

Cover Page

Order ID : P4860

Project ID : Ocean County Landfill 2024

Client : Tetra Tech

Lab Sample Number

P4860-01
P4860-02
P4860-03
P4860-04
P4860-05
P4860-06
P4860-07
P4860-08
P4860-09
P4860-10

Client Sample Number

DUP-01
PH2-BOT-001
PH2-BOT-002
PH2-BOT-003
PH2-BOT-004
PH2-BOT-009
PH2-BOT-008
PH2-BOT-007
PH2-BOT-006
PH2-BOT-005

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: 11/25/2024

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 #: P4860

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 Custody

✓

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: KETAN PATEL

Date: 11/25/2024

LAB CHRONICLE

OrderID:	P4860	OrderDate:	11/14/2024 1:36:41 PM
Client:	Tetra Tech	Project:	Ocean County Landfill 2024
Contact:	John Giuliano	Location:	L41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4860-01	DUP-01	SOIL			11/14/24			11/14/24
			SVOC-TCL BNA -20	8270E		11/16/24	11/25/24	
P4860-02	PH2-BOT-001	SOIL			11/14/24			11/14/24
			SVOC-TCL BNA -20	8270E		11/16/24	11/22/24	
P4860-03	PH2-BOT-002	SOIL			11/14/24			11/14/24
			SVOC-TCL BNA -20	8270E		11/16/24	11/25/24	
P4860-04	PH2-BOT-003	SOIL			11/14/24			11/14/24
			SVOC-TCL BNA -20	8270E		11/16/24	11/25/24	
P4860-05	PH2-BOT-004	SOIL			11/14/24			11/14/24
			SVOC-TCL BNA -20	8270E		11/16/24	11/22/24	
P4860-06	PH2-BOT-009	SOIL			11/14/24			11/14/24
			SVOC-TCL BNA -20	8270E		11/16/24	11/25/24	
P4860-07	PH2-BOT-008	SOIL			11/14/24			11/14/24
			SVOC-TCL BNA -20	8270E		11/16/24	11/25/24	
P4860-08	PH2-BOT-007	SOIL			11/14/24			11/14/24
			SVOC-TCL BNA -20	8270E		11/16/24	11/22/24	
P4860-09	PH2-BOT-006	SOIL			11/14/24			11/14/24
			SVOC-TCL BNA -20	8270E		11/16/24	11/25/24	
P4860-10	PH2-BOT-005	SOIL			11/14/24			11/14/24
			SVOC-TCL BNA -20	8270E		11/16/24	11/26/24	

Hit Summary Sheet SW-846

SDG No.: P4860
Client: Tetra Tech

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : DUP-01								
P4860-01	DUP-01	SOIL	10,18-Bisnorabieta-5,7,9(10),11,1 *	120.000	J	0	0	ug/Kg
P4860-01	DUP-01	SOIL	4b,8-Dimethyl-2-isopropylphenan *	85.100	J	0	0	ug/Kg
P4860-01	DUP-01	SOIL	Benzophenone *	160.000	J	0	0	ug/Kg
P4860-01	DUP-01	SOIL	Cholestan-3-one, (5.alpha.)-	200.000	J	0	0	ug/Kg
P4860-01	DUP-01	SOIL	Heneicosane *	72.800	J	0	0	ug/Kg
P4860-01	DUP-01	SOIL	n-Hexadecanoic acid *	260.000	J	0	0	ug/Kg
P4860-01	DUP-01	SOIL	Octacosane *	80.700	J	0	0	ug/Kg
P4860-01	DUP-01	SOIL	Retene *	250.000	J	0	0	ug/Kg
P4860-01	DUP-01	SOIL	unknown16.286 *	210.000	J	0	0	ug/Kg
Total Tics :				1,438.60				
Total Concentration:				1,438.60				
Client ID : PH2-BOT-001								
P4860-02	PH2-BOT-001	SOIL	Bis(2-ethylhexyl)phthalate	420.000		93.9	180	ug/Kg
Total Svoc :				420.00				
P4860-02	PH2-BOT-001	SOIL	10,18-Bisnorabieta-5,7,9(10),11,1 *	730.000	J	0	0	ug/Kg
P4860-02	PH2-BOT-001	SOIL	1H-Indole, 2-methyl-3-phenyl- *	360.000	J	0	0	ug/Kg
P4860-02	PH2-BOT-001	SOIL	4b,8-Dimethyl-2-isopropylphenan *	220.000	J	0	0	ug/Kg
P4860-02	PH2-BOT-001	SOIL	5.beta.-Cholestan-3.alpha.-ol, 2-m *	1,600.000	J	0	0	ug/Kg
P4860-02	PH2-BOT-001	SOIL	Butane, 2-methoxy-2-methyl- *	1,200.000	JB	0	0	ug/Kg
P4860-02	PH2-BOT-001	SOIL	Cholestan-2-one *	1,800.000	J	0	0	ug/Kg
P4860-02	PH2-BOT-001	SOIL	Cyclohexane, 1,3,5-triphenyl- *	600.000	J	0	0	ug/Kg
P4860-02	PH2-BOT-001	SOIL	Eicosane *	750.000	J	0	0	ug/Kg
P4860-02	PH2-BOT-001	SOIL	Heneicosane *	650.000	J	0	0	ug/Kg
P4860-02	PH2-BOT-001	SOIL	Heneicosane, 11-(1-ethylpropyl)- *	420.000	J	0	0	ug/Kg
P4860-02	PH2-BOT-001	SOIL	Heptadecane *	410.000	J	0	0	ug/Kg
P4860-02	PH2-BOT-001	SOIL	Hexadecane, 2,6,10-trimethyl- *	230.000	J	0	0	ug/Kg
P4860-02	PH2-BOT-001	SOIL	n-Hexadecanoic acid *	500.000	J	0	0	ug/Kg
P4860-02	PH2-BOT-001	SOIL	Octacosane *	410.000	J	0	0	ug/Kg
P4860-02	PH2-BOT-001	SOIL	Stigmastanol *	320.000	J	0	0	ug/Kg
P4860-02	PH2-BOT-001	SOIL	Supraene *	250.000	J	0	0	ug/Kg
P4860-02	PH2-BOT-001	SOIL	Tetradecane, 2,6,10-trimethyl- *	240.000	J	0	0	ug/Kg
P4860-02	PH2-BOT-001	SOIL	Tricosane *	950.000	J	0	0	ug/Kg
P4860-02	PH2-BOT-001	SOIL	Tridecane, 6-propyl- *	240.000	J	0	0	ug/Kg
P4860-02	PH2-BOT-001	SOIL	unknown17.657 *	440.000	J	0	0	ug/Kg
Total Tics :				12,320.00				
Total Concentration:				12,740.00				

Hit Summary Sheet
SW-846

SDG No.: P4860
Client: Tetra Tech

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : PH2-BOT-002								
P4860-03	PH2-BOT-002	SOIL	Bis(2-ethylhexyl)phthalate	95.800	J	94	180	ug/Kg
			Total Svoc :	95.80				
P4860-03	PH2-BOT-002	SOIL	10,18-Bisnorabieta-5,7,9(10),11,1. *	84.400	J	0	0	ug/Kg
P4860-03	PH2-BOT-002	SOIL	Benzophenone *	510.000	J	0	0	ug/Kg
P4860-03	PH2-BOT-002	SOIL	Cholestan-3-ol, (3.alpha.,5.beta.) *	530.000	J	0	0	ug/Kg
P4860-03	PH2-BOT-002	SOIL	Cholestan-3-one, (5.beta.)- *	390.000	J	0	0	ug/Kg
P4860-03	PH2-BOT-002	SOIL	Hexacosane *	130.000	J	0	0	ug/Kg
P4860-03	PH2-BOT-002	SOIL	Methanone, (1-hydroxycyclohexy *	82.300	J	0	0	ug/Kg
P4860-03	PH2-BOT-002	SOIL	n-Hexadecanoic acid *	180.000	J	0	0	ug/Kg
P4860-03	PH2-BOT-002	SOIL	Supraene *	100.000	J	0	0	ug/Kg
P4860-03	PH2-BOT-002	SOIL	unknown17.068 *	98.500	J	0	0	ug/Kg
P4860-03	PH2-BOT-002	SOIL	unknown17.657 *	110.000	J	0	0	ug/Kg
			Total Tics :	2,215.20				
			Total Concentration:	2,311.00				
Client ID : PH2-BOT-003								
P4860-04	PH2-BOT-003	SOIL	2-Pentanone, 4-hydroxy-4-methyl *	70.800	A	0	0	ug/Kg
P4860-04	PH2-BOT-003	SOIL	Benzophenone *	140.000	J	0	0	ug/Kg
P4860-04	PH2-BOT-003	SOIL	n-Hexadecanoic acid *	120.000	J	0	0	ug/Kg
P4860-04	PH2-BOT-003	SOIL	Squalene *	91.900	J	0	0	ug/Kg
P4860-04	PH2-BOT-003	SOIL	Trichloroacetic acid, pentadecyl e *	170.000	J	0	0	ug/Kg
P4860-04	PH2-BOT-003	SOIL	unknown16.427 *	77.300	J	0	0	ug/Kg
			Total Tics :	670.00				
			Total Concentration:	670.00				
Client ID : PH2-BOT-004								
P4860-05	PH2-BOT-004	SOIL	Benzophenone *	370.000	J	0	0	ug/Kg
P4860-05	PH2-BOT-004	SOIL	Butane, 2-methoxy-2-methyl- *	1,400.000	JB	0	0	ug/Kg
P4860-05	PH2-BOT-004	SOIL	n-Hexadecanoic acid *	93.900	J	0	0	ug/Kg
P4860-05	PH2-BOT-004	SOIL	Pentadecafluorooctanoic acid, oct: *	150.000	J	0	0	ug/Kg
			Total Tics :	2,013.90				
			Total Concentration:	2,013.90				
Client ID : PH2-BOT-009								
P4860-06	PH2-BOT-009	SOIL	1-Hexadecanol *	120.000	J	0	0	ug/Kg
P4860-06	PH2-BOT-009	SOIL	Benzophenone *	400.000	J	0	0	ug/Kg
P4860-06	PH2-BOT-009	SOIL	Methanone, (1-hydroxycyclohexy *	70.100	J	0	0	ug/Kg
			Total Tics :	590.10				
			Total Concentration:	590.10				
Client ID : PH2-BOT-008								
P4860-07	PH2-BOT-008	SOIL	1-Hydroxycyclohexanecarboxylic *	74.600	J	0	0	ug/Kg

Hit Summary Sheet SW-846

SDG No.: P4860
Client: Tetra Tech

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4860-07	PH2-BOT-008	SOIL	Benzophenone	*	500.000	J 0	0	ug/Kg
P4860-07	PH2-BOT-008	SOIL	n-Hexadecanoic acid	*	89.800	J 0	0	ug/Kg
Total Tics :				664.40				
Total Concentration:				664.40				
Client ID : PH2-BOT-007								
P4860-08	PH2-BOT-007	SOIL	1-Tetracosene	*	150.000	J 0	0	ug/Kg
P4860-08	PH2-BOT-007	SOIL	Benzophenone	*	320.000	J 0	0	ug/Kg
P4860-08	PH2-BOT-007	SOIL	Butane, 2-methoxy-2-methyl-	*	1,200.000	JB 0	0	ug/Kg
P4860-08	PH2-BOT-007	SOIL	n-Hexadecanoic acid	*	130.000	J 0	0	ug/Kg
Total Tics :				1,800.00				
Total Concentration:				1,800.00				
Client ID : PH2-BOT-006								
P4860-09	PH2-BOT-006	SOIL	Benzophenone	*	330.000	J 0	0	ug/Kg
P4860-09	PH2-BOT-006	SOIL	n-Hexadecanoic acid	*	220.000	J 0	0	ug/Kg
P4860-09	PH2-BOT-006	SOIL	n-Nonadecanol-1	*	170.000	J 0	0	ug/Kg
P4860-09	PH2-BOT-006	SOIL	unknown16.457	*	78.100	J 0	0	ug/Kg
Total Tics :				798.10				
Total Concentration:				798.10				
Client ID : PH2-BOT-005								
P4860-10	PH2-BOT-005	SOIL	10,18-Bisnorabieta-5,7,9(10),11,1	*	81.900	J 0	0	ug/Kg
P4860-10	PH2-BOT-005	SOIL	Benzophenone	*	330.000	J 0	0	ug/Kg
P4860-10	PH2-BOT-005	SOIL	Butane, 2-methoxy-2-methyl-	*	1,100.000	JB 0	0	ug/Kg
P4860-10	PH2-BOT-005	SOIL	Cholestan-3-one	*	220.000	J 0	0	ug/Kg
P4860-10	PH2-BOT-005	SOIL	Eicosane	*	100.000	J 0	0	ug/Kg
P4860-10	PH2-BOT-005	SOIL	Heneicosane	*	79.800	J 0	0	ug/Kg
P4860-10	PH2-BOT-005	SOIL	Isobutyl tetracosyl ether	*	280.000	J 0	0	ug/Kg
P4860-10	PH2-BOT-005	SOIL	n-Hexadecanoic acid	*	170.000	J 0	0	ug/Kg
P4860-10	PH2-BOT-005	SOIL	Octacosane, 2-methyl-	*	74.700	J 0	0	ug/Kg
P4860-10	PH2-BOT-005	SOIL	Triacotane	*	140.000	J 0	0	ug/Kg
P4860-10	PH2-BOT-005	SOIL	unknown16.245	*	230.000	J 0	0	ug/Kg
P4860-10	PH2-BOT-005	SOIL	unknown16.498	*	75.700	J 0	0	ug/Kg
P4860-10	PH2-BOT-005	SOIL	unknown17.439	*	77.400	J 0	0	ug/Kg
P4860-10	PH2-BOT-005	SOIL	unknown17.651	*	70.600	J 0	0	ug/Kg
Total Tics :				3,030.10				
Total Concentration:				3,030.10				



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: **P4860**

Client: **Tetra Tech**

Analytical Method: **8270E**

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P4860-01	DUP-01	2-Fluorophenol	150	98.6	66		30 (18)	130 (112)
		Phenol-d6	150	97.7	65		30 (15)	130 (107)
		Nitrobenzene-d5	100	67.9	68		30 (18)	130 (107)
		2-Fluorobiphenyl	100	73.5	73		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	92.4	62		30 (10)	130 (116)
		Terphenyl-d14	100	71.0	71		30 (10)	130 (105)
P4860-02	PH2-BOT-001	2-Fluorophenol	150	99.7	66		30 (18)	130 (112)
		Phenol-d6	150	96.8	65		30 (15)	130 (107)
		Nitrobenzene-d5	100	71.8	72		30 (18)	130 (107)
		2-Fluorobiphenyl	100	79.9	80		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	86.7	58		30 (10)	130 (116)
		Terphenyl-d14	100	67.9	68		30 (10)	130 (105)
P4860-03	PH2-BOT-002	2-Fluorophenol	150	110	74		30 (18)	130 (112)
		Phenol-d6	150	108	72		30 (15)	130 (107)
		Nitrobenzene-d5	100	74.3	74		30 (18)	130 (107)
		2-Fluorobiphenyl	100	77.4	77		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	109	73		30 (10)	130 (116)
		Terphenyl-d14	100	69.3	69		30 (10)	130 (105)
P4860-04	PH2-BOT-003	2-Fluorophenol	150	102	68		30 (18)	130 (112)
		Phenol-d6	150	101	67		30 (15)	130 (107)
		Nitrobenzene-d5	100	70.4	70		30 (18)	130 (107)
		2-Fluorobiphenyl	100	73.2	73		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	102	68		30 (10)	130 (116)
		Terphenyl-d14	100	72.7	73		30 (10)	130 (105)
P4860-05	PH2-BOT-004	2-Fluorophenol	150	87.3	58		30 (18)	130 (112)
		Phenol-d6	150	84.5	56		30 (15)	130 (107)
		Nitrobenzene-d5	100	59.5	59		30 (18)	130 (107)
		2-Fluorobiphenyl	100	63.7	64		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	82.4	55		30 (10)	130 (116)
		Terphenyl-d14	100	63.6	64		30 (10)	130 (105)
P4860-06	PH2-BOT-009	2-Fluorophenol	150	86.9	58		30 (18)	130 (112)
		Phenol-d6	150	87.6	58		30 (15)	130 (107)
		Nitrobenzene-d5	100	60.1	60		30 (18)	130 (107)
		2-Fluorobiphenyl	100	62.8	63		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	79.0	53		30 (10)	130 (116)
		Terphenyl-d14	100	60.9	61		30 (10)	130 (105)
P4860-07	PH2-BOT-008	2-Fluorophenol	150	92.1	61		30 (18)	130 (112)
		Phenol-d6	150	90.4	60		30 (15)	130 (107)
		Nitrobenzene-d5	100	62.1	62		30 (18)	130 (107)
		2-Fluorobiphenyl	100	64.9	65		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	88.7	59		30 (10)	130 (116)
		Terphenyl-d14	100	60.5	60		30 (10)	130 (105)
P4860-08	PH2-BOT-007	2-Fluorophenol	150	75.2	50		30 (18)	130 (112)
		Phenol-d6	150	75.3	50		30 (15)	130 (107)
		Nitrobenzene-d5	100	52.4	52		30 (18)	130 (107)
		2-Fluorobiphenyl	100	55.8	56		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	74.2	49		30 (10)	130 (116)
		Terphenyl-d14	100	54.1	54		30 (10)	130 (105)
P4860-09	PH2-BOT-006	2-Fluorophenol	150	91.0	61		30 (18)	130 (112)
		Phenol-d6	150	90.5	60		30 (15)	130 (107)
		Nitrobenzene-d5	100	63.2	63		30 (18)	130 (107)

() = LABORATORY INHOUSE LIMIT

Surrogate Summary

SW-846

SDG No.: **P4860**

Client: **Tetra Tech**

Analytical Method: **8270E**

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P4860-09	PH2-BOT-006	2-Fluorobiphenyl	100	66.7	67		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	85.8	57		30 (10)	130 (116)
		Terphenyl-d14	100	60.5	61		30 (10)	130 (105)
P4860-09MS	PH2-BOT-006MS	2-Fluorophenol	150	104	69		30 (18)	130 (112)
		Phenol-d6	150	103	69		30 (15)	130 (107)
		Nitrobenzene-d5	100	71.2	71		30 (18)	130 (107)
P4860-09MSD	PH2-BOT-006MSD	2-Fluorobiphenyl	100	73.5	73		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	109	73		30 (10)	130 (116)
		Terphenyl-d14	100	84.0	84		30 (10)	130 (105)
P4860-09MSD	PH2-BOT-006MSD	2-Fluorophenol	150	102	68		30 (18)	130 (112)
		Phenol-d6	150	103	68		30 (15)	130 (107)
		Nitrobenzene-d5	100	71.9	72		30 (18)	130 (107)
P4860-10	PH2-BOT-005	2-Fluorobiphenyl	100	73.6	74		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	113	75		30 (10)	130 (116)
		Terphenyl-d14	100	84.9	85		30 (10)	130 (105)
P4860-10	PH2-BOT-005	2-Fluorophenol	150	84.1	56		30 (18)	130 (112)
		Phenol-d6	150	85.6	57		30 (15)	130 (107)
		Nitrobenzene-d5	100	59.1	59		30 (18)	130 (107)
PB165029BL	PB165029BL	2-Fluorobiphenyl	100	65.2	65		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	74.0	49		30 (10)	130 (116)
		Terphenyl-d14	100	68.4	68		30 (10)	130 (105)
PB165029BL	PB165029BL	2-Fluorophenol	150	124	83		30 (18)	130 (112)
		Phenol-d6	150	120	80		30 (15)	130 (107)
		Nitrobenzene-d5	100	85.3	85		30 (18)	130 (107)
PB165029BS	PB165029BS	2-Fluorobiphenyl	100	88.5	88		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	126	84		30 (10)	130 (116)
		Terphenyl-d14	100	88.4	88		30 (10)	130 (105)
PB165029BS	PB165029BS	2-Fluorophenol	150	120	80		30 (18)	130 (112)
		Phenol-d6	150	115	77		30 (15)	130 (107)
		Nitrobenzene-d5	100	82.5	82		30 (18)	130 (107)
PB165029BS	PB165029BS	2-Fluorobiphenyl	100	84.9	85		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	128	85		30 (10)	130 (116)
		Terphenyl-d14	100	98.5	99		30 (10)	130 (105)

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4860

Client: Tetra Tech

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: P4860-09MS		Client Sample ID: PH2-BOT-006MS		DataFile: BF140639.D							
Benzaldehyde	1700	0	210	ug/Kg	12	*			20 (10)	160 (86)	
Phenol	1700	0	1600	ug/Kg	94				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	1700	0	1600	ug/Kg	94				70 (54)	130 (125)	
2-Chlorophenol	1700	0	1700	ug/Kg	100				70 (79)	130 (107)	
2-Methylphenol	1700	0	1600	ug/Kg	94				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	1700	0	1700	ug/Kg	100				70 (65)	130 (110)	
Acetophenone	1700	0	1600	ug/Kg	94				70 (75)	130 (111)	
3+4-Methylphenols	1700	0	1600	ug/Kg	94				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	1700	0	1600	ug/Kg	94				70 (59)	130 (119)	
Hexachloroethane	1700	0	1600	ug/Kg	94				20 (65)	160 (117)	
Nitrobenzene	1700	0	1500	ug/Kg	88				70 (70)	130 (119)	
Isophorone	1700	0	1600	ug/Kg	94				70 (76)	130 (122)	
2-Nitrophenol	1700	0	1600	ug/Kg	94				70 (54)	130 (145)	
2,4-Dimethylphenol	1700	0	1900	ug/Kg	112				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	1700	0	1600	ug/Kg	94				70 (68)	130 (112)	
2,4-Dichlorophenol	1700	0	1600	ug/Kg	94				70 (72)	130 (118)	
Naphthalene	1700	0	1600	ug/Kg	94				70 (72)	130 (110)	
4-Chloroaniline	1700	0	680	ug/Kg	40	*			70 (10)	130 (91)	
Hexachlorobutadiene	1700	0	1500	ug/Kg	88				70 (66)	130 (114)	
Caprolactam	1700	0	1600	ug/Kg	94				20 (51)	160 (134)	
4-Chloro-3-methylphenol	1700	0	1600	ug/Kg	94				70 (57)	130 (132)	
2-Methylnaphthalene	1700	0	1600	ug/Kg	94				70 (59)	130 (123)	
Hexachlorocyclopentadiene	3400	0	4700	ug/Kg	138				20 (10)	160 (175)	
2,4,6-Trichlorophenol	1700	0	1600	ug/Kg	94				70 (72)	130 (117)	
2,4,5-Trichlorophenol	1700	0	1700	ug/Kg	100				70 (72)	130 (117)	
1,1-Biphenyl	1700	0	1600	ug/Kg	94				70 (75)	130 (113)	
2-Chloronaphthalene	1700	0	1600	ug/Kg	94				70 (67)	130 (118)	
2-Nitroaniline	1700	0	1600	ug/Kg	94				70 (69)	130 (127)	
Dimethylphthalate	1700	0	1600	ug/Kg	94				70 (70)	130 (113)	
Acenaphthylene	1700	0	1700	ug/Kg	100				70 (79)	130 (118)	
2,6-Dinitrotoluene	1700	0	1600	ug/Kg	94				70 (70)	130 (125)	
3-Nitroaniline	1700	0	940	ug/Kg	55	*			70 (30)	130 (99)	
Acenaphthene	1700	0	1600	ug/Kg	94				70 (70)	130 (121)	
2,4-Dinitrophenol	3400	0	3000	ug/Kg	88				20 (10)	160 (155)	
4-Nitrophenol	3400	0	3600	ug/Kg	106				20 (45)	160 (133)	
Dibenzofuran	1700	0	1600	ug/Kg	94				70 (72)	130 (110)	
2,4-Dinitrotoluene	1700	0	1600	ug/Kg	94				70 (55)	130 (128)	
Diethylphthalate	1700	0	1600	ug/Kg	94				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	1700	0	1600	ug/Kg	94				70 (71)	130 (108)	
Fluorene	1700	0	1600	ug/Kg	94				70 (68)	130 (116)	
4-Nitroaniline	1700	0	1600	ug/Kg	94				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	1700	0	1700	ug/Kg	100				70 (10)	130 (160)	
N-Nitrosodiphenylamine	1700	0	1600	ug/Kg	94				70 (73)	130 (118)	
4-Bromophenyl-phenylether	1700	0	1600	ug/Kg	94				70 (65)	130 (121)	
Hexachlorobenzene	1700	0	1600	ug/Kg	94				70 (67)	130 (118)	
Atrazine	1700	0	1900	ug/Kg	112				70 (79)	130 (127)	

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4860

Client: Tetra Tech

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	3400	0	3400	ug/Kg	100				20 (47)	160 (128)	
Phenanthrene	1700	0	1700	ug/Kg	100				70 (52)	130 (128)	
Anthracene	1700	0	1700	ug/Kg	100				70 (62)	130 (124)	
Carbazole	1700	0	1700	ug/Kg	100				70 (59)	130 (119)	
Di-n-butylphthalate	1700	0	1700	ug/Kg	100				70 (69)	130 (118)	
Fluoranthene	1700	0	1600	ug/Kg	94				70 (44)	130 (125)	
Pyrene	1700	0	1800	ug/Kg	106				70 (26)	130 (142)	
Butylbenzylphthalate	1700	0	1900	ug/Kg	112				70 (64)	130 (126)	
3,3-Dichlorobenzidine	1700	0	1100	ug/Kg	65	*			70 (33)	130 (116)	
Benzo(a)anthracene	1700	0	1700	ug/Kg	100				70 (71)	130 (114)	
Chrysene	1700	0	1600	ug/Kg	94				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	1700	0	2000	ug/Kg	118				70 (42)	130 (169)	
Di-n-octyl phthalate	1700	0	2000	ug/Kg	118				70 (23)	130 (175)	
Benzo(b)fluoranthene	1700	0	1500	ug/Kg	88				70 (67)	130 (121)	
Benzo(k)fluoranthene	1700	0	1600	ug/Kg	94				70 (57)	130 (134)	
Benzo(a)pyrene	1700	0	1800	ug/Kg	106				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	1700	0	1600	ug/Kg	94				70 (40)	130 (129)	
Dibenz(a,h)anthracene	1700	0	1600	ug/Kg	94				70 (43)	130 (123)	
Benzo(g,h,i)perylene	1700	0	1300	ug/Kg	76				70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	1700	0	1600	ug/Kg	94				70 (69)	130 (124)	
1,4-Dioxane	1700	0	1500	ug/Kg	88				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	1700	0	1700	ug/Kg	100				70 (69)	130 (112)	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4860

Client: Tetra Tech

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	P4860-09MSD	Client Sample ID:	PH2-BOT-006MSD					DataFile:	BF140640.D		
Benzaldehyde	1700	0	210	ug/Kg	12	*	0		20 (10)	160 (86)	30 (20)
Phenol	1700	0	1600	ug/Kg	94		0		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	1700	0	1600	ug/Kg	94		0		70 (54)	130 (125)	30 (20)
2-Chlorophenol	1700	0	1600	ug/Kg	94		6		70 (79)	130 (107)	30 (20)
2-Methylphenol	1700	0	1600	ug/Kg	94		0		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	1700	0	1700	ug/Kg	100		0		70 (65)	130 (110)	30 (20)
Acetophenone	1700	0	1600	ug/Kg	94		0		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	1700	0	1600	ug/Kg	94		0		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	1700	0	1600	ug/Kg	94		0		70 (59)	130 (119)	30 (20)
Hexachloroethane	1700	0	1500	ug/Kg	88		7		20 (65)	160 (117)	30 (20)
Nitrobenzene	1700	0	1500	ug/Kg	88		0		70 (70)	130 (119)	30 (20)
Isophorone	1700	0	1600	ug/Kg	94		0		70 (76)	130 (122)	30 (20)
2-Nitrophenol	1700	0	1700	ug/Kg	100		6		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	1700	0	1900	ug/Kg	112		0		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	1700	0	1600	ug/Kg	94		0		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	1700	0	1600	ug/Kg	94		0		70 (72)	130 (118)	30 (20)
Naphthalene	1700	0	1600	ug/Kg	94		0		70 (72)	130 (110)	30 (20)
4-Chloroaniline	1700	0	680	ug/Kg	40	*	0		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	1700	0	1500	ug/Kg	88		0		70 (66)	130 (114)	30 (20)
Caprolactam	1700	0	1700	ug/Kg	100		6		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	1700	0	1600	ug/Kg	94		0		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	1700	0	1600	ug/Kg	94		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	3400	0	4700	ug/Kg	138		0		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	1700	0	1700	ug/Kg	100		6		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	1700	0	1600	ug/Kg	94		6		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	1700	0	1600	ug/Kg	94		0		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	1700	0	1600	ug/Kg	94		0		70 (67)	130 (118)	30 (20)
2-Nitroaniline	1700	0	1600	ug/Kg	94		0		70 (69)	130 (127)	30 (20)
Dimethylphthalate	1700	0	1700	ug/Kg	100		6		70 (70)	130 (113)	30 (20)
Acenaphthylene	1700	0	1700	ug/Kg	100		0		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	1700	0	1600	ug/Kg	94		0		70 (70)	130 (125)	30 (20)
3-Nitroaniline	1700	0	970	ug/Kg	57	*	4		70 (30)	130 (99)	30 (20)
Acenaphthene	1700	0	1600	ug/Kg	94		0		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	3400	0	3200	ug/Kg	94		7		20 (10)	160 (155)	30 (20)
4-Nitrophenol	3400	0	3700	ug/Kg	109		3		20 (45)	160 (133)	30 (20)
Dibenzofuran	1700	0	1700	ug/Kg	100		6		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	1700	0	1600	ug/Kg	94		0		70 (55)	130 (128)	30 (20)
Diethylphthalate	1700	0	1600	ug/Kg	94		0		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	1700	0	1600	ug/Kg	94		0		70 (71)	130 (108)	30 (20)
Fluorene	1700	0	1600	ug/Kg	94		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	1700	0	1600	ug/Kg	94		0		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	1700	0	1800	ug/Kg	106		6		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	1700	0	1700	ug/Kg	100		6		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	1700	0	1600	ug/Kg	94		0		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	1700	0	1600	ug/Kg	94		0		70 (67)	130 (118)	30 (20)
Atrazine	1700	0	2000	ug/Kg	118		5		70 (79)	130 (127)	30 (20)

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4860

Client: Tetra Tech

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	3400	0	3600	ug/Kg	106		6		20 (47)	160 (128)	30 (20)
Phenanthrene	1700	0	1700	ug/Kg	100		0		70 (52)	130 (128)	30 (20)
Anthracene	1700	0	1800	ug/Kg	106		6		70 (62)	130 (124)	30 (20)
Carbazole	1700	0	1700	ug/Kg	100		0		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	1700	0	1700	ug/Kg	100		0		70 (69)	130 (118)	30 (20)
Fluoranthene	1700	0	1600	ug/Kg	94		0		70 (44)	130 (125)	30 (20)
Pyrene	1700	0	1800	ug/Kg	106		0		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	1700	0	1900	ug/Kg	112		0		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	1700	0	1200	ug/Kg	71		9		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	1700	0	1700	ug/Kg	100		0		70 (71)	130 (114)	30 (20)
Chrysene	1700	0	1600	ug/Kg	94		0		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	1700	0	2000	ug/Kg	118		0		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	1700	0	1900	ug/Kg	112		5		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	1700	0	1500	ug/Kg	88		0		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	1700	0	1700	ug/Kg	100		6		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	1700	0	1800	ug/Kg	106		0		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	1700	0	1600	ug/Kg	94		0		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	1700	0	1600	ug/Kg	94		0		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	1700	0	1300	ug/Kg	76		0		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	1700	0	1600	ug/Kg	94		0		70 (69)	130 (124)	30 (20)
1,4-Dioxane	1700	0	1500	ug/Kg	88		0		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	1700	0	1800	ug/Kg	106		6		70 (69)	130 (112)	30 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4860

Client: Tetra Tech

Analytical Method: 8270E

DataFile: BF140445.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Limits		RPD
							Qual	Qual	Low	High	
PB165029BS	Benzaldehyde	1700	180	ug/Kg	11		*		20 (10)	160 (133)	
	Phenol	1700	1400	ug/Kg	82				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1400	ug/Kg	82				70 (60)	130 (101)	
	2-Chlorophenol	1700	1500	ug/Kg	88				70 (65)	130 (112)	
	2-Methylphenol	1700	1400	ug/Kg	82				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1400	ug/Kg	82				70 (51)	130 (100)	
	Acetophenone	1700	1400	ug/Kg	82				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1400	ug/Kg	82				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1400	ug/Kg	82				70 (63)	130 (95)	
	Hexachloroethane	1700	1400	ug/Kg	82				20 (72)	160 (108)	
	Nitrobenzene	1700	1400	ug/Kg	82				70 (57)	130 (101)	
	Isophorone	1700	1400	ug/Kg	82				70 (59)	130 (99)	
	2-Nitrophenol	1700	1500	ug/Kg	88				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1800	ug/Kg	106				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1400	ug/Kg	82				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				70 (62)	130 (107)	
	Naphthalene	1700	1400	ug/Kg	82				70 (62)	130 (100)	
	4-Chloroaniline	1700	810	ug/Kg	48		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1400	ug/Kg	82				70 (53)	130 (98)	
	Caprolactam	1700	1400	ug/Kg	82				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	5700	ug/Kg	173		*		20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1400	ug/Kg	82				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1400	ug/Kg	82				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				70 (58)	130 (99)	
	2-Nitroaniline	1700	1500	ug/Kg	88				70 (66)	130 (101)	
	Dimethylphthalate	1700	1500	ug/Kg	88				70 (61)	130 (99)	
	Acenaphthylene	1700	1500	ug/Kg	88				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1400	ug/Kg	82				70 (61)	130 (104)	
	3-Nitroaniline	1700	910	ug/Kg	54		*		70 (28)	130 (100)	
	Acenaphthene	1700	1600	ug/Kg	94				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	2800	ug/Kg	85				20 (37)	160 (128)	
	4-Nitrophenol	3300	2700	ug/Kg	82				20 (48)	160 (119)	
	Dibenzofuran	1700	1500	ug/Kg	88				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1500	ug/Kg	88				70 (60)	130 (106)	
	Diethylphthalate	1700	1500	ug/Kg	88				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1500	ug/Kg	88				70 (58)	130 (98)	
	Fluorene	1700	1400	ug/Kg	82				70 (61)	130 (101)	
	4-Nitroaniline	1700	1400	ug/Kg	82				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	1500	ug/Kg	88				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1500	ug/Kg	88				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1500	ug/Kg	88				70 (66)	130 (102)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4860

