
34) Hexachlorobutadiene	10.757	225	223160	42.367	ng	98
35) Caprolactam	11.393	113	103513	39.652	ng	97
36) 4-Chloro-3-methylphenol	11.746	107	368425	41.871	ng	99
37) 2-Methylnaphthalene	12.087	142	656171	39.519	ng	99
38) 1-Methylnaphthalene	12.310	142	701480	39.485	ng	99
40) 1,2,4,5-Tetrachloroben...	12.457	216	384111	43.465	ng	100
41) Hexachlorocyclopentadiene	12.434	237	477928	89.188	ng	97
43) 2,4,6-Trichlorophenol	12.716	196	265360	46.359	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
 Data File : BP024707.D
 Acq On : 20 May 2025 14:35
 Operator : RC/JU
 Sample : PB168048BS
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 PB168048BS

Quant Time: May 20 15:06:43 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.804	196	286530	44.970	ng	98
46) 1,1'-Biphenyl	13.110	154	963510	42.836	ng	99
47) 2-Chloronaphthalene	13.151	162	737226	42.986	ng	99
48) 2-Nitroaniline	13.369	65	219663	43.261	ng	96
49) Acenaphthylene	14.004	152	1189545	41.446	ng	100
50) Dimethylphthalate	13.745	163	984006	42.421	ng	100
51) 2,6-Dinitrotoluene	13.869	165	210670	43.004	ng	99
52) Acenaphthene	14.351	154	680659	41.253	ng	100
53) 3-Nitroaniline	14.210	138	131765	26.342	ng	97
54) 2,4-Dinitrophenol	14.428	184	252393	81.567	ng	96
55) Dibenzofuran	14.692	168	1109951	42.175	ng	99
56) 4-Nitrophenol	14.569	139	325725	75.469	ng	97
57) 2,4-Dinitrotoluene	14.669	165	308420	44.656	ng	97
58) Fluorene	15.351	166	910033	42.407	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.934	232	256167	43.340	ng	97
60) Diethylphthalate	15.134	149	974989	41.587	ng	99
61) 4-Chlorophenyl-phenyle...	15.351	204	455268	42.541	ng	99
62) 4-Nitroaniline	15.392	138	193166	39.994	ng	99
63) Azobenzene	15.645	77	814077	40.590	ng	96
65) 4,6-Dinitro-2-methylph...	15.451	198	175622	44.261	ng	98
66) n-Nitrosodiphenylamine	15.569	169	803540	42.587	ng	99
67) 4-Bromophenyl-phenylether	16.257	248	318593	44.014	ng	99
68) Hexachlorobenzene	16.381	284	408492	44.412	ng	94
69) Atrazine	16.551	200	307059	44.406	ng	99
70) Pentachlorophenol	16.739	266	510226	98.822	ng	100
71) Phenanthrene	17.128	178	1386666	40.607	ng	99
72) Anthracene	17.222	178	1457149	42.411	ng	100
73) Carbazole	17.504	167	1335342	42.941	ng	100
74) Di-n-butylphthalate	18.086	149	1657780	41.451	ng	99
75) Fluoranthene	19.216	202	1695882	42.484	ng	99
77) Benzidine	19.416	184	723227	38.307	ng	100
78) Pyrene	19.592	202	1760402	42.384	ng	99
80) Butylbenzylphthalate	20.545	149	796147	43.100	ng	96
81) Benzo(a)anthracene	21.492	228	1825211	41.934	ng	99
82) 3,3'-Dichlorobenzidine	21.421	252	533711	33.013	ng	100
83) Chrysene	21.569	228	1682550	40.778	ng	100
84) Bis(2-ethylhexyl)phtha...	21.433	149	1203178	44.315	ng	99
85) Di-n-octyl phthalate	22.680	149	2017155	45.433	ng	100
87) Indeno(1,2,3-cd)pyrene	28.521	276	2578470	42.681	ng	# 87
88) Benzo(b)fluoranthene	23.757	252	2012992	42.499	ng	98
89) Benzo(k)fluoranthene	23.833	252	2085330	42.726	ng	99
90) Benzo(a)pyrene	24.651	252	1937802	42.598	ng	98
91) Dibenzo(a,h)anthracene	28.592	278	2122778	43.192	ng	98
92) Benzo(g,h,i)perylene	29.668	276	2055756	42.061	ng	98

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

Instrument :
BNA_P
ClientSampleId :
PB168048BS

[illegible]

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168048BSD	SDG No.:	Q2032
Lab Sample ID:	PB168048BSD	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024708.D	1	05/19/25 08:42	05/20/25 15:16	PB168048

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	33.3		3.90	10.0	ug/L
108-95-2	Phenol	41.7		0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	38.9		0.81	5.00	ug/L
95-57-8	2-Chlorophenol	43.8		0.58	5.00	ug/L
95-48-7	2-Methylphenol	40.8		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	35.5		1.30	5.00	ug/L
98-86-2	Acetophenone	41.6		0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	40.5		1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	34.9		1.40	2.50	ug/L
67-72-1	Hexachloroethane	39.5		0.65	5.00	ug/L
98-95-3	Nitrobenzene	42.2		0.76	5.00	ug/L
78-59-1	Isophorone	37.7		0.75	5.00	ug/L
88-75-5	2-Nitrophenol	47.7		1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	46.0		1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	39.7		0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	47.2		0.52	5.00	ug/L
91-20-3	Naphthalene	42.5		0.50	5.00	ug/L
106-47-8	4-Chloroaniline	34.9		0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	45.8		0.54	5.00	ug/L
105-60-2	Caprolactam	43.3		1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	42.8		0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	41.9		0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	99.7	E	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	49.8		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	48.4		0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	45.9		0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	46.2		0.61	5.00	ug/L
88-74-4	2-Nitroaniline	45.1		1.30	5.00	ug/L
131-11-3	Dimethylphthalate	44.8		0.61	5.00	ug/L

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168048BSD	SDG No.:	Q2032
Lab Sample ID:	PB168048BSD	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024708.D	1	05/19/25 08:42	05/20/25 15:16	PB168048

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	43.7		0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	45.8		0.92	5.00	ug/L
99-09-2	3-Nitroaniline	37.1		1.10	5.00	ug/L
83-32-9	Acenaphthene	44.5		0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	86.7	E	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	78.4		2.40	10.0	ug/L
132-64-9	Dibenzofuran	43.7		0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	45.9		1.20	5.00	ug/L
84-66-2	Diethylphthalate	44.1		0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	45.4		0.68	5.00	ug/L
86-73-7	Fluorene	45.6		0.63	5.00	ug/L
100-01-6	4-Nitroaniline	43.8		1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	49.0		2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	47.5		0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	48.0		0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	47.6		0.52	5.00	ug/L
1912-24-9	Atrazine	47.6		1.00	5.00	ug/L
87-86-5	Pentachlorophenol	110	E	1.60	10.0	ug/L
85-01-8	Phenanthrene	44.4		0.50	5.00	ug/L
120-12-7	Anthracene	46.9		0.61	5.00	ug/L
86-74-8	Carbazole	46.9		0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	46.4		1.20	5.00	ug/L
206-44-0	Fluoranthene	45.0		0.82	5.00	ug/L
129-00-0	Pyrene	43.3		0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	44.7		1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	41.3		0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	44.7		0.45	5.00	ug/L
218-01-9	Chrysene	44.7		0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	47.2		1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	47.7		2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	47.0		0.49	5.00	ug/L

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168048BSD	SDG No.:	Q2032
Lab Sample ID:	PB168048BSD	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024708.D	1	05/19/25 08:42	05/20/25 15:16	PB168048

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	45.9		0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	46.4		0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	45.4		0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	46.0		0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	44.9		0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	47.0		0.52	5.00	ug/L
123-91-1	1,4-Dioxane	31.5		1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	48.0		0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	128		10 - 139	85%	SPK: 150
13127-88-3	Phenol-d6	120		10 - 134	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	75.8		49 - 133	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.1		52 - 132	78%	SPK: 100
118-79-6	2,4,6-Tribromophenol	146		44 - 137	97%	SPK: 150
1718-51-0	Terphenyl-d14	79.4		48 - 125	79%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	140000	7.658			
1146-65-2	Naphthalene-d8	538000	10.422			
15067-26-2	Acenaphthene-d10	330000	14.287			
1517-22-2	Phenanthrene-d10	643000	17.081			
1719-03-5	Chrysene-d12	742000	21.516			
1520-96-3	Perylene-d12	839000	24.792			

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
 Data File : BP024708.D
 Acq On : 20 May 2025 15:16
 Operator : RC/JU
 Sample : PB168048BSD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 PB168048BSD

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/21/2025
 Supervised By :Jagrut Upadhyay 05/21/2025

Quant Time: May 20 15:48:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.658	152	139801	20.000	ng	0.00
21) Naphthalene-d8	10.422	136	538123	20.000	ng	-0.01
39) Acenaphthene-d10	14.287	164	329718	20.000	ng	-0.02
64) Phenanthrene-d10	17.081	188	642991	20.000	ng	-0.02
76) Chrysene-d12	21.516	240	741643	20.000	ng	0.00
86) Perylene-d12	24.792	264	838594	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.293	112	1043511	127.666	ng	0.00
7) Phenol-d6	6.863	99	1253204	120.132	ng	0.01
23) Nitrobenzene-d5	8.805	82	807485	75.818	ng	0.00
42) 2,4,6-Tribromophenol	15.804	330	816620	146.094	ng	0.00
45) 2-Fluorobiphenyl	12.893	172	1964889	78.074	ng	-0.01
79) Terphenyl-d14	19.804	244	3433913	79.393	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.222	88	120709	31.450	ng	95
3) Pyridine	3.617	79	287355	33.764	ng	95
4) n-Nitrosodimethylamine	3.528	42	150262	39.993	ng	88
6) Aniline	6.999	93	471275	34.991	ng	100
8) 2-Chlorophenol	7.234	128	406514	43.810	ng	98
9) Benzaldehyde	6.811	77	225153	33.341	ng	98
10) Phenol	6.887	94	449144	41.715	ng	96
11) bis(2-Chloroethyl)ether	7.087	93	343898	38.871	ng	100
12) 1,3-Dichlorobenzene	7.546	146	445502	41.731	ng	99
13) 1,4-Dichlorobenzene	7.693	146	456307	42.498	ng	99
14) 1,2-Dichlorobenzene	8.005	146	419608	40.106	ng	99
15) Benzyl Alcohol	7.905	79	327937	41.367	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.175	45	375945	35.482	ng	98
17) 2-Methylphenol	8.116	107	314693	40.750	ng	97
18) Hexachloroethane	8.716	117	162657	39.533	ng	98
19) n-Nitroso-di-n-propyla...	8.457	70	251492	34.851	ng	95
20) 3+4-Methylphenols	8.446	107	425353	40.492	ng	96
22) Acetophenone	8.469	105	559135	41.596	ng	# 98
24) Nitrobenzene	8.846	77	395885	42.239	ng	96
25) Isophorone	9.363	82	697164	37.737	ng	99
26) 2-Nitrophenol	9.552	139	219271	47.744	ng	98
27) 2,4-Dimethylphenol	9.622	122	372381	45.988	ng	99
28) bis(2-Chloroethoxy)met...	9.846	93	438080	39.691	ng	99
29) 2,4-Dichlorophenol	10.099	162	370553	47.224	ng	96
30) 1,2,4-Trichlorobenzene	10.287	180	392603	44.400	ng	97
31) Naphthalene	10.475	128	1185760	42.522	ng	100
32) Benzoic acid	9.810	122	245894m	44.302	ng	
33) 4-Chloroaniline	10.593	127	393001	34.925	ng	99
34) Hexachlorobutadiene	10.752	225	262558	45.836	ng	98
35) Caprolactam	11.399	113	122940	43.305	ng	99
36) 4-Chloro-3-methylphenol	11.740	107	409493	42.794	ng	98
37) 2-Methylnaphthalene	12.087	142	755884	41.862	ng	99
38) 1-Methylnaphthalene	12.310	142	792211	41.005	ng	99
40) 1,2,4,5-Tetrachloroben...	12.457	216	450159	47.016	ng	99
41) Hexachlorocyclopentadiene	12.434	237	578889	99.710	ng	96
43) 2,4,6-Trichlorophenol	12.716	196	308678	49.774	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
 Data File : BP024708.D
 Acq On : 20 May 2025 15:16
 Operator : RC/JU
 Sample : PB168048BSD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 PB168048BSD

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/21/2025
 Supervised By :Jagrut Upadhyay 05/21/2025

Quant Time: May 20 15:48:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.804	196	333877	48.366	ng	96
46) 1,1'-Biphenyl	13.104	154	1119732	45.948	ng	99
47) 2-Chloronaphthalene	13.145	162	857654	46.157	ng	98
48) 2-Nitroaniline	13.369	65	247888	45.061	ng	96
49) Acenaphthylene	14.004	152	1357825	43.666	ng	100
50) Dimethylphthalate	13.745	163	1126770	44.835	ng	100
51) 2,6-Dinitrotoluene	13.863	165	242858	45.757	ng	96
52) Acenaphthene	14.351	154	795831	44.519	ng	99
53) 3-Nitroaniline	14.204	138	200980	37.085	ng	98
54) 2,4-Dinitrophenol	14.422	184	292154	86.708	ng	96
55) Dibenzofuran	14.692	168	1245387	43.677	ng	98
56) 4-Nitrophenol	14.563	139	367273	78.370	ng	96
57) 2,4-Dinitrotoluene	14.669	165	343419	45.895	ng	97
58) Fluorene	15.345	166	1060372	45.608	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.934	232	307270	47.983	ng	97
60) Diethylphthalate	15.122	149	1120632	44.119	ng	99
61) 4-Chlorophenyl-phenyle...	15.339	204	526856	45.439	ng	98
62) 4-Nitroaniline	15.387	138	228988	43.760	ng	99
63) Azobenzene	15.639	77	928905	42.749	ng	96
65) 4,6-Dinitro-2-methylph...	15.451	198	203628	49.028	ng	98
66) n-Nitrosodiphenylamine	15.563	169	938311	47.509	ng	99
67) 4-Bromophenyl-phenylether	16.251	248	363780	48.013	ng	98
68) Hexachlorobenzene	16.369	284	458184	47.591	ng	99
69) Atrazine	16.545	200	344306	47.570	ng	99
70) Pentachlorophenol	16.734	266	590870	109.332	ng	99
71) Phenanthrene	17.128	178	1585722	44.362	ng	99
72) Anthracene	17.216	178	1687384	46.920	ng	100
73) Carbazole	17.504	167	1527551	46.929	ng	100
74) Di-n-butylphthalate	18.086	149	1942338	46.398	ng	100
75) Fluoranthene	19.210	202	1881199	45.023	ng	99
77) Benzidine	19.416	184	1184443	58.638	ng	100
78) Pyrene	19.586	202	1922595	43.265	ng	100
80) Butylbenzylphthalate	20.539	149	882879	44.673	ng	92
81) Benzo(a)anthracene	21.498	228	2082335	44.715	ng	100
82) 3,3'-Dichlorobenzidine	21.422	252	713621	41.258	ng	99
83) Chrysene	21.563	228	1974706	44.732	ng	99
84) Bis(2-ethylhexyl)phtha...	21.427	149	1370288	47.173	ng	100
85) Di-n-octyl phthalate	22.680	149	2264072	47.662	ng	99
87) Indeno(1,2,3-cd)pyrene	28.527	276	2777529	45.368	ng	95
88) Benzo(b)fluoranthene	23.763	252	2257968	47.041	ng	99
89) Benzo(k)fluoranthene	23.821	252	2269488	45.885	ng	99
90) Benzo(a)pyrene	24.645	252	2138419	46.387	ng	99
91) Dibenzo(a,h)anthracene	28.592	278	2290677	45.992	ng	99
92) Benzo(g,h,i)perylene	29.680	276	2221548	44.853	ng	98

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

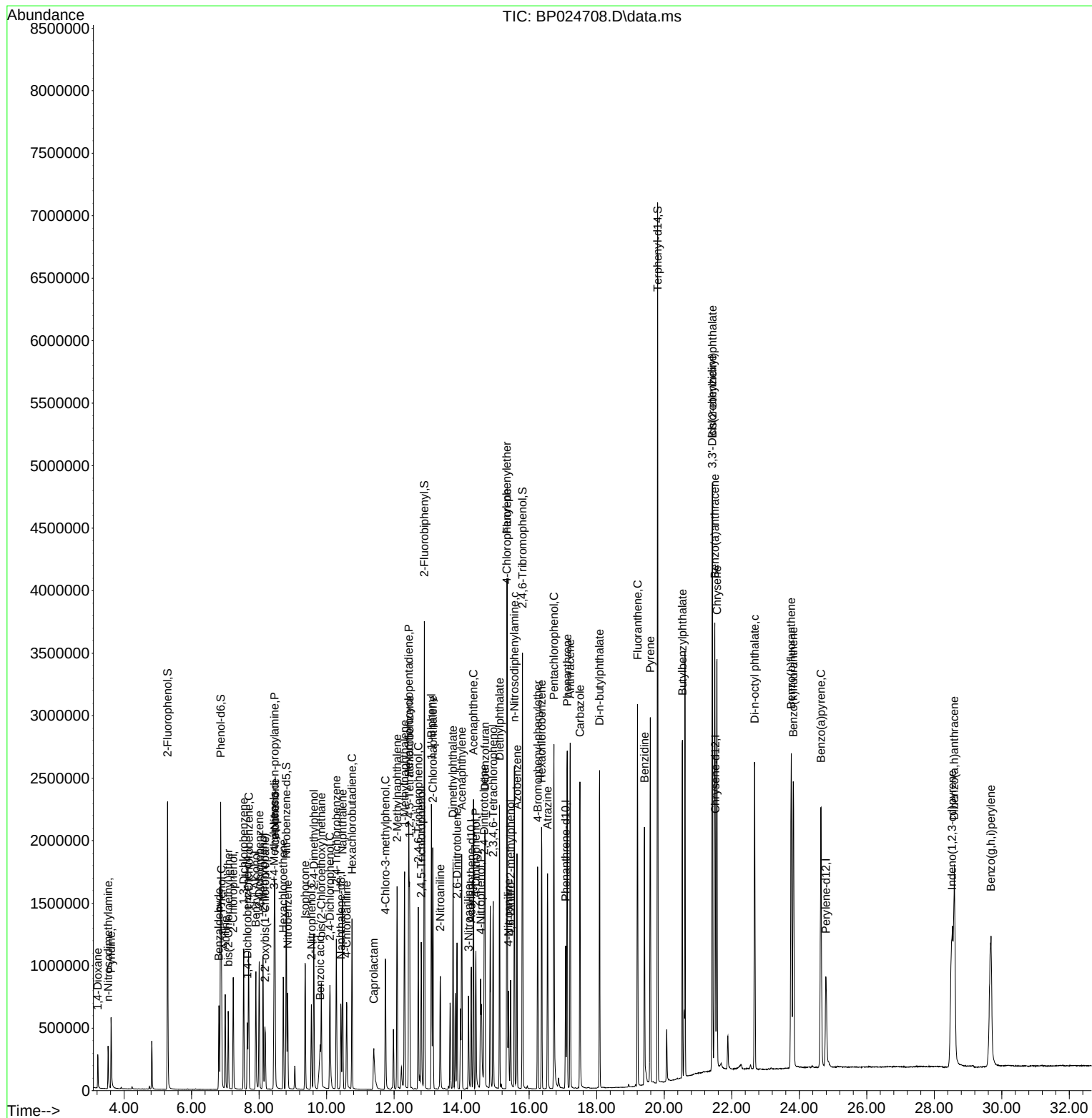
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024708.D
Acq On : 20 May 2025 15:16
Operator : RC/JU
Sample : PB168048BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168048BSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

Quant Time: May 20 15:48:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24MS	SDG No.:	Q2032
Lab Sample ID:	Q2032-05MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	74.2
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		GPC Factor :	1.0
Prep Method :	SW3541	Level :	LOW
		Test:	SVOC-TCL BNA -20
		GPC Cleanup :	N
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024691.D	1	05/16/25 10:00	05/19/25 16:16	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1600		210	440	ug/Kg
108-95-2	Phenol	2100		29.7	230	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1800		32.7	230	ug/Kg
95-57-8	2-Chlorophenol	2100		32.8	230	ug/Kg
95-48-7	2-Methylphenol	2000		40.2	230	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1800		50.5	230	ug/Kg
98-86-2	Acetophenone	1900		39.7	230	ug/Kg
65794-96-9	3+4-Methylphenols	2000		55.3	440	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1800		63.8	110	ug/Kg
67-72-1	Hexachloroethane	1800		23.7	230	ug/Kg
98-95-3	Nitrobenzene	1900		24.6	230	ug/Kg
78-59-1	Isophorone	1900		44.1	230	ug/Kg
88-75-5	2-Nitrophenol	2200		78.3	230	ug/Kg
105-67-9	2,4-Dimethylphenol	2100		87.2	230	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1900		41.5	230	ug/Kg
120-83-2	2,4-Dichlorophenol	2200		38.1	230	ug/Kg
91-20-3	Naphthalene	2000		30.6	230	ug/Kg
106-47-8	4-Chloroaniline	1100		47.6	230	ug/Kg
87-68-3	Hexachlorobutadiene	2000		34.1	230	ug/Kg
105-60-2	Caprolactam	2100		70.1	440	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2100		38.6	230	ug/Kg
91-57-6	2-Methylnaphthalene	2000		34.5	230	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4100	E	160	440	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2200		26.6	230	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2200		39.2	230	ug/Kg
92-52-4	1,1-Biphenyl	2000		29.3	230	ug/Kg
91-58-7	2-Chloronaphthalene	2000		30.3	230	ug/Kg
88-74-4	2-Nitroaniline	2100		64.7	230	ug/Kg
131-11-3	Dimethylphthalate	2000		36.5	230	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24MS	SDG No.:	Q2032
Lab Sample ID:	Q2032-05MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	74.2
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024691.D	1	05/16/25 10:00	05/19/25 16:16	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2000		38.9	230	ug/Kg
606-20-2	2,6-Dinitrotoluene	2000		45.2	230	ug/Kg
99-09-2	3-Nitroaniline	1400		61.9	230	ug/Kg
83-32-9	Acenaphthene	2000		28.7	230	ug/Kg
51-28-5	2,4-Dinitrophenol	4100	E	310	440	ug/Kg
100-02-7	4-Nitrophenol	3900	E	140	440	ug/Kg
132-64-9	Dibenzofuran	2000		30.6	230	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		67.4	230	ug/Kg
84-66-2	Diethylphthalate	2000		38.1	230	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2000		35.9	230	ug/Kg
86-73-7	Fluorene	2000		34.1	230	ug/Kg
100-01-6	4-Nitroaniline	2000		86.4	230	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2200		140	440	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2000		44.3	230	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2100		37.4	230	ug/Kg
118-74-1	Hexachlorobenzene	2000		34.1	230	ug/Kg
1912-24-9	Atrazine	2100		45.8	230	ug/Kg
87-86-5	Pentachlorophenol	4700	E	69.0	440	ug/Kg
85-01-8	Phenanthrene	2000		28.1	230	ug/Kg
120-12-7	Anthracene	2000		44.8	230	ug/Kg
86-74-8	Carbazole	2100		42.0	230	ug/Kg
84-74-2	Di-n-butylphthalate	2200		64.5	230	ug/Kg
206-44-0	Fluoranthene	2100		40.4	230	ug/Kg
129-00-0	Pyrene	2100		48.5	230	ug/Kg
85-68-7	Butylbenzylphthalate	2300		96.1	230	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1600		49.4	440	ug/Kg
56-55-3	Benzo(a)anthracene	2100		31.0	230	ug/Kg
218-01-9	Chrysene	2000		26.8	230	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2300		79.7	230	ug/Kg
117-84-0	Di-n-octyl phthalate	2400		120	440	ug/Kg
205-99-2	Benzo(b)fluoranthene	2100		25.6	230	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24MS	SDG No.:	Q2032
Lab Sample ID:	Q2032-05MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	74.2
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024691.D	1	05/16/25 10:00	05/19/25 16:16	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	2100		30.1	230	ug/Kg
50-32-8	Benzo(a)pyrene	2100		39.7	230	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1900		39.2	230	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2000		36.9	230	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1900		34.6	230	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2100		34.5	230	ug/Kg
123-91-1	1,4-Dioxane	1500		60.8	230	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2100		36.9	230	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	115		18 - 112	77%	SPK: 150
13127-88-3	Phenol-d6	113		15 - 107	76%	SPK: 150
4165-60-0	Nitrobenzene-d5	64.0		18 - 107	64%	SPK: 100
321-60-8	2-Fluorobiphenyl	63.8		20 - 109	64%	SPK: 100
118-79-6	2,4,6-Tribromophenol	118		10 - 116	79%	SPK: 150
1718-51-0	Terphenyl-d14	65.3		10 - 105	65%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	176000	7.652			
1146-65-2	Naphthalene-d8	714000	10.422			
15067-26-2	Acenaphthene-d10	454000	14.287			
1517-22-2	Phenanthrene-d10	903000	17.098			
1719-03-5	Chrysene-d12	993000	21.539			
1520-96-3	Perylene-d12	1070000	24.827			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
 Data File : BP024691.D
 Acq On : 19 May 2025 16:16
 Operator : RC/JU
 Sample : Q2032-05MS
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 TP-24MS