Client: Tetra Tech

Analytical Method: 8270E

DataFile: BF140445.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB165029BS	Hexachlorobenzene	1700	1500	ug/Kg	88				70 (64)	130 (98)		
	Atrazine	1700	1700	ug/Kg	100				70 (47)	130 (152)		
	Pentachlorophenol	3300	2700	ug/Kg	82				20 (67)	160 (105)		
	Phenanthrene	1700	1500	ug/Kg	88				70 (59)	130 (103)		
	Anthracene	1700	1500	ug/Kg	88				70 (61)	130 (105)		
	Carbazole	1700	1400	ug/Kg	82				70 (61)	130 (99)		
	Di-n-butylphthalate	1700	1500	ug/Kg	88				70 (58)	130 (104)		
	Fluoranthene	1700	1400	ug/Kg	82				70 (57)	130 (107)		
	Pyrene	1700	1600	ug/Kg	94				70 (59)	130 (103)		
	Butylbenzylphthalate	1700	1700	ug/Kg	100				70 (55)	130 (103)		
	3,3-Dichlorobenzidine	1700	940	ug/Kg	55		*		70 (42)	130 (91)		
	Benzo(a)anthracene	1700	1600	ug/Kg	94				70 (60)	130 (102)		
	Chrysene	1700	1500	ug/Kg	88				70 (59)	130 (101)		
	bis(2-Ethylhexyl)phthalate	1700	1600	ug/Kg	94				70 (54)	130 (135)		
	Di-n-octyl phthalate	1700	1500	ug/Kg	88				70 (52)	130 (137)		
	Benzo(b)fluoranthene	1700	1400	ug/Kg	82				70 (62)	130 (109)		
	Benzo(k)fluoranthene	1700	1400	ug/Kg	82				70 (62)	130 (109)		
	Benzo(a)pyrene	1700	1600	ug/Kg	94				70 (63)	130 (103)		
	Indeno(1,2,3-cd)pyrene	1700	1700	ug/Kg	100				70 (63)	130 (101)		
	Dibenz(a,h)anthracene	1700	1700	ug/Kg	100				70 (61)	130 (112)		
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				70 (70)	130 (108)		
	1,2,4,5-Tetrachlorobenzene	1700	1400	ug/Kg	82				70 (53)	130 (101)		
	1,4-Dioxane	1700	1200	ug/Kg	71				20 (50)	160 (96)		
	2,3,4,6-Tetrachlorophenol	1700	1500	ug/Kg	88				70 (59)	130 (108)		

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165029BL

Lab Name: CHEMTECH

Contract: CORN02

Lab Code: CHEM Case No.: P4860

SAS No.: P4860 SDG NO.: P4860

Lab File ID: BF140444.D

Lab Sample ID: PB165029BL

Instrument ID: BNA_F

Date Extracted: 11/16/2024

Matrix: (soil/water) SOIL

Date Analyzed: 11/18/2024

Level: (low/med) LOW

Time Analyzed: 10:39

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB165029BS	PB165029BS	BF140445.D	11/18/2024
PH2-BOT-007	P4860-08	BF140578.D	11/22/2024
PH2-BOT-004	P4860-05	BF140579.D	11/22/2024
PH2-BOT-001	P4860-02	BF140588.D	11/22/2024
DUP-01	P4860-01	BF140609.D	11/25/2024
PH2-BOT-006	P4860-09	BF140608.D	11/25/2024
PH2-BOT-009	P4860-06	BF140615.D	11/25/2024
PH2-BOT-003	P4860-04	BF140620.D	11/25/2024
PH2-BOT-008	P4860-07	BF140621.D	11/25/2024
PH2-BOT-002	P4860-03	BF140622.D	11/25/2024
PH2-BOT-006MS	P4860-09MS	BF140639.D	11/26/2024
PH2-BOT-006MSD	P4860-09MSD	BF140640.D	11/26/2024
PH2-BOT-005	P4860-10	BF140641.D	11/26/2024

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: CORN02Lab Code: CHEMSAS No.: P4860 SDG NO.: P4860Lab File ID: BF140331.DDFTPP Injection Date: 11/13/2024Instrument ID: BNA_FDFTPP Injection Time: 08:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.9
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	48.6
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	6.4
275	10.0 - 60.0% of mass 198	28.3
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	88.6
443	15.0 - 24.0% of mass 442	16.7 (18.8) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF140332.D	11/13/2024	09:01
SSTDICC005	SSTDICC005	BF140333.D	11/13/2024	09:27
SSTDICC010	SSTDICC010	BF140334.D	11/13/2024	09:53
SSTDICC020	SSTDICC020	BF140335.D	11/13/2024	10:29
SSTDICC050	SSTDICC050	BF140337.D	11/13/2024	11:21
SSTDICC060	SSTDICC060	BF140338.D	11/13/2024	11:47
SSTDICC080	SSTDICC080	BF140339.D	11/13/2024	12:13
SSTDICCC040	SSTDICCC040	BF140340.D	11/13/2024	12:48



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: CORN02Lab Code: CHEMSAS No.: P4860 SDG NO.: P4860Lab File ID: BF140442.DDFTPP Injection Date: 11/18/2024Instrument ID: BNA_FDFTPP Injection Time: 09:18

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.3
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	36.9
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	48.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	28.7
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	15.3
442	Greater than 50% of mass 198	97.5
443	15.0 - 24.0% of mass 442	18.1 (18.5) 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	BF140443.D	11/18/2024	10:13
PB165029BL	PB165029BL	BF140444.D	11/18/2024	10:39
PB165029BS	PB165029BS	BF140445.D	11/18/2024	11:05



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: CORN02Lab Code: CHEMSAS No.: P4860 SDG NO.: P4860Lab File ID: BF140526.DDFTPP Injection Date: 11/21/2024Instrument ID: BNA_FDFTPP Injection Time: 10:17

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.3
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	35.5
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	48
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	29.2
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.7
442	Greater than 50% of mass 198	99.8
443	15.0 - 24.0% of mass 442	18.1 (18.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF140528.D	11/21/2024	11:13
SSTDICC005	SSTDICC005	BF140529.D	11/21/2024	11:39
SSTDICC010	SSTDICC010	BF140530.D	11/21/2024	12:05
SSTDICC020	SSTDICC020	BF140531.D	11/21/2024	12:32
SSTDICCC040	SSTDICCC040	BF140532.D	11/21/2024	12:58
SSTDICC050	SSTDICC050	BF140533.D	11/21/2024	13:25
SSTDICC060	SSTDICC060	BF140534.D	11/21/2024	13:51
SSTDICC080	SSTDICC080	BF140535.D	11/21/2024	14:18



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: CORN02Lab Code: CHEMSAS No.: P4860 SDG NO.: P4860Lab File ID: BF140563.DDFTPP Injection Date: 11/22/2024Instrument ID: BNA_FDFTPP Injection Time: 08:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.9
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	32.6
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	43
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6
275	10.0 - 60.0% of mass 198	27.3
365	Greater than 1% of mass 198	3.7
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	17.9 (17.9) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140564.D	11/22/2024	09:20
PH2-BOT-007	P4860-08	BF140578.D	11/22/2024	15:32
PH2-BOT-004	P4860-05	BF140579.D	11/22/2024	15:58
PH2-BOT-001	P4860-02	BF140588.D	11/22/2024	19:53



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: CORN02Lab Code: CHEMSAS No.: P4860 SDG NO.: P4860Lab File ID: BF140603.DDFTPP Injection Date: 11/25/2024Instrument ID: BNA_FDFTPP Injection Time: 15:23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.9
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	34.8
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	46.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	28
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.4 (18.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140604.D	11/25/2024	15:49
PH2-BOT-006	P4860-09	BF140608.D	11/25/2024	17:41
DUP-01	P4860-01	BF140609.D	11/25/2024	18:07
PH2-BOT-009	P4860-06	BF140615.D	11/25/2024	20:45
PH2-BOT-003	P4860-04	BF140620.D	11/25/2024	22:55
PH2-BOT-008	P4860-07	BF140621.D	11/25/2024	23:22
PH2-BOT-002	P4860-03	BF140622.D	11/25/2024	23:48



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: CORN02Lab Code: CHEMSAS No.: P4860 SDG NO.: P4860Lab File ID: BF140628.DDFTPP Injection Date: 11/26/2024Instrument ID: BNA_FDFTPP Injection Time: 09:09

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.5
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	37.7
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	48.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	28.9
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	15.1
442	Greater than 50% of mass 198	96.5
443	15.0 - 24.0% of mass 442	18.3 (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	BF140629.D	11/26/2024	09:35
PH2-BOT-006MS	P4860-09MS	BF140639.D	11/26/2024	14:03
PH2-BOT-006MSD	P4860-09MSD	BF140640.D	11/26/2024	14:29
PH2-BOT-005	P4860-10	BF140641.D	11/26/2024	14:55

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/18/2024

Lab File ID: BF140443.D Time Analyzed: 10:13

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	140634	6.875	521097	8.16	286394	9.92
UPPER LIMIT	281268	7.375	1042190	8.657	572788	10.416
LOWER LIMIT	70317	6.375	260549	7.657	143197	9.416
EPA SAMPLE NO.						
01 PB165029BL	142751	6.88	545917	8.15	305122	9.91
02 PB165029BS	142797	6.88	543909	8.16	303339	9.92

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/18/2024

Lab File ID: BF140443.D Time Analyzed: 10:13

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	525142	11.404	270046	14.074	249102	15.604
UPPER LIMIT	1050280	11.904	540092	14.574	498204	16.104
LOWER LIMIT	262571	10.904	135023	13.574	124551	15.104
EPA SAMPLE NO.						
01 PB165029BL	581224	11.40	355427	14.05	295657	15.55
02 PB165029BS	568567	11.40	301677	14.06	262350	15.55

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/22/2024

Lab File ID: BF140564.D Time Analyzed: 09:20

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	98979	6.869	364482	8.15	206333	9.91
UPPER LIMIT	197958	7.369	728964	8.651	412666	10.41
LOWER LIMIT	49489.5	6.369	182241	7.651	103167	9.41
EPA SAMPLE NO.						
01 PH2-BOT-004	90927	6.87	332795	8.15	173346	9.90
02 PH2-BOT-007	93283	6.87	346410	8.15	184115	9.90
03 PH2-BOT-001	91972	6.87	309675	8.15	141425	9.90

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.: P4860 SAS No.: P4860 SDG NO.: P4860

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/22/2024

Lab File ID: BF140564.D Time Analyzed: 09:20

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	385080	11.398	243124	14.051	183783	15.539
UPPER LIMIT	770160	11.898	486248	14.551	367566	16.039
LOWER LIMIT	192540	10.898	121562	13.551	91891.5	15.039
EPA SAMPLE NO.						
01 PH2-BOT-004	323538	11.40	178379	14.05	173467	15.53
02 PH2-BOT-007	340852	11.40	203007	14.05	190451	15.53
03 PH2-BOT-001	223631	11.40	148537	14.05	113324	15.53

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/25/2024

Lab File ID: BF140604.D Time Analyzed: 15:49

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	106607	6.869	393427	8.15	218835	9.91
UPPER LIMIT	213214	7.369	786854	8.651	437670	10.41
LOWER LIMIT	53303.5	6.369	196714	7.651	109418	9.41
EPA SAMPLE NO.						
01 PH2-BOT-002	57850	6.87	212247	8.15	114728	9.90
02 PH2-BOT-003	59191	6.87	215928	8.15	117690	9.90
03 PH2-BOT-009	56272	6.87	212229	8.15	114630	9.90
04 PH2-BOT-008	56779	6.87	211702	8.15	113735	9.90
05 DUP-01	64351	6.87	240053	8.15	128312	9.90
06 PH2-BOT-006	65730	6.87	249226	8.15	135754	9.90

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.: P4860 SAS No.: P4860 SDG NO.: P4860

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/25/2024

Lab File ID: BF140604.D Time Analyzed: 15:49

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	396344	11.398	217927	14.051	192376	15.551
UPPER LIMIT	792688	11.898	435854	14.551	384752	16.051
LOWER LIMIT	198172	10.898	108964	13.551	96188	15.051
EPA SAMPLE NO.						
01 PH2-BOT-002	210520	11.39	124009	14.05	108011	15.54
02 PH2-BOT-003	222510	11.39	134073	14.04	132029	15.53
03 PH2-BOT-009	214306	11.39	141699	14.05	130450	15.54
04 PH2-BOT-008	220246	11.39	128275	14.04	122422	15.53
05 DUP-01	245251	11.39	151880	14.05	134969	15.54
06 PH2-BOT-006	253640	11.39	176049	14.05	146465	15.55

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG NO.: P4860

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/26/2024

Lab File ID: BF140629.D Time Analyzed: 09:35

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	116102	6.875	431552	8.16	243269	9.91
UPPER LIMIT	232204	7.375	863104	8.657	486538	10.41
LOWER LIMIT	58051	6.375	215776	7.657	121635	9.41
EPA SAMPLE NO.						
01 PH2-BOT-006MS	72875	6.87	271368	8.15	144034	9.91
02 PH2-BOT-006MSD	75738	6.87	275981	8.15	148258	9.91
03 PH2-BOT-005	73436	6.87	269764	8.15	139709	9.90

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.: P4860 SAS No.: P4860 SDG NO.: P4860

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/26/2024

Lab File ID: BF140629.D Time Analyzed: 09:35

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	448777	11.404	250776	14.051	214776	15.551
UPPER LIMIT	897554	11.904	501552	14.551	429552	16.051
LOWER LIMIT	224389	10.904	125388	13.551	107388	15.051
EPA SAMPLE NO.						
01 PH2-BOT-006MS	272823	11.40	144480	14.05	156989	15.54
02 PH2-BOT-006MSD	278787	11.40	147921	14.05	159754	15.54
03 PH2-BOT-005	252976	11.40	141346	14.05	153491	15.54

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:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	DUP-01	SDG No.:	P4860
Lab Sample ID:	P4860-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	96.8
Sample Wt/Vol:	30.09	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
		Final Vol:	1000 uL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140609.D	1	11/16/24 08:51	11/25/24 18:07	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	UQ	190	340	ug/Kg
108-95-2	Phenol	85.4	U	85.4	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	86.2	U	86.2	180	ug/Kg
95-57-8	2-Chlorophenol	86.0	U	86.0	180	ug/Kg
95-48-7	2-Methylphenol	83.0	U	83.0	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	93.6	U	93.6	180	ug/Kg
98-86-2	Acetophenone	89.5	U	89.5	180	ug/Kg
65794-96-9	3+4-Methylphenols	82.2	U	82.2	340	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	41.5	U	41.5	82.4	ug/Kg
67-72-1	Hexachloroethane	85.5	U	85.5	180	ug/Kg
98-95-3	Nitrobenzene	93.5	U	93.5	180	ug/Kg
78-59-1	Isophorone	87.1	U	87.1	180	ug/Kg
88-75-5	2-Nitrophenol	97.3	U	97.3	180	ug/Kg
105-67-9	2,4-Dimethylphenol	96.0	U	96.0	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	88.4	U	88.4	180	ug/Kg
120-83-2	2,4-Dichlorophenol	77.8	U	77.8	180	ug/Kg
91-20-3	Naphthalene	85.1	U	85.1	180	ug/Kg
106-47-8	4-Chloroaniline	85.1	UQ	85.1	180	ug/Kg
87-68-3	Hexachlorobutadiene	85.8	U	85.8	180	ug/Kg
105-60-2	Caprolactam	89.4	U	89.4	340	ug/Kg
59-50-7	4-Chloro-3-methylphenol	79.8	U	79.8	180	ug/Kg
91-57-6	2-Methylnaphthalene	85.0	U	85.0	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	UQ	160	340	ug/Kg
88-06-2	2,4,6-Trichlorophenol	73.5	U	73.5	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	76.2	U	76.2	180	ug/Kg
92-52-4	1,1-Biphenyl	90.0	U	90.0	180	ug/Kg
91-58-7	2-Chloronaphthalene	85.8	U	85.8	180	ug/Kg
88-74-4	2-Nitroaniline	97.8	U	97.8	180	ug/Kg
131-11-3	Dimethylphthalate	84.1	U	84.1	180	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	DUP-01	SDG No.:	P4860
Lab Sample ID:	P4860-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	96.8
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140609.D	1	11/16/24 08:51	11/25/24 18:07	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	89.1	U	89.1	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	85.7	U	85.7	180	ug/Kg
99-09-2	3-Nitroaniline	91.9	UQ	91.9	180	ug/Kg
83-32-9	Acenaphthene	83.5	U	83.5	180	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	340	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	340	ug/Kg
132-64-9	Dibenzofuran	86.9	U	86.9	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	88.8	U	88.8	180	ug/Kg
84-66-2	Diethylphthalate	82.5	U	82.5	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	88.2	U	88.2	180	ug/Kg
86-73-7	Fluorene	88.1	U	88.1	180	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	340	ug/Kg
86-30-6	n-Nitrosodiphenylamine	84.0	U	84.0	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	81.3	U	81.3	180	ug/Kg
118-74-1	Hexachlorobenzene	87.5	U	87.5	180	ug/Kg
1912-24-9	Atrazine	94.1	U	94.1	180	ug/Kg
87-86-5	Pentachlorophenol	79.6	U	79.6	340	ug/Kg
85-01-8	Phenanthrene	86.5	U	86.5	180	ug/Kg
120-12-7	Anthracene	86.9	U	86.9	180	ug/Kg
86-74-8	Carbazole	82.7	U	82.7	180	ug/Kg
84-74-2	Di-n-butylphthalate	86.8	U	86.8	180	ug/Kg
206-44-0	Fluoranthene	84.1	U	84.1	180	ug/Kg
129-00-0	Pyrene	85.5	U	85.5	180	ug/Kg
85-68-7	Butylbenzylphthalate	99.7	U	99.7	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	100	UQ	100	340	ug/Kg
56-55-3	Benzo(a)anthracene	83.1	U	83.1	180	ug/Kg
218-01-9	Chrysene	81.9	U	81.9	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	93.7	U	93.7	180	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	340	ug/Kg
205-99-2	Benzo(b)fluoranthene	83.5	U	83.5	180	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	DUP-01	SDG No.:	P4860
Lab Sample ID:	P4860-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	96.8
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140609.D	1	11/16/24 08:51	11/25/24 18:07	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	85.1	U	85.1	180	ug/Kg
50-32-8	Benzo(a)pyrene	95.8	U	95.8	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	80.4	U	80.4	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	83.6	U	83.6	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	82.5	U	82.5	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	89.4	U	89.4	180	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	76.9	U	76.9	180	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	98.6		30 (18) - 130 (112)	66%	SPK: 150
13127-88-3	Phenol-d6	97.7		30 (15) - 130 (107)	65%	SPK: 150
4165-60-0	Nitrobenzene-d5	67.9		30 (18) - 130 (107)	68%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.5		30 (20) - 130 (109)	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	92.4		30 (10) - 130 (116)	62%	SPK: 150
1718-51-0	Terphenyl-d14	71.0		30 (10) - 130 (105)	71%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	64400	6.869
1146-65-2	Naphthalene-d8	240000	8.151
15067-26-2	Acenaphthene-d10	128000	9.904
1517-22-2	Phenanthrene-d10	245000	11.392
1719-03-5	Chrysene-d12	152000	14.045
1520-96-3	Perylene-d12	135000	15.539

TENTATIVE IDENTIFIED COMPOUNDS

000119-61-9	Benzophenone	160	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	260	J	11.9	ug/Kg
1000197-14-1	4b,8-Dimethyl-2-isopropylphenanthr	85.1	J	12.3	ug/Kg
006566-19-4	10,18-Bisnorabieta-5,7,9(10),11,13	120	J	12.6	ug/Kg
000483-65-8	Retene	250	J	13.1	ug/Kg
000629-94-7	Heneicosane	72.8	J	13.9	ug/Kg
000630-02-4	Octacosane	80.7	J	15.2	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	DUP-01	SDG No.:	P4860
Lab Sample ID:	P4860-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	96.8
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140609.D	1	11/16/24 08:51	11/25/24 18:07	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
	unknown16.286	210	J		16.3	ug/Kg
000566-88-1	Cholestan-3-one, (5.alpha.)-	200	J		16.4	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DUP-01

Quant Time: Nov 26 00:08:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	64351	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	240053	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	128312	20.000	ng	-0.01
64) Phenanthrene-d10	11.392	188	245251	20.000	ng	-0.01
76) Chrysene-d12	14.045	240	151880	20.000	ng	0.00
86) Perylene-d12	15.539	264	134969	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	371969	98.624	ng	0.00
7) Phenol-d6	6.504	99	486900	97.651	ng	-0.01
23) Nitrobenzene-d5	7.428	82	318496	67.865	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	126860	92.443	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	632848	73.486	ng	-0.01
79) Terphenyl-d14	12.980	244	692564	71.004	ng	-0.01

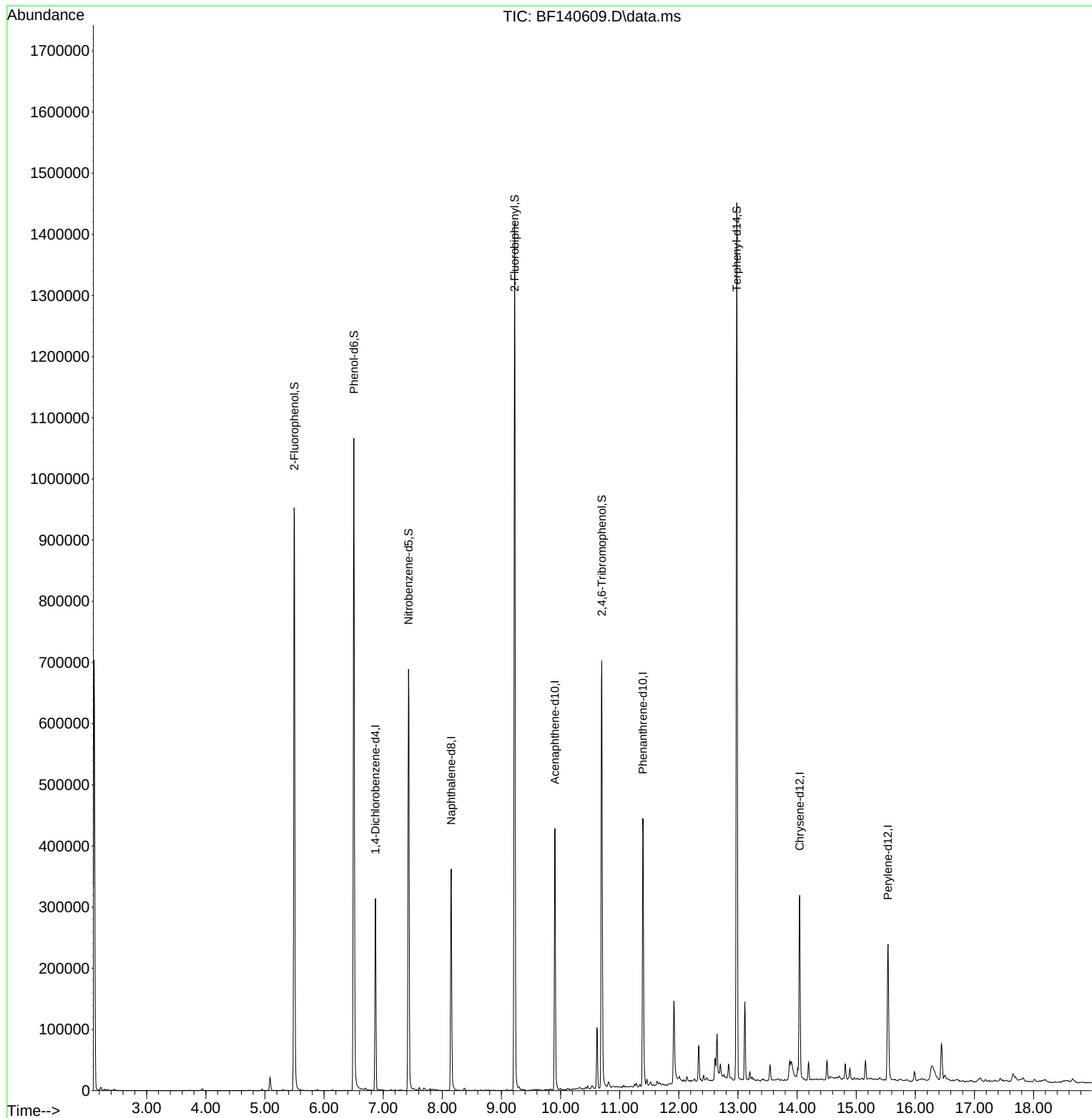
Target Compounds	Qvalue

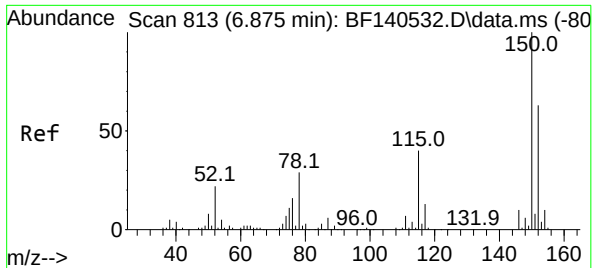
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DUP-01

Quant Time: Nov 26 00:08:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

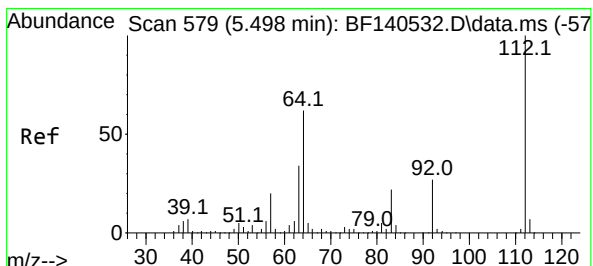
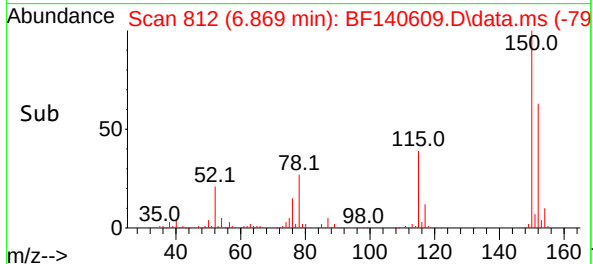
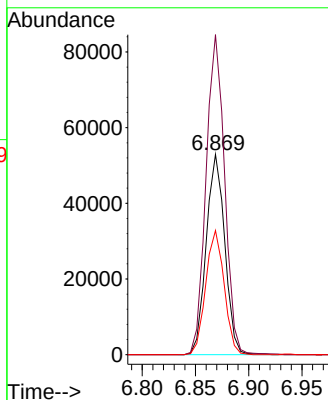
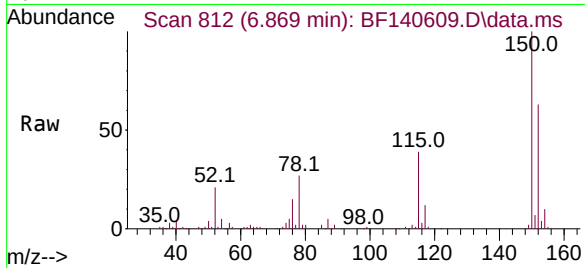




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 813
Delta R.T. -0.006 min
Lab File: BF140609.D
Acq: 25 Nov 2024 18:07

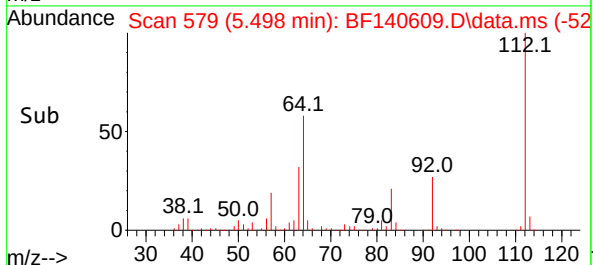
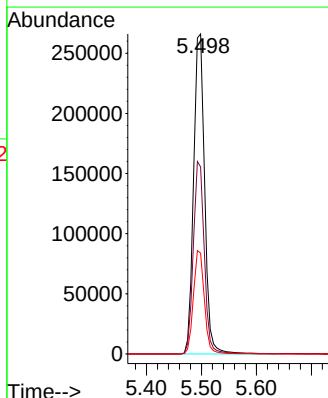
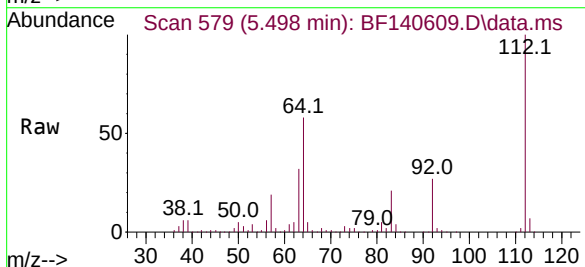
Instrument :
BNA_F
ClientSampleId :
DUP-01

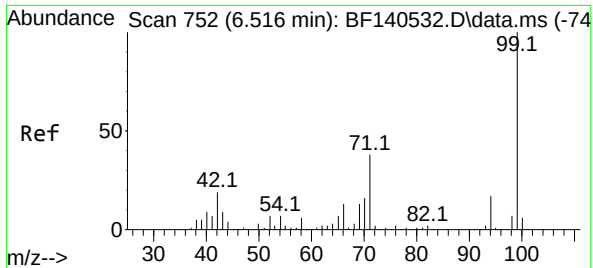
Tgt Ion:152 Resp: 64351
Ion Ratio Lower Upper
152 100
150 159.8 128.5 192.7
115 62.0 50.2 75.4



#5
2-Fluorophenol
Concen: 98.624 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF140609.D
Acq: 25 Nov 2024 18:07

Tgt Ion:112 Resp: 371969
Ion Ratio Lower Upper
112 100
64 58.5 49.2 73.8
63 31.5 27.0 40.4

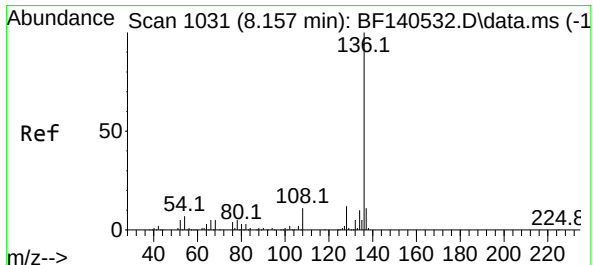
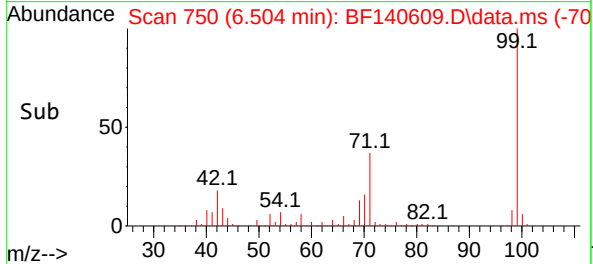
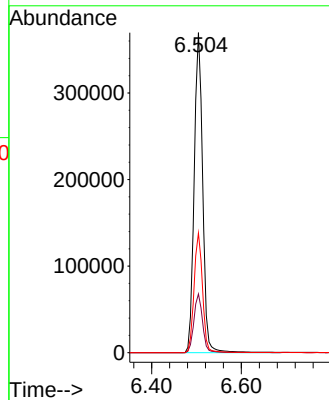
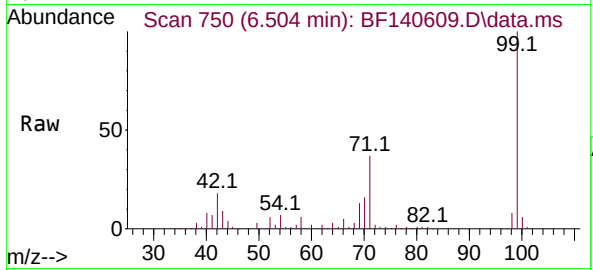




#7
Phenol-d6
Concen: 97.651 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF140609.D
Acq: 25 Nov 2024 18:07

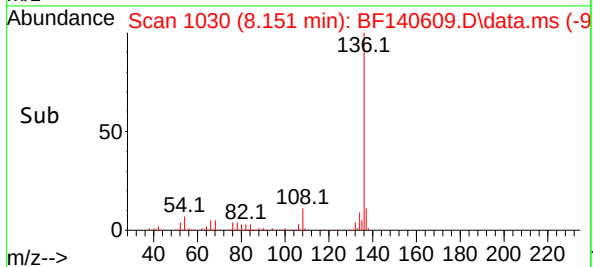
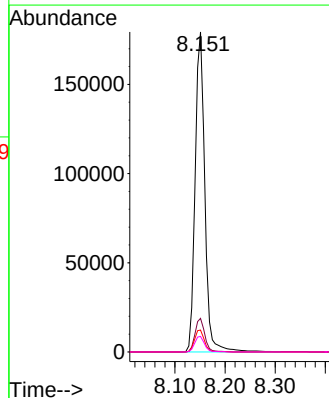
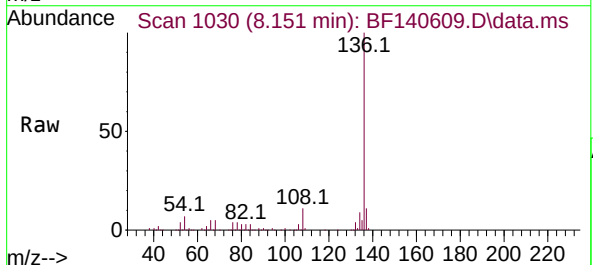
Instrument :
BNA_F
ClientSampleId :
DUP-01

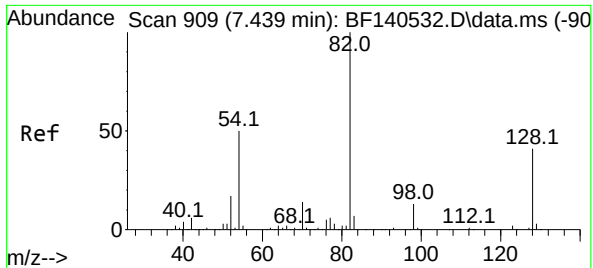
Tgt Ion: 99 Resp: 486900
Ion Ratio Lower Upper
99 100
42 18.4 15.4 23.0
71 37.4 30.6 46.0



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140609.D
Acq: 25 Nov 2024 18:07

Tgt Ion: 136 Resp: 240053
Ion Ratio Lower Upper
136 100
137 10.5 8.6 13.0
54 6.8 5.8 8.8
68 4.8 4.1 6.1





#23

Nitrobenzene-d5

Concen: 67.865 ng

RT: 7.428 min Scan# 90

Delta R.T. -0.012 min

Lab File: BF140609.D

Acq: 25 Nov 2024 18:07

Instrument :

BNA_F

ClientSampleId :