Quant Time: May 19 17:25:47 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.652	152	175701	20.000	ng	-0.01
21) Naphthalene-d8	10.422	136	713844	20.000	ng	-0.01
39) Acenaphthene-d10	14.287	164	453670	20.000	ng	-0.02
64) Phenanthrene-d10	17.098	188	903382	20.000	ng	0.00
76) Chrysene-d12	21.539	240	992797	20.000	ng	0.02
86) Perylene-d12	24.827	264	1067591	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.293	112	1183975	115.255	ng	0.00
7) Phenol-d6	6.864	99	1487465	113.454	ng	0.01
23) Nitrobenzene-d5	8.805	82	904196	64.000	ng	0.00
42) 2,4,6-Tribromophenol	15.822	330	906372	117.848	ng	0.01
45) 2-Fluorobiphenyl	12.899	172	2208156	63.768	ng	0.00
79) Terphenyl-d14	19.834	244	3781697	65.315	ng	0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.223	88	161475	33.475	ng	99
3) Pyridine	3.617	79	397123	37.128	ng	97
4) n-Nitrosodimethylamine	3.529	42	191800	40.618	ng	98
6) Aniline	6.999	93	551407	32.575	ng	99
8) 2-Chlorophenol	7.240	128	544073	46.655	ng	98
9) Benzaldehyde	6.811	77	308267	36.322	ng	99
10) Phenol	6.893	94	627537	46.375	ng	99
11) bis(2-Chloroethyl)ether	7.093	93	452491	40.695	ng	99
12) 1,3-Dichlorobenzene	7.546	146	567795	42.320	ng	99
13) 1,4-Dichlorobenzene	7.693	146	571945	42.384	ng	99
14) 1,2-Dichlorobenzene	8.005	146	553367	42.084	ng	99
15) Benzyl Alcohol	7.905	79	455941	45.763	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.181	45	536108	40.260	ng	99
17) 2-Methylphenol	8.117	107	442728	45.616	ng	98
18) Hexachloroethane	8.722	117	212213	41.038	ng	98
19) n-Nitroso-di-n-propyla...	8.458	70	360456	39.745	ng	99
20) 3+4-Methylphenols	8.446	107	598942	45.367	ng	99
22) Acetophenone	8.475	105	768246	43.084	ng	# 99
24) Nitrobenzene	8.846	77	535124	43.041	ng	96
25) Isophorone	9.369	82	1013860	41.370	ng	99
26) 2-Nitrophenol	9.552	139	299350	49.135	ng	98
27) 2,4-Dimethylphenol	9.628	122	498635	46.422	ng	100
28) bis(2-Chloroethoxy)met...	9.846	93	620045	42.349	ng	99
29) 2,4-Dichlorophenol	10.099	162	511609	49.151	ng	98
30) 1,2,4-Trichlorobenzene	10.293	180	521929	44.496	ng	98
31) Naphthalene	10.475	128	1623285	43.882	ng	99
32) Benzoic acid	9.822	122	335518	45.356	ng	98
33) 4-Chloroaniline	10.599	127	376160	25.199	ng	98
34) Hexachlorobutadiene	10.758	225	337318	44.392	ng	98
35) Caprolactam	11.399	113	173255	46.005	ng	98
36) 4-Chloro-3-methylphenol	11.746	107	580626	45.741	ng	97
37) 2-Methylnaphthalene	12.087	142	1046239	43.679	ng	100
38) 1-Methylnaphthalene	12.310	142	1092307	42.620	ng	99
40) 1,2,4,5-Tetrachloroben...	12.463	216	603629	45.820	ng	100
41) Hexachlorocyclopentadiene	12.440	237	726067	90.891	ng	97
43) 2,4,6-Trichlorophenol	12.716	196	423991	49.689	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
 Data File : BP024691.D
 Acq On : 19 May 2025 16:16
 Operator : RC/JU
 Sample : Q2032-05MS
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 TP-24MS

Quant Time: May 19 17:25:47 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.816	196	467084	49.176	ng	97
46) 1,1'-Biphenyl	13.110	154	1516077	45.214	ng	99
47) 2-Chloronaphthalene	13.152	162	1149183	44.949	ng	99
48) 2-Nitroaniline	13.375	65	350924	46.362	ng	98
49) Acenaphthylene	14.010	152	1930240	45.115	ng	100
50) Dimethylphthalate	13.752	163	1545880	44.706	ng	100
51) 2,6-Dinitrotoluene	13.875	165	332024	45.465	ng	96
52) Acenaphthene	14.357	154	1086088	44.156	ng	99
53) 3-Nitroaniline	14.216	138	227513	30.511	ng	97
54) 2,4-Dinitrophenol	14.434	184	420465	90.400	ng	98
55) Dibenzofuran	14.698	168	1728804	44.065	ng	98
56) 4-Nitrophenol	14.575	139	563852	86.954	ng	98
57) 2,4-Dinitrotoluene	14.675	165	476970	46.327	ng	99
58) Fluorene	15.363	166	1434906	44.854	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.940	232	413945	46.980	ng	97
60) Diethylphthalate	15.140	149	1573648	45.027	ng	100
61) 4-Chlorophenyl-phenyle...	15.357	204	719589	45.105	ng	98
62) 4-Nitroaniline	15.404	138	316195	43.916	ng	96
63) Azobenzene	15.657	77	1319940	44.148	ng	97
65) 4,6-Dinitro-2-methylph...	15.457	198	281086	48.170	ng	98
66) n-Nitrosodiphenylamine	15.581	169	1250329	45.060	ng	99
67) 4-Bromophenyl-phenylether	16.269	248	494366	46.441	ng	100
68) Hexachlorobenzene	16.393	284	611127	45.180	ng	98
69) Atrazine	16.563	200	479320	47.135	ng	100
70) Pentachlorophenol	16.757	266	790871	104.158	ng	99
71) Phenanthrene	17.140	178	2238272	44.569	ng	100
72) Anthracene	17.240	178	2289362	45.309	ng	100
73) Carbazole	17.522	167	2149286	46.997	ng	100
74) Di-n-butylphthalate	18.110	149	2834682	48.196	ng	99
75) Fluoranthene	19.228	202	2761747	47.045	ng	100
77) Benzidine	19.445	184	1173958	43.416	ng	99
78) Pyrene	19.604	202	2767694	46.527	ng	99
80) Butylbenzylphthalate	20.563	149	1339615	50.636	ng	97
81) Benzo(a)anthracene	21.516	228	2890751	46.371	ng	99
82) 3,3'-Dichlorobenzidine	21.445	252	819615	35.398	ng	99
83) Chrysene	21.586	228	2696533	45.631	ng	100
84) Bis(2-ethylhexyl)phtha...	21.451	149	1991784	51.222	ng	99
85) Di-n-octyl phthalate	22.698	149	3420415	53.790	ng	99
87) Indeno(1,2,3-cd)pyrene	28.568	276	3374918	43.301	ng	# 92
88) Benzo(b)fluoranthene	23.780	252	2841716	46.504	ng	99
89) Benzo(k)fluoranthene	23.857	252	2948981	46.834	ng	100
90) Benzo(a)pyrene	24.686	252	2682066	45.700	ng	99
91) Dibenzo(a,h)anthracene	28.639	278	2765872	43.621	ng	99
92) Benzo(g,h,i)perylene	29.704	276	2666340	42.286	ng	99

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

Instrument :
BNA_P
ClientSampleId :
TP-24MS

Abundance

TIC: BP024691.D\data.ms

Time-->

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24MSD	SDG No.:	Q2032
Lab Sample ID:	Q2032-06MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	74.2
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	N
Injection Volume :		Level :	LOW
		GPC Factor :	1.0
		GPC Cleanup :	N
		PH :	
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024692.D	1	05/16/25 10:00	05/19/25 16:57	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1500		210	440	ug/Kg
108-95-2	Phenol	1800		29.7	230	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		32.7	230	ug/Kg
95-57-8	2-Chlorophenol	1900		32.8	230	ug/Kg
95-48-7	2-Methylphenol	1800		40.2	230	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1600		50.4	230	ug/Kg
98-86-2	Acetophenone	1800		39.7	230	ug/Kg
65794-96-9	3+4-Methylphenols	1700		55.2	440	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		63.7	110	ug/Kg
67-72-1	Hexachloroethane	1700		23.7	230	ug/Kg
98-95-3	Nitrobenzene	1800		24.6	230	ug/Kg
78-59-1	Isophorone	1700		44.1	230	ug/Kg
88-75-5	2-Nitrophenol	2000		78.2	230	ug/Kg
105-67-9	2,4-Dimethylphenol	1900		87.1	230	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1700		41.4	230	ug/Kg
120-83-2	2,4-Dichlorophenol	1900		38.0	230	ug/Kg
91-20-3	Naphthalene	1800		30.5	230	ug/Kg
106-47-8	4-Chloroaniline	980		47.6	230	ug/Kg
87-68-3	Hexachlorobutadiene	1900		34.0	230	ug/Kg
105-60-2	Caprolactam	1500		70.0	440	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1700		38.6	230	ug/Kg
91-57-6	2-Methylnaphthalene	1700		34.4	230	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4300	E	160	440	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2000		26.6	230	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2000		39.1	230	ug/Kg
92-52-4	1,1-Biphenyl	2000		29.3	230	ug/Kg
91-58-7	2-Chloronaphthalene	2000		30.2	230	ug/Kg
88-74-4	2-Nitroaniline	1800		64.7	230	ug/Kg
131-11-3	Dimethylphthalate	1700		36.4	230	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24MSD	SDG No.:	Q2032
Lab Sample ID:	Q2032-06MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	74.2
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024692.D	1	05/16/25 10:00	05/19/25 16:57	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1900		38.8	230	ug/Kg
606-20-2	2,6-Dinitrotoluene	1800		45.2	230	ug/Kg
99-09-2	3-Nitroaniline	1100		61.8	230	ug/Kg
83-32-9	Acenaphthene	1800		28.6	230	ug/Kg
51-28-5	2,4-Dinitrophenol	3200		310	440	ug/Kg
100-02-7	4-Nitrophenol	2700		140	440	ug/Kg
132-64-9	Dibenzofuran	1800		30.5	230	ug/Kg
121-14-2	2,4-Dinitrotoluene	1700		67.3	230	ug/Kg
84-66-2	Diethylphthalate	1600		38.0	230	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1800		35.9	230	ug/Kg
86-73-7	Fluorene	1700		34.0	230	ug/Kg
100-01-6	4-Nitroaniline	1400		86.3	230	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2000		140	440	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2100		44.2	230	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2100		37.4	230	ug/Kg
118-74-1	Hexachlorobenzene	2000		34.0	230	ug/Kg
1912-24-9	Atrazine	1900		45.7	230	ug/Kg
87-86-5	Pentachlorophenol	4000	E	69.0	440	ug/Kg
85-01-8	Phenanthrene	1900		28.1	230	ug/Kg
120-12-7	Anthracene	1900		44.8	230	ug/Kg
86-74-8	Carbazole	1800		41.9	230	ug/Kg
84-74-2	Di-n-butylphthalate	1800		64.4	230	ug/Kg
206-44-0	Fluoranthene	1700		40.3	230	ug/Kg
129-00-0	Pyrene	1900		48.4	230	ug/Kg
85-68-7	Butylbenzylphthalate	2000		96.0	230	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1700		49.3	440	ug/Kg
56-55-3	Benzo(a)anthracene	1900		30.9	230	ug/Kg
218-01-9	Chrysene	1900		26.7	230	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2000		79.6	230	ug/Kg
117-84-0	Di-n-octyl phthalate	2100		120	440	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		25.5	230	ug/Kg

Report of Analysis

Client:	CDM Smith	Date Collected:	05/13/25
Project:	South River WM Replacement	Date Received:	05/13/25
Client Sample ID:	TP-24MSD	SDG No.:	Q2032
Lab Sample ID:	Q2032-06MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	74.2
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024692.D	1	05/16/25 10:00	05/19/25 16:57	PB168041

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1900		30.1	230	ug/Kg
50-32-8	Benzo(a)pyrene	1900		39.7	230	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2100		39.1	230	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2100		36.8	230	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2100		34.5	230	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2000		34.4	230	ug/Kg
123-91-1	1,4-Dioxane	1500		60.8	230	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		36.8	230	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	105		18 - 112	70%	SPK: 150
13127-88-3	Phenol-d6	101		15 - 107	67%	SPK: 150
4165-60-0	Nitrobenzene-d5	60.4		18 - 107	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	62.3		20 - 109	62%	SPK: 100
118-79-6	2,4,6-Tribromophenol	92.9		10 - 116	62%	SPK: 150
1718-51-0	Terphenyl-d14	59.3		10 - 105	59%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	197000	7.658			
1146-65-2	Naphthalene-d8	749000	10.428			
15067-26-2	Acenaphthene-d10	420000	14.287			
1517-22-2	Phenanthrene-d10	679000	17.087			
1719-03-5	Chrysene-d12	639000	21.527			
1520-96-3	Perylene-d12	839000	24.81			

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
 Data File : BP024692.D
 Acq On : 19 May 2025 16:57
 Operator : RC/JU
 Sample : Q2032-06MSD
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 TP-24MSD

Quant Time: May 19 17:27:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.658	152	196921	20.000	ng	0.00
21) Naphthalene-d8	10.428	136	749405	20.000	ng	0.00
39) Acenaphthene-d10	14.287	164	420201	20.000	ng	-0.02
64) Phenanthrene-d10	17.087	188	679242	20.000	ng	-0.01
76) Chrysene-d12	21.527	240	638666	20.000	ng	0.00
86) Perylene-d12	24.810	264	839473	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.293	112	1209381	105.041	ng	0.00
7) Phenol-d6	6.864	99	1478895	100.645	ng	0.01
23) Nitrobenzene-d5	8.805	82	896488	60.443	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	661723	92.891	ng	0.00
45) 2-Fluorobiphenyl	12.899	172	1999584	62.344	ng	0.00
79) Terphenyl-d14	19.810	244	2209762	59.328	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.223	88	181724	33.613	ng	Qvalue 99
3) Pyridine	3.617	79	438532	36.581	ng	97
4) n-Nitrosodimethylamine	3.528	42	205615	38.851	ng	98
6) Aniline	6.999	93	585413	30.857	ng	100
8) 2-Chlorophenol	7.240	128	548558	41.970	ng	98
9) Benzaldehyde	6.811	77	321210	33.769	ng	99
10) Phenol	6.893	94	625410	41.237	ng	98
11) bis(2-Chloroethyl)ether	7.093	93	463977	37.231	ng	100
12) 1,3-Dichlorobenzene	7.546	146	599570	39.872	ng	99
13) 1,4-Dichlorobenzene	7.693	146	606670	40.113	ng	100
14) 1,2-Dichlorobenzene	8.005	146	576717	39.134	ng	99
15) Benzyl Alcohol	7.905	79	446064	39.947	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.181	45	548786	36.771	ng	98
17) 2-Methylphenol	8.116	107	428153	39.361	ng	99
18) Hexachloroethane	8.722	117	223961	38.643	ng	98
19) n-Nitroso-di-n-propyla...	8.458	70	347741	34.211	ng	99
20) 3+4-Methylphenols	8.446	107	565346	38.208	ng	97
22) Acetophenone	8.475	105	756270	40.400	ng	# 98
24) Nitrobenzene	8.852	77	529357	40.556	ng	96
25) Isophorone	9.369	82	957993	37.236	ng	99
26) 2-Nitrophenol	9.552	139	290801	45.467	ng	98
27) 2,4-Dimethylphenol	9.628	122	466977	41.412	ng	99
28) bis(2-Chloroethoxy)met...	9.846	93	598373	38.929	ng	99
29) 2,4-Dichlorophenol	10.099	162	472255	43.217	ng	98
30) 1,2,4-Trichlorobenzene	10.293	180	519399	42.179	ng	98
31) Naphthalene	10.475	128	1590199	40.948	ng	100
32) Benzoic acid	9.816	122	282685	37.875	ng	97
33) 4-Chloroaniline	10.593	127	341133	21.769	ng	99
34) Hexachlorobutadiene	10.757	225	336503	42.183	ng	99
35) Caprolactam	11.393	113	133067	33.657	ng	99
36) 4-Chloro-3-methylphenol	11.746	107	506053	37.975	ng	99
37) 2-Methylnaphthalene	12.087	142	977131	38.858	ng	99
38) 1-Methylnaphthalene	12.310	142	1020992	37.947	ng	99
40) 1,2,4,5-Tetrachloroben...	12.463	216	557424	45.682	ng	99
41) Hexachlorocyclopentadiene	12.440	237	711281	96.132	ng	96
43) 2,4,6-Trichlorophenol	12.716	196	357272	45.204	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\
 Data File : BP024692.D
 Acq On : 19 May 2025 16:57
 Operator : RC/JU
 Sample : Q2032-06MSD
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 TP-24MSD

Quant Time: May 19 17:27:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 13 16:21:39 2025
 Response via : Initial Calibration

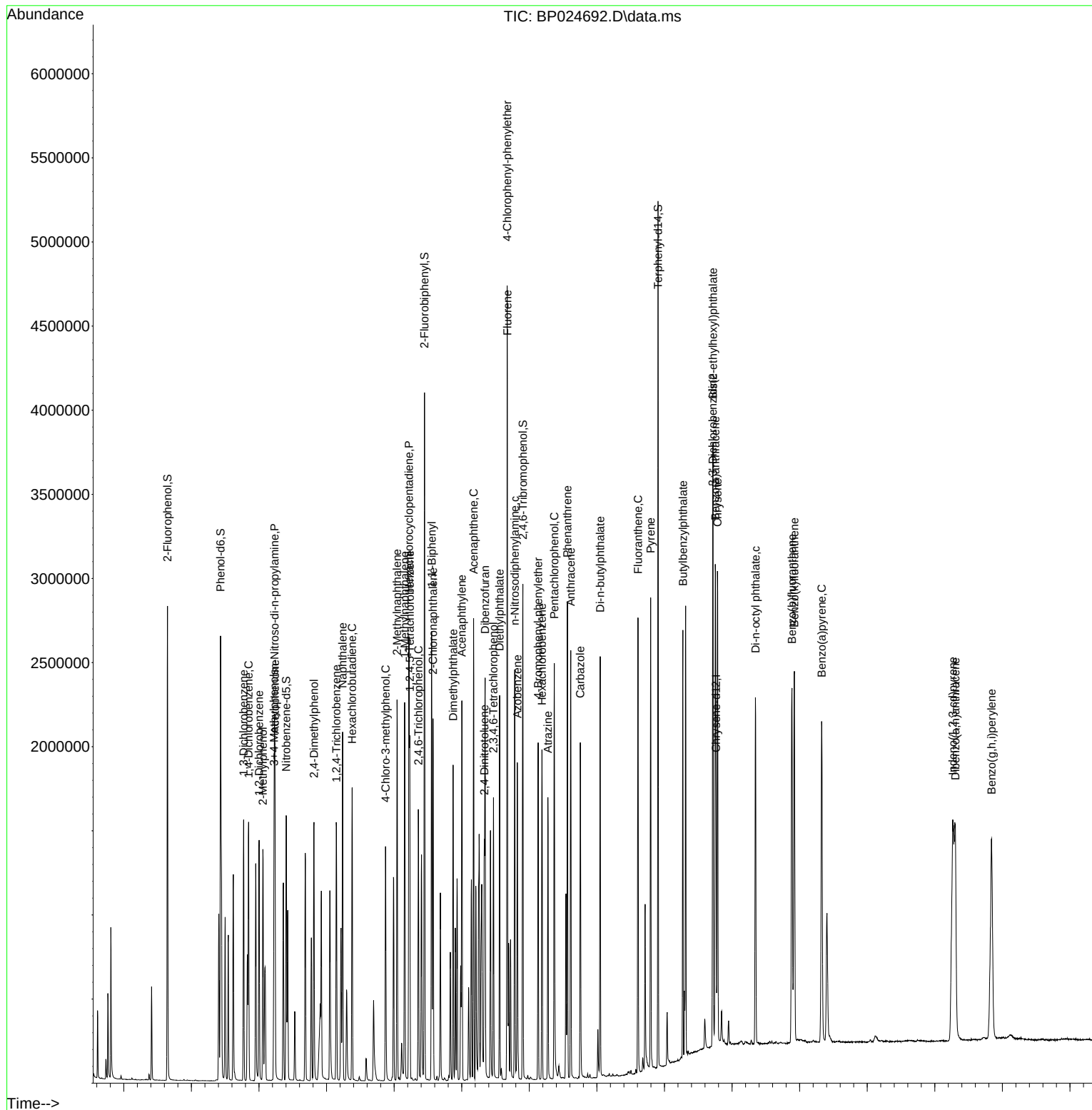
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.810	196	388038	44.107	ng	98
46) 1,1'-Biphenyl	13.110	154	1363337	43.897	ng	99
47) 2-Chloronaphthalene	13.151	162	1031049	43.540	ng	100
48) 2-Nitroaniline	13.369	65	280282	39.978	ng	98
49) Acenaphthylene	14.004	152	1644347	41.494	ng	99
50) Dimethylphthalate	13.746	163	1226815	38.305	ng	100
51) 2,6-Dinitrotoluene	13.863	165	264271	39.070	ng	99
52) Acenaphthene	14.351	154	924318	40.572	ng	100
53) 3-Nitroaniline	14.204	138	167821	24.299	ng	99
54) 2,4-Dinitrophenol	14.422	184	303159	71.789	ng	95
55) Dibenzofuran	14.693	168	1423464	39.172	ng	98
56) 4-Nitrophenol	14.575	139	354661	60.409	ng	99
57) 2,4-Dinitrotoluene	14.669	165	352898	37.006	ng	97
58) Fluorene	15.351	166	1151688	38.869	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.940	232	313160	38.372	ng	96
60) Diethylphthalate	15.122	149	1185410	36.620	ng	99
61) 4-Chlorophenyl-phenyle...	15.345	204	581085	39.324	ng	99
62) 4-Nitroaniline	15.392	138	207171	31.065	ng	96
63) Azobenzene	15.645	77	1052163	37.995	ng	98
65) 4,6-Dinitro-2-methylph...	15.445	198	192444	43.862	ng	98
66) n-Nitrosodiphenylamine	15.569	169	959522	45.990	ng	99
67) 4-Bromophenyl-phenylether	16.263	248	379814	47.454	ng	97
68) Hexachlorobenzene	16.375	284	461671	45.394	ng	98
69) Atrazine	16.551	200	316051	41.336	ng	98
70) Pentachlorophenol	16.739	266	507077	88.819	ng	98
71) Phenanthrene	17.128	178	1575554	41.726	ng	100
72) Anthracene	17.228	178	1580121	41.592	ng	100
73) Carbazole	17.510	167	1346907	39.171	ng	100
74) Di-n-butylphthalate	18.098	149	1803089	40.773	ng	100
75) Fluoranthene	19.216	202	1639877	37.153	ng	100
77) Benzidine	19.428	184	663223	38.128	ng	100
78) Pyrene	19.592	202	1652101	43.173	ng	100
80) Butylbenzylphthalate	20.545	149	744559	43.748	ng	93
81) Benzo(a)anthracene	21.504	228	1678348	41.851	ng	99
82) 3,3'-Dichlorobenzidine	21.427	252	551554	37.029	ng	100
83) Chrysene	21.569	228	1612852	42.426	ng	100
84) Bis(2-ethylhexyl)phtha...	21.433	149	1101805	44.046	ng	99
85) Di-n-octyl phthalate	22.692	149	1924172	47.038	ng	99
87) Indeno(1,2,3-cd)pyrene	28.533	276	2833559	46.235	ng	# 91
88) Benzo(b)fluoranthene	23.774	252	2008973	41.810	ng	98
89) Benzo(k)fluoranthene	23.845	252	2050124	41.406	ng	99
90) Benzo(a)pyrene	24.651	252	1964741	42.575	ng	99
91) Dibenzo(a,h)anthracene	28.609	278	2330309	46.738	ng	99
92) Benzo(g,h,i)perylene	29.680	276	2295562	46.299	ng	100