DUP-01

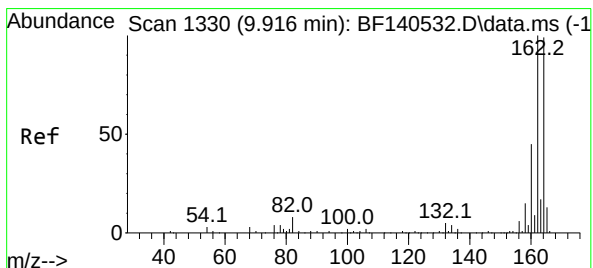
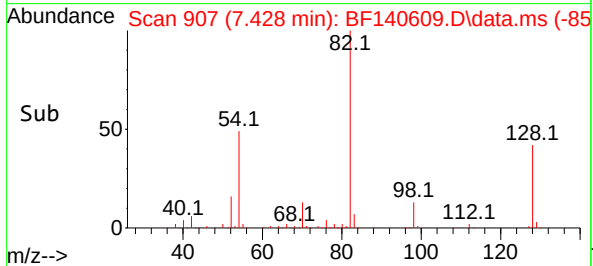
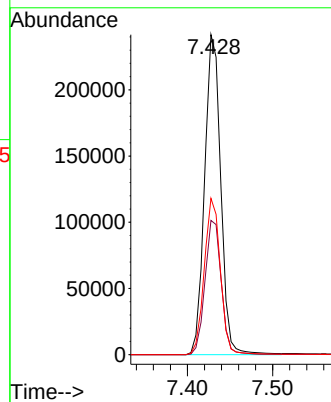
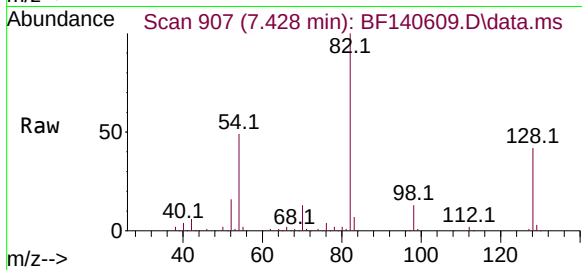
Tgt Ion: 82 Resp: 318496

Ion Ratio Lower Upper

82 100

128 41.9 33.0 49.4

54 48.9 39.5 59.3



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.904 min Scan# 1328

Delta R.T. -0.012 min

Lab File: BF140609.D

Acq: 25 Nov 2024 18:07

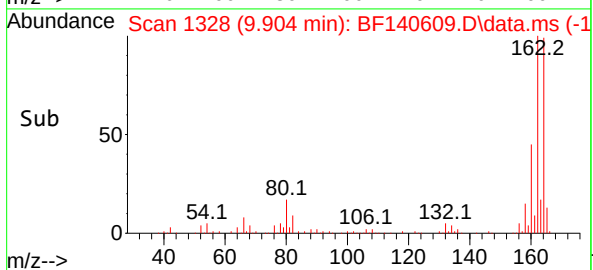
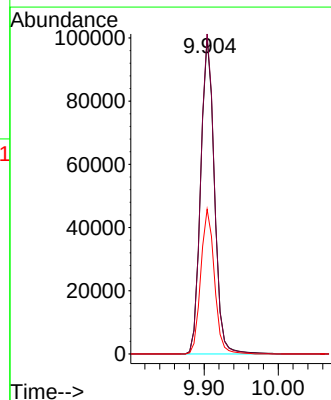
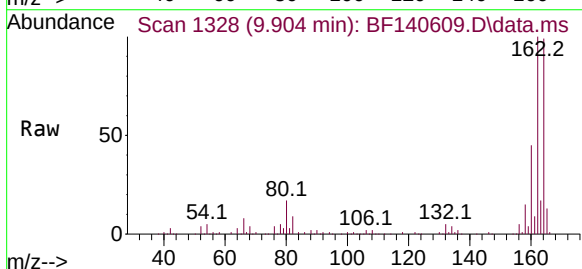
Tgt Ion:164 Resp: 128312

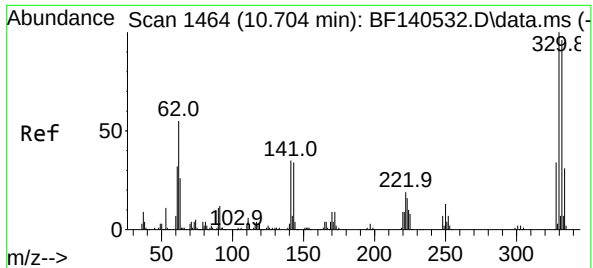
Ion Ratio Lower Upper

164 100

162 101.2 80.6 120.8

160 45.7 36.2 54.4

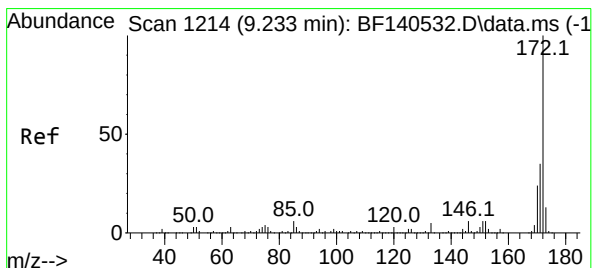
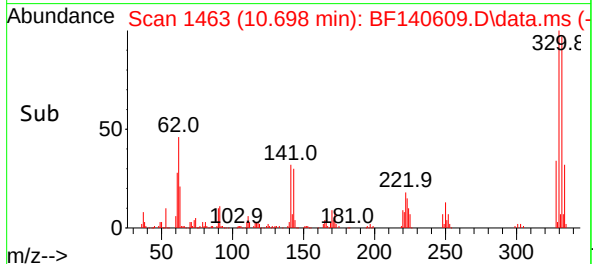
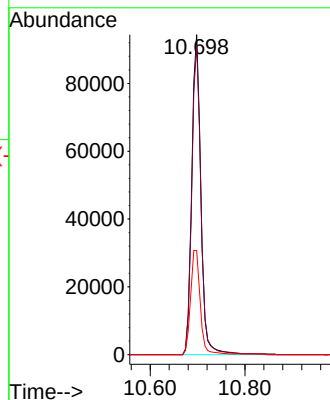
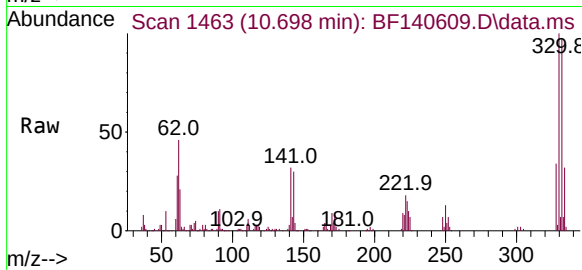




#42
2,4,6-Tribromophenol
Concen: 92.443 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.006 min
Lab File: BF140609.D
Acq: 25 Nov 2024 18:07

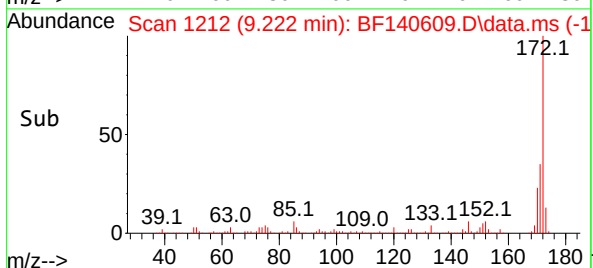
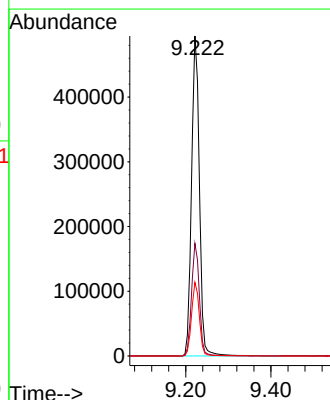
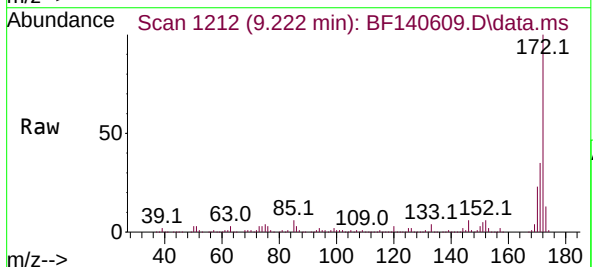
Instrument :
BNA_F
ClientSampleId :
DUP-01

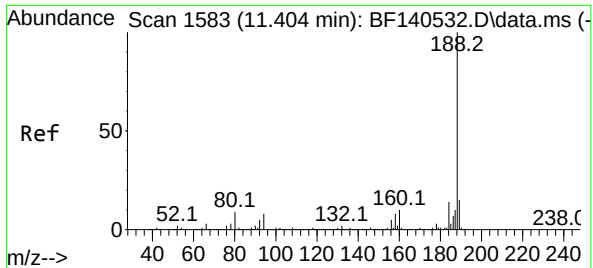
Tgt Ion:330 Resp: 126860
Ion Ratio Lower Upper
330 100
332 96.4 76.9 115.3
141 34.6 26.7 40.1



#45
2-Fluorobiphenyl
Concen: 73.486 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140609.D
Acq: 25 Nov 2024 18:07

Tgt Ion:172 Resp: 632848
Ion Ratio Lower Upper
172 100
171 35.2 28.4 42.6
170 23.0 19.0 28.6

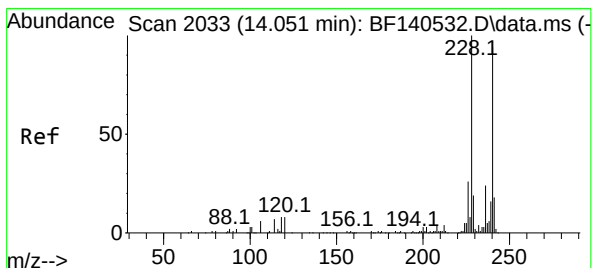
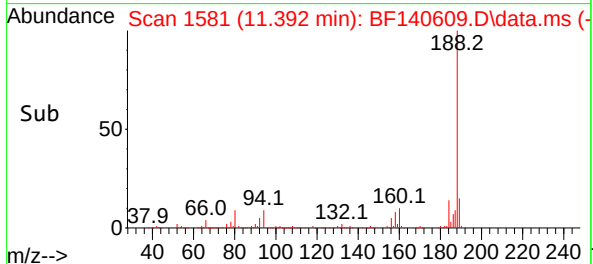
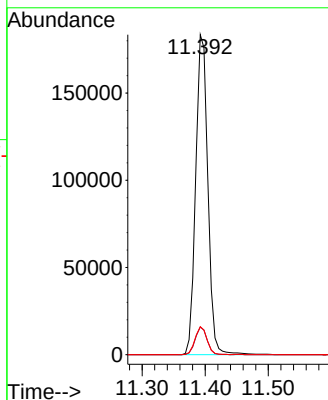
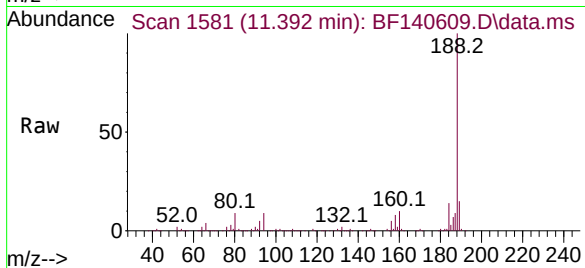




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF140609.D
Acq: 25 Nov 2024 18:07

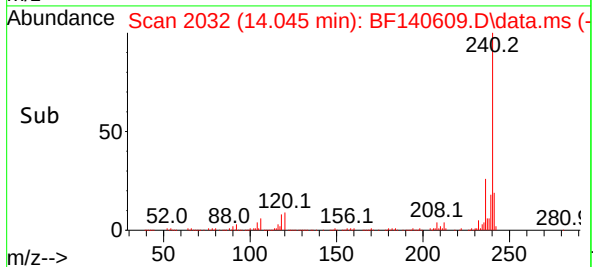
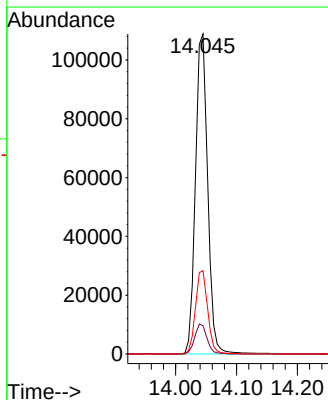
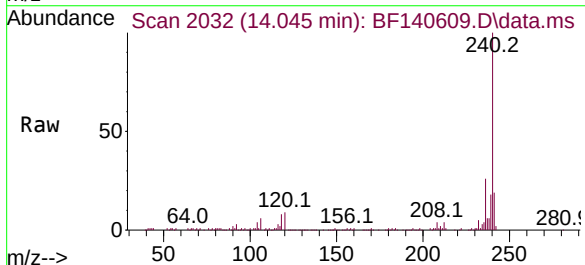
Instrument :
BNA_F
ClientSampleId :
DUP-01

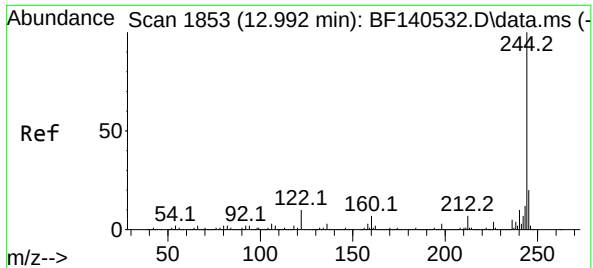
Tgt Ion:188 Resp: 245251
Ion Ratio Lower Upper
188 100
94 8.6 6.4 9.6
80 8.8 6.9 10.3



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140609.D
Acq: 25 Nov 2024 18:07

Tgt Ion:240 Resp: 151880
Ion Ratio Lower Upper
240 100
120 8.8 7.3 10.9
236 26.1 20.6 31.0

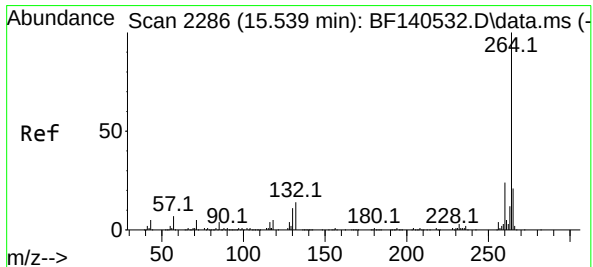
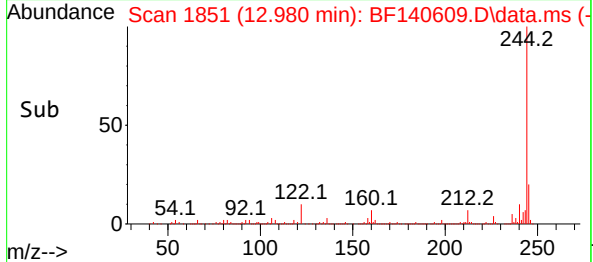
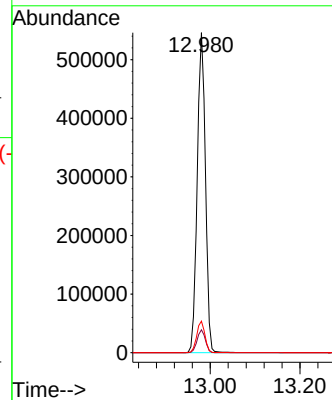
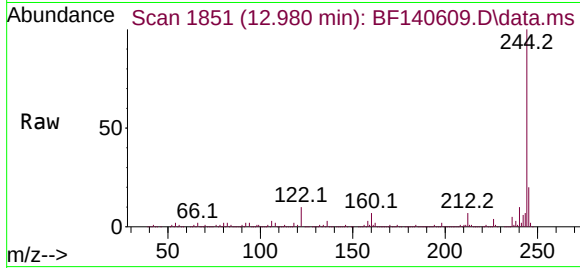




#79
Terphenyl-d14
Concen: 71.004 ng
RT: 12.980 min Scan# 1851
Delta R.T. -0.012 min
Lab File: BF140609.D
Acq: 25 Nov 2024 18:07

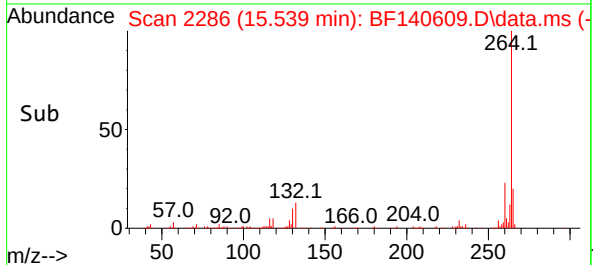
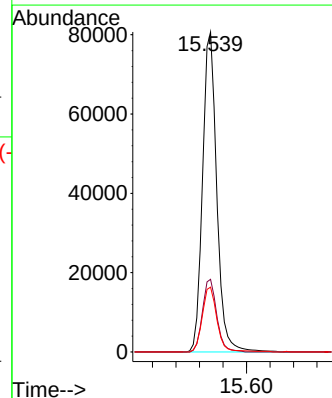
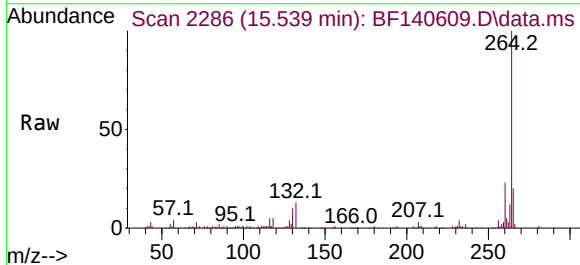
Instrument :
BNA_F
ClientSampleId :
DUP-01

Tgt Ion:244 Resp: 692564
Ion Ratio Lower Upper
244 100
212 7.1 5.8 8.8
122 9.8 8.0 12.0



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2286
Delta R.T. -0.000 min
Lab File: BF140609.D
Acq: 25 Nov 2024 18:07

Tgt Ion:264 Resp: 134969
Ion Ratio Lower Upper
264 100
260 22.7 19.0 28.6
265 20.2 16.6 25.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
 Data File : BF140609.D
 Acq On : 25 Nov 2024 18:07
 Operator : RC/JU
 Sample : P4860-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DUP-01

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-BF112124.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140609.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.087	504	509	518	rVB	21181	31645	1.74%	0.255%
2	5.492	573	578	594	rBV	952643	1322198	72.86%	10.637%
3	6.504	744	750	771	rBV	1066743	1437303	79.21%	11.563%
4	6.869	807	812	819	rBV	313561	379664	20.92%	3.054%
5	7.428	902	907	918	rBV	688756	908768	50.08%	7.311%
6	8.151	1024	1030	1044	rBV	361539	478807	26.39%	3.852%
7	9.222	1207	1212	1222	rBV	1417930	1786621	98.46%	14.373%
8	9.904	1323	1328	1340	rBV	427158	546386	30.11%	4.396%
9	10.616	1444	1449	1457	rBV	99351	126824	6.99%	1.020%
10	10.698	1457	1463	1477	rVV	698988	969983	53.45%	7.804%
11	10.810	1477	1482	1489	rVB4	9027	19825	1.09%	0.159%
12	11.392	1576	1581	1589	rBV	438315	601408	33.14%	4.838%
13	11.916	1665	1670	1682	rBV	134906	228074	12.57%	1.835%
14	12.339	1737	1742	1746	rBV2	57119	74573	4.11%	0.600%
15	12.615	1784	1789	1791	rBV	35097	53959	2.97%	0.434%
16	12.645	1791	1794	1800	rVV	72874	103878	5.72%	0.836%
17	12.704	1800	1804	1810	rVB	19837	34090	1.88%	0.274%
18	12.839	1823	1827	1834	rVB2	22493	31841	1.75%	0.256%
19	12.980	1845	1851	1856	rBV	1433570	1814641	100.00%	14.599%
20	13.115	1869	1874	1879	rBV	127615	157157	8.66%	1.264%
21	13.545	1942	1947	1952	rBV	24399	32950	1.82%	0.265%
22	13.874	1998	2003	2005	rBV	29293	45690	2.52%	0.368%
23	14.045	2027	2032	2043	rVB	300603	432045	23.81%	3.476%
24	14.192	2053	2057	2062	rVB	28407	36959	2.04%	0.297%
25	14.504	2106	2110	2115	rBV	31032	41788	2.30%	0.336%
26	14.815	2159	2163	2169	rVB	24351	33859	1.87%	0.272%
27	14.892	2173	2176	2183	rVB	17829	24382	1.34%	0.196%
28	15.157	2216	2221	2226	rBV	29850	43815	2.41%	0.352%
29	15.539	2280	2286	2297	rBV	221846	372267	20.51%	2.995%
30	15.986	2358	2362	2368	rVB2	14658	23319	1.29%	0.188%
31	16.286	2405	2413	2433	rVB2	22236	111314	6.13%	0.896%
32	16.445	2434	2440	2445	rBV2	58154	105767	5.83%	0.851%
33	17.656	2641	2646	2650	rBV6	8622	18230	1.00%	0.147%

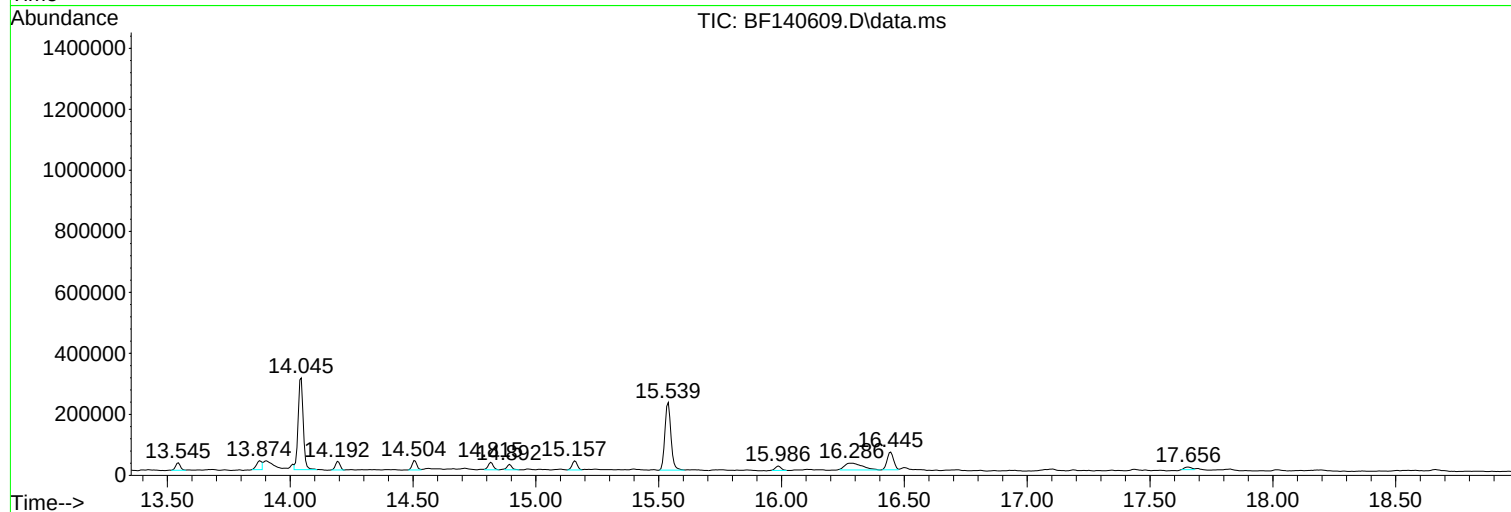
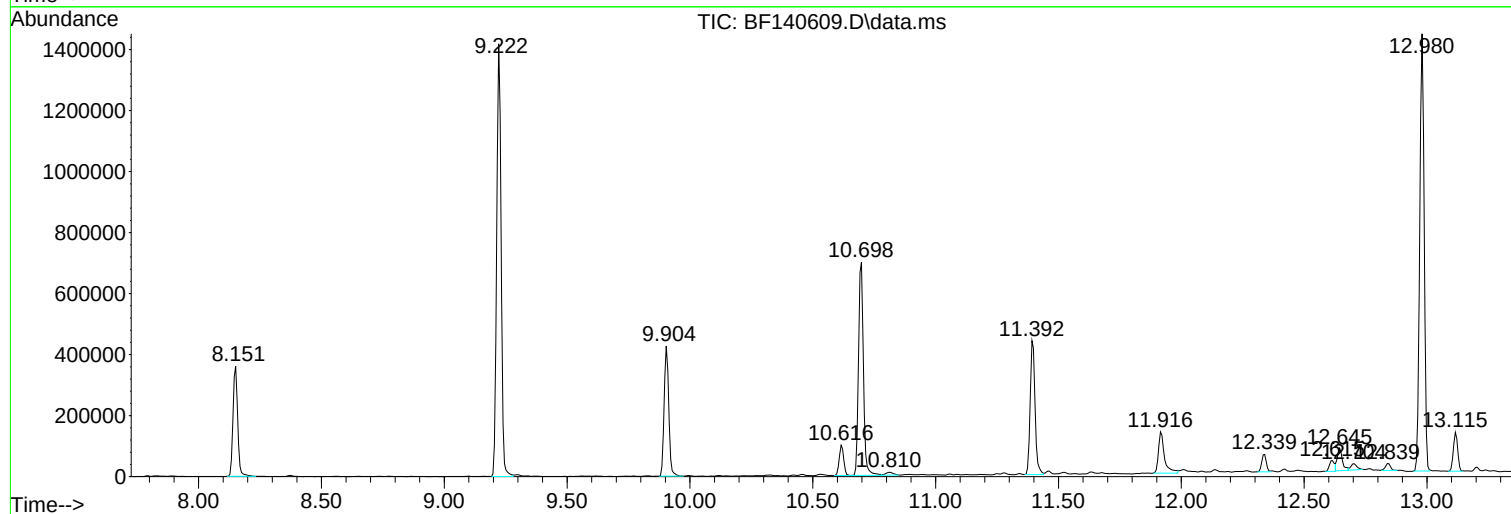
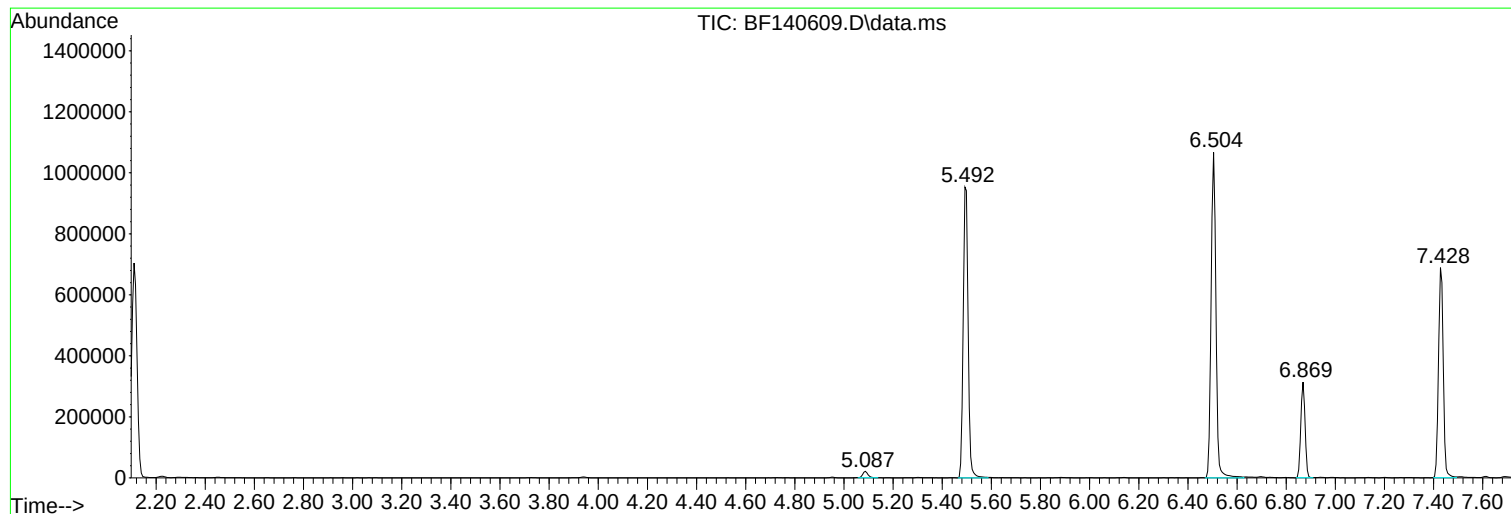
Sum of corrected areas: 12430030

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DUP-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DUP-01

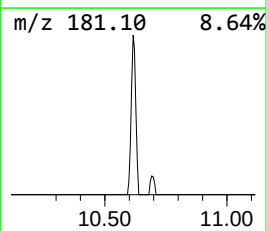
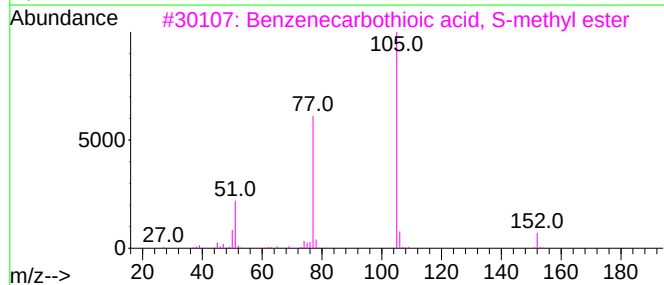
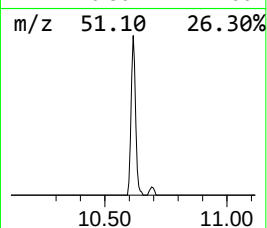
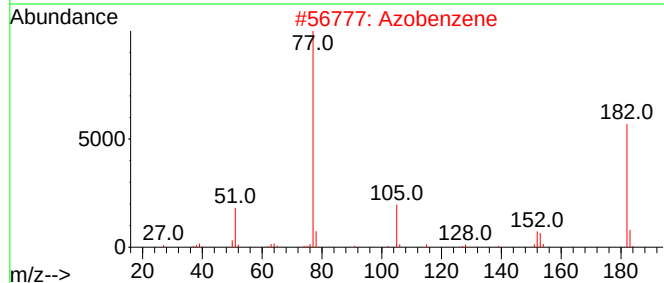
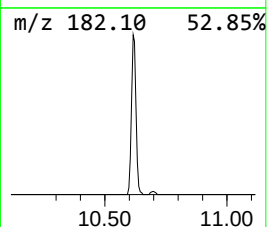
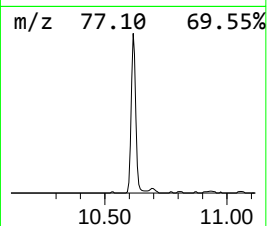
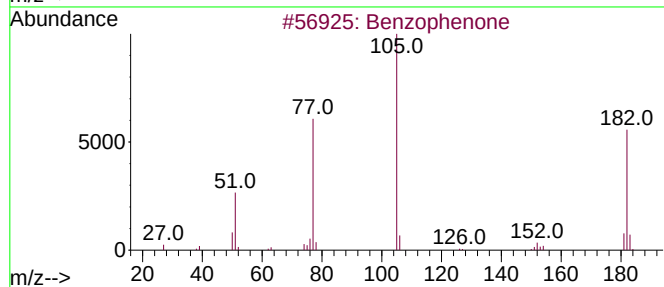
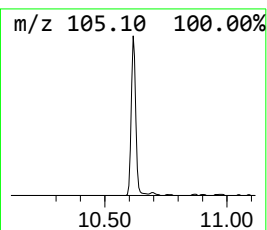
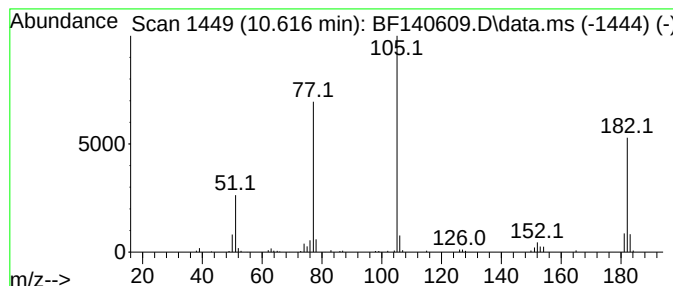
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Benzophenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.616	4.64 ng	126824	Acenaphthene-d10	9.904

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Azobenzene	182	C12H10N2	000103-33-3	64
3			Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
4			N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	49
5			Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	49



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

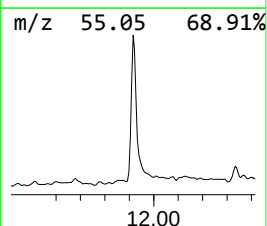
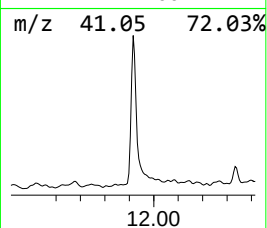
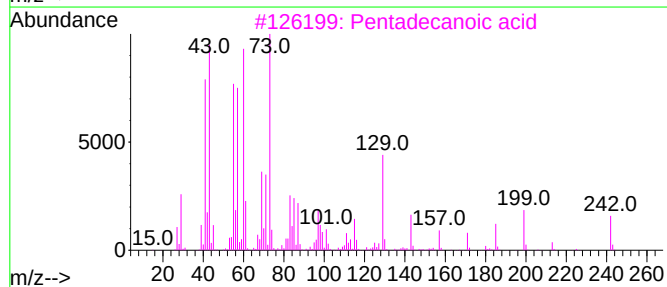
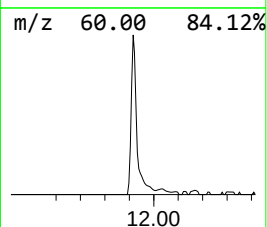
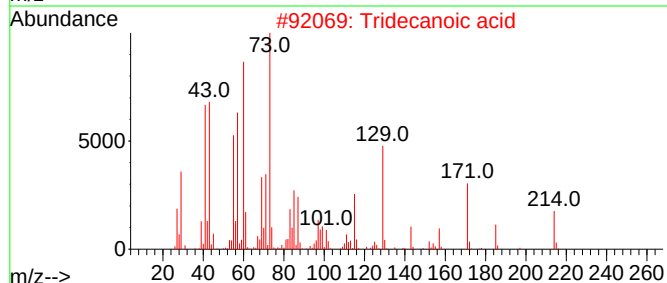
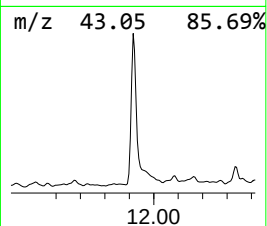
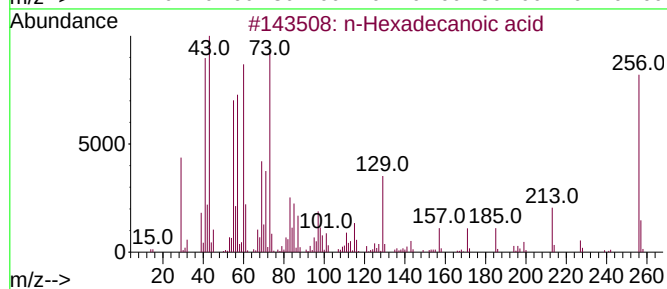
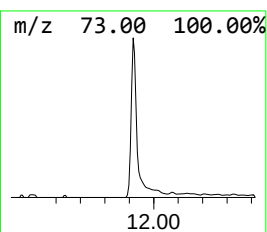
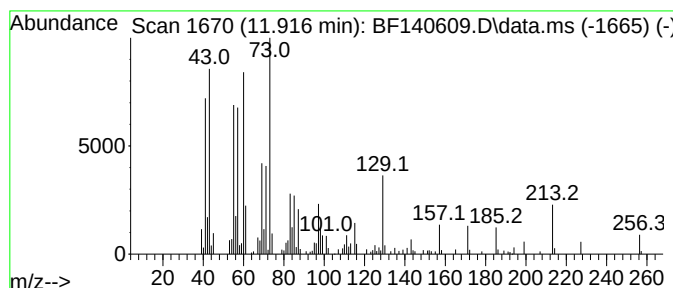
Instrument :
BNA_F
ClientSampleId :
DUP-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 n-Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.916	7.58 ng	228074	Phenanthrene-d10	11.392	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	93
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5	8-Methylnonanoic acid	172	C10H20O2	005963-14-4	60