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


```
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051925\  
Data File : BP024692.D  
Acq On    : 19 May 2025  16:57  
Operator  : RC/JU  
Sample    : Q2032-06MSD  
Misc      :  
ALS Vial  : 8    Sample Multiplier: 1
```

Instrument :
BNA_P
ClientSampleId :
TP-24MSD

Quant Time: May 19 17:27:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	bf050525	Instrument	BNA_f

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

Manual Integration Report

Sequence:	bf050525	Instrument	BNA_f

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

Manual Integration Report

Sequence:	bf050525	Instrument	BNA_f

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



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Manual Integration Report

Sequence:

BF051925

Instrument

BNA_f

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	BP051325	Instrument	BNA_p

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

Manual Integration Report

Sequence:

BP051325

Instrument

BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICCC040	BP024618.D	Benzoic acid	Rahul	5/14/2025 2:19:48 PM	Jagrut	5/14/2025 5:16:12 PM	Peak Integrated by Software
SSTDICC080	BP024621.D	Indeno(1,2,3-cd)pyrene	Rahul	5/14/2025 2:19:51 PM	Jagrut	5/14/2025 5:16:14 PM	Peak Integrated by Software
SSTDICV040	BP024622.D	Indeno(1,2,3-cd)pyrene	Rahul	5/14/2025 2:19:57 PM	Jagrut	5/14/2025 5:16:17 PM	Peak Integrated by Software



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Manual Integration Report

Sequence:

BP051925

Instrument

BNA_p

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

bp052025

Instrument

BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB168048BSD	BP024708.D	Benzoic acid	Rahul	5/21/2025 1:16:07 PM	Jagrut	5/21/2025 4:42:51 PM	Peak Integrated by Software
SSTDCCC040	BP024735.D	Benzoic acid	Rahul	5/21/2025 1:16:15 PM	Jagrut	5/21/2025 4:43:03 PM	Peak Integrated by Software

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF050525

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

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

M : Manual Integration

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QCBatch ID # BF051925

Review By	Rahul	Review On	5/20/2025 12:03:13 PM
Supervise By	Jagrut	Supervise On	5/20/2025 12:15:22 PM
SubDirectory	BF051925	HP Acquire Method	BNA_F
		HP Processing Method	bf050525
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791		
CCC	SP6787		
Internal Standard/PEM	S12665,10ul/1000ul sample		
ICV/I.BLK	SP6770		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF142440.D	19 May 2025 09:40	RC/JU	Ok
2	SSTDCCC040	BF142441.D	19 May 2025 10:09	RC/JU	Ok
3	PB168017BL	BF142442.D	19 May 2025 10:38	RC/JU	Ok
4	PB168017BS	BF142443.D	19 May 2025 11:07	RC/JU	Ok,M
5	PB167987BL	BF142444.D	19 May 2025 11:36	RC/JU	Ok
6	PB167987BS	BF142445.D	19 May 2025 12:05	RC/JU	Ok,M
7	Q2032-01	BF142446.D	19 May 2025 12:39	RC/JU	Ok
8	Q2032-02	BF142447.D	19 May 2025 13:08	RC/JU	Ok
9	Q2032-03	BF142448.D	19 May 2025 13:37	RC/JU	Ok
10	Q2048-01	BF142449.D	19 May 2025 14:06	RC/JU	Ok
11	Q2032-07	BF142450.D	19 May 2025 14:35	RC/JU	Ok
12	Q2032-08	BF142451.D	19 May 2025 15:04	RC/JU	Ok
13	Q2057-01	BF142452.D	19 May 2025 15:33	RC/JU	Ok
14	Q1984-03	BF142453.D	19 May 2025 16:02	RC/JU	Not Ok
15	Q2047-01	BF142454.D	19 May 2025 16:31	RC/JU	Ok,M
16	Q2062-01	BF142455.D	19 May 2025 17:00	RC/JU	Ok
17	Q2062-05	BF142456.D	19 May 2025 17:29	RC/JU	Ok,M
18	Q2062-09	BF142457.D	19 May 2025 17:58	RC/JU	Ok,M
19	Q2062-13	BF142458.D	19 May 2025 18:27	RC/JU	Ok,M
20	Q2062-17	BF142459.D	19 May 2025 18:56	RC/JU	Ok
21	Q2062-21	BF142460.D	19 May 2025 19:25	RC/JU	Ok,M

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF051925

Review By	Rahul	Review On	5/20/2025 12:03:13 PM		
Supervise By	Jagrut	Supervise On	5/20/2025 12:15:22 PM		
SubDirectory	BF051925	HP Acquire Method	BNA_F	HP Processing Method	bf050525
STD. NAME		STD REF.#			
Tune/Reschk		SP6757			
Initial Calibration Stds		SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791			
CCC		SP6787			
Internal Standard/PEM		S12665,10ul/1000ul sample			
ICV/I.BLK		SP6770			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1984-09	BF142461.D	19 May 2025 19:54	RC/JU	Not Ok
23	Q1984-13	BF142462.D	19 May 2025 20:23	RC/JU	Not Ok
24	Q2071-17	BF142463.D	19 May 2025 20:52	RC/JU	Ok
25	SSTDCCC040	BF142464.D	19 May 2025 21:21	RC/JU	Not Ok

M : Manual Integration

Instrument ID: **BNA_P**

Daily Analysis Runlog For Sequence/QC Batch ID # BP051325

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

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

M : Manual Integration

Instrument ID: **BNA_P**

Daily Analysis Runlog For Sequence/QC Batch ID # BP051925

Review By	Rahul	Review On	5/20/2025 12:12:48 PM
Supervise By	Jagrut	Supervise On	5/20/2025 12:13:02 PM
SubDirectory	BP051925	HP Acquire Method	BNA_P
		HP Processing Method	BP051325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791		
CCC	SP6787		
Internal Standard/PEM	S12665,10ul/1000ul sample		
ICV/I.BLK	SP6770		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP024685.D	19 May 2025 11:26	RC/JU	Ok
2	SSTDCCC040	BP024686.D	19 May 2025 12:48	RC/JU	Ok
3	PB167963TB	BP024687.D	19 May 2025 13:28	RC/JU	Ok
4	PB168041BL	BP024688.D	19 May 2025 14:09	RC/JU	Ok
5	PB168041BS	BP024689.D	19 May 2025 14:50	RC/JU	Ok
6	Q2032-04	BP024690.D	19 May 2025 15:35	RC/JU	Ok
7	Q2032-05MS	BP024691.D	19 May 2025 16:16	RC/JU	Ok
8	Q2032-06MSD	BP024692.D	19 May 2025 16:57	RC/JU	Ok
9	Q2032-11	BP024693.D	19 May 2025 17:38	RC/JU	ReRun
10	Q2033-01	BP024694.D	19 May 2025 18:19	RC/JU	Ok,M
11	Q2068-03	BP024695.D	19 May 2025 18:59	RC/JU	Ok
12	Q2067-01	BP024696.D	19 May 2025 19:40	RC/JU	Dilution
13	Q2070-01	BP024697.D	19 May 2025 20:21	RC/JU	Ok
14	Q2071-09	BP024698.D	19 May 2025 21:02	RC/JU	Ok
15	Q2071-01	BP024699.D	19 May 2025 21:43	RC/JU	Ok
16	Q2071-05	BP024700.D	19 May 2025 22:24	RC/JU	Ok
17	Q2065-01	BP024701.D	19 May 2025 23:04	RC/JU	ReRun

M : Manual Integration

Instrument ID: **BNA_P**

Daily Analysis Runlog For Sequence/QC Batch ID # BP052025

Review By	Rahul	Review On	5/21/2025 1:31:28 PM
Supervise By	Jagrut	Supervise On	5/21/2025 4:43:18 PM
SubDirectory	BP052025	HP Acquire Method	BNA_P
		HP Processing Method	BP051325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791		
CCC	SP6787		
Internal Standard/PEM	S12665,10ul/1000ul sample		
ICV/I.BLK	SP6770		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP024702.D	20 May 2025 10:31	RC/JU	Ok
2	SSTDCCC040	BP024703.D	20 May 2025 11:52	RC/JU	Ok
3	PB168052BL	BP024704.D	20 May 2025 12:33	RC/JU	Ok
4	PB168052BS	BP024705.D	20 May 2025 13:14	RC/JU	Ok
5	PB168048BL	BP024706.D	20 May 2025 13:55	RC/JU	Ok
6	PB168048BS	BP024707.D	20 May 2025 14:35	RC/JU	Ok
7	PB168048BSD	BP024708.D	20 May 2025 15:16	RC/JU	Ok,M
8	Q2071-13	BP024709.D	20 May 2025 15:57	RC/JU	Ok
9	Q2071-13MS	BP024710.D	20 May 2025 16:38	RC/JU	Ok
10	Q2071-13MSD	BP024711.D	20 May 2025 17:19	RC/JU	Ok
11	Q2064-01	BP024712.D	20 May 2025 17:59	RC/JU	Ok
12	Q2064-04	BP024713.D	20 May 2025 18:40	RC/JU	Ok
13	Q2064-05	BP024714.D	20 May 2025 19:21	RC/JU	Ok,M
14	Q2064-08	BP024715.D	20 May 2025 20:02	RC/JU	Ok
15	Q2032-11	BP024716.D	20 May 2025 20:42	RC/JU	Ok
16	Q2065-01	BP024717.D	20 May 2025 21:23	RC/JU	Ok,M
17	SSTDCCC040	BP024718.D	20 May 2025 22:04	RC/JU	Ok
18	DFTPP	BP024719.D	21 May 2025 00:06	RC/JU	Ok
19	SSTDCCC040	BP024720.D	21 May 2025 00:47	RC/JU	Ok
20	PB168033TB	BP024721.D	21 May 2025 01:28	RC/JU	Ok
21	Q2067-01DL	BP024722.D	21 May 2025 02:08	RC/JU	Ok

Instrument ID: **BNA_P**

Daily Analysis Runlog For Sequence/QC Batch ID # BP052025

Review By	Rahul	Review On	5/21/2025 1:31:28 PM
Supervise By	Jagrut	Supervise On	5/21/2025 4:43:18 PM
SubDirectory	BP052025	HP Acquire Method	BNA_P
		HP Processing Method	BP051325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791		
CCC	SP6787		
Internal Standard/PEM	S12665,10ul/1000ul sample		
ICV/I.BLK	SP6770		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q1984-03	BP024723.D	21 May 2025 02:49	RC/JU	Ok
23	Q1984-09	BP024724.D	21 May 2025 03:30	RC/JU	Ok
24	Q1984-13RX	BP024725.D	21 May 2025 04:10	RC/JU	Confirms
25	Q2057-04	BP024726.D	21 May 2025 04:51	RC/JU	Ok
26	Q2062-04	BP024727.D	21 May 2025 05:31	RC/JU	Ok
27	Q2062-08	BP024728.D	21 May 2025 06:12	RC/JU	Ok
28	Q2062-12	BP024729.D	21 May 2025 06:53	RC/JU	Ok
29	Q2062-16	BP024730.D	21 May 2025 07:33	RC/JU	Ok
30	Q2062-20	BP024731.D	21 May 2025 08:14	RC/JU	Ok
31	Q2062-24	BP024732.D	21 May 2025 08:54	RC/JU	Ok
32	Q2080-06	BP024733.D	21 May 2025 09:35	RC/JU	Ok
33	Q2080-12	BP024734.D	21 May 2025 10:16	RC/JU	Ok
34	SSTDCCC040	BP024735.D	21 May 2025 10:56	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF050525