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

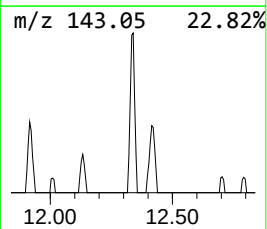
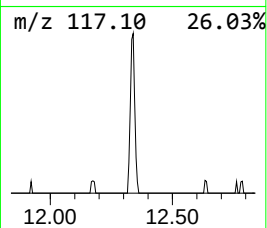
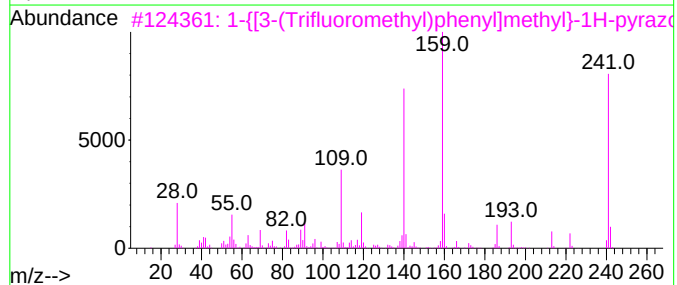
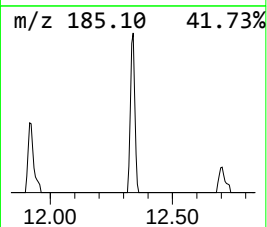
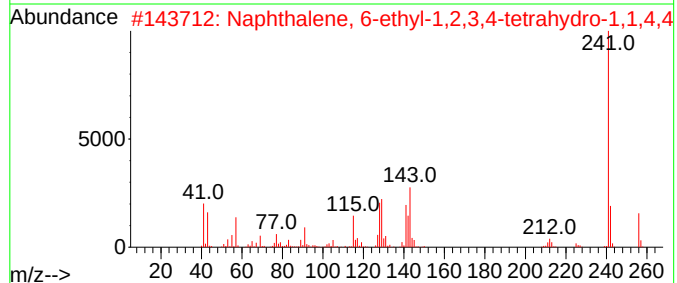
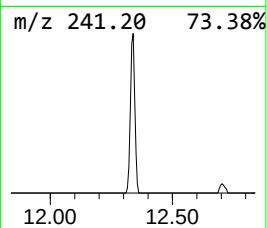
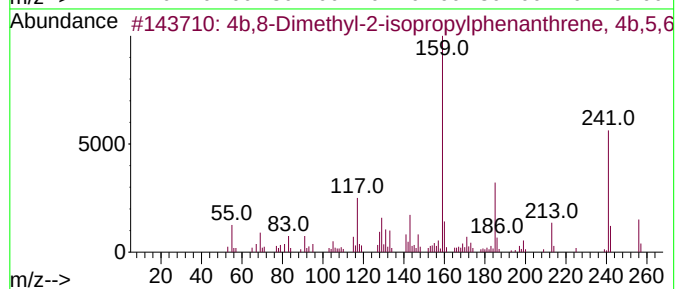
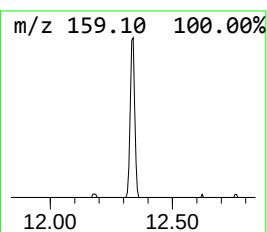
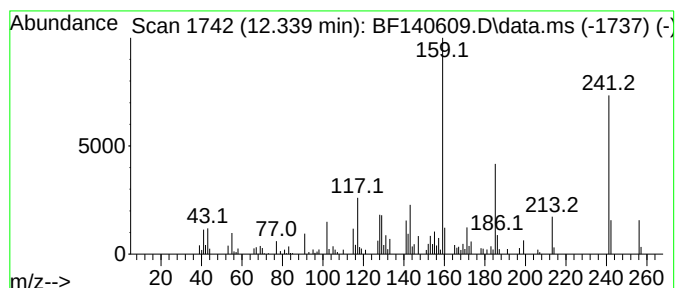
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ClientSampleId :
DUP-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 4b,8-Dimethyl-2-isopropylph... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.339	2.48 ng	74573	Phenanthrene-d10	11.392	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4b,8-Dimethyl-2-isopropylphenant...	256	C19H28	1000197-14-1	95
2	Naphthalene, 6-ethyl-1,2,3,4-tet...	256	C19H28	301643-35-6	52
3	1-[[3-(Trifluoromethyl)phenyl]me...	241	C11H10F3N3	1002033-51-3	52
4	3,4-Dihydro-3,3-dimethyl-1,9(2H,...	241	C15H15NO2	1010212-95-2	45
5	s-Indacen-1(2H)-one, 3,5,6,7-tet...	256	C18H24O	038754-94-8	30



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
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ClientSampleId :
DUP-01

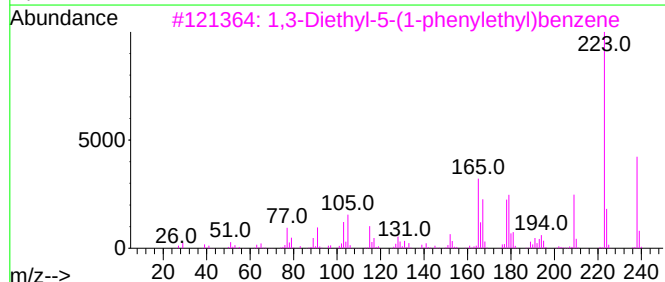
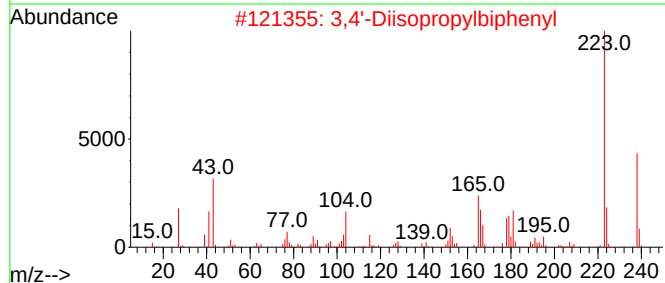
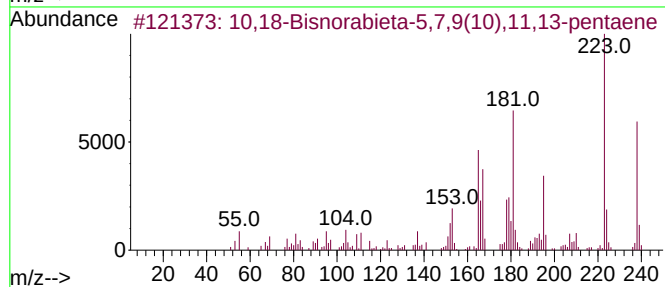
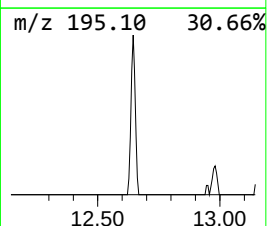
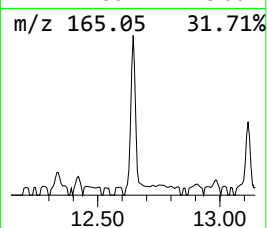
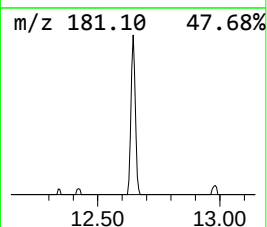
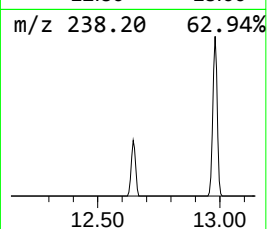
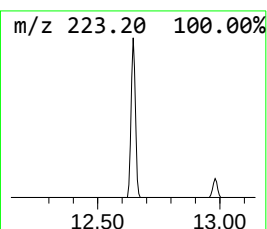
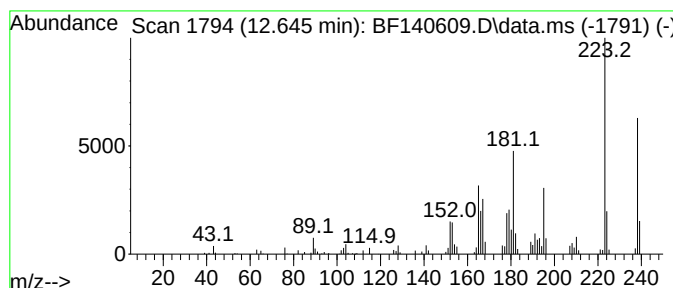
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 10,18-Bisnorabieta-5,7,9(10... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.645	3.45 ng	103878	Phenanthrene-d10	11.392

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	10,18-Bisnorabieta-5,7,9(10),11,...	238	C18H22	006566-19-4	99		
2	3,4'-Diisopropylbiphenyl	238	C18H22	061434-46-6	90		
3	1,3-Diethyl-5-(1-phenylethyl)ben...	238	C18H22	1000482-32-6	89		
4	3-(N,N-Diethylamino)carbazole	238	C16H18N2	054994-31-9	64		
5	4,4'-Diisopropylbiphenyl	238	C18H22	018970-30-4	53		



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
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ClientSampleId :
DUP-01

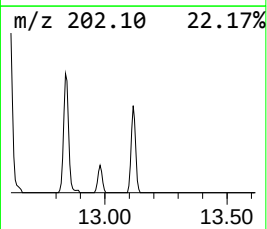
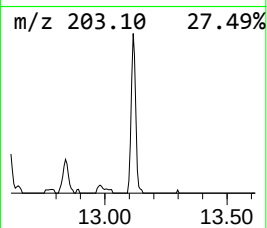
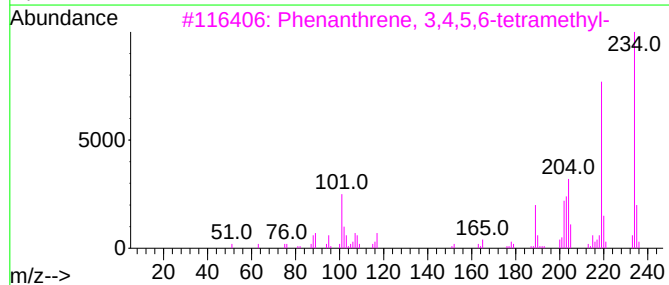
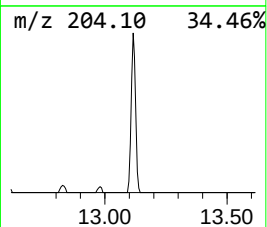
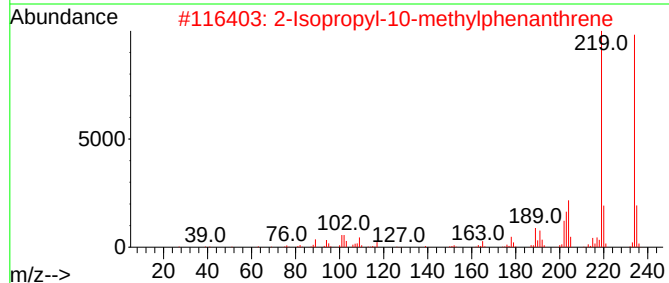
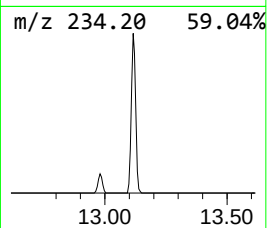
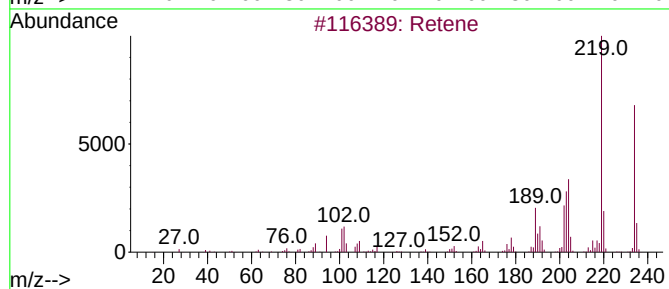
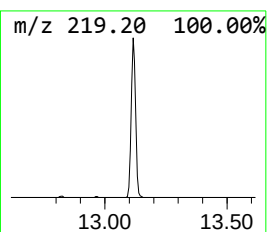
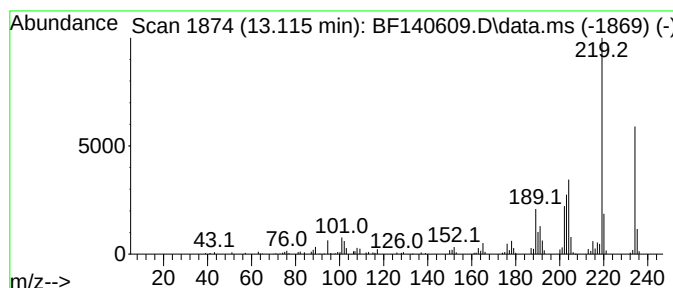
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Retene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.116	7.28 ng	157157	Chrysene-d12	14.045

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Retene	234	C18H18	000483-65-8	98
2			2-Isopropyl-10-methylphenanthrene	234	C18H18	066552-97-4	95
3			Phenanthrene, 3,4,5,6-tetramethyl-	234	C18H18	007343-06-8	76
4			Phenanthrene, 2,4,5,7-tetramethyl-	234	C18H18	007396-38-5	62
5			1-(10-Methylantracen-9-yl)ethanone	234	C17H14O	036778-18-4	58



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

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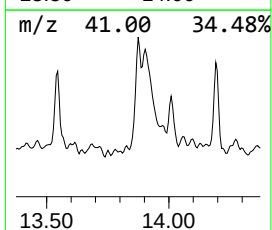
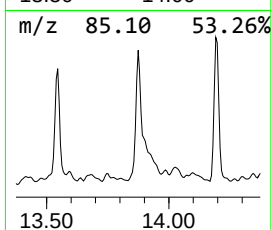
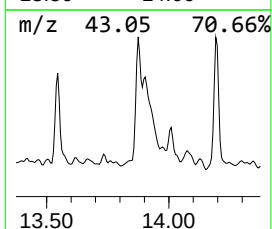
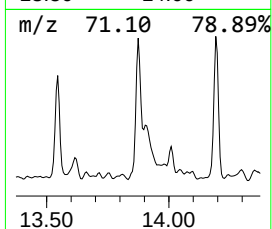
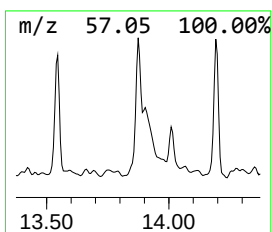
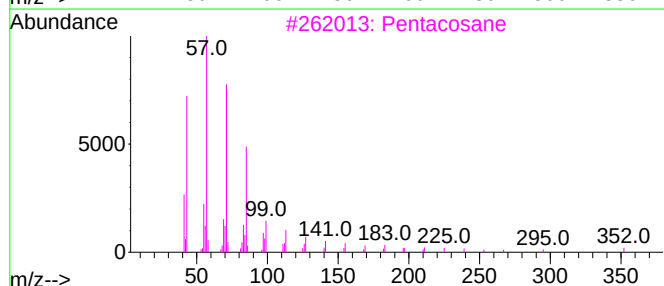
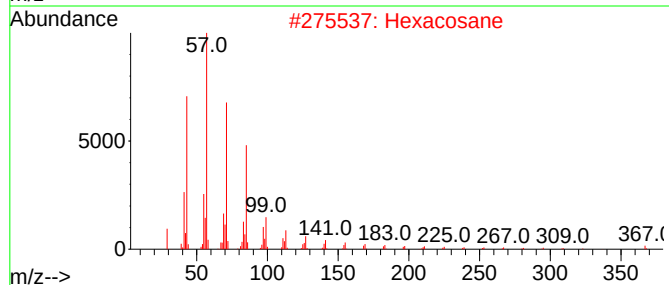
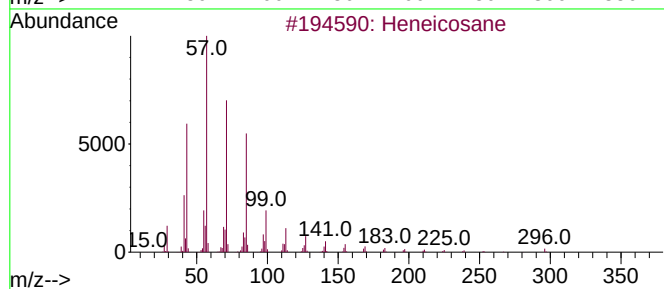
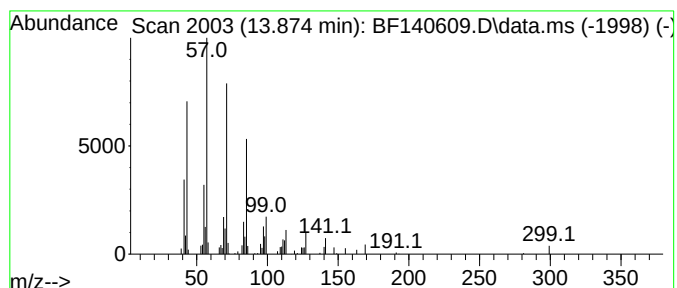
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Heneicosane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.874	2.12 ng	45690	Chrysene-d12	14.045

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heneicosane	296	C21H44	000629-94-7	91
2			Hexacosane	366	C26H54	000630-01-3	91
3			Pentacosane	352	C25H52	000629-99-2	91
4			Heptadecane, 9-octyl-	352	C25H52	007225-64-1	91
5			Eicosane	282	C20H42	000112-95-8	91



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
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Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

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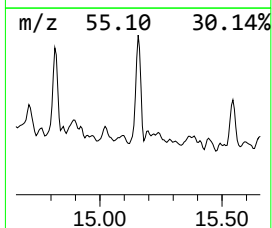
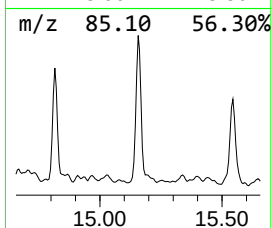
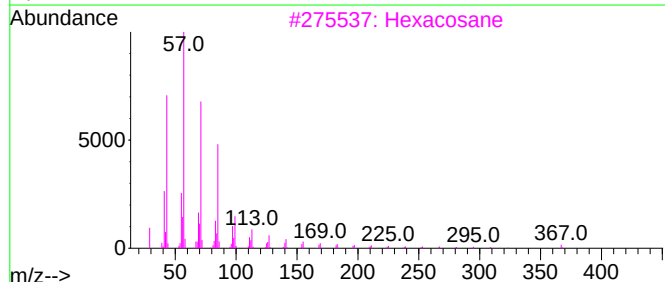
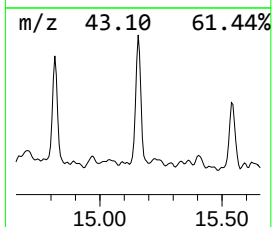
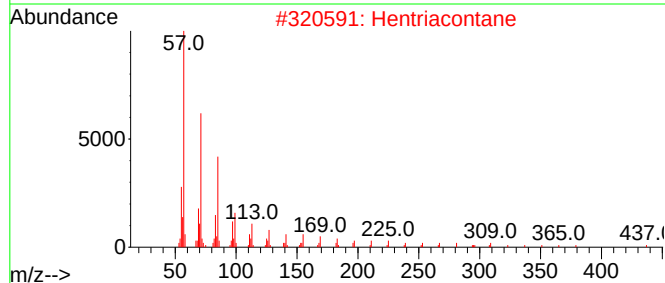
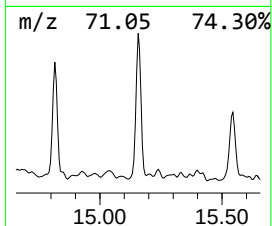
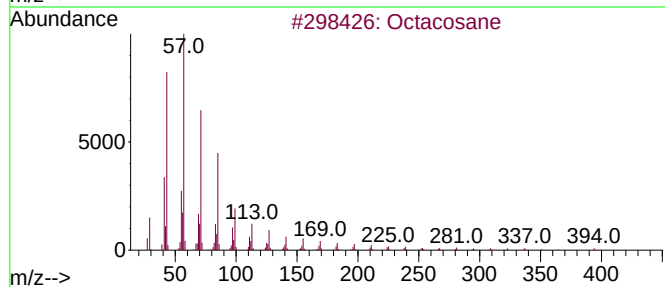
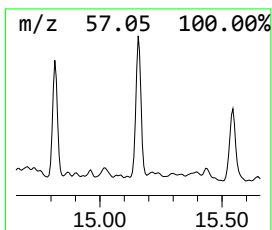
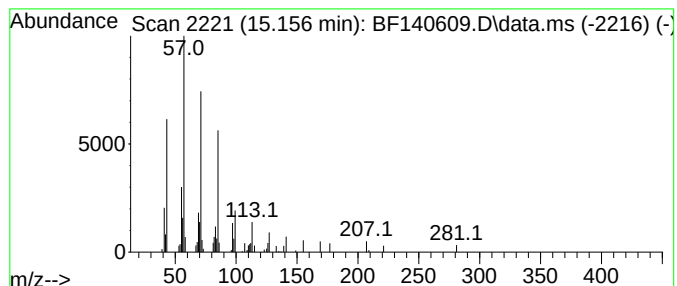
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Octacosane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.156	2.35 ng	43815	Perylene-d12	15.539

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Octacosane	394	C28H58	000630-02-4	91
2			Hentriacontane	437	C31H64	000630-04-6	91
3			Hexacosane	366	C26H54	000630-01-3	90
4			Heneicosane	296	C21H44	000629-94-7	90
5			Heptacosane	380	C27H56	000593-49-7	87



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
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Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

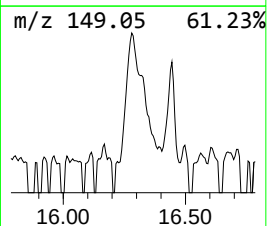
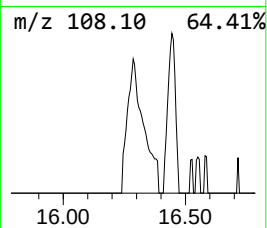
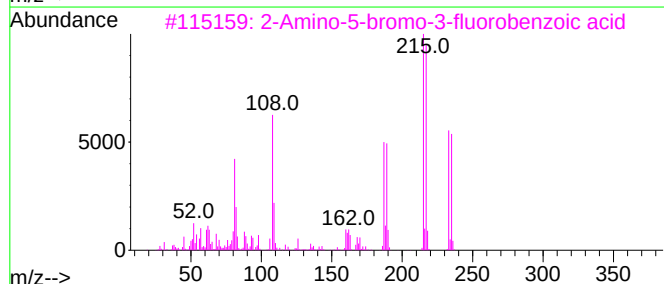
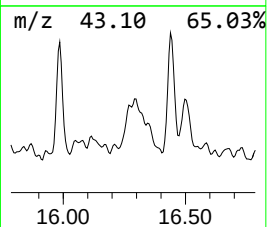
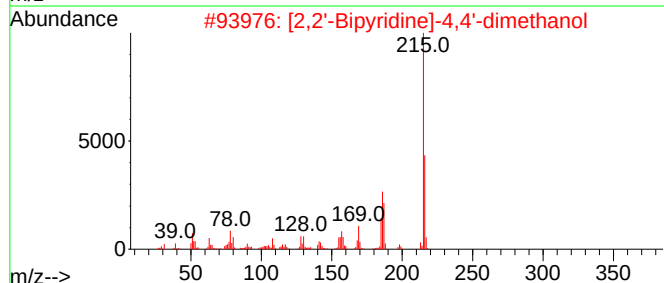
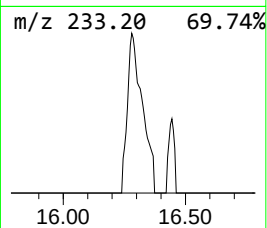
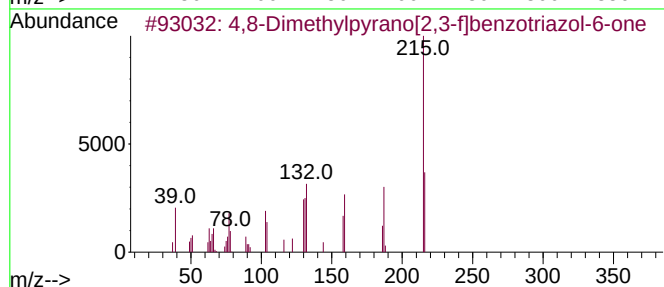
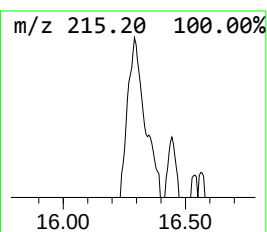
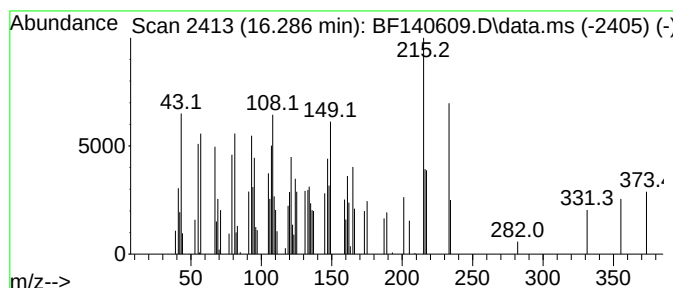
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 unknown16.286 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.	
16.286	5.98 ng	111314	Perylene-d12	15.539	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,8-Dimethylpyrano[2,3-f]benzotr...	215	C11H9N3O2	129503-12-4	14
2	[2,2'-Bipyridine]-4,4'-dimethanol	216	C12H12N2O2	109073-77-0	12
3	2-Amino-5-bromo-3-fluorobenzoic ...	233	C7H5BrFNO2	874784-14-2	12
4	4-Methyl-2H,3H,3aH-pyrrolo[1,2-a...	216	C12H12N2O2	1000387-53-2	12
5	2-Cyclohexen-3-ol-1-one, 2-benzoyl-	216	C13H12O3	061834-43-3	10



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

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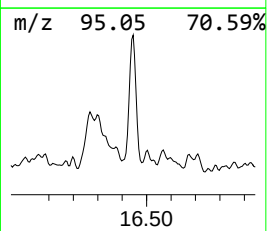
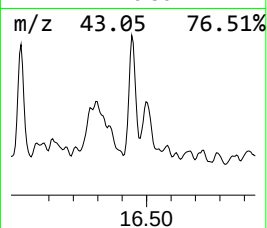
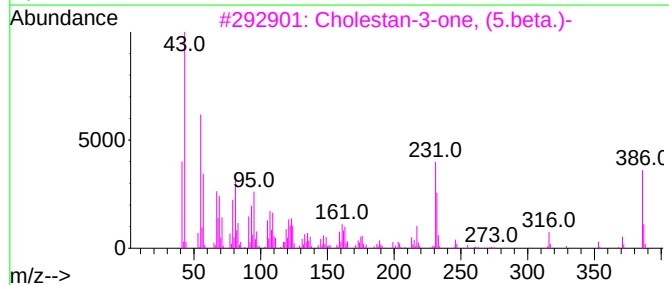
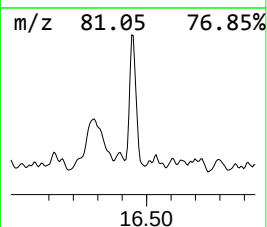
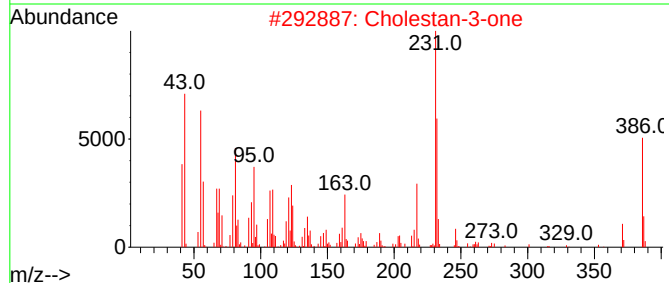
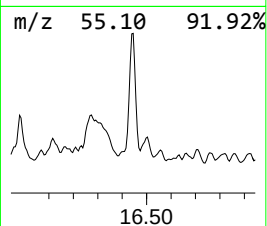
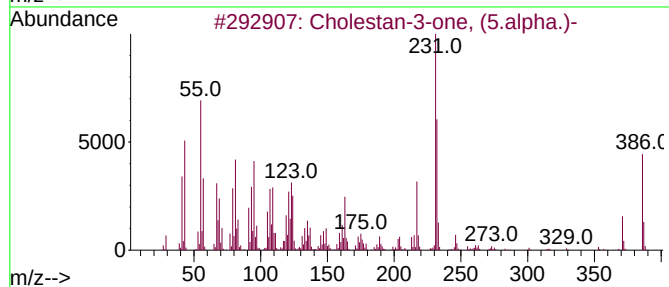
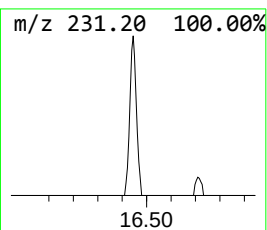
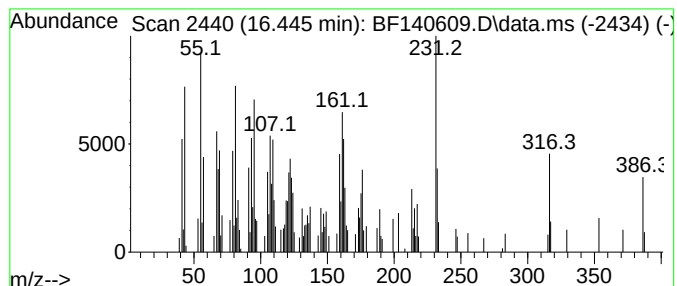
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Cholestan-3-one, (5.alpha.)- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.445	5.68 ng	105767	Perylene-d12	15.539

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cholestan-3-one, (5.alpha.)-	386	C27H46O	000566-88-1	91
2			Cholestan-3-one	386	C27H46O	015600-08-5	91
3			Cholestan-3-one, (5.beta.)-	386	C27H46O	000601-53-6	86
4			Cholestane, 14-methyl-, (5.alpha.)-	386	C28H50	054482-34-7	30
5			Cholestane, 14-methyl-	386	C28H50	052474-84-7	25



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140609.D
Acq On : 25 Nov 2024 18:07
Operator : RC/JU
Sample : P4860-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DUP-01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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
Benzophenone	10.616	4.6	ng	126824	3	9.904	546386	20.0
n-Hexadecanoic ...	11.916	7.6	ng	228074	4	11.392	601408	20.0
4b,8-Dimethyl-2...	12.339	2.5	ng	74573	4	11.392	601408	20.0
10,18-Bisnorabi...	12.645	3.5	ng	103878	4	11.392	601408	20.0
Retene	13.116	7.3	ng	157157	5	14.045	432045	20.0
Heneicosane	13.874	2.1	ng	45690	5	14.045	432045	20.0
Octacosane	15.156	2.4	ng	43815	6	15.539	372267	20.0
unknown16.286	16.286	6.0	ng	111314	6	15.539	372267	20.0
Cholestan-3-one...	16.445	5.7	ng	105767	6	15.539	372267	20.0