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

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

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

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF051925

Review By	Rahul	Review On	5/20/2025 12:03:13 PM
Supervise By	Jagrut	Supervise On	5/20/2025 12:15:22 PM
SubDirectory	BF051925	HP Acquire Method	BNA_F
		HP Processing Method	bf050525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12665,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF142440.D	19 May 2025 09:40		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF142441.D	19 May 2025 10:09		RC/JU	Ok
3	PB168017BL	PB168017BL	BF142442.D	19 May 2025 10:38		RC/JU	Ok
4	PB168017BS	PB168017BS	BF142443.D	19 May 2025 11:07		RC/JU	Ok,M
5	PB167987BL	PB167987BL	BF142444.D	19 May 2025 11:36		RC/JU	Ok
6	PB167987BS	PB167987BS	BF142445.D	19 May 2025 12:05		RC/JU	Ok,M
7	Q2032-01	TP-11	BF142446.D	19 May 2025 12:39		RC/JU	Ok
8	Q2032-02	TP-29	BF142447.D	19 May 2025 13:08		RC/JU	Ok
9	Q2032-03	TP-29-99	BF142448.D	19 May 2025 13:37		RC/JU	Ok
10	Q2048-01	L2-WC-1	BF142449.D	19 May 2025 14:06		RC/JU	Ok
11	Q2032-07	TP-37	BF142450.D	19 May 2025 14:35		RC/JU	Ok
12	Q2032-08	TP-32	BF142451.D	19 May 2025 15:04		RC/JU	Ok
13	Q2057-01	MH-L	BF142452.D	19 May 2025 15:33		RC/JU	Ok
14	Q1984-03	OU4-PCS-TC-34-05072	BF142453.D	19 May 2025 16:02	End CCC not okay	RC/JU	Not Ok
15	Q2047-01	SU-04-051425	BF142454.D	19 May 2025 16:31		RC/JU	Ok,M
16	Q2062-01	L1-WC-1	BF142455.D	19 May 2025 17:00		RC/JU	Ok
17	Q2062-05	L1-WC-2	BF142456.D	19 May 2025 17:29		RC/JU	Ok,M
18	Q2062-09	L1-WC-3	BF142457.D	19 May 2025 17:58		RC/JU	Ok,M

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF051925

Review By	Rahul	Review On	5/20/2025 12:03:13 PM
Supervise By	Jagrut	Supervise On	5/20/2025 12:15:22 PM
SubDirectory	BF051925	HP Acquire Method	BNA_F
		HP Processing Method	bf050525

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	SP6757 SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6787 S12665,10ul/1000ul sample SP6770

19	Q2062-13	L1-WC-4	BF142458.D	19 May 2025 18:27		RC/JU	Ok,M
20	Q2062-17	L1-WC-5	BF142459.D	19 May 2025 18:56		RC/JU	Ok
21	Q2062-21	L1-WC-6	BF142460.D	19 May 2025 19:25	Internal standard fail	RC/JU	Ok,M
22	Q1984-09	OU4-TS-25-050725	BF142461.D	19 May 2025 19:54	End CCC not okay	RC/JU	Not Ok
23	Q1984-13	OU4-TS-27-050725	BF142462.D	19 May 2025 20:23	End CCC not okay	RC/JU	Not Ok
24	Q2071-17	L2-WC-6	BF142463.D	19 May 2025 20:52	Internal standard fail	RC/JU	Ok
25	SSTDCCC040	SSTDCCC040EC	BF142464.D	19 May 2025 21:21	Internal Standard Fail	RC/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QC Batch ID # BP051325

Review By	Rahul	Review On	5/14/2025 2:20:20 PM
Supervise By	Jagrut	Supervise On	5/14/2025 5:16:42 PM
SubDirectory	BP051325	HP Acquire Method	BNA_P
		HP Processing Method	bp051325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12664,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP024613.D	13 May 2025 10:00		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BP024614.D	13 May 2025 10:41		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BP024615.D	13 May 2025 11:22	Compound#32-54-56-65-77 removed from 5 ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BP024616.D	13 May 2025 12:03		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BP024617.D	13 May 2025 12:43		RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BP024618.D	13 May 2025 13:24	Compound#32-54-56 Kept on LR	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BP024619.D	13 May 2025 14:05		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BP024620.D	13 May 2025 14:45		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BP024621.D	13 May 2025 15:26		RC/JU	Ok,M
10	SSTDICV040	ICVBP051325	BP024622.D	13 May 2025 17:01		RC/JU	Ok,M
11	PB167917TB	PB167917TB	BP024623.D	13 May 2025 18:23		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QC Batch ID # BP051925

Review By	Rahul	Review On	5/20/2025 12:12:48 PM
Supervise By	Jagrut	Supervise On	5/20/2025 12:13:02 PM
SubDirectory	BP051925	HP Acquire Method	BNA_P
		HP Processing Method	BP051325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12665,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP024685.D	19 May 2025 11:26		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BP024686.D	19 May 2025 12:48		RC/JU	Ok
3	PB167963TB	PB167963TB	BP024687.D	19 May 2025 13:28		RC/JU	Ok
4	PB168041BL	PB168041BL	BP024688.D	19 May 2025 14:09		RC/JU	Ok
5	PB168041BS	PB168041BS	BP024689.D	19 May 2025 14:50		RC/JU	Ok
6	Q2032-04	TP-24	BP024690.D	19 May 2025 15:35		RC/JU	Ok
7	Q2032-05MS	TP-24MS	BP024691.D	19 May 2025 16:16		RC/JU	Ok
8	Q2032-06MSD	TP-24MSD	BP024692.D	19 May 2025 16:57		RC/JU	Ok
9	Q2032-11	FB-05132025	BP024693.D	19 May 2025 17:38	Internal Standard Fail	RC/JU	ReRun
10	Q2033-01	TW-WTS-08	BP024694.D	19 May 2025 18:19		RC/JU	Ok,M
11	Q2068-03	LAW-25-0074	BP024695.D	19 May 2025 18:59	Surrogate Fail	RC/JU	Ok
12	Q2067-01	303-PPR-FRAC	BP024696.D	19 May 2025 19:40	Need 2X Dilution	RC/JU	Dilution
13	Q2070-01	CONCRETE-PAD-0516	BP024697.D	19 May 2025 20:21		RC/JU	Ok
14	Q2071-09	L1-WC-9	BP024698.D	19 May 2025 21:02		RC/JU	Ok
15	Q2071-01	L1-WC-7	BP024699.D	19 May 2025 21:43		RC/JU	Ok
16	Q2071-05	L1-WC-8	BP024700.D	19 May 2025 22:24		RC/JU	Ok
17	Q2065-01	VACTRUCK-728068	BP024701.D	19 May 2025 23:04	Internal Standard Fail	RC/JU	ReRun

M : Manual Integration

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QC Batch ID # BP052025

Review By	Rahul	Review On	5/21/2025 1:31:28 PM
Supervise By	Jagrut	Supervise On	5/21/2025 4:43:18 PM
SubDirectory	BP052025	HP Acquire Method	BNA_P
		HP Processing Method	BP051325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12665,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP024702.D	20 May 2025 10:31		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BP024703.D	20 May 2025 11:52		RC/JU	Ok
3	PB168052BL	PB168052BL	BP024704.D	20 May 2025 12:33		RC/JU	Ok
4	PB168052BS	PB168052BS	BP024705.D	20 May 2025 13:14		RC/JU	Ok
5	PB168048BL	PB168048BL	BP024706.D	20 May 2025 13:55		RC/JU	Ok
6	PB168048BS	PB168048BS	BP024707.D	20 May 2025 14:35		RC/JU	Ok
7	PB168048BSD	PB168048BSD	BP024708.D	20 May 2025 15:16		RC/JU	Ok,M
8	Q2071-13	L2-WC-5	BP024709.D	20 May 2025 15:57		RC/JU	Ok
9	Q2071-13MS	L2-WC-5MS	BP024710.D	20 May 2025 16:38		RC/JU	Ok
10	Q2071-13MSD	L2-WC-5MSD	BP024711.D	20 May 2025 17:19		RC/JU	Ok
11	Q2064-01	RW8-SP100-70-202505	BP024712.D	20 May 2025 17:59		RC/JU	Ok
12	Q2064-04	RW8-SP303-70-202505	BP024713.D	20 May 2025 18:40		RC/JU	Ok
13	Q2064-05	RW8-SP100-90-202505	BP024714.D	20 May 2025 19:21		RC/JU	Ok,M
14	Q2064-08	RW8-SP303-90-202505	BP024715.D	20 May 2025 20:02		RC/JU	Ok
15	Q2032-11	FB-05132025	BP024716.D	20 May 2025 20:42		RC/JU	Ok
16	Q2065-01	VACTRUCK-728068	BP024717.D	20 May 2025 21:23		RC/JU	Ok,M
17	SSTDCCC040	SSTDCCC040EC	BP024718.D	20 May 2025 22:04		RC/JU	Ok
18	DFTPP	DFTPP	BP024719.D	21 May 2025 00:06		RC/JU	Ok

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QC Batch ID # BP052025

Review By	Rahul	Review On	5/21/2025 1:31:28 PM		
Supervise By	Jagrut	Supervise On	5/21/2025 4:43:18 PM		
SubDirectory	BP052025	HP Acquire Method	BNA_P	HP Processing Method	BP051325
STD. NAME	STD REF.#				
Tune/Reschk	SP6757				
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791				
CCC	SP6787				
Internal Standard/PEM	S12665,10ul/1000ul sample				
ICV/I.BLK	SP6770				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	SSTDCCC040	SSTDCCC040	BP024720.D	21 May 2025 00:47		RC/JU	Ok
20	PB168033TB	PB168033TB	BP024721.D	21 May 2025 01:28		RC/JU	Ok
21	Q2067-01DL	303-PPR-FRACDL	BP024722.D	21 May 2025 02:08		RC/JU	Ok
22	Q1984-03	OU4-PCS-TC-34-05072	BP024723.D	21 May 2025 02:49		RC/JU	Ok
23	Q1984-09	OU4-TS-25-050725	BP024724.D	21 May 2025 03:30		RC/JU	Ok
24	Q1984-13RX	OU4-TS-27-050725RX	BP024725.D	21 May 2025 04:10	Surrogates Fail	RC/JU	Confirms
25	Q2057-04	MH-L	BP024726.D	21 May 2025 04:51		RC/JU	Ok
26	Q2062-04	L1-WC-1	BP024727.D	21 May 2025 05:31		RC/JU	Ok
27	Q2062-08	L1-WC-2	BP024728.D	21 May 2025 06:12		RC/JU	Ok
28	Q2062-12	L1-WC-3	BP024729.D	21 May 2025 06:53		RC/JU	Ok
29	Q2062-16	L1-WC-4	BP024730.D	21 May 2025 07:33		RC/JU	Ok
30	Q2062-20	L1-WC-5	BP024731.D	21 May 2025 08:14		RC/JU	Ok
31	Q2062-24	L1-WC-6	BP024732.D	21 May 2025 08:54		RC/JU	Ok
32	Q2080-06	PL-HRH-COMP-01	BP024733.D	21 May 2025 09:35		RC/JU	Ok
33	Q2080-12	PL-HRH-COMP-02	BP024734.D	21 May 2025 10:16		RC/JU	Ok
34	SSTDCCC040	SSTDCCC040EC	BP024735.D	21 May 2025 10:56		RC/JU	Ok,M

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/15/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 05/14/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:28
Out Date: 05/15/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135767

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q2021-01	WASTE	1	1.14	10.48	11.62	10.41	88.5	
Q2021-02	VOC	2	1.19	10.25	11.44	9.99	85.9	
Q2021-03	1	3	1.15	10.01	11.16	9.88	87.2	
Q2021-04	2	4	1.18	10.25	11.43	9.88	84.9	
Q2021-05	3	5	1.17	10.09	11.26	10.12	88.7	
Q2021-06	4	6	1.16	10.60	11.76	10.5	88.1	
Q2021-07	5	7	1.18	10.60	11.78	10.36	86.6	
Q2021-08	6	8	1.18	10.21	11.39	10.12	87.6	
Q2032-01	TP-11	9	1.14	10.08	11.22	8.83	76.3	
Q2032-02	TP-29	10	1.18	10.39	11.57	10.13	86.1	
Q2032-03	TP-29-99	11	1.19	10.40	11.59	10.22	86.8	
Q2032-04	TP-24	12	1.15	10.70	11.85	9.09	74.2	
Q2032-05	Q2032-04MS	13	1.15	10.70	11.85	9.09	74.2	
Q2032-06	Q2032-04MSD	14	1.15	10.70	11.85	9.09	74.2	
Q2032-07	TP-37	15	1.19	10.00	11.19	9.44	82.5	
Q2032-08	TP-32	16	1.17	10.08	11.25	9.92	86.8	
Q2034-01	L3-WC-1	17	1.14	10.24	11.38	10.11	87.6	
Q2034-02	L3-WC-1-EPH	18	1.18	10.23	11.41	10.22	88.4	
Q2034-03	L3-WC-1-VOC	19	1.15	10.10	11.25	10.19	89.5	
Q2034-04	L3-WC-1	20	1.14	10.24	11.38	10.11	87.6	
Q2034-05	L3-WC-2	21	1.17	10.18	11.35	9.88	85.6	
Q2034-06	L3-WC-2-EPH	22	1.18	10.71	11.89	10.47	86.7	
Q2034-07	L3-WC-2-VOC	23	1.19	10.52	11.71	10.46	88.1	
Q2034-09	L3-WC-3	24	1.14	10.26	11.4	9.65	82.9	
Q2034-10	L3-WC-3-EPH	25	1.14	10.26	11.4	10.11	87.4	
Q2034-11	L3-WC-3-VOC	26	1.19	10.53	11.72	10.39	87.4	
Q2034-13	L3-WC-4	27	1.18	10.51	11.69	10.26	86.4	
Q2034-14	L3-WC-4-EPH	28	1.15	10.42	11.57	10.23	87.1	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/15/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 05/14/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:28
Out Date: 05/15/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135767

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q2034-15	L3-WC-4-VOC	29	1.15	10.37	11.52	10.7	92.1	
Q2034-17	L3-WC-5	30	1.13	10.76	11.89	10.49	87.0	
Q2034-18	L3-WC-5-EPH	31	1.15	10.66	11.81	10.02	83.2	
Q2034-19	L3-WC-5-VOC	32	1.19	10.72	11.91	10.6	87.8	
Q2034-21	L3-WC-6	33	1.18	10.14	11.32	9.92	86.2	
Q2034-22	L3-WC-6-EPH	34	1.14	10.08	11.22	10.6	93.8	
Q2034-23	L3-WC-6-VOC	35	1.11	10.00	11.11	9.3	81.9	
Q2038-01	72-11991	36	1.15	10.56	11.71	10.81	91.5	
Q2039-01	TR-05-05142025	37	1.18	9.92	11.1	9.54	84.3	
Q2039-02	TR-05-05142025-E2	38	1.15	10.23	11.38	10.17	88.2	
Q2040-01	1	39	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2040-02	2	40	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2040-03	3	41	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2040-04	4	42	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2040-05	5	43	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2040-06	6	44	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2040-07	7	45	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2041-01	HIH359A-1-1	46	1.00	1.00	2.00	2.00	100.0	oilc
Q2041-02	HIH359A-1-2	47	1.00	1.00	2.00	2.00	100.0	oilc
Q2041-03	HIA9895-1-1	48	1.00	1.00	2.00	2.00	100.0	oilc
Q2041-04	HIA9895-1-2	49	1.00	1.00	2.00	2.00	100.0	oilc
Q2041-05	250-1-1	50	1.00	1.00	2.00	2.00	100.0	oilc
Q2041-06	250-1-2	51	1.00	1.00	2.00	2.00	100.0	oilc
Q2041-07	250-2-1	52	1.00	1.00	2.00	2.00	100.0	oilc
Q2041-08	250-2-2	53	1.00	1.00	2.00	2.00	100.0	oilc
Q2042-01	HEI570L-1-1	54	1.00	1.00	2.00	2.00	100.0	oilc
Q2042-02	HEI570L-1-2	55	1.00	1.00	2.00	2.00	100.0	oilc
Q2042-04	HEI570L-2-1	56	1.00	1.00	2.00	2.00	100.0	oilc



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/15/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 05/14/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:28
Out Date: 05/15/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135767

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q2042-05	HEI570L-2-2	57	1.00	1.00	2.00	2.00	100.0	oilc
Q2043-01	281	58	1.18	10.26	11.44	9.29	79.0	
Q2043-02	281-E2	59	1.16	10.44	11.6	10.6	90.4	
Q2043-03	72-12000	60	1.19	10.35	11.54	8.15	67.2	
Q2043-04	72-12000-E2	61	1.11	10.38	11.49	6.56	52.5	
Q2044-01	3858	62	1.00	1.00	2.00	2.00	100.0	oil sample
Q2046-01	BC136902-1-1	63	1.00	1.00	2.00	2.00	100.0	oilc
Q2046-02	BC136902-1-2	64	1.00	1.00	2.00	2.00	100.0	oilc
Q2047-01	SU-04-051425	65	1.18	10.07	11.25	10.72	94.7	
Q2047-02	SU-04-051425-E2	66	1.18	10.37	11.55	10.9	93.7	
Q2048-01	L2-WC-1	67	1.19	10.47	11.66	10.29	86.9	
Q2048-02	L2-WC-1-EPH	68	1.19	10.30	11.49	9.87	84.3	
Q2048-03	L2-WC-1-VOC	69	1.18	10.31	11.49	10.17	87.2	
Q2048-05	L2-WC-2	70	1.16	10.26	11.42	9.82	84.4	
Q2048-06	L2-WC-2-EPH	71	1.17	10.13	11.3	9.06	77.9	
Q2048-07	L2-WC-2-VOC	72	1.18	10.42	11.6	9.88	83.5	
Q2048-09	L2-WC-3	73	1.17	10.15	11.32	9.02	77.3	
Q2048-10	L2-WC-3-EPH	74	1.18	10.07	11.25	9.17	79.3	
Q2048-11	L2-WC-3-VOC	75	1.17	10.49	11.66	9.94	83.6	
Q2048-13	L2-WC-4	76	1.11	10.64	11.75	10.24	85.8	
Q2048-14	L2-WC-4-EPH	77	1.19	10.13	11.32	10.04	87.4	
Q2048-15	L2-WC-4-VOC	78	1.13	10.07	11.2	9.81	86.2	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB 135767

WorkList Name : %1-051425

WorkList ID : 189504

Department : Wet-Chemistry

Date : 05-14-2025 09:06:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2021-01	WASTE	Solid	Percent Solids	Cool 4 deg C	SCIA01	L41	05/12/2025	Chemtech -SO
Q2021-02	VOC	Solid	Percent Solids	Cool 4 deg C	SCIA01	L41	05/12/2025	Chemtech -SO
Q2021-03	1	Solid	Percent Solids	Cool 4 deg C	SCIA01	L41	05/12/2025	Chemtech -SO
Q2021-04	2	Solid	Percent Solids	Cool 4 deg C	SCIA01	L41	05/12/2025	Chemtech -SO
Q2021-05	3	Solid	Percent Solids	Cool 4 deg C	SCIA01	L41	05/12/2025	Chemtech -SO
Q2021-06	4	Solid	Percent Solids	Cool 4 deg C	SCIA01	L41	05/12/2025	Chemtech -SO
Q2021-07	5	Solid	Percent Solids	Cool 4 deg C	SCIA01	L41	05/12/2025	Chemtech -SO
Q2021-08	6	Solid	Percent Solids	Cool 4 deg C	SCIA01	L41	05/12/2025	Chemtech -SO
Q2032-01	TP-11	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/13/2025	Chemtech -SO
Q2032-02	TP-29	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/13/2025	Chemtech -SO
Q2032-03	TP-29-99	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/13/2025	Chemtech -SO
Q2032-04	TP-24	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/13/2025	Chemtech -SO
Q2032-05	Q2032-04MS	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/13/2025	Chemtech -SO
Q2032-06	Q2032-04MSD	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/13/2025	Chemtech -SO
Q2032-07	TP-37	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/13/2025	Chemtech -SO
Q2032-08	TP-32	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/13/2025	Chemtech -SO
Q2034-01	L3-WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-02	L3-WC-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-03	L3-WC-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-04	L3-WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-05	L3-WC-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO

Date/Time 05-14-25 15:10

Raw Sample Received by: JB WOC

Raw Sample Relinquished by: [Signature]

Date/Time 05-14-25

Raw Sample Received by: CP SM

Raw Sample Relinquished by: JB WOC

WORKLIST(Hardcopy Internal Chain)

B 135767

WorkList Name : %1-051425 WorkList ID : 189504 Department : Wet-Chemistry Date : 05-14-2025 09:06:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2034-06	L3-WC-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-07	L3-WC-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-09	L3-WC-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-10	L3-WC-3-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-11	L3-WC-3-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-13	L3-WC-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-14	L3-WC-4-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-15	L3-WC-4-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-17	L3-WC-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-18	L3-WC-5-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-19	L3-WC-5-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-21	L3-WC-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-22	L3-WC-6-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2034-23	L3-WC-6-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/13/2025	Chemtech -SO
Q2038-01	72-11991	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/14/2025	Chemtech -SO
Q2039-01	TR-05-05142025	Solid	Percent Solids	Cool 4 deg C	PSEG05	L21	05/14/2025	Chemtech -SO
Q2039-02	TR-05-05142025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L21	05/14/2025	Chemtech -SO
Q2040-01	1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2040-02	2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2040-03	3	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2040-04	4	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO

Date/Time 05-14-25 15:10 Date/Time 05-14-25 17:30
 Raw Sample Received by: SP WOC Raw Sample Received by: CP SR
 Raw Sample Relinquished by: CP SR Raw Sample Relinquished by: SP WOC

WORKLIST(Hardcopy Internal Chain)

23567

WorkList Name : %1-051425 WorkList ID : 189504 Department : Wet-Chemistry Date : 05-14-2025 09:06:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2040-05	5	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2040-06	6	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2040-07	7	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2041-01	HIH359A-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2041-02	HIH359A-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2041-03	HIA9895-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2041-04	HIA9895-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2041-05	250-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2041-06	250-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2041-07	250-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2041-08	250-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2042-01	HEI570L-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2042-02	HEI570L-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2042-04	HEI570L-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2042-05	HEI570L-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2043-01	281	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2043-02	281-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2043-03	72-12000	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2043-04	72-12000-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/14/2025	Chemtech -SO
Q2044-01	3858	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/14/2025	Chemtech -SO
Q2046-01	BC136902-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/14/2025	Chemtech -SO

Date/Time 05-14-25 1340
 Raw Sample Received by: cl sm
 Raw Sample Relinquished by: cl sm

WORKLIST(Hardcopy Internal Chain)

87135767

WorkList Name : %1-051425 WorkList ID : 189504 Department : Wet-Chemistry Date : 05-14-2025 09:06:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2046-02	BC136902-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/14/2025	Chemtech -SO
Q2047-01	SU-04-051425	Solid	Percent Solids	Cool 4 deg C	PSEG05	L31	05/14/2025	Chemtech -SO
Q2047-02	SU-04-051425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L31	05/14/2025	Chemtech -SO
Q2048-01	L2-WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2048-02	L2-WC-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2048-03	L2-WC-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2048-05	L2-WC-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2048-06	L2-WC-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2048-07	L2-WC-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2048-09	L2-WC-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2048-10	L2-WC-3-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2048-11	L2-WC-3-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2048-13	L2-WC-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2048-14	L2-WC-4-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO
Q2048-15	L2-WC-4-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/14/2025	Chemtech -SO

Date/Time 05-14-25 15:10
 Raw Sample Received by: SP WOC
 Raw Sample Relinquished by: CL 5m
 Date/Time 05-14-25 17:30
 Raw Sample Received by: SP WOC
 Raw Sample Relinquished by: SP WOC

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Extraction Start Date : 05/16/2025

Matrix : Solid

Extraction Start Time : 10:00

Weigh By: EH

Extraction By: RJ

Extraction End Date : 05/16/2025

Balance check: RJ

Filter By: RJ

Extraction End Time : 13:25

Balance ID: EX-SC-2

pH Meter ID: N/A

Concentration By: EH

pH Strip Lot#: N/A

Hood ID: 3,7

Supervisor By : RUPESH

Extraction Method: ☐ Separatory Funnel

☐ Continuous Liquid/Liquid

☐ Sonication

☐ Waste Dilution

☒ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6782
Surrogate	1.0ML	100/150 PPM	SP6754
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2612
Baked Na2SO4	N/A	EP2611
Sand	N/A	EP2865
Methylene Chloride	N/A	E3930
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210443.