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-001	SDG No.:	P4860
Lab Sample ID:	P4860-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	96.8
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
BF140588.D	1	11/16/24 08:51	11/22/24 19:53	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	UQ	190	340	ug/Kg
108-95-2	Phenol	85.6	U	85.6	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	86.4	U	86.4	180	ug/Kg
95-57-8	2-Chlorophenol	86.2	U	86.2	180	ug/Kg
95-48-7	2-Methylphenol	83.2	U	83.2	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	93.8	U	93.8	180	ug/Kg
98-86-2	Acetophenone	89.7	U	89.7	180	ug/Kg
65794-96-9	3+4-Methylphenols	82.4	U	82.4	340	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	41.6	U	41.6	82.6	ug/Kg
67-72-1	Hexachloroethane	85.7	U	85.7	180	ug/Kg
98-95-3	Nitrobenzene	93.7	U	93.7	180	ug/Kg
78-59-1	Isophorone	87.3	U	87.3	180	ug/Kg
88-75-5	2-Nitrophenol	97.6	U	97.6	180	ug/Kg
105-67-9	2,4-Dimethylphenol	96.2	U	96.2	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	88.6	U	88.6	180	ug/Kg
120-83-2	2,4-Dichlorophenol	77.9	U	77.9	180	ug/Kg
91-20-3	Naphthalene	85.3	U	85.3	180	ug/Kg
106-47-8	4-Chloroaniline	85.3	UQ	85.3	180	ug/Kg
87-68-3	Hexachlorobutadiene	86.0	U	86.0	180	ug/Kg
105-60-2	Caprolactam	89.6	U	89.6	340	ug/Kg
59-50-7	4-Chloro-3-methylphenol	80.0	U	80.0	180	ug/Kg
91-57-6	2-Methylnaphthalene	85.2	U	85.2	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	UQ	160	340	ug/Kg
88-06-2	2,4,6-Trichlorophenol	73.7	U	73.7	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	76.4	U	76.4	180	ug/Kg
92-52-4	1,1-Biphenyl	90.2	U	90.2	180	ug/Kg
91-58-7	2-Chloronaphthalene	86.0	U	86.0	180	ug/Kg
88-74-4	2-Nitroaniline	98.1	U	98.1	180	ug/Kg
131-11-3	Dimethylphthalate	84.3	U	84.3	180	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-001	SDG No.:	P4860
Lab Sample ID:	P4860-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	96.8
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
BF140588.D	1	11/16/24 08:51	11/22/24 19:53	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	89.3	U	89.3	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	85.9	U	85.9	180	ug/Kg
99-09-2	3-Nitroaniline	92.1	UQ	92.1	180	ug/Kg
83-32-9	Acenaphthene	83.7	U	83.7	180	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	340	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	340	ug/Kg
132-64-9	Dibenzofuran	87.1	U	87.1	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	89.0	U	89.0	180	ug/Kg
84-66-2	Diethylphthalate	82.7	U	82.7	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	88.4	U	88.4	180	ug/Kg
86-73-7	Fluorene	88.3	U	88.3	180	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	340	ug/Kg
86-30-6	n-Nitrosodiphenylamine	84.2	U	84.2	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	81.5	U	81.5	180	ug/Kg
118-74-1	Hexachlorobenzene	87.8	U	87.8	180	ug/Kg
1912-24-9	Atrazine	94.4	U	94.4	180	ug/Kg
87-86-5	Pentachlorophenol	79.8	U	79.8	340	ug/Kg
85-01-8	Phenanthrene	86.7	U	86.7	180	ug/Kg
120-12-7	Anthracene	87.1	U	87.1	180	ug/Kg
86-74-8	Carbazole	82.9	U	82.9	180	ug/Kg
84-74-2	Di-n-butylphthalate	87.0	U	87.0	180	ug/Kg
206-44-0	Fluoranthene	84.3	U	84.3	180	ug/Kg
129-00-0	Pyrene	85.7	U	85.7	180	ug/Kg
85-68-7	Butylbenzylphthalate	99.9	U	99.9	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	100	UQ	100	340	ug/Kg
56-55-3	Benzo(a)anthracene	83.3	U	83.3	180	ug/Kg
218-01-9	Chrysene	82.1	U	82.1	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	420		93.9	180	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	340	ug/Kg
205-99-2	Benzo(b)fluoranthene	83.7	U	83.7	180	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-001	SDG No.:	P4860
Lab Sample ID:	P4860-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	96.8
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
BF140588.D	1	11/16/24 08:51	11/22/24 19:53	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	85.3	U	85.3	180	ug/Kg
50-32-8	Benzo(a)pyrene	96.0	U	96.0	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	80.6	U	80.6	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	83.8	U	83.8	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	82.7	U	82.7	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	89.6	U	89.6	180	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	77.1	U	77.1	180	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	99.7		30 (18) - 130 (112)	66%	SPK: 150
13127-88-3	Phenol-d6	96.8		30 (15) - 130 (107)	65%	SPK: 150
4165-60-0	Nitrobenzene-d5	71.8		30 (18) - 130 (107)	72%	SPK: 100
321-60-8	2-Fluorobiphenyl	79.9		30 (20) - 130 (109)	80%	SPK: 100
118-79-6	2,4,6-Tribromophenol	86.7		30 (10) - 130 (116)	58%	SPK: 150
1718-51-0	Terphenyl-d14	67.9		30 (10) - 130 (105)	68%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	92000	6.869
1146-65-2	Naphthalene-d8	310000	8.151
15067-26-2	Acenaphthene-d10	141000	9.904
1517-22-2	Phenanthrene-d10	224000	11.398
1719-03-5	Chrysene-d12	149000	14.045
1520-96-3	Perylene-d12	113000	15.533

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	1200	JB	2.13	ug/Kg
055000-52-7	Hexadecane, 2,6,10-trimethyl-	230	J	10.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	500	J	11.9	ug/Kg
1000197-14-1	4b,8-Dimethyl-2-isopropylphenanthr	220	J	12.3	ug/Kg
006566-19-4	10,18-Bisnorabieta-5,7,9(10),11,13	730	J	12.7	ug/Kg
055045-10-8	Tridecane, 6-propyl-	240	J	13.2	ug/Kg
000629-78-7	Heptadecane	410	J	13.6	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-001	SDG No.:	P4860
Lab Sample ID:	P4860-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	96.8
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
BF140588.D	1	11/16/24 08:51	11/22/24 19:53	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
028336-57-4	Cyclohexane, 1,3,5-triphenyl-	600	J		13.8	ug/Kg
000112-95-8	Eicosane	750	J		13.9	ug/Kg
004757-69-1	1H-Indole, 2-methyl-3-phenyl-	360	J		14.2	ug/Kg
000638-67-5	Tricosane	950	J		14.2	ug/Kg
000629-94-7	Heneicosane	650	J		14.5	ug/Kg
000630-02-4	Octacosane	410	J		14.8	ug/Kg
007683-64-9	Supraene	250	J		14.9	ug/Kg
055282-11-6	Heneicosane, 11-(1-ethylpropyl)-	420	J		15.2	ug/Kg
014905-56-7	Tetradecane, 2,6,10-trimethyl-	240	J		16.0	ug/Kg
1000514-95-7	5.beta.-Cholestan-3.alpha.-ol, 2-m	1600	J		16.2	ug/Kg
1010210-43-4	Cholestan-2-one	1800	J		16.5	ug/Kg
019466-47-8	Stigmastanol	320	J		17.4	ug/Kg
	unknown17.657	440	J		17.7	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_F\Data\BF112224\
 Data File : BF140588.D
 Acq On : 22 Nov 2024 19:53
 Operator : RC/JU
 Sample : P4860-02
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PH2-BOT-001

Quant Time: Nov 22 22:17:51 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 Response via : Initial Calibration

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

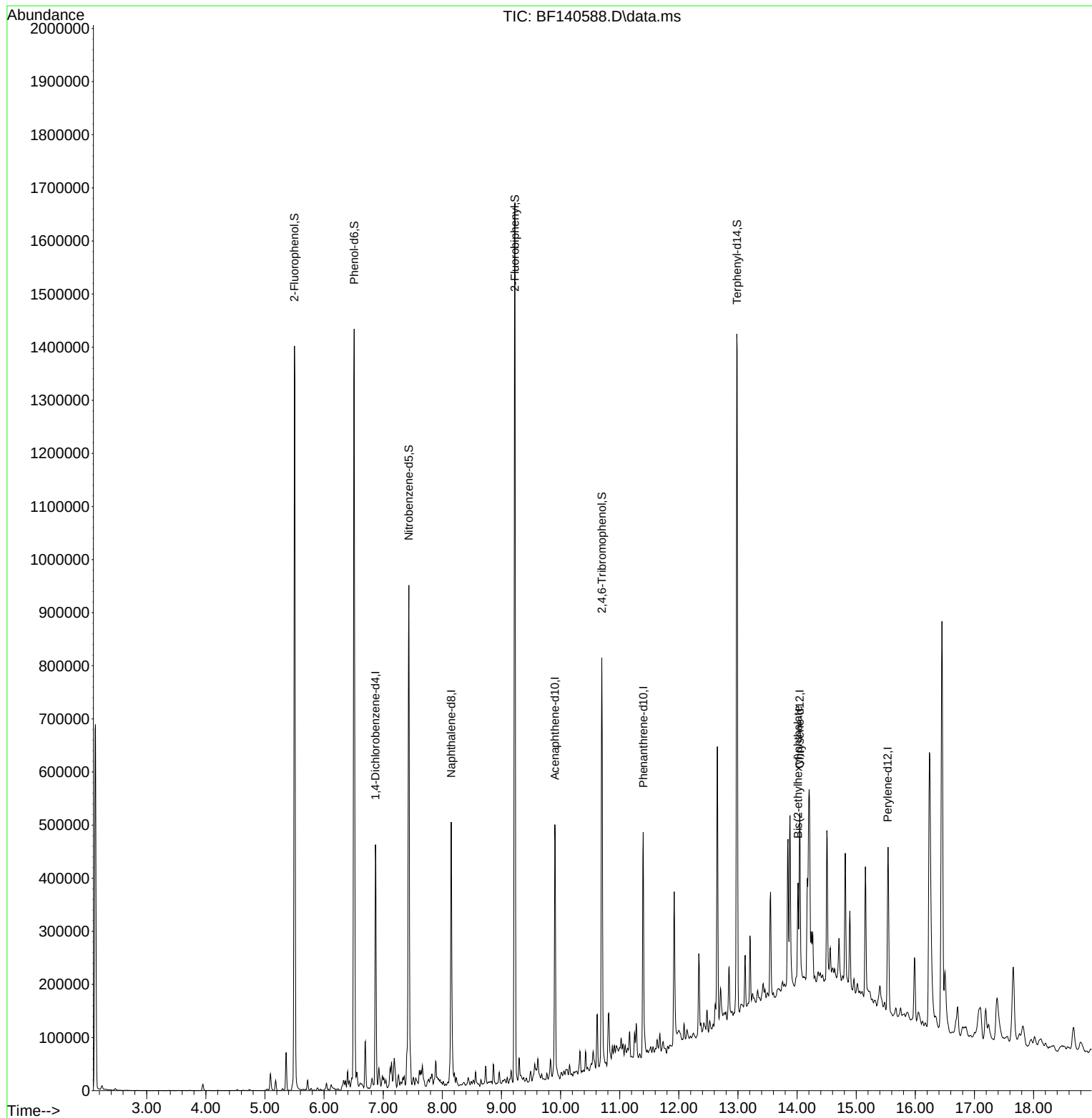
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	91972	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	309675	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	141425	20.000	ng	-0.01
64) Phenanthrene-d10	11.398	188	223631	20.000	ng	0.00
76) Chrysene-d12	14.045	240	148537	20.000	ng	0.00
86) Perylene-d12	15.533	264	113324	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	537625	99.737	ng	0.00
7) Phenol-d6	6.510	99	689964	96.820	ng	0.00
23) Nitrobenzene-d5	7.434	82	434510	71.770	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	131171	86.722	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	758546	79.914	ng	0.00
79) Terphenyl-d14	12.986	244	647587	67.887	ng	0.00
Target Compounds						
84) Bis(2-ethylhexyl)phtha...	14.016	149	77057	12.334	ng	Qvalue 99

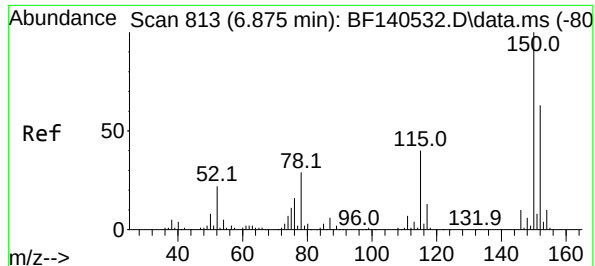
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-001

Quant Time: Nov 22 22:17:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

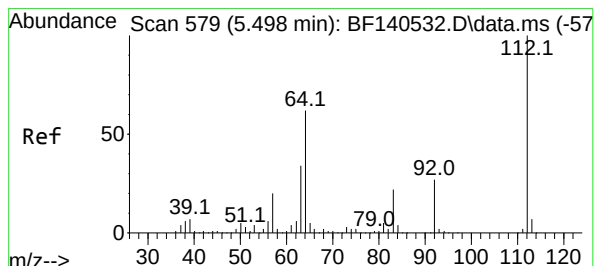
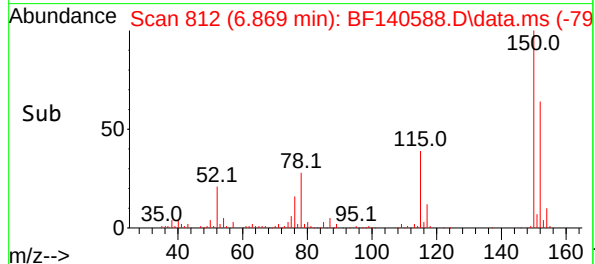
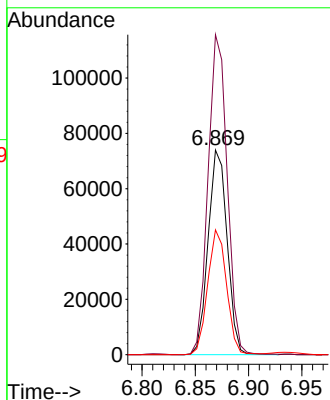
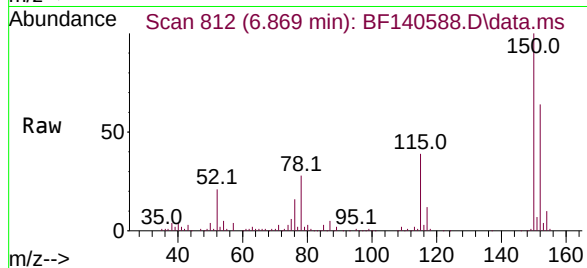




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 813
Delta R.T. -0.006 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

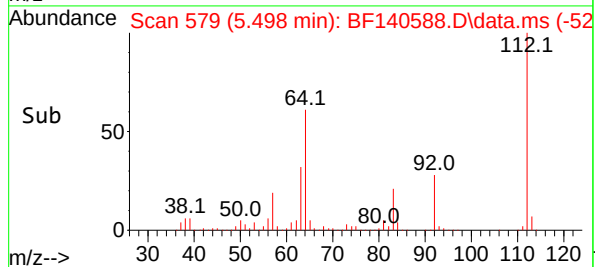
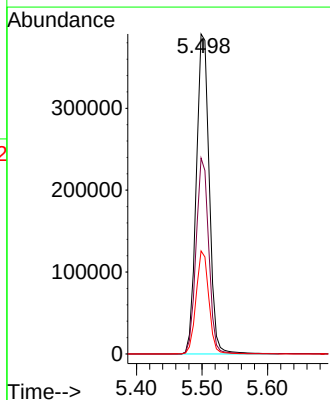
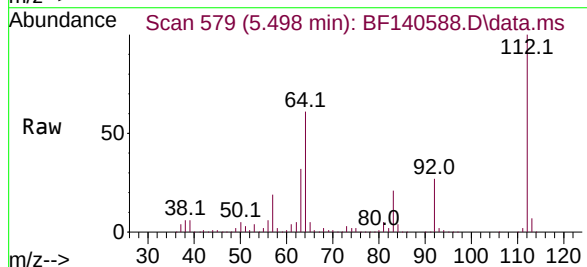
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-001

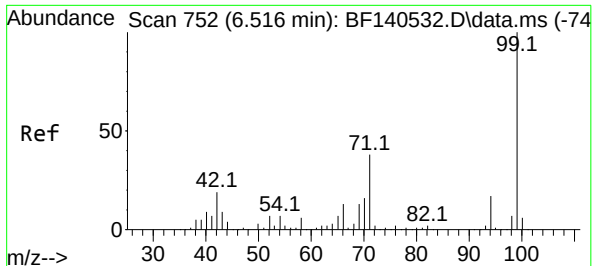
Tgt Ion:152 Resp: 91972
Ion Ratio Lower Upper
152 100
150 156.4 128.5 192.7
115 61.0 50.2 75.4



#5
2-Fluorophenol
Concen: 99.737 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.000 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

Tgt Ion:112 Resp: 537625
Ion Ratio Lower Upper
112 100
64 61.2 49.2 73.8
63 32.2 27.0 40.4

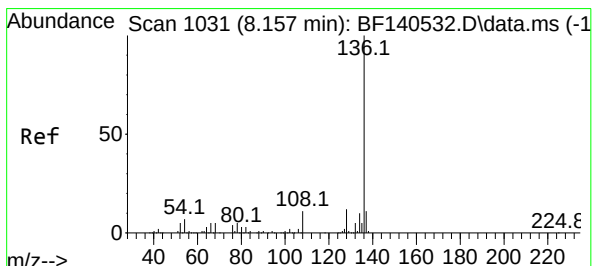
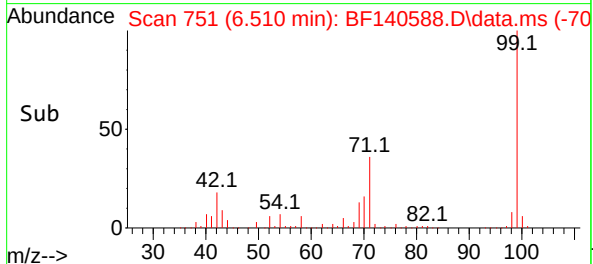
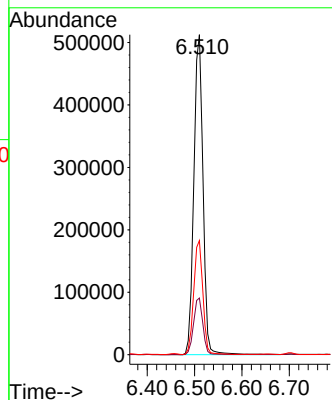
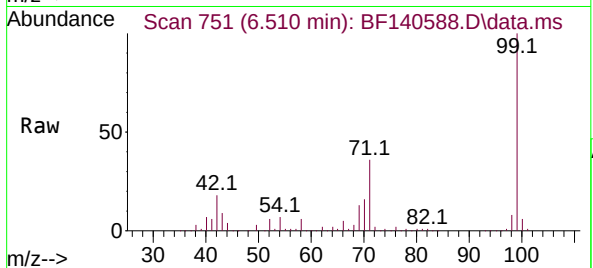




#7
Phenol-d6
Concen: 96.820 ng
RT: 6.510 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

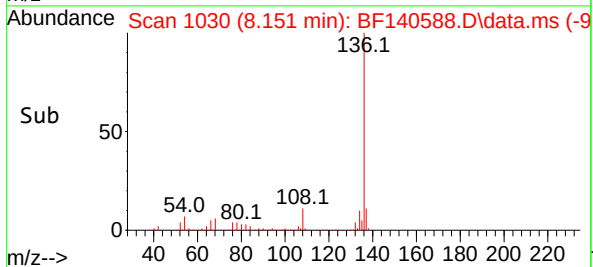
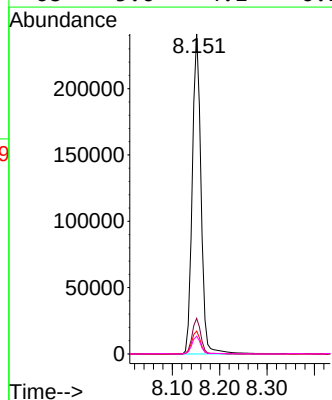
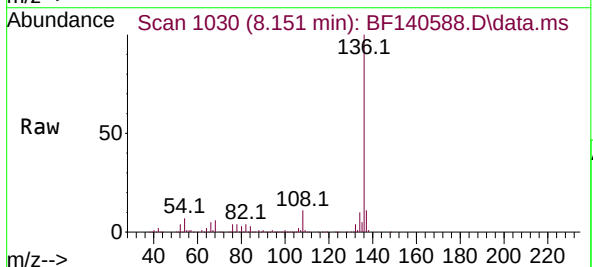
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-001

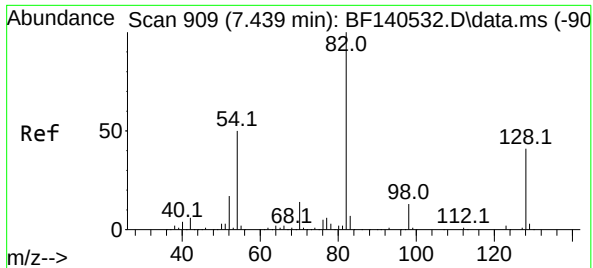
Tgt Ion: 99 Resp: 689964
Ion Ratio Lower Upper
99 100
42 17.7 15.4 23.0
71 35.6 30.6 46.0



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

Tgt Ion: 136 Resp: 309675
Ion Ratio Lower Upper
136 100
137 11.1 8.6 13.0
54 7.2 5.8 8.8
68 5.6 4.1 6.1





#23

Nitrobenzene-d5

Concen: 71.770 ng

RT: 7.434 min Scan# 90

Delta R.T. -0.006 min

Lab File: BF140588.D

Acq: 22 Nov 2024 19:53

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-001

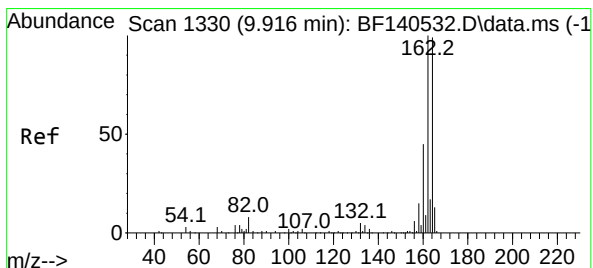
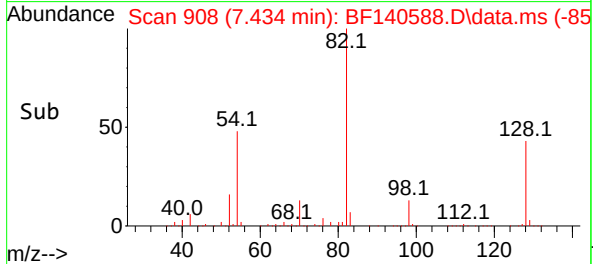
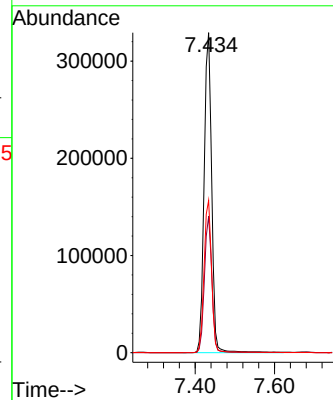
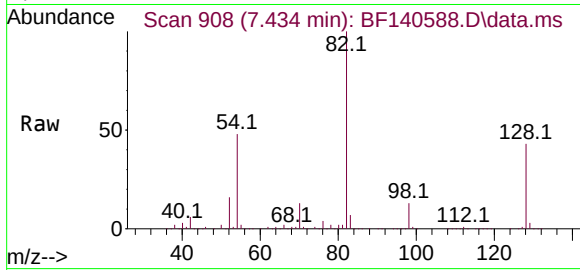
Tgt Ion: 82 Resp: 434510

Ion Ratio Lower Upper

82 100

128 42.6 33.0 49.4

54 47.6 39.5 59.3



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.904 min Scan# 1328

Delta R.T. -0.012 min

Lab File: BF140588.D

Acq: 22 Nov 2024 19:53

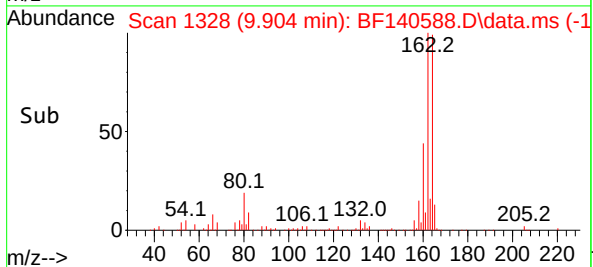
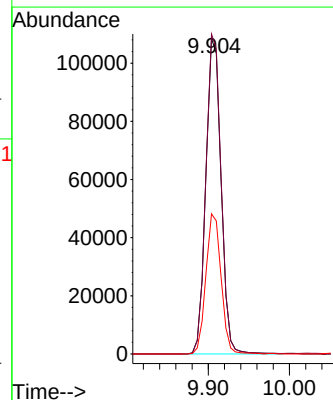
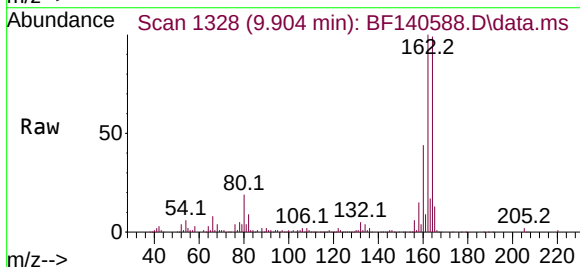
Tgt Ion:164 Resp: 141425

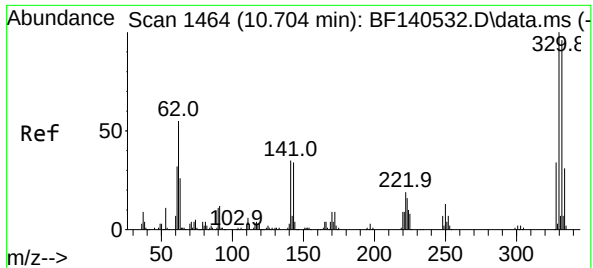
Ion Ratio Lower Upper

164 100

162 101.4 80.6 120.8

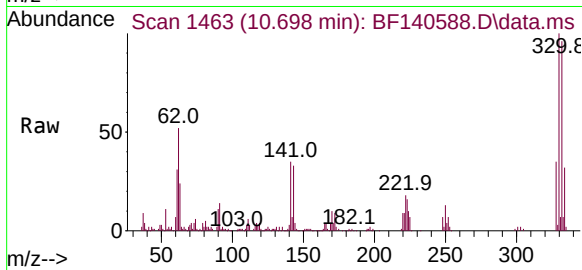
160 44.4 36.2 54.4



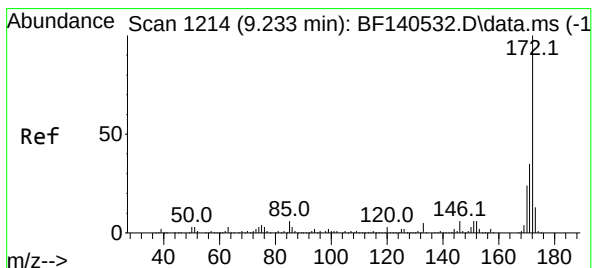
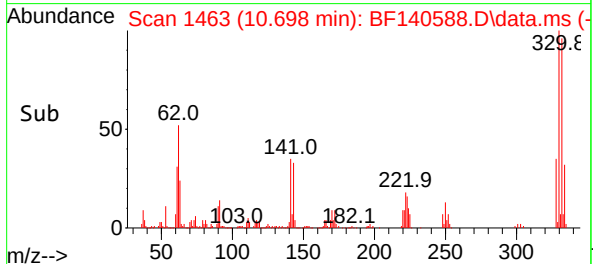
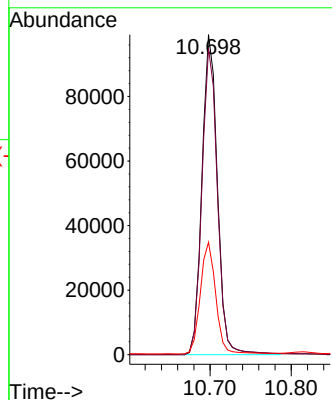


#42
2,4,6-Tribromophenol
Concen: 86.722 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.006 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-001

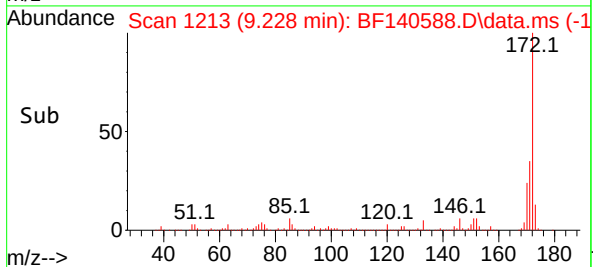
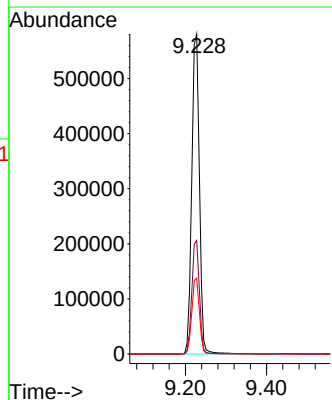
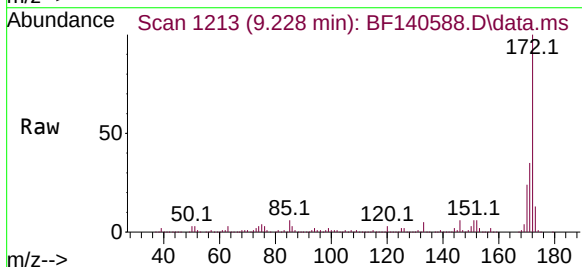


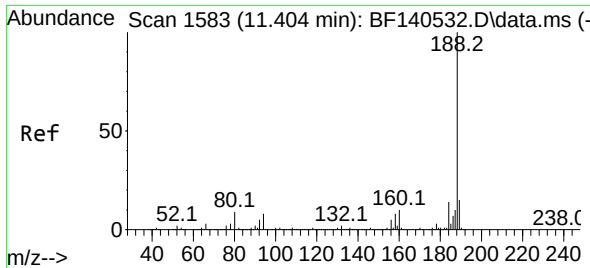
Tgt Ion:330 Resp: 131171
Ion Ratio Lower Upper
330 100
332 96.6 76.9 115.3
141 34.7 26.7 40.1



#45
2-Fluorobiphenyl
Concen: 79.914 ng
RT: 9.228 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

Tgt Ion:172 Resp: 758546
Ion Ratio Lower Upper
172 100
171 35.5 28.4 42.6
170 23.7 19.0 28.6

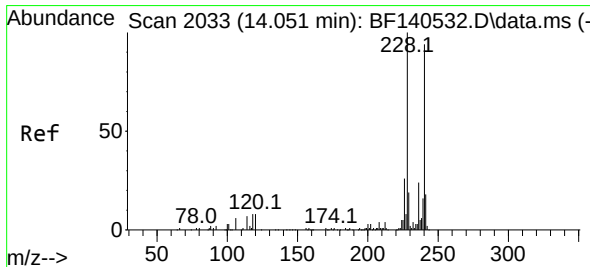
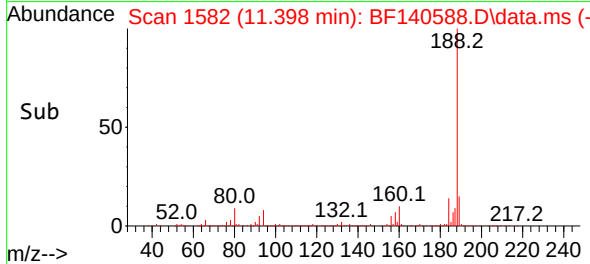
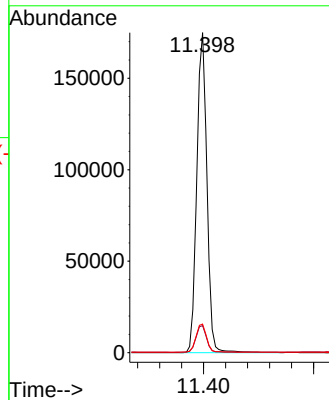
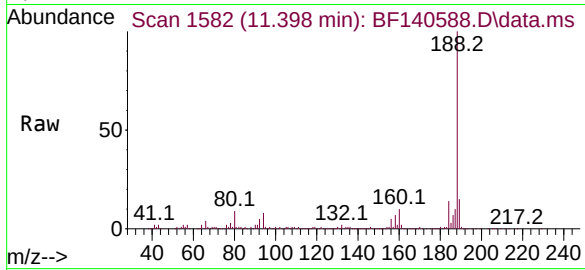




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

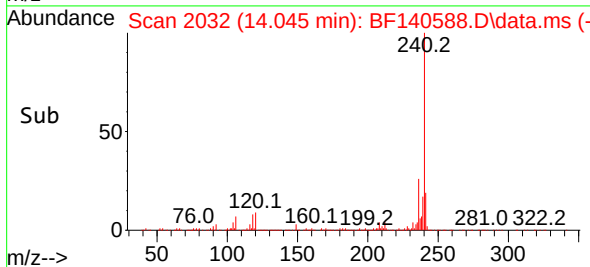
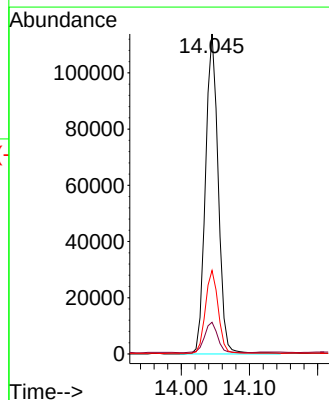
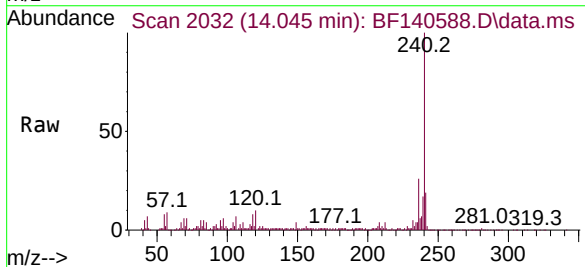
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-001

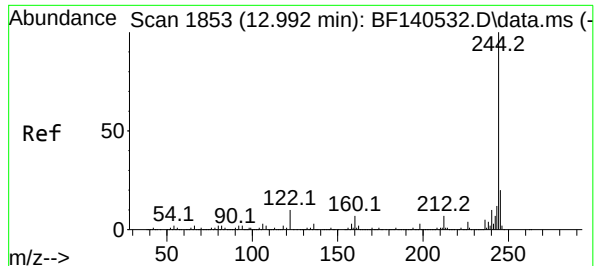
Tgt Ion:188 Resp: 223631
Ion Ratio Lower Upper
188 100
94 8.4 6.4 9.6
80 9.0 6.9 10.3



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

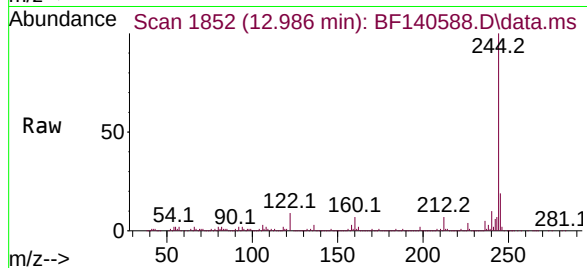
Tgt Ion:240 Resp: 148537
Ion Ratio Lower Upper
240 100
120 9.9 7.3 10.9
236 26.1 20.6 31.0



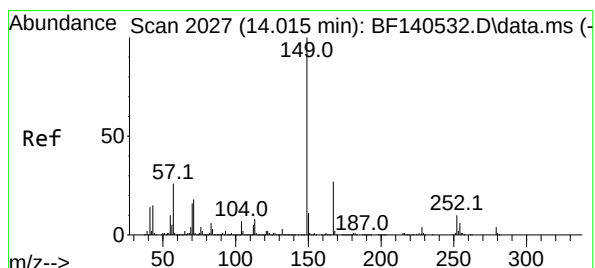
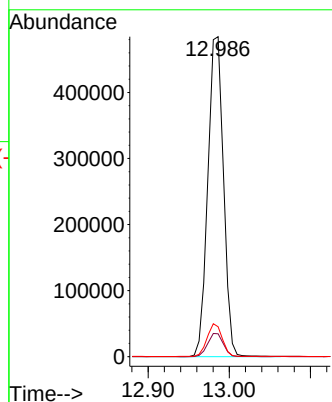
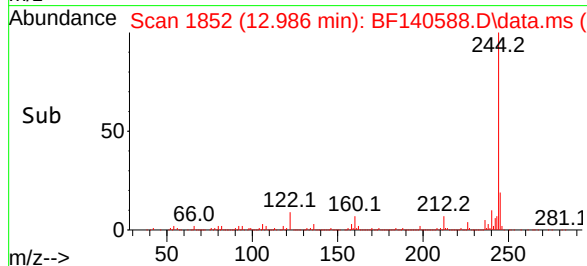