KD Bath ID: N/A

Envap ID: NEVAP-02

KD Bath Temperature: N/A

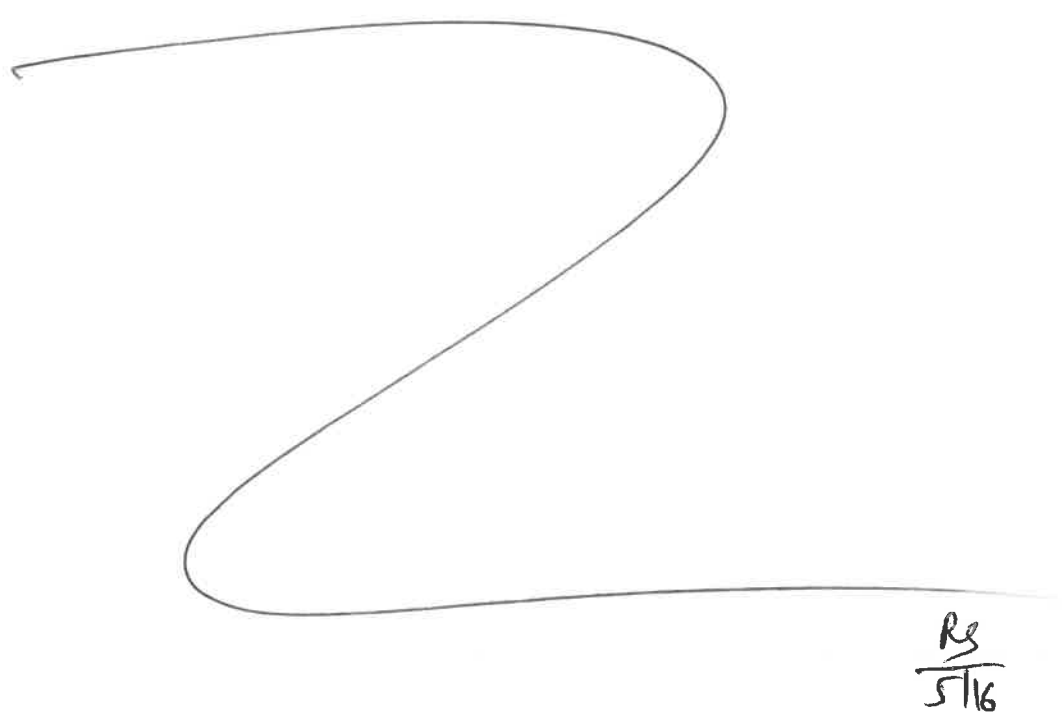
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/16/25	RS (Ext-Lab)	RCL/voe
13:30	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 05/16/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168041BL	SBLK041	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1			U3-1
PB168041BS	SLCS041	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			2
Q2032-01	TP-11	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		3
Q2032-02	TP-29	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		4
Q2032-03	TP-29-99	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1	E		5
Q2032-04	TP-24	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		6
Q2032-05	Q2032-04MS	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	E		U6-1
Q2032-06	Q2032-04MSD	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	E		2
Q2032-07	TP-37	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		3
Q2032-08	TP-32	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		4
Q2052-01	TP-B	SVOC-TCL BNA -20	50.08	N/A	ritesh	Evelyn	1	E		5
Q2055-01	OR-02-051525	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E		6
Q2057-01	MH-L	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E		U1-1



* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2057 WorkList ID : 189548 Department : Extraction Date : 05-16-2025 08:32:44

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2032-01	TP-11	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/13/2025	8270E
Q2032-02	TP-29	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/13/2025	8270E
Q2032-03	TP-29-99	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/13/2025	8270E
Q2032-04	TP-24	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/13/2025	8270E
Q2032-05	Q2032-04MS	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/13/2025	8270E
Q2032-06	Q2032-04MSD	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/13/2025	8270E
Q2032-07	TP-37	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/13/2025	8270E
Q2032-08	TP-32	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/13/2025	8270E
Q2052-01	TP-B	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L51	05/14/2025	8270E
Q2055-01	OR-02-051525	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	L31	05/15/2025	8270E
Q2057-01	MH-L	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/15/2025	8270E

Date/Time 05/16/25 9:55
Raw Sample Received by: RS (Ext-Sub) OP SN
Raw Sample Relinquished by: OP SN

Date/Time 05/16/25 10:25
Raw Sample Received by: OP SN
Raw Sample Relinquished by: RS (Ext-Sub)

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 05/19/2025

Extraction Start Time : 08:42

Extraction End Date : 05/19/2025

Extraction End Time : 13:40

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: ☒ Separatory Funnel

☐ Continuous Liquid/Liquid

☐ Sonication

☐ Waste Dilution

☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6782
Surrogate	1.0ML	100/150 PPM	SP6754
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3930
Baked Na2SO4	N/A	EP2611
10N NaoH	N/A	EP2609
H2SO4 1:1	N/A	EP2610
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# 2210443. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

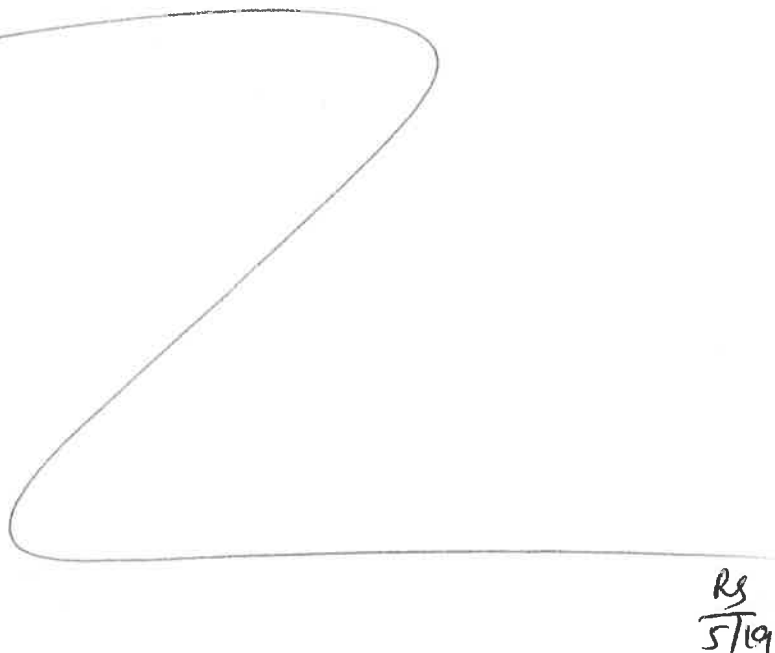
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/19/25	RS (E&A Lab)	Rclsvoc
13:45	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 05/19/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168048BL	SBLK048	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1			SEP-1
PB168048BS	SLCS048	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1			2
PB168048BSD	SLCSD048	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1			3
Q2032-11	FB-05132025	SVOC-TCL BNA -20	980	6	RUPESH	ritesh	1	F		4
Q2033-01	TW-WTS-08	SVOCMS Group4	980	11	RUPESH	ritesh	1	F		5
Q2064-01	RW8-SP100-70-2025051 4	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1	B		6
Q2064-04	RW8-SP303-70-2025051 4	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1	B		7
Q2064-05	RW8-SP100-90-2025051 4	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1	B		8
Q2064-08	RW8-SP303-90-2025051 4	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1	B		9
Q2065-01	VACTRUCK-728068	SVOC-TCL BNA -20	990	6	RUPESH	ritesh	1	N		10
Q2067-01	303-PPR-FRAC	SVOC-TCL BNA -20	970	6	RUPESH	ritesh	1	N		11
Q2068-03	LAW-25-0074	SVOC-TCL BNA -20	950	6	RUPESH	ritesh	1	N		12



1680488
8:42

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2033

WorkList ID : 189588

Department : Extraction

Date : 05-19-2025 08:37:19

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2032-11	FB-05132025	Water	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/13/2025	8270E
Q2033-01	TW-WTS-08	Water	SVOCMS Group4	Cool 4 deg C	ENTA05	L41	05/12/2025	8270E
Q2064-01	RW8-SP100-70-20250514	Water	SVOC-TCL BNA -20	Cool 4 deg C	TETR06	L41	05/14/2025	8270E
Q2064-04	RW8-SP303-70-20250514	Water	SVOC-TCL BNA -20	Cool 4 deg C	TETR06	L41	05/14/2025	8270E
Q2064-05	RW8-SP100-90-20250514	Water	SVOC-TCL BNA -20	Cool 4 deg C	TETR06	L41	05/14/2025	8270E
Q2064-08	RW8-SP303-90-20250514	Water	SVOC-TCL BNA -20	Cool 4 deg C	TETR06	L41	05/14/2025	8270E
Q2065-01	VACTRUCK-728068	Water	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/16/2025	8270E
Q2067-01	303-PPR-FRAC	Water	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/16/2025	8270E
Q2068-03	LAW-25-0074	Water	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L31	05/16/2025	8270E

Date/Time 5/19/25 8:27

Raw Sample Received by: RS (Ext-Lab)

Raw Sample Relinquished by: CP SM

Date/Time 5/19/25 9:30

Raw Sample Received by: CP SM

Raw Sample Relinquished by: RS (Ext-Lab)



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: CDM SMITH
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS
PHONE: 732-590-4679 FAX: 732-225-7851

CLIENT PROJECT INFORMATION

PROJECT NAME: SOUTH RIVER WM REPLACEMENT
PROJECT NO.: 302781 LOCATION: SOUTH RIVER, NJ
PROJECT MANAGER: MARCIE ENCINAS
e-mail: ENCINASMA@CDMSMITH.COM
PHONE: 732-590-4679 FAX: 732-225-7851

CLIENT BILLING INFORMATION

BILL TO: CDM SMITH PO#:
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS PHONE: 732-590-4679

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☒ Level 2 (Results + QC) ☒ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT

1. 2. 3. 4. 5. 6. 7. 8. 9.
TCL VOC
TCL SVOC
METALS
PCB
PESTICIDES
HERBICIDES
DRO/GRO
FULL TCLP
RCRA CHARAL

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	TP-11	SOIL		X	5/13/25	0830	6	X	X	X	X	X	X	X			E
2.	TP-29	SOIL		X	5/13/25	1010	6	X	X	X	X	X	X	X			E
3.	TP-29-99	SOIL		X	5/13/25	1010	6	X	X	X	X	X	X	X			E
4.	TP-24	SOIL		X	5/13/25	1130	18	X	X	X	X	X	X	X			E; MS/MSD
5.	TP-37	SOIL		X	5/13/25	1250	6	X	X	X	X	X	X	X			E
6.	TP-32	SOIL		X	5/13/25	1330	6	X	X	X	X	X	X	X			E
7.	COMP-1	SOIL	X		5/13/25	1405	4								X	X	E
8.	FB-05132025	ADUERS		X	5/13/25	1445	10	X	X	X	X	X	X	X			E, A, B
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. [Signature]	DATE/TIME: 5/13/25 1505	RECEIVED BY: [Signature] 1505	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP. 3.2 °C
RELINQUISHED BY SAMPLER: 2. [Signature]	DATE/TIME:	RECEIVED BY:	Comments:
RELINQUISHED BY SAMPLER: 3. [Signature]	DATE/TIME: 5-13-25	RECEIVED BY:	

Page ____ of CLIENT: ☐ Hand Delivered ☐ Other Shipment Complete ☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2032	CAMP02	Order Date : 5/13/2025 4:01:00 PM	Project Mgr :
Client Name : CDM Smith		Project Name : South River WM Replacem	Report Type : Level 1
Client Contact : Marcie Ann Encinas		Receive DateTime : 5/13/2025 4:20:00 PM	EDD Type : EXCEL NOCLEANUP
Invoice Name : CDM Smith		Purchase Order :	Hard Copy Date :
Invoice Contact : Marcie Ann Encinas			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2032-01	TP-11	Solid	05/13/2025	08:30	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-02	TP-29	Solid	05/13/2025	10:10	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-03	TP-29-99	Solid	05/13/2025	10:10	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-04	TP-24	Solid	05/13/2025	11:30	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-05	Q2032-04MS	Solid	05/13/2025	11:30	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-06	Q2032-04MSD	Solid	05/13/2025	11:30	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-07	TP-37	Solid	05/13/2025	12:50	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-08	TP-32	Solid	05/13/2025	13:30					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2032	CAMP02	Order Date : 5/13/2025 4:01:00 PM	Project Mgr :
Client Name : CDM Smith		Project Name : South River WM Replacem	Report Type : Level 1
Client Contact : Marcie Ann Encinas		Receive Date/Time : 5/13/2025 4:20:00 PM	EDD Type : EXCEL NOCLEANUP
Invoice Name : CDM Smith		Purchase Order :	Hard Copy Date :
Invoice Contact : Marcie Ann Encinas			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2032-11	FB-05132025	Water	05/13/2025	14:45	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2032-12	TB	Water	05/13/2025	00:00	VOC-TCLVOA-10		8260-Low		10 Bus. Days
					VOC-TCLVOA-10		8260-Low		10 Bus. Days

Relinquished By :

Date / Time : 5/14/25 0940

Received By :

Date / Time :

Storage Area : VOA Refridgerator Room

9:50 Rg # 4
Rg # 6
B22