#79
Terphenyl-d14
Concen: 67.887 ng
RT: 12.986 min Scan# 1852
Delta R.T. -0.006 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-001

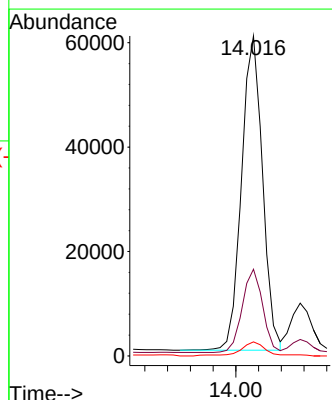
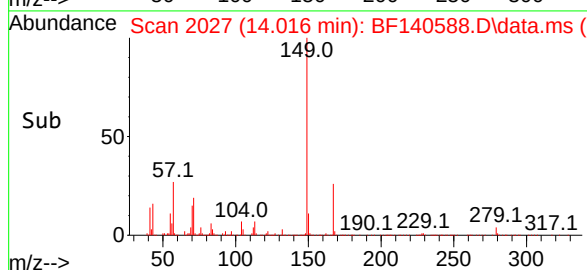
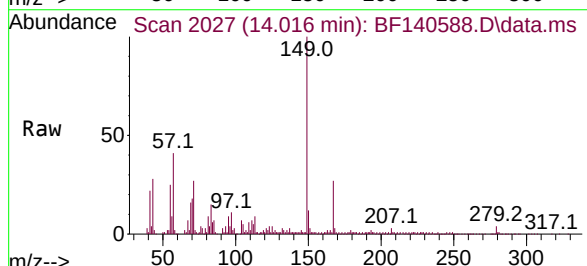


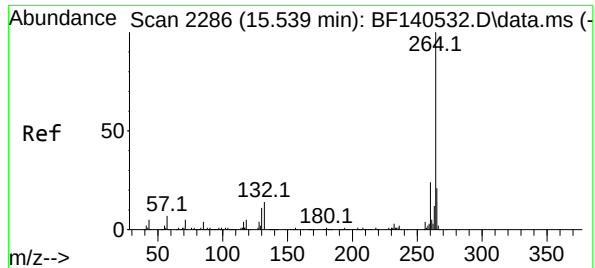
Tgt Ion:244 Resp: 647587
Ion Ratio Lower Upper
244 100
212 7.2 5.8 8.8
122 9.4 8.0 12.0



#84
Bis(2-ethylhexyl)phthalate
Concen: 12.334 ng
RT: 14.016 min Scan# 2027
Delta R.T. 0.000 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

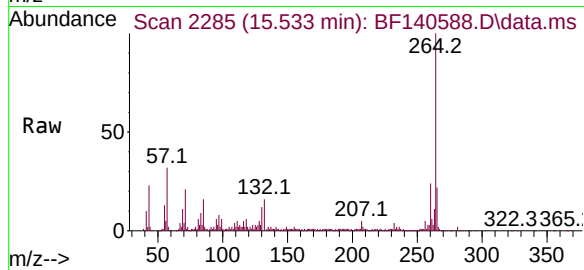
Tgt Ion:149 Resp: 77057
Ion Ratio Lower Upper
149 100
167 27.1 21.2 31.8
279 4.4 3.2 4.8



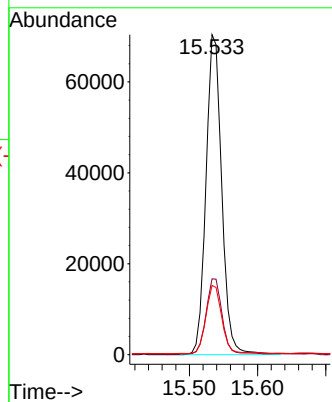
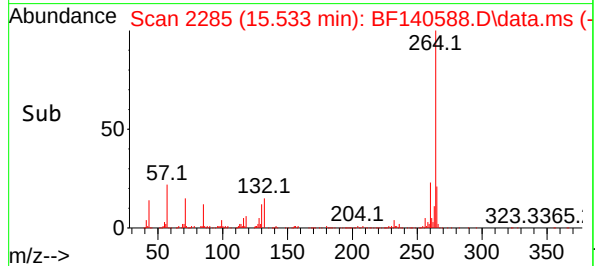


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF140588.D
Acq: 22 Nov 2024 19:53

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-001



Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.0	28.6
265	21.7	16.6	25.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-001

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-BF112124.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140588.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.134	3	7	17	rVB	686273	1055284	48.76%	4.054%
2	5.093	505	510	520	rVB	31254	48727	2.25%	0.187%
3	5.181	520	525	530	rBV	19257	25429	1.17%	0.098%
4	5.357	550	555	560	rBV	71173	89794	4.15%	0.345%
5	5.498	574	579	594	rVB	1399798	1898570	87.72%	7.294%
6	5.722	613	617	623	rVB	18632	25191	1.16%	0.097%
7	6.040	662	671	675	rBV	13403	22075	1.02%	0.085%
8	6.122	679	685	692	rBV5	9988	22532	1.04%	0.087%
9	6.334	711	721	723	rBV	18694	40559	1.87%	0.156%
10	6.398	729	732	735	rBV	29128	33539	1.55%	0.129%
11	6.510	745	751	756	rVV	1426685	1907531	88.13%	7.328%
12	6.551	756	758	764	rVB2	26622	37511	1.73%	0.144%
13	6.698	778	783	791	rVB2	88514	123421	5.70%	0.474%
14	6.810	795	802	807	rBV2	18813	36458	1.68%	0.140%
15	6.869	807	812	818	rBV	452764	587590	27.15%	2.257%
16	6.928	818	822	828	rVB2	33177	52456	2.42%	0.202%
17	6.987	828	832	834	rBV2	18860	25488	1.18%	0.098%
18	7.116	847	854	856	rBV	37547	55393	2.56%	0.213%
19	7.139	856	858	861	rVV	44636	51190	2.37%	0.197%
20	7.187	861	866	873	rVB2	54619	108994	5.04%	0.419%
21	7.257	873	878	882	rBV2	23169	38596	1.78%	0.148%
22	7.434	903	908	917	rVB	940269	1289460	59.58%	4.954%
23	7.551	925	928	935	rBV4	12402	23447	1.08%	0.090%
24	7.610	935	938	941	rBV	24841	35632	1.65%	0.137%
25	7.663	944	947	956	rVB2	39348	71417	3.30%	0.274%
26	7.769	958	965	967	rBV4	13315	28119	1.30%	0.108%
27	7.822	972	974	978	rVB2	18658	23368	1.08%	0.090%
28	7.887	978	985	989	rBV3	42870	73823	3.41%	0.284%
29	8.151	1022	1030	1037	rBV	490962	705534	32.60%	2.711%
30	8.234	1042	1044	1052	rVB4	15561	23907	1.10%	0.092%
31	8.563	1097	1100	1107	rVB	22356	27263	1.26%	0.105%
32	8.734	1125	1129	1134	rVB	32815	39655	1.83%	0.152%
33	8.863	1148	1151	1158	rVB2	37263	49169	2.27%	0.189%
34	8.963	1164	1168	1174	rVB	21231	28317	1.31%	0.109%
35	9.163	1199	1202	1207	rVB2	22311	28918	1.34%	0.111%
36	9.228	1207	1213	1221	rBV	1656429	2164398	100.00%	8.315%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
 Data File : BF140588.D
 Acq On : 22 Nov 2024 19:53
 Operator : RC/JU
 Sample : P4860-02
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PH2-BOT-001

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-BF112124.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	9.298	1221	1225	1229	rBV	42354	57923	2.68%	0.223%
38	9.492	1254	1258	1262	rBV	18417	26740	1.24%	0.103%
39	9.563	1262	1270	1273	rBV3	31756	65789	3.04%	0.253%
40	9.616	1276	1279	1287	rVB2	36151	61362	2.84%	0.236%
41	9.828	1309	1315	1320	rBV	37166	63374	2.93%	0.243%
42	9.904	1320	1328	1342	rVB	478789	685964	31.69%	2.635%
43	10.016	1342	1347	1350	rBV3	12243	22519	1.04%	0.087%
44	10.151	1366	1370	1374	rVB3	18614	23404	1.08%	0.090%
45	10.328	1394	1400	1404	rBV2	42624	67597	3.12%	0.260%
46	10.422	1413	1416	1420	rBV	37021	45792	2.12%	0.176%
47	10.551	1434	1438	1445	rVB2	31730	58501	2.70%	0.225%
48	10.622	1445	1450	1455	rBV	100969	137638	6.36%	0.529%
49	10.698	1458	1463	1473	rVB	763394	1005123	46.44%	3.862%
50	10.816	1477	1483	1490	rBV4	99236	205213	9.48%	0.788%
51	10.875	1490	1493	1496	rBV2	23348	29712	1.37%	0.114%
52	11.092	1527	1530	1534	rBV	18436	25365	1.17%	0.097%
53	11.169	1539	1543	1547	rVB	47176	62687	2.90%	0.241%
54	11.251	1554	1557	1559	rBV	45245	55473	2.56%	0.213%
55	11.280	1559	1562	1568	rVB2	64415	91642	4.23%	0.352%
56	11.398	1577	1582	1592	rBV	422973	612268	28.29%	2.352%
57	11.680	1627	1630	1634	rVB	32028	38238	1.77%	0.147%
58	11.922	1666	1671	1679	rBV	289168	448778	20.73%	1.724%
59	12.086	1697	1699	1704	rVB	28900	31568	1.46%	0.121%
60	12.339	1738	1742	1746	rBV2	151775	197100	9.11%	0.757%
61	12.480	1763	1766	1769	rVB	41389	49744	2.30%	0.191%
62	12.616	1786	1789	1791	rBV	37662	49976	2.31%	0.192%
63	12.651	1791	1795	1800	rVV	518324	649806	30.02%	2.496%
64	12.704	1801	1804	1811	rVV2	54879	93734	4.33%	0.360%
65	12.851	1825	1829	1835	rVB2	87489	113753	5.26%	0.437%
66	12.980	1846	1851	1859	rVB	1276840	1721071	79.52%	6.612%
67	13.121	1871	1875	1880	rBV	96086	115721	5.35%	0.445%
68	13.204	1886	1889	1893	rBV	124605	147759	6.83%	0.568%
69	13.551	1944	1948	1954	rVB	193529	253581	11.72%	0.974%
70	13.845	1994	1998	2001	rBV	267997	370638	17.12%	1.424%
71	13.880	2001	2004	2017	rVB	321510	463409	21.41%	1.780%
72	14.016	2023	2027	2029	rBV	176422	227597	10.52%	0.874%
73	14.045	2029	2032	2041	rVB	310218	423942	19.59%	1.629%
74	14.174	2050	2054	2055	rBV	187409	220706	10.20%	0.848%
75	14.204	2055	2059	2064	rVB2	303234	584893	27.02%	2.247%
76	14.504	2106	2110	2116	rBV	280368	400426	18.50%	1.538%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-001

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-BF112124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

77	14.815	2159	2163	2171	rVV	243007	334725	15.47%	1.286%
78	14.892	2172	2176	2184	rVB	148552	208058	9.61%	0.799%
79	15.157	2217	2221	2230	rBV	238936	341342	15.77%	1.311%
80	15.539	2281	2286	2300	rVB2	317814	563306	26.03%	2.164%
81	15.986	2358	2362	2368	rVB	118924	194460	8.98%	0.747%
82	16.239	2399	2405	2420	rBV3	511092	1311580	60.60%	5.039%
83	16.451	2434	2441	2447	rBV	756138	1480223	68.39%	5.687%
84	17.192	2563	2567	2572	rBV5	37344	62319	2.88%	0.239%
85	17.386	2594	2600	2616	rVB6	75250	264528	12.22%	1.016%
86	17.656	2639	2646	2657	rVB2	136288	363478	16.79%	1.396%

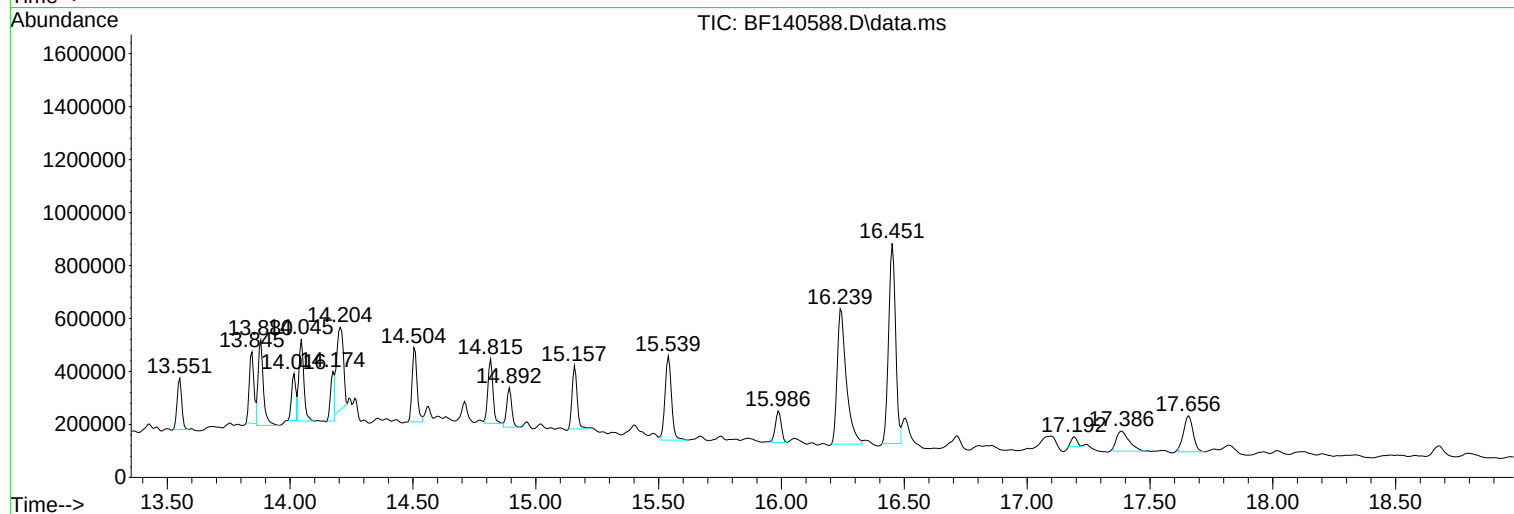
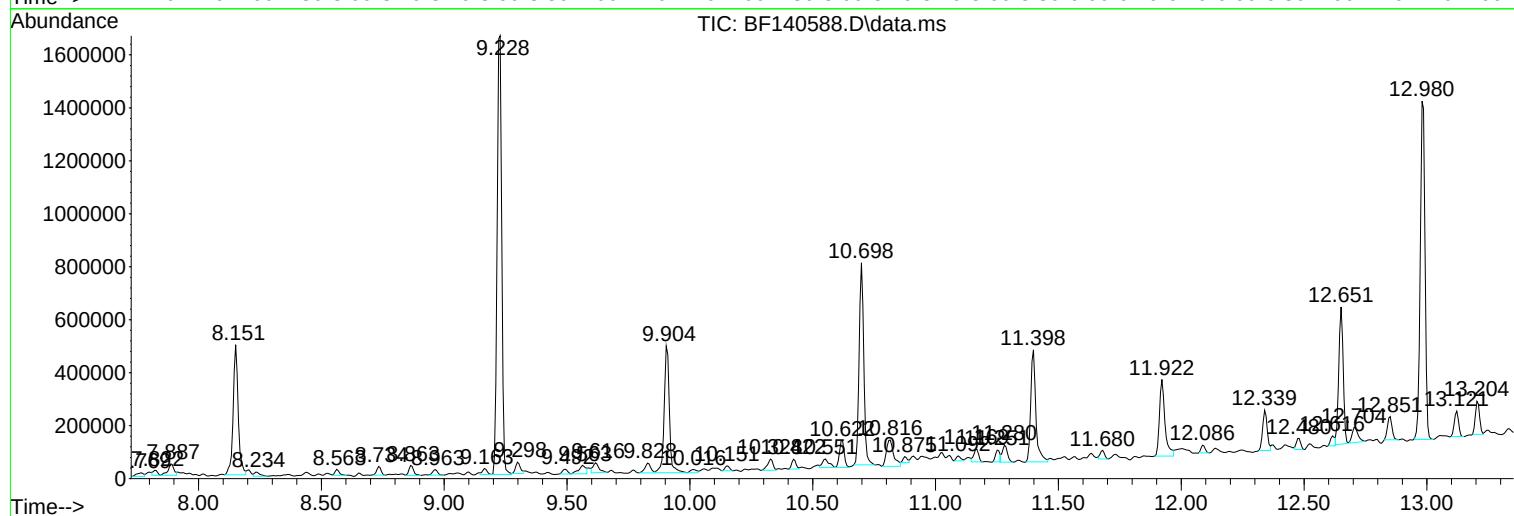
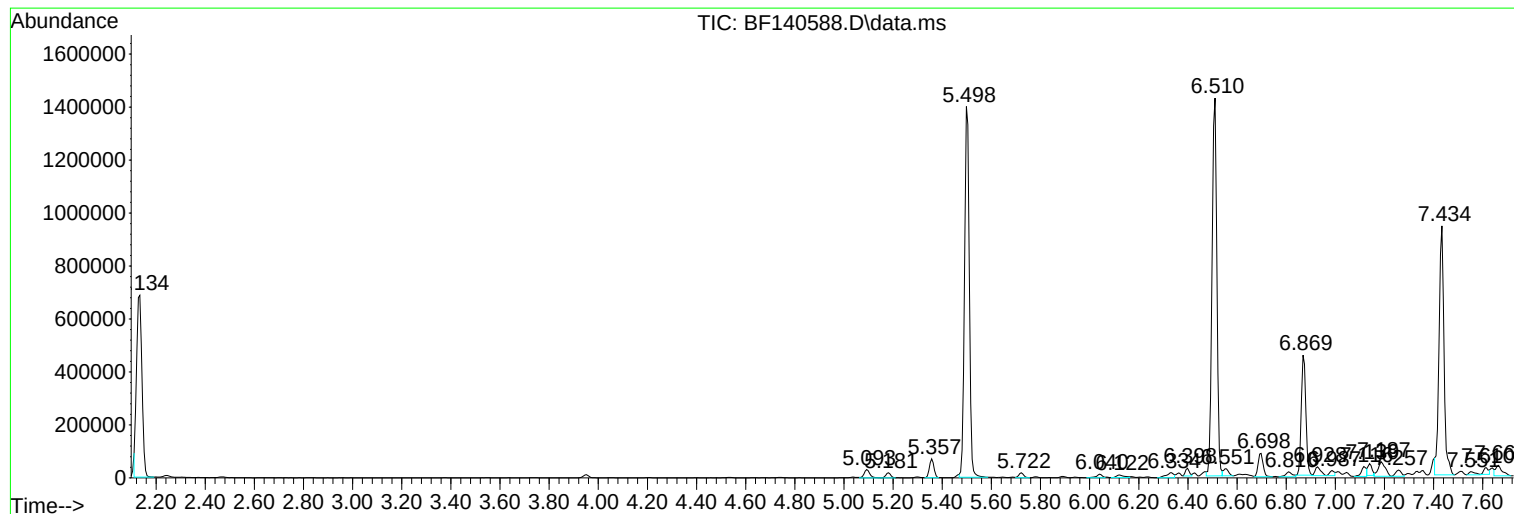
Sum of corrected areas: 26029300

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-001

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
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Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

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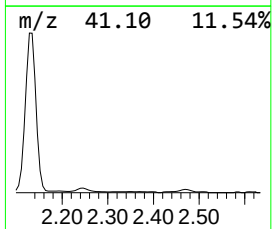
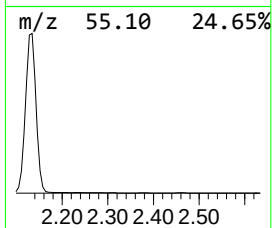
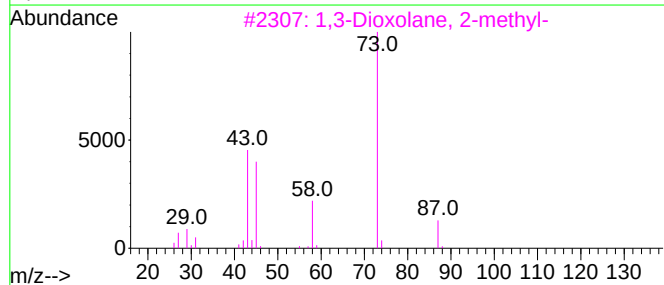
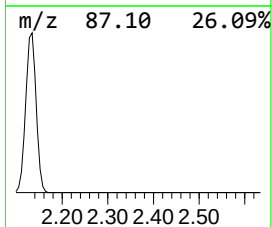
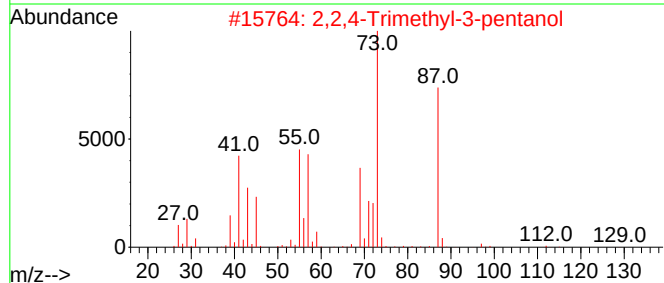
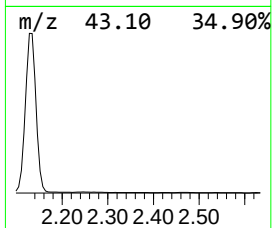
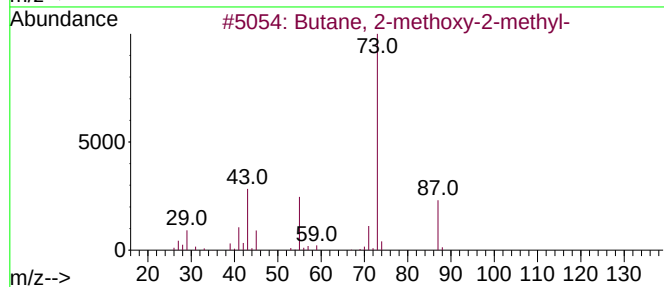
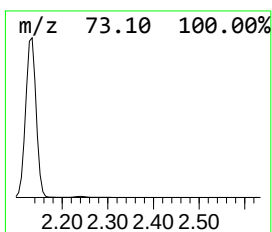
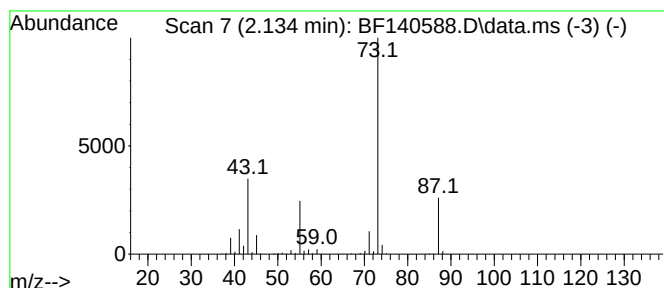
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.134	35.92 ng	1055280	1,4-Dichlorobenzene-d4	6.869

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2		2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3		1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4		Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
5		Silane, tetramethyl-	88	C4H12Si	000075-76-3	17



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

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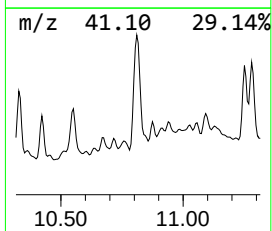
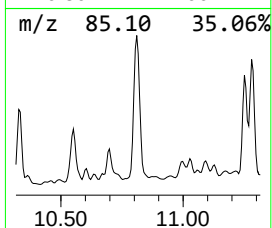
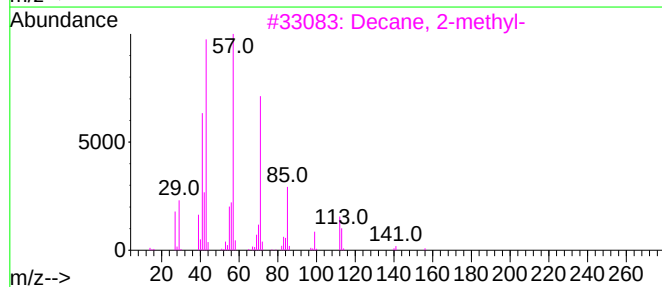
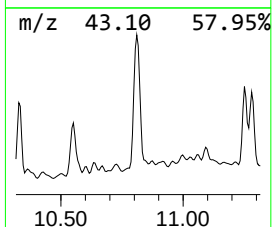
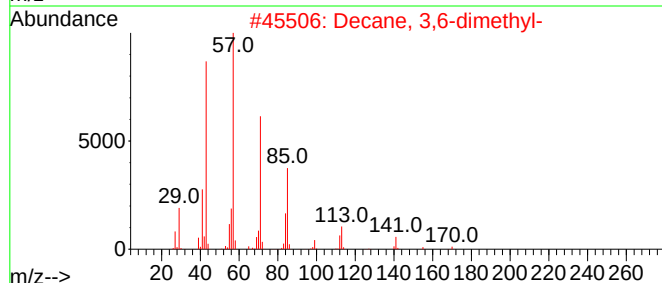
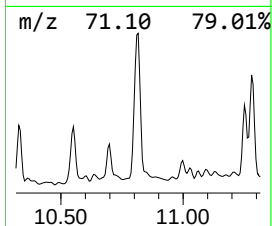
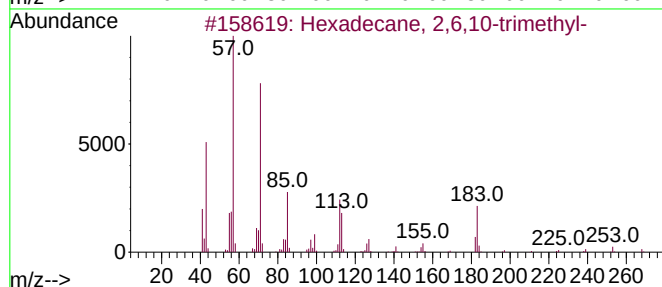
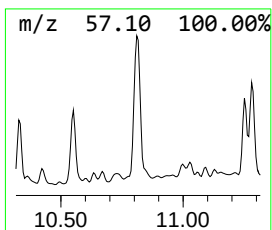
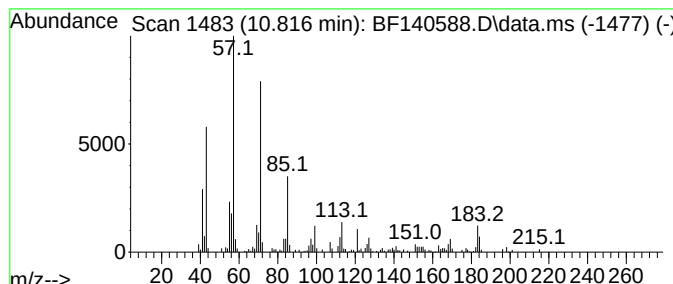
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Hexadecane, 2,6,10-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.816	6.70 ng	205213	Phenanthrene-d10	11.398

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexadecane, 2,6,10-trimethyl-	268	C19H40	055000-52-7	86
2			Decane, 3,6-dimethyl-	170	C12H26	017312-53-7	81
3			Decane, 2-methyl-	156	C11H24	006975-98-0	74
4			Heptacosane	380	C27H56	000593-49-7	74
5			Dodecane, 1-iodo-	296	C12H25I	004292-19-7	72



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-001

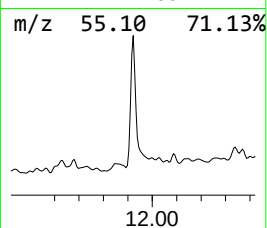
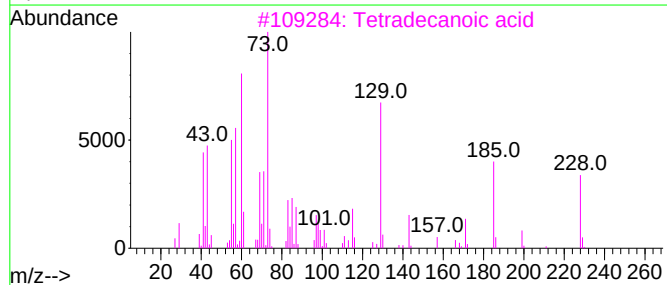
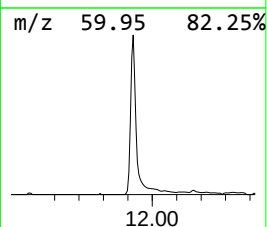
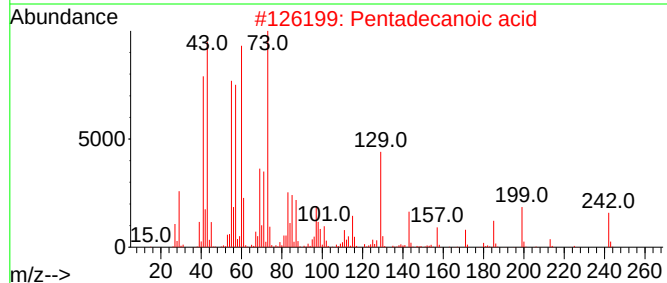
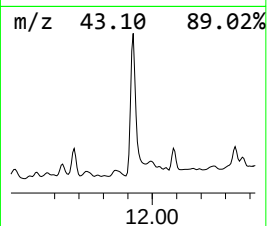
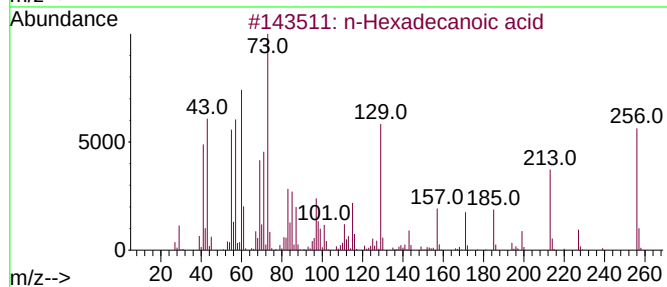
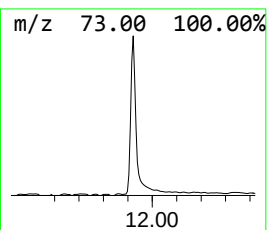
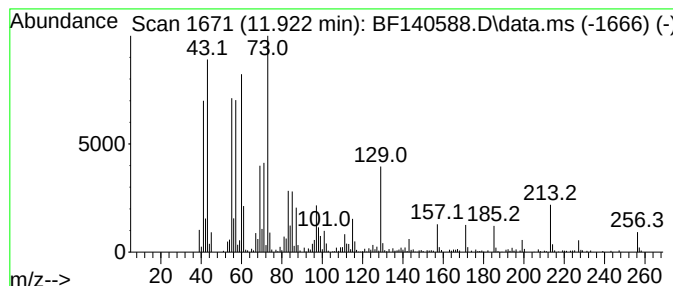
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 n-Hexadecanoic acid Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.922	14.66 ng	448778	Phenanthrene-d10	11.398

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2			Pentadecanoic acid	242	C15H30O2	001002-84-2	93
3			Tetradecanoic acid	228	C14H28O2	000544-63-8	91
4			Tridecanoic acid	214	C13H26O2	000638-53-9	86
5			n-Decanoic acid	172	C10H20O2	000334-48-5	68



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-001

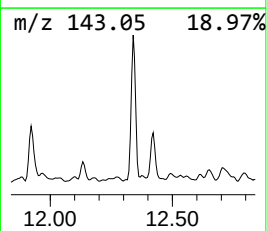
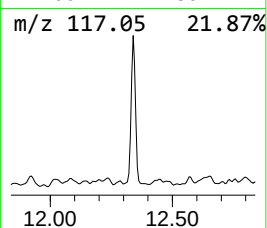
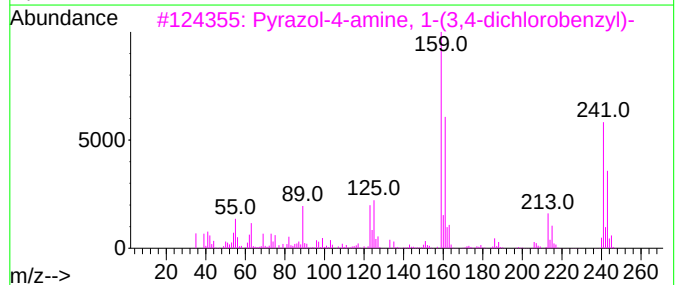
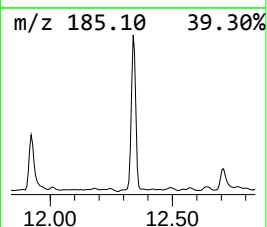
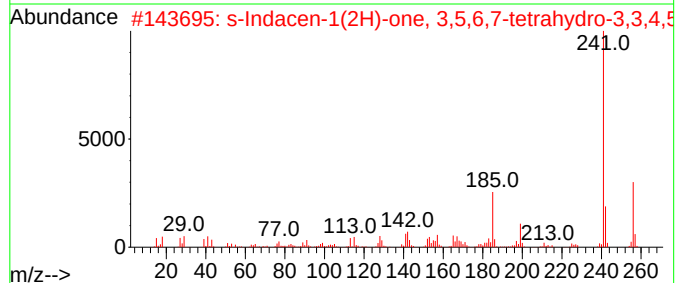
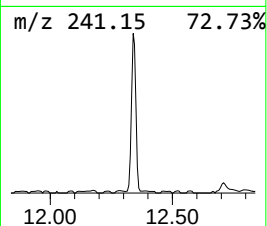
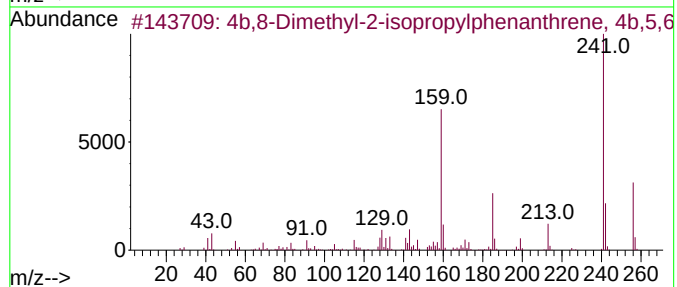
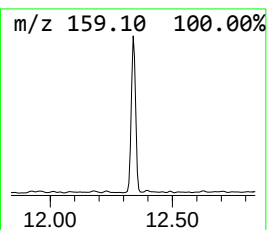
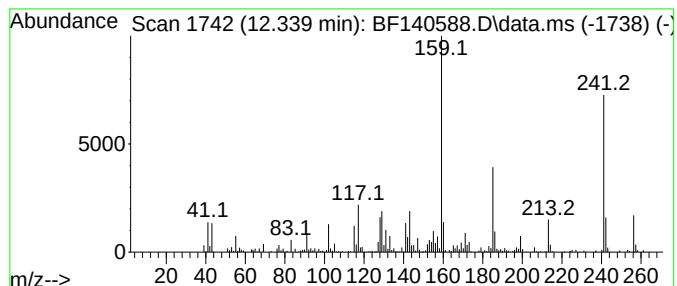
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 4b,8-Dimethyl-2-isopropylph... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.339	6.44 ng	197100	Phenanthrene-d10	11.398

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			4b,8-Dimethyl-2-isopropylphenant...	256	C19H28	1000197-14-1	97
2			s-Indacen-1(2H)-one, 3,5,6,7-tet...	256	C18H24O	038754-94-8	68
3			Pyrazol-4-amine, 1-(3,4-dichloro...	241	C10H9Cl2N3	1000273-77-4	52
4			Isoxazole, 5-methyl-4-phenyl-	159	C10H9NO	023253-49-8	38
5			2-(4-(2-Methylallyl)phenyl)propa...	203	C13H17NO	1000466-10-0	35



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

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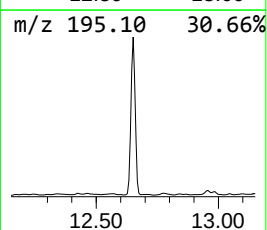
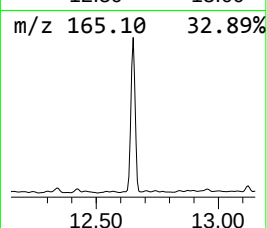
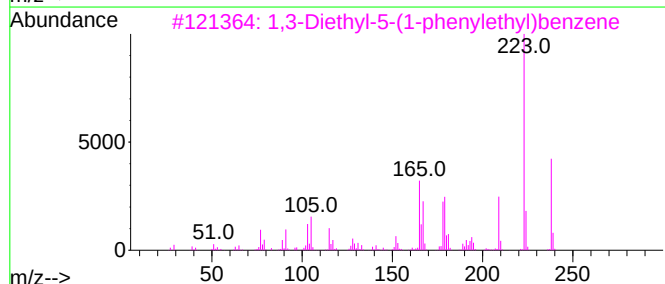
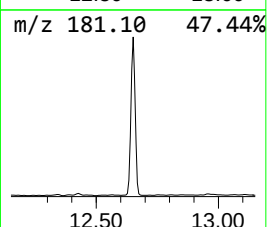
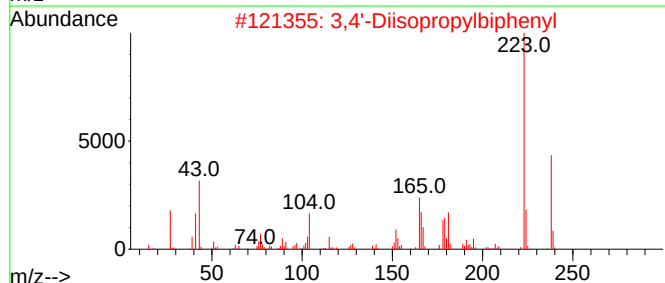
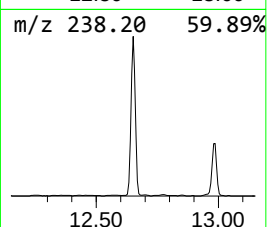
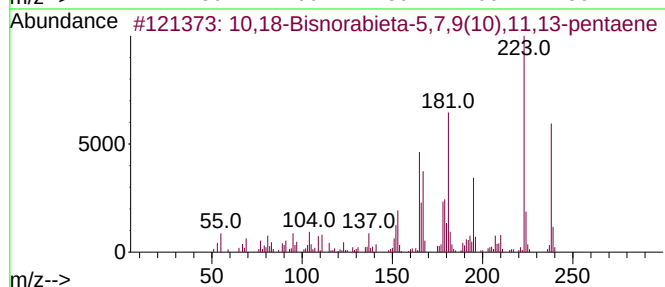
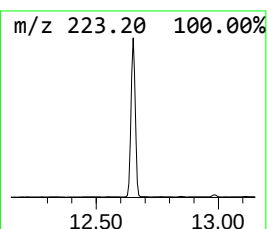
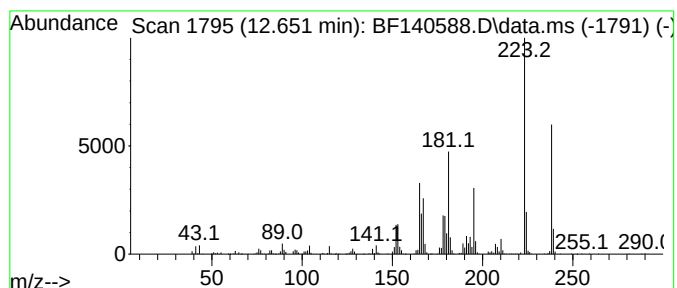
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 10,18-Bisnorabieta-5,7,9(10... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.651	21.23 ng	649806	Phenanthrene-d10	11.398

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	10,18-Bisnorabieta-5,7,9(10),11,...	238	C18H22		006566-19-4	99
2	3,4'-Diisopropylbiphenyl	238	C18H22		061434-46-6	89
3	1,3-Diethyl-5-(1-phenylethyl)ben...	238	C18H22		1000482-32-6	76
4	Anthracene, 1,4-dimethoxy-	238	C16H14O2		013076-29-4	62
5	4,4'-Diisopropylbiphenyl	238	C18H22		018970-30-4	53



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
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ALS Vial : 26 Sample Multiplier: 1

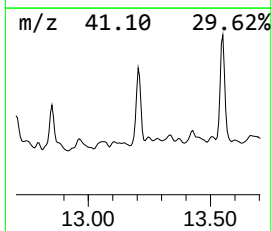
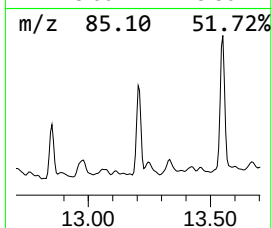
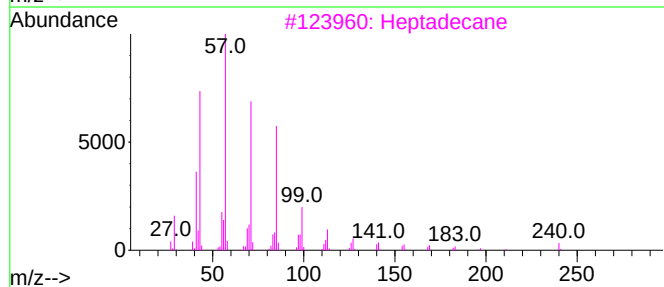
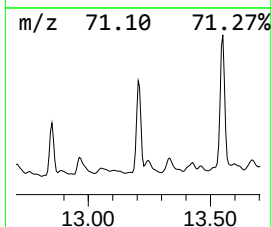
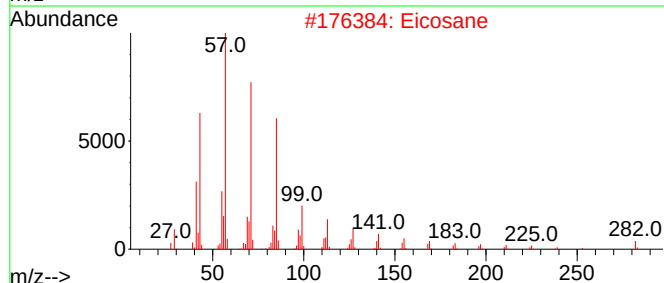
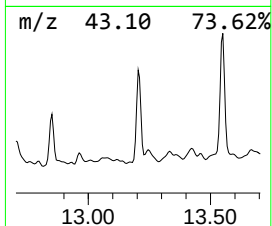
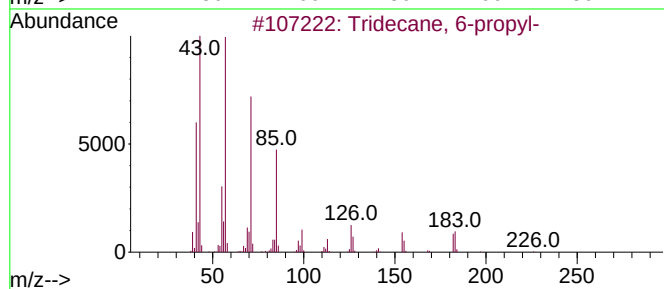
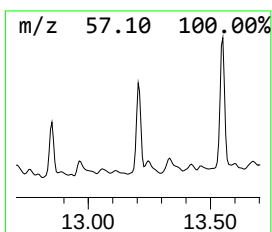
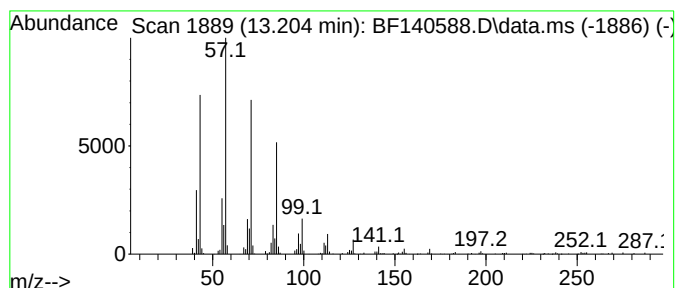
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Tridecane, 6-propyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD		R.T.	
13.204	6.97 ng	147759	Chrysene-d12		14.045	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Tridecane, 6-propyl-		226	C16H34	055045-10-8	91
2	Eicosane		282	C20H42	000112-95-8	91
3	Heptadecane		240	C17H36	000629-78-7	91
4	Octadecane		254	C18H38	000593-45-3	91
5	Octacosane		394	C28H58	000630-02-4	91



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
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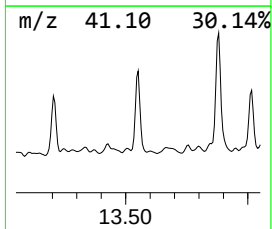
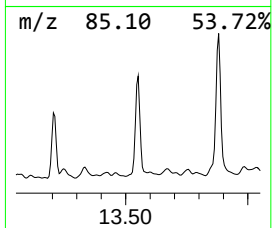
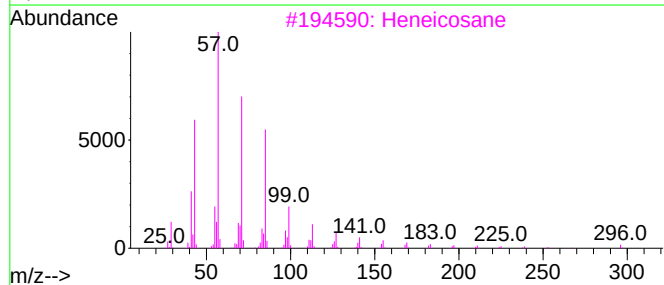
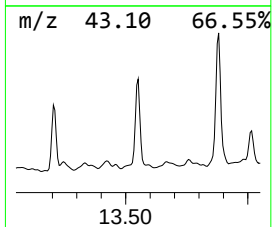
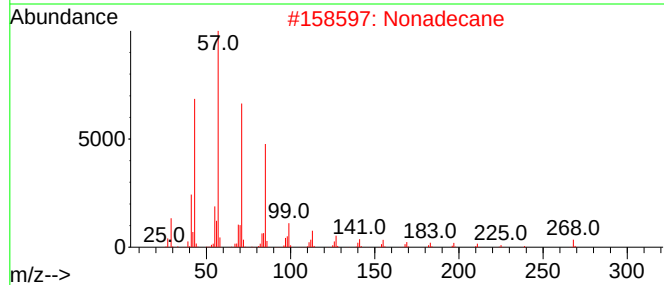
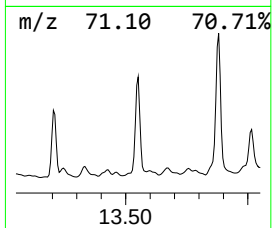
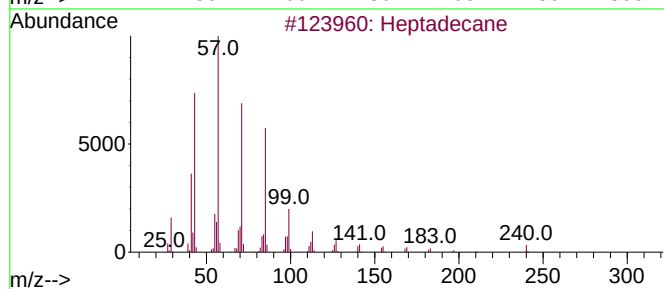
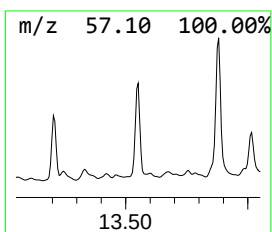
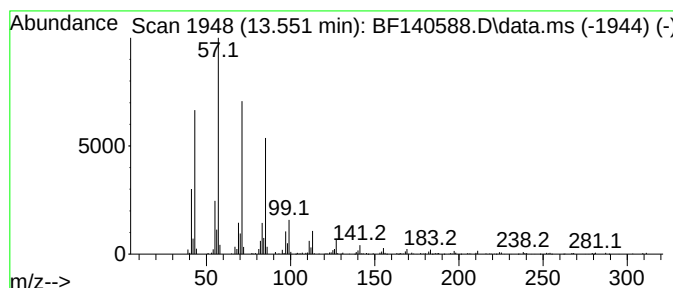
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Heptadecane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.551	11.96 ng	253581	Chrysene-d12	14.045	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane	240	C17H36	000629-78-7	97
2	Nonadecane	268	C19H40	000629-92-5	94
3	Heneicosane	296	C21H44	000629-94-7	91
4	Hexacosane	366	C26H54	000630-01-3	91
5	Docosane, 1-iodo-	436	C22H45I	1000406-31-9	91



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
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Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
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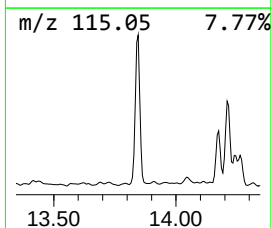
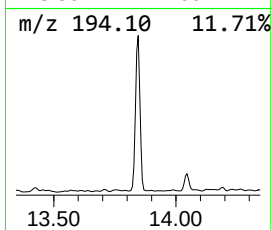
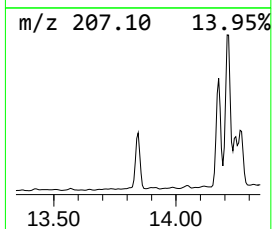
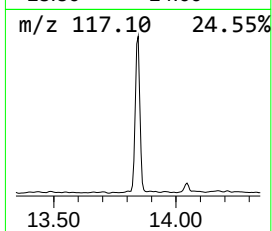
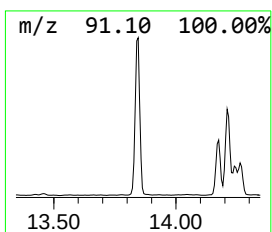
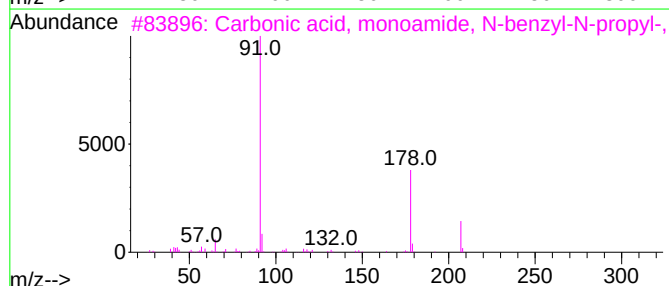
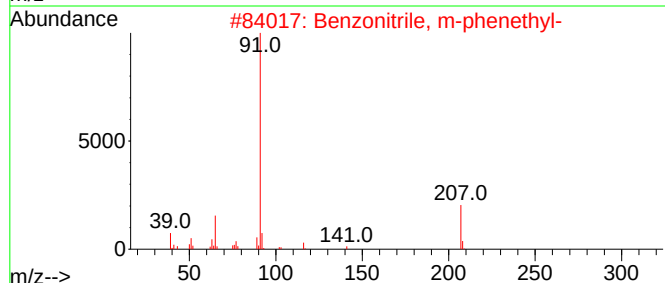
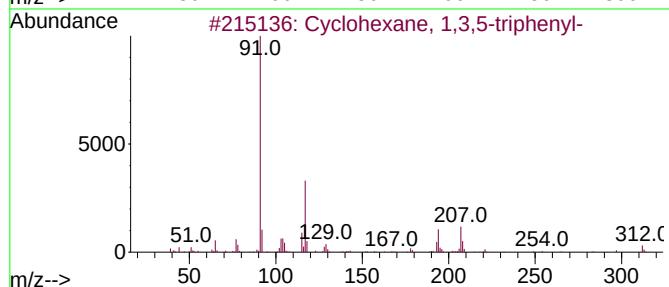
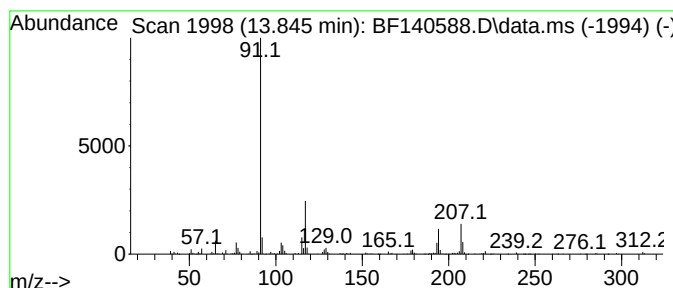
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Cyclohexane, 1,3,5-triphenyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.845	17.49 ng	370638	Chrysene-d12	14.045	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3,5-triphenyl-	312	C24H24	028336-57-4	83
2	Benzonitrile, m-phenethyl-	207	C15H13N	034176-91-5	25
3	Carbonic acid, monoamide, N-benz...	207	C12H17NO2	1000451-48-5	16
4	(R)-(1-Cyclopentylpropane-1,3-di...	264	C20H24	1402851-74-4	16
5	Isoxazole, 5-chloro-4-(2-phenyle...	207	C11H10ClNO	1000362-09-0	16



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
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Acq On : 22 Nov 2024 19:53
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Misc :
ALS Vial : 26 Sample Multiplier: 1

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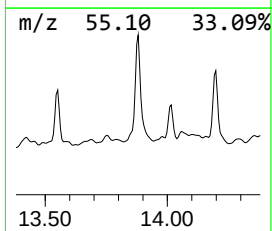
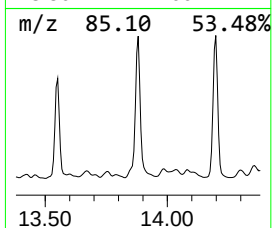
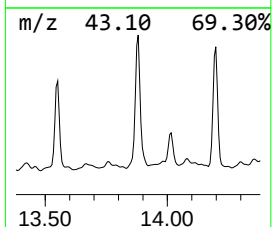
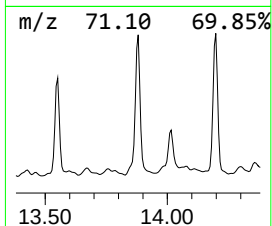
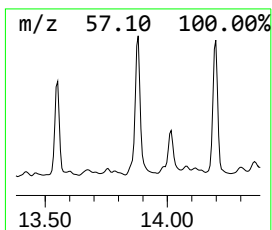
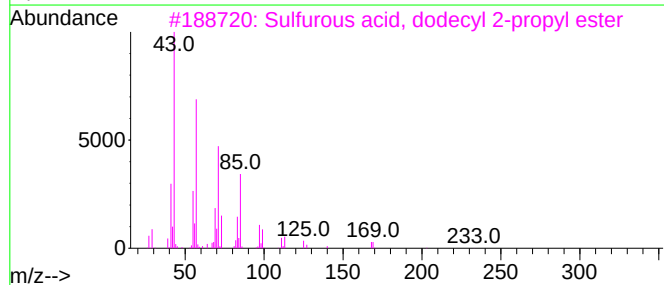
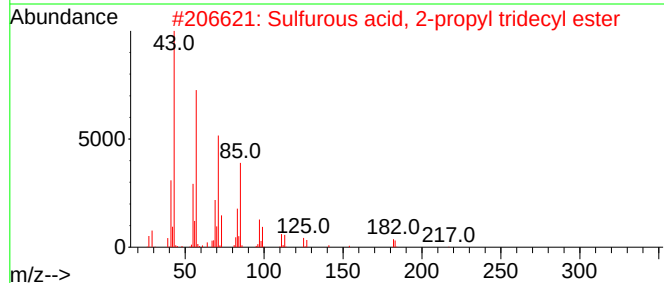
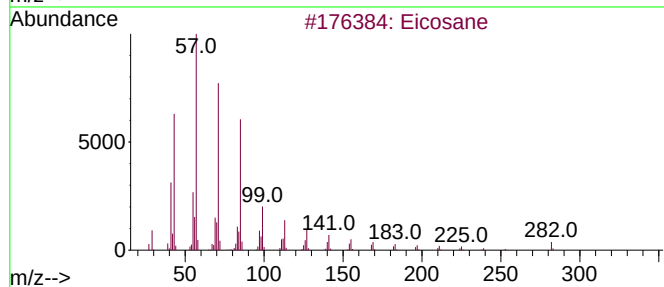
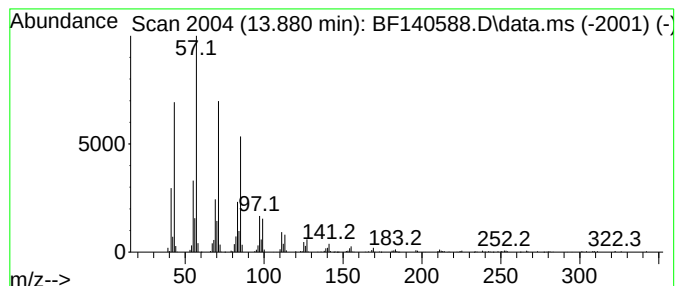
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Eicosane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.880	21.86 ng	463409	Chrysene-d12	14.045

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane			282	C20H42	000112-95-8	97
2	Sulfurous acid, 2-propyl tridecy...			306	C16H34O3S	1000309-12-4	91
3	Sulfurous acid, dodecyl 2-propyl...			292	C15H32O3S	1000309-12-3	91
4	Hexacosane			366	C26H54	000630-01-3	87
5	Carbonic acid, tetradecyl vinyl ...			284	C17H32O3	1000382-54-5	87



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
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Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

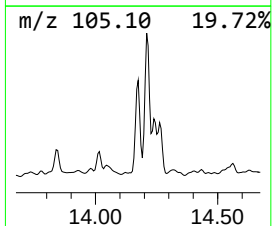
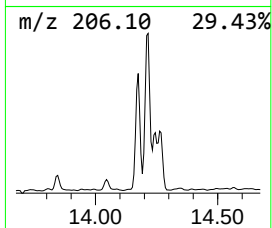
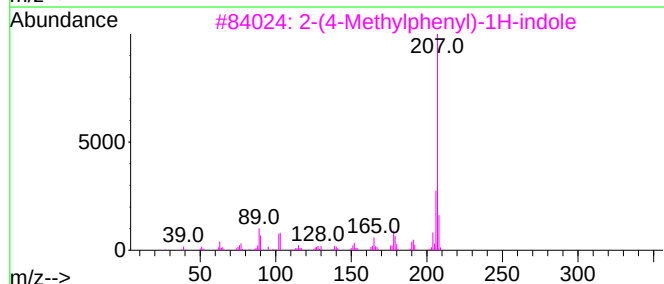
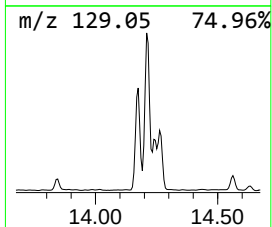
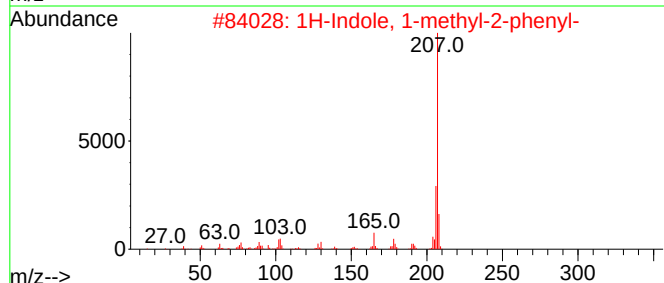
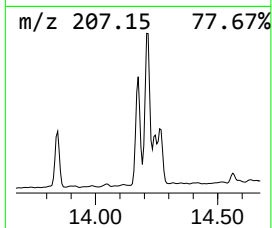
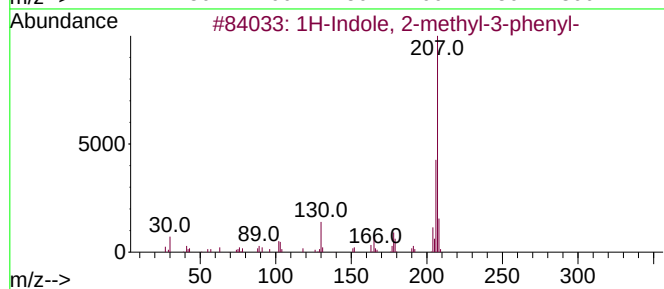
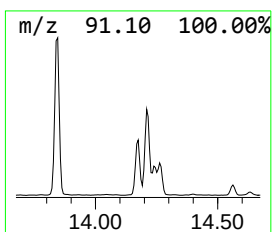
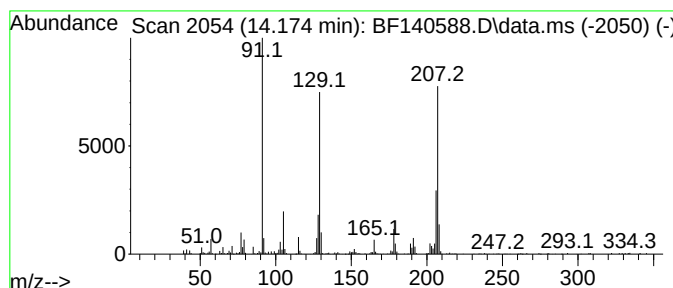
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 1H-Indole, 2-methyl-3-phenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.	
14.174	10.41 ng	220706	Chrysene-d12	14.045	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indole, 2-methyl-3-phenyl-	207	C15H13N	004757-69-1	50
2	1H-Indole, 1-methyl-2-phenyl-	207	C15H13N	003558-24-5	46
3	2-(4-Methylphenyl)-1H-indole	207	C15H13N	055577-25-8	46
4	7-Methyl -2-phenyl-1H-indole	207	C15H13N	059541-82-1	43
5	5-Methyl-2-phenylindolizine	207	C15H13N	036944-99-7	38



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
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Instrument :
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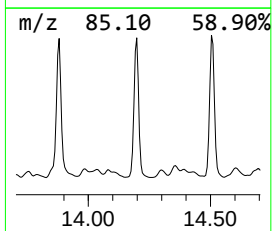
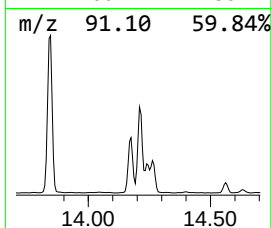
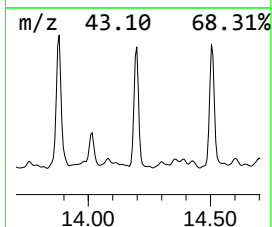
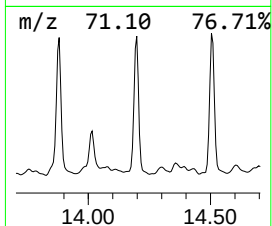
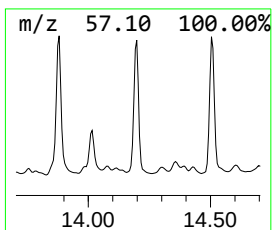
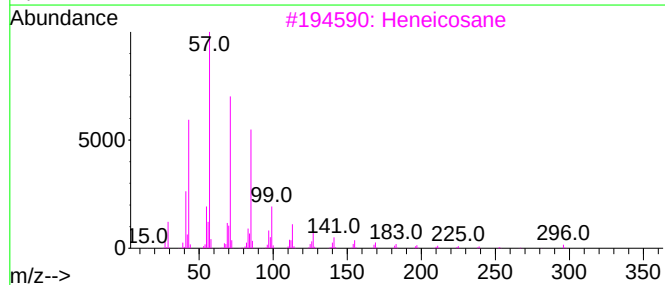
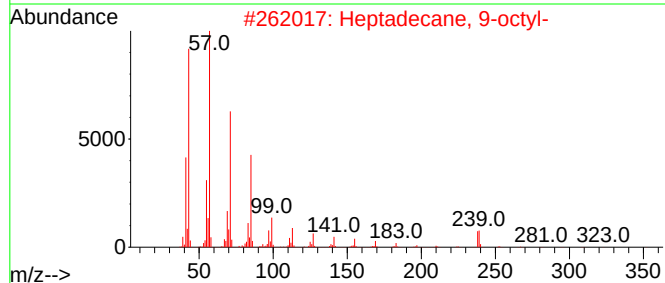
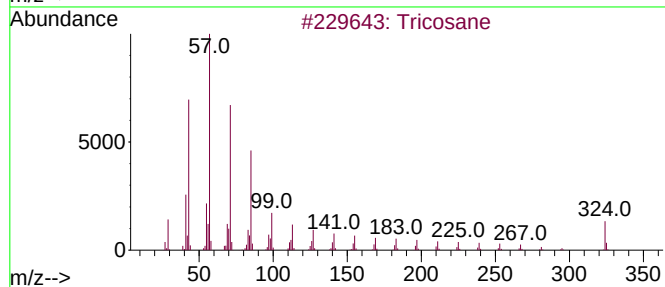
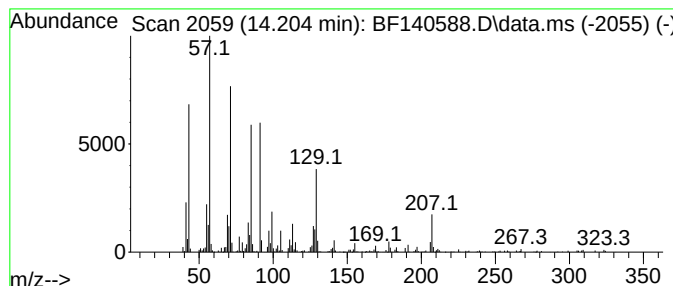
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Tricosane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.204	27.59 ng	584893	Chrysene-d12	14.045

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Tricosane	324	C23H48	000638-67-5	91
2			Heptadecane, 9-octyl-	352	C25H52	007225-64-1	70
3			Heneicosane	296	C21H44	000629-94-7	70
4			Hexacosane	366	C26H54	000630-01-3	64
5			Eicosane, 1-iodo-	408	C20H41I	1000406-31-8	62



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
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Operator : RC/JU
Sample : P4860-02
Misc :
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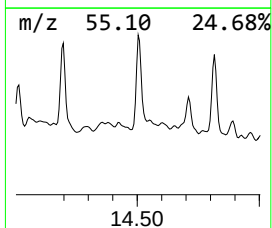
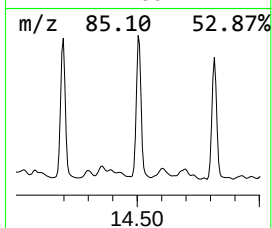
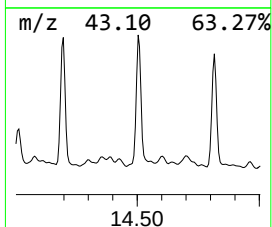
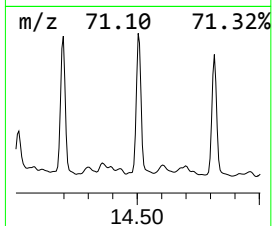
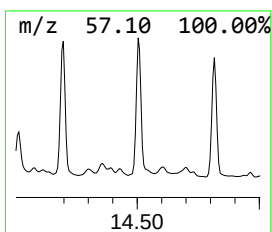
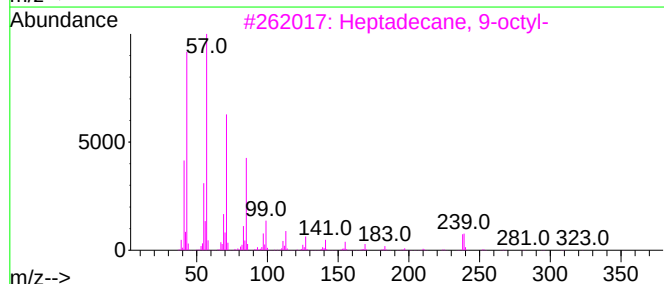
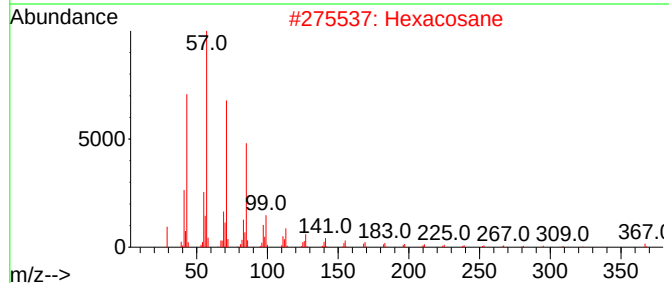
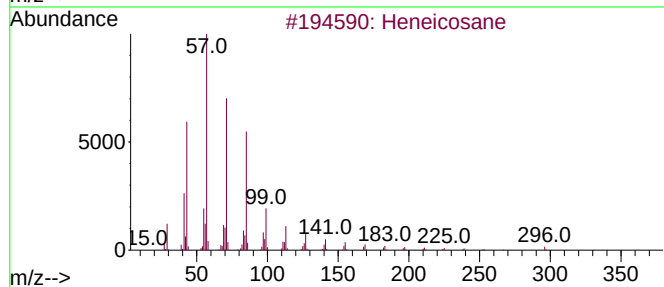
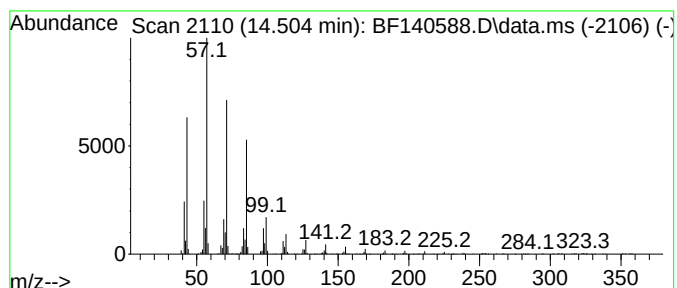
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Heneicosane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.	
14.504	18.89 ng	400426	Chrysene-d12	14.045	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	91
2	Hexacosane	366	C26H54	000630-01-3	91
3	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	91
4	Octacosane	394	C28H58	000630-02-4	91
5	Docosane, 11-butyl-	366	C26H54	013475-76-8	91



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
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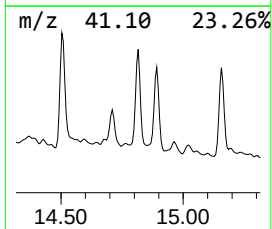
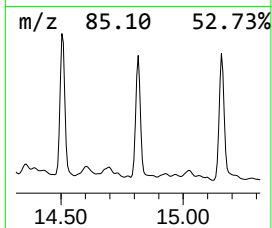
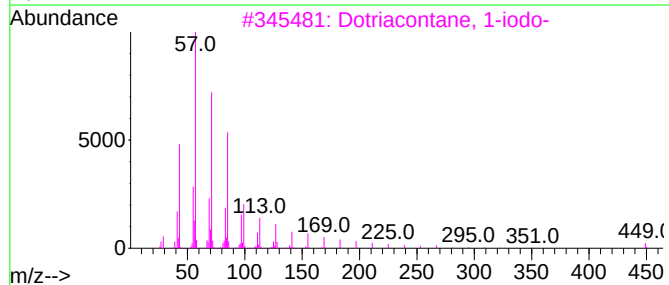
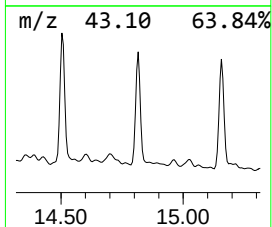
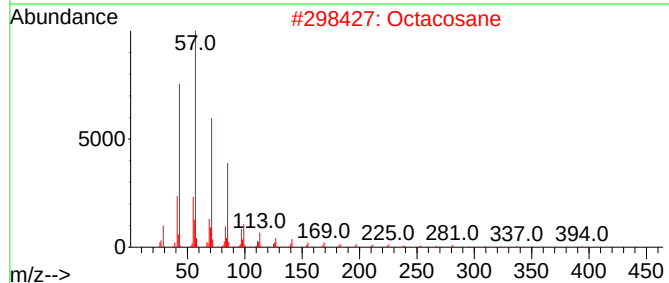
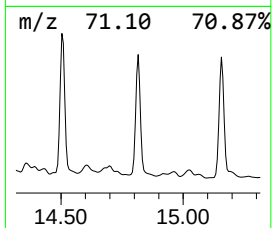
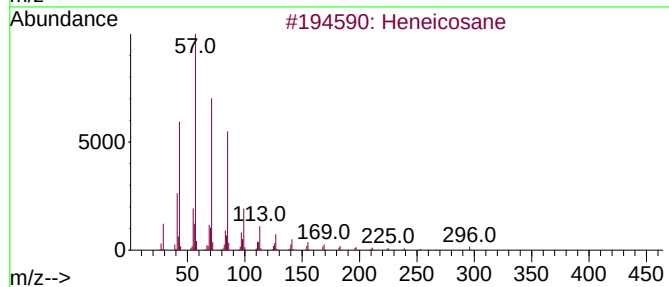
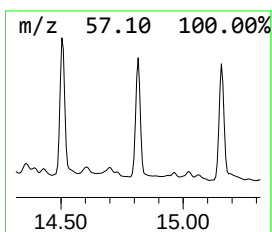
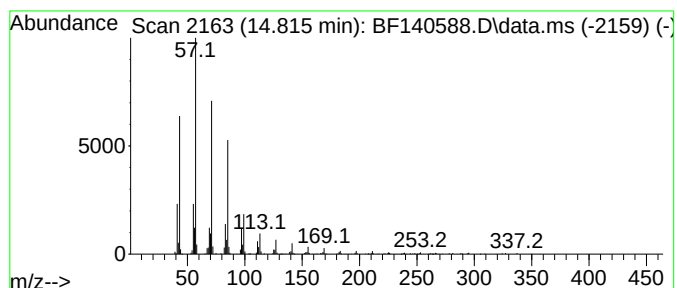
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Octacosane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.	
14.816	11.88 ng	334725	Perylene-d12	15.533	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	91
2	Octacosane	394	C28H58	000630-02-4	91
3	Dotriacontane, 1-iodo-	576	C32H65I	1000406-32-4	91
4	Octacosane, 2-methyl-	408	C29H60	001560-98-1	91
5	Hexacosane	366	C26H54	000630-01-3	91



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
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ClientSampleId :
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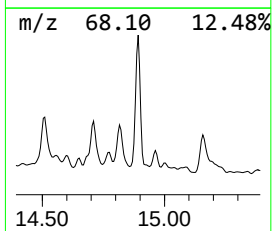
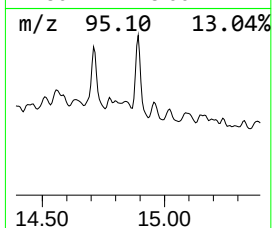
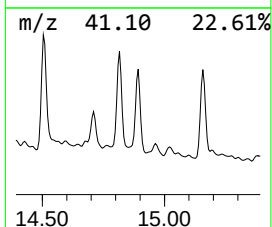
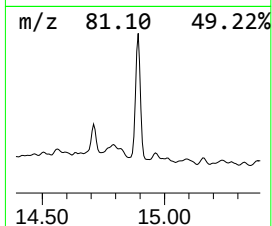
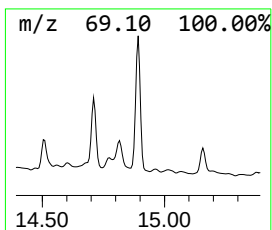
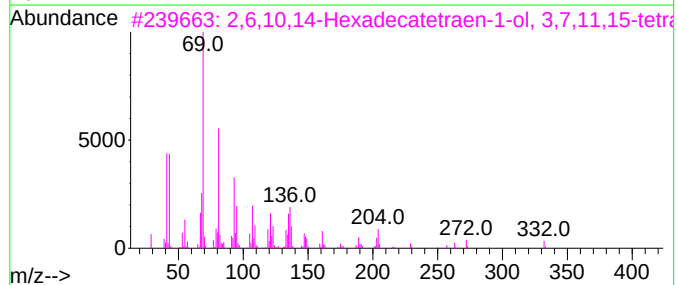
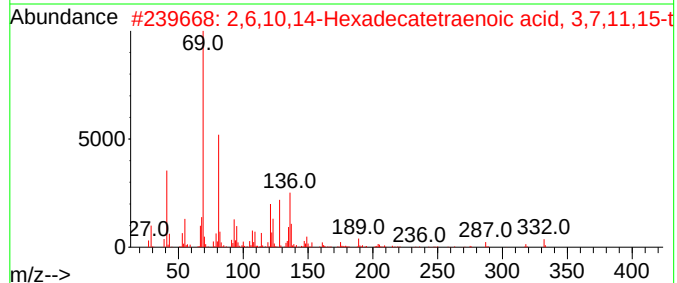
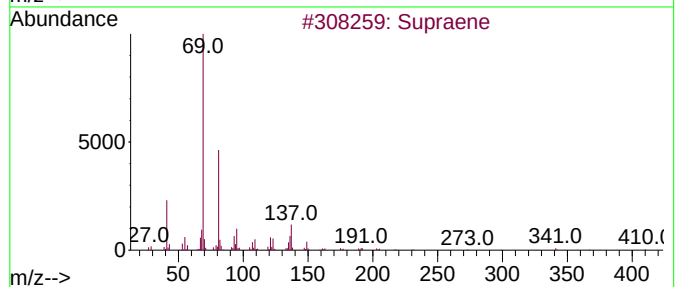
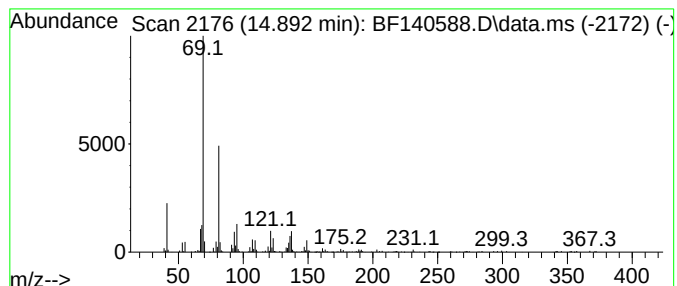
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TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 14 Supraene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.892	7.39 ng	208058	Perylene-d12	15.533

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Supraene	410	C30H50	007683-64-9	91
2			2,6,10,14-Hexadecatetraenoic aci...	332	C22H36O2	024035-35-6	78
3			2,6,10,14-Hexadecatetraen-1-ol, ...	332	C22H36O2	061691-98-3	72
4			7,11-Dimethyldodeca-2,6,10-trien...	208	C14H24O	125529-10-4	72
5			2,6,10-Dodecatrien-1-ol, 3,7,11-...	222	C15H26O	004602-84-0	64



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Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
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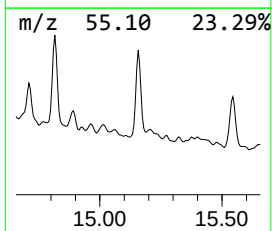
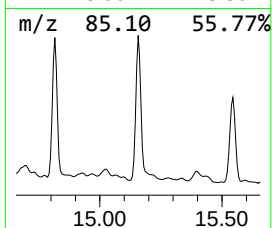
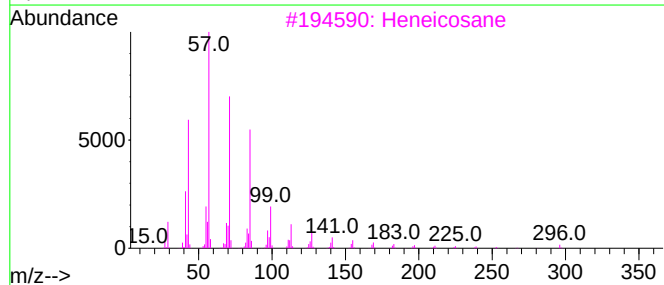
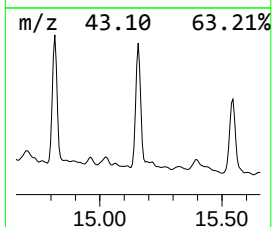
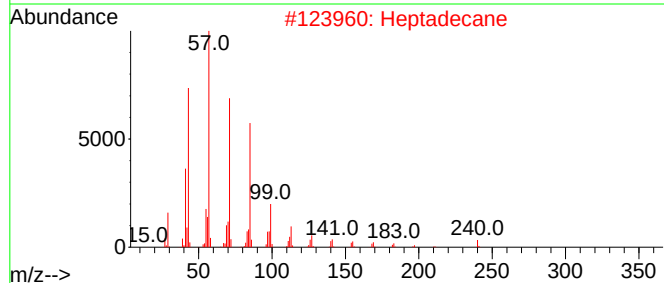
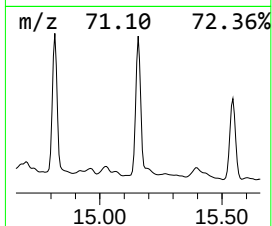
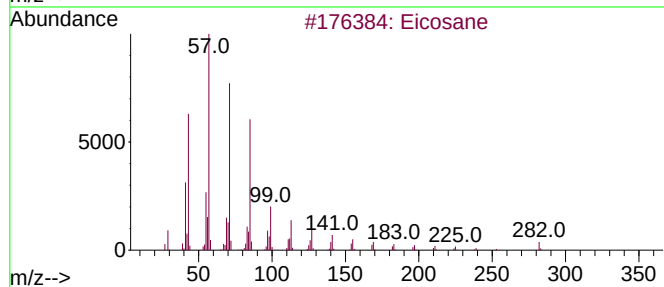
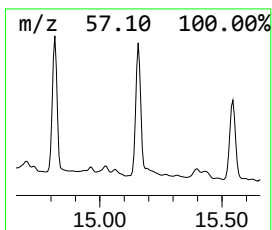
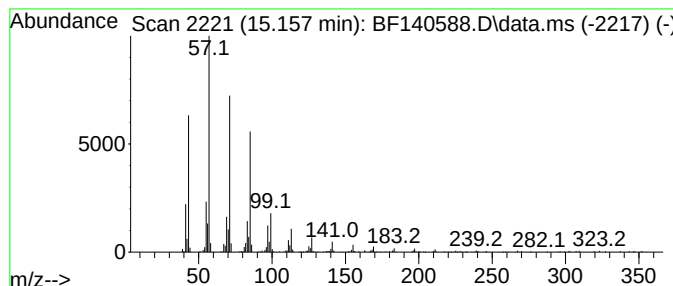
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Heneicosane, 11-(1-ethylpro... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD		R.T.	
15.157	12.12 ng	341342	Perylene-d12		15.533	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Eicosane		282	C20H42	000112-95-8	94
2	Heptadecane		240	C17H36	000629-78-7	94
3	Heneicosane		296	C21H44	000629-94-7	91
4	Heneicosane, 11-(1-ethylpropyl)-		366	C26H54	055282-11-6	91
5	Heptacosane		380	C27H56	000593-49-7	91



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
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Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-001

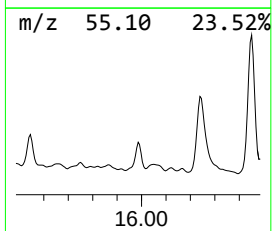
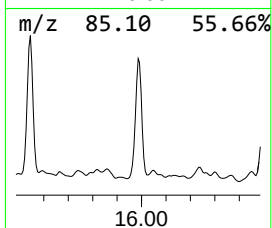
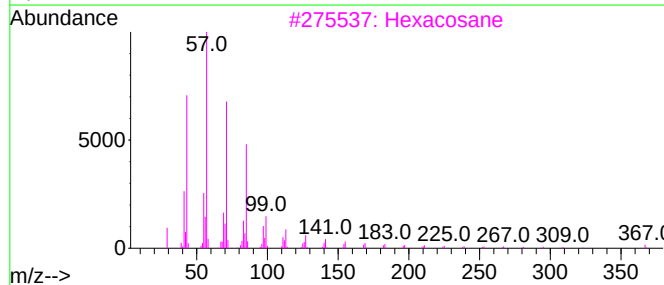
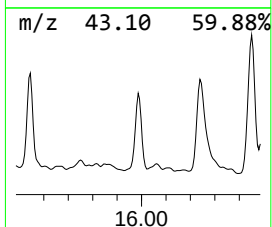
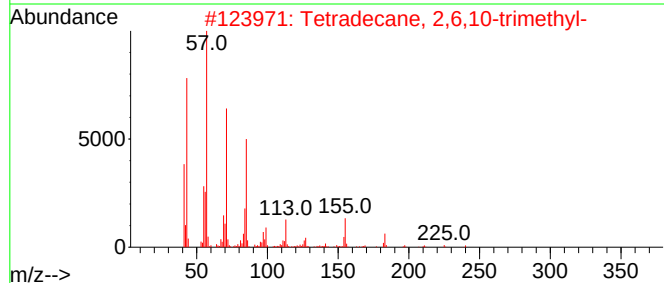
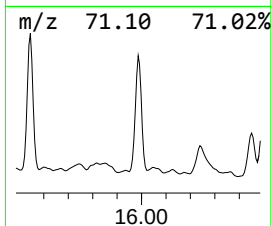
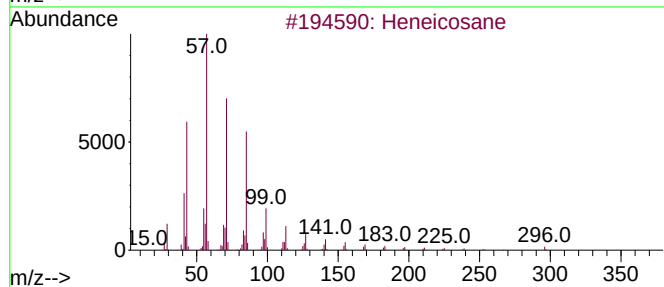
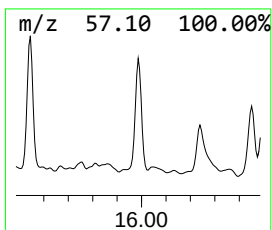
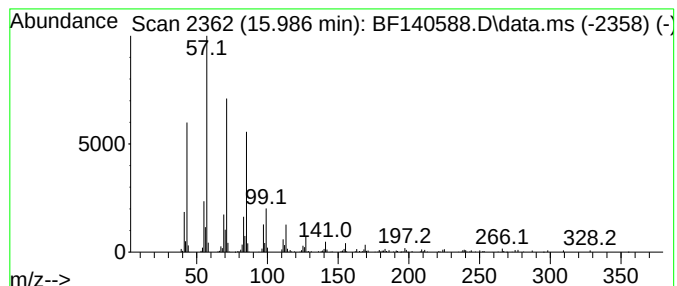
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Tetradecane, 2,6,10-trimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.986	6.90 ng	194460	Perylene-d12	15.533

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heneicosane	296	C21H44	000629-94-7	90
2			Tetradecane, 2,6,10-trimethyl-	240	C17H36	014905-56-7	90
3			Hexacosane	366	C26H54	000630-01-3	87
4			Eicosane, 1-iodo-	408	C20H41I	1000406-31-8	87
5			Docosane, 1-iodo-	436	C22H45I	1000406-31-9	87



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
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Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

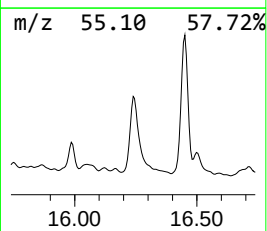
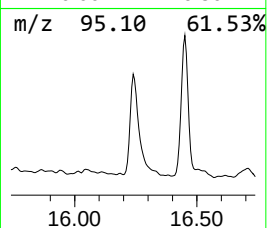
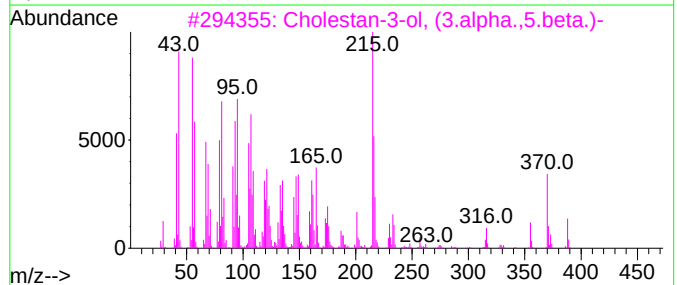
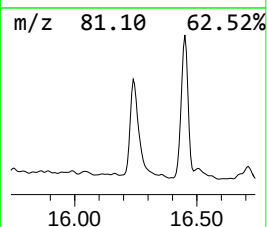
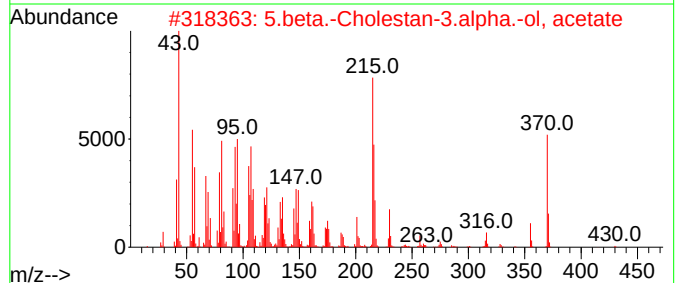
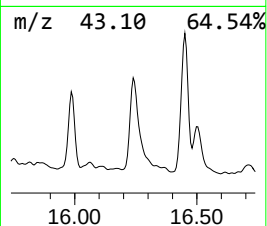
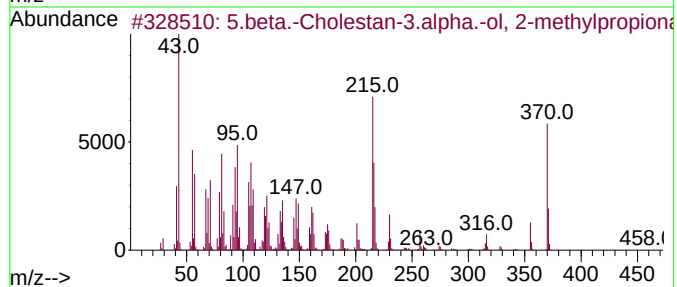
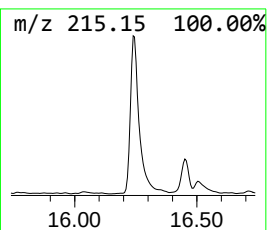
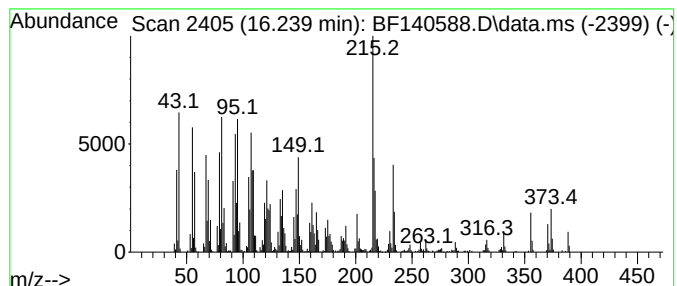
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 5.beta.-Cholestan-3.alpha.-... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
16.239	46.57 ng	1311580	Perylene-d12	15.533	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5.beta.-Cholestan-3.alpha.-ol, 2...	458	C31H54O2	1000514-95-7	70
2	5.beta.-Cholestan-3.alpha.-ol, a...	430	C29H50O2	033157-47-0	58
3	Cholestan-3-ol, (3.alpha.,5.beta.)-	388	C27H48O	000516-92-7	53
4	Cholestan-3-ol	388	C27H48O	027409-41-2	47
5	Cholestanol	388	C27H48O	000080-97-7	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
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Sample : P4860-02
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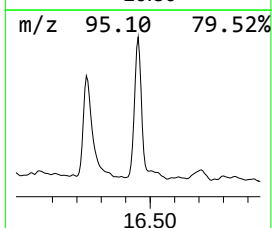
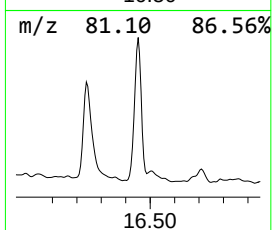
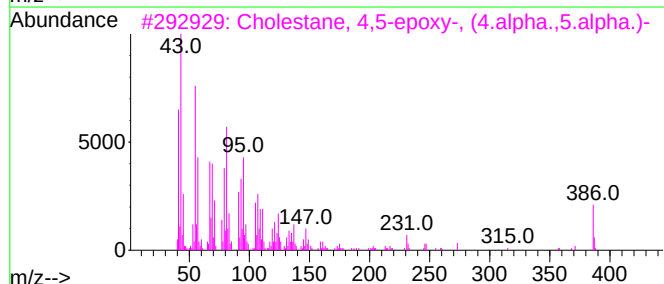
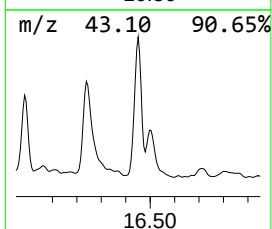
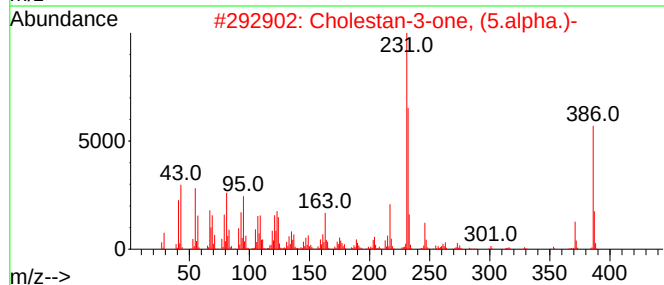
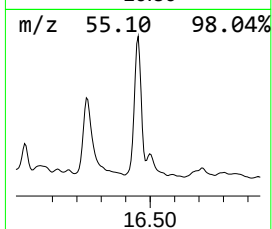
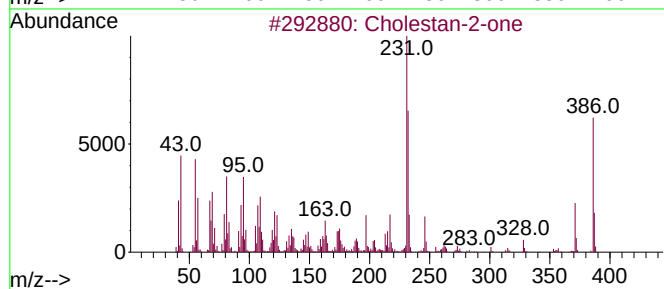
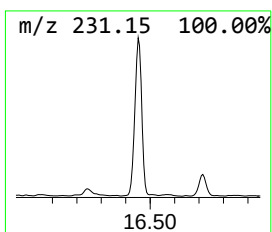
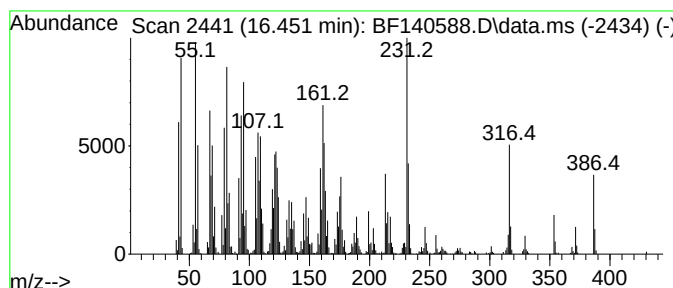
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Cholestan-2-one Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.	
16.451	52.55 ng	1480220	Perylene-d12	15.533	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cholestan-2-one	386	C27H46O	1010210-43-4	95
2	Cholestan-3-one, (5.alpha.)-	386	C27H46O	000566-88-1	59
3	Cholestane, 4,5-epoxy-, (4.alpha...	386	C27H46O	006079-19-2	53
4	Cholestan-3-one	386	C27H46O	015600-08-5	51
5	5.beta.-Cholan-24-oic acid, 3-oxo-	374	C24H38O3	001553-56-6	49



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
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Acq On : 22 Nov 2024 19:53
Operator : RC/JU
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Misc :
ALS Vial : 26 Sample Multiplier: 1

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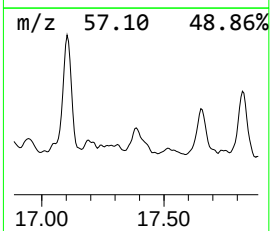
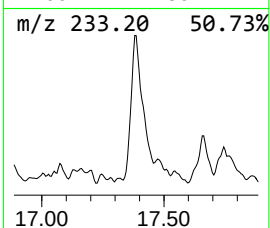
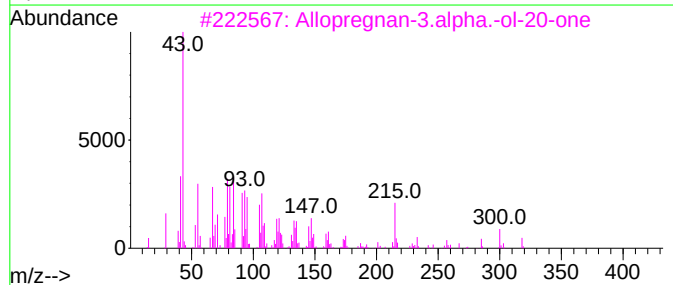
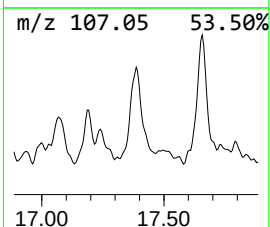
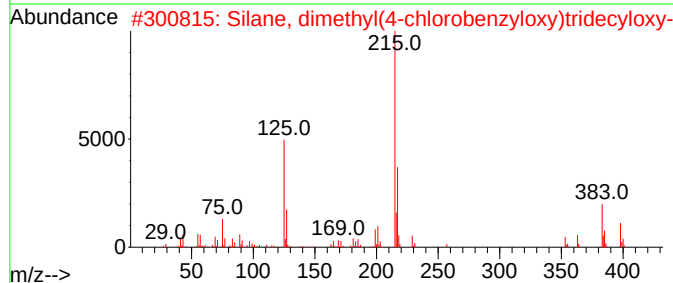
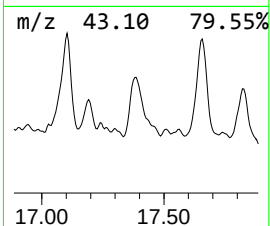
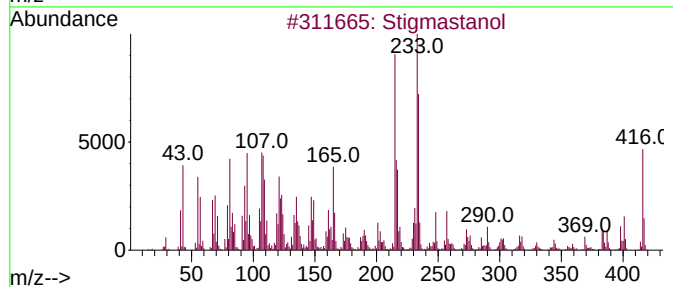
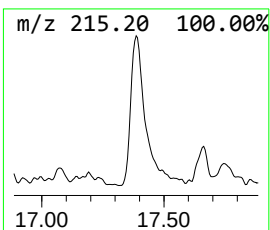
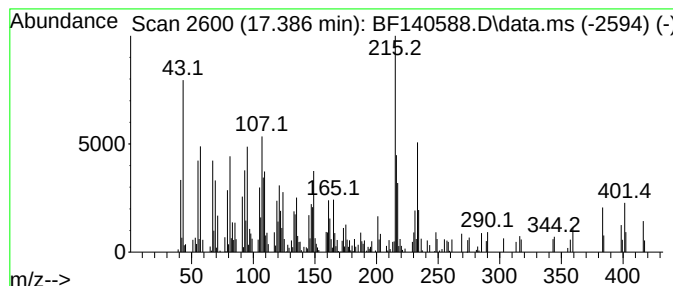
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Stigmastanol Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.386	9.39 ng	264528	Perylene-d12	15.533

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Stigmastanol	416	C29H52O	019466-47-8	55
2			Silane, dimethyl(4-chlorobenzoylo...	398	C22H39ClO2Si	1010347-00-1	38
3			Allopregnan-3.alpha.-ol-20-one	318	C21H34O2	000516-54-1	25
4			11-Azatricyclo[6.2.1.0(2,7)]unde...	215	C13H13N02	1000306-00-6	22
5			Pyridin-3-ol, 2-(4-nitrophenyl)-	216	C11H8N2O3	030820-89-4	22



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
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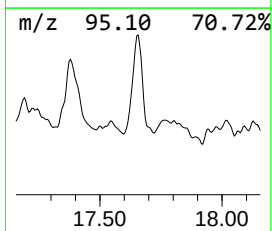
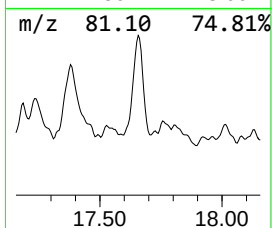
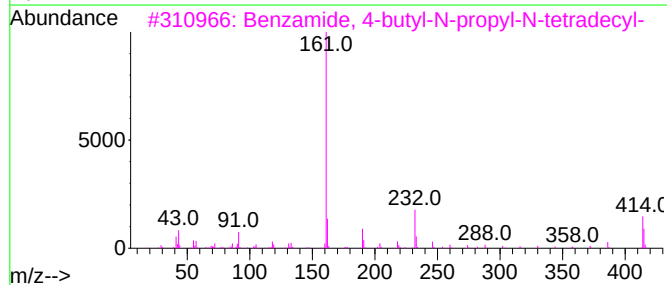
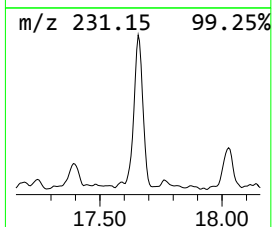
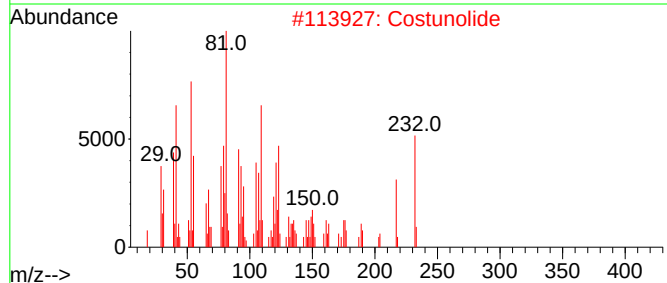
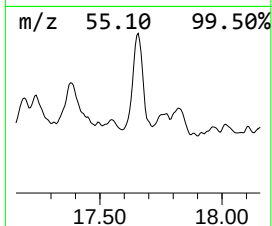
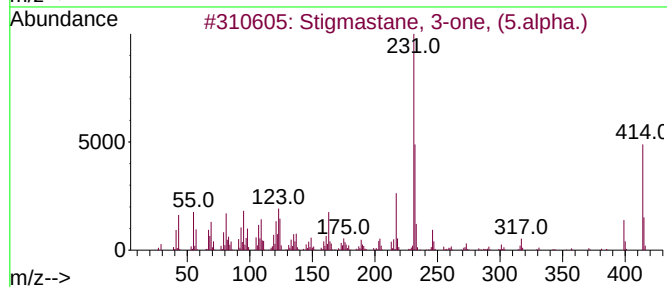
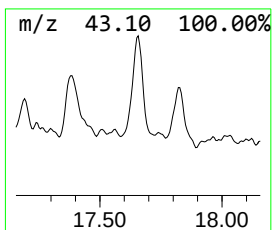
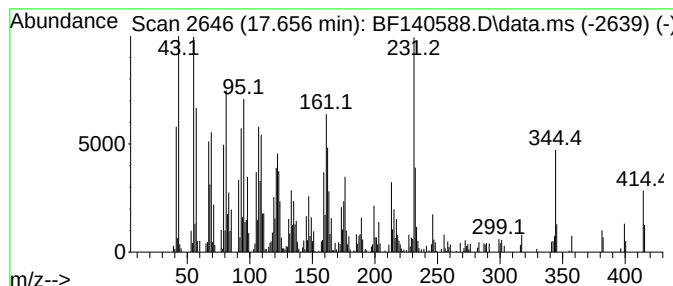
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 unknown17.657 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.657	12.91 ng	363478	Perylene-d12	15.533

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Stigmastane, 3-one, (5.alpha.)	414	C29H50O	1000437-00-8	45
2		Costunolide	232	C15H20O2	000553-21-9	44
3		Benzamide, 4-butyl-N-propyl-N-te...	415	C28H49NO	1000438-15-5	35
4		5-Methoxyquinolin-8-amine, TMS	246	C13H18N2OSi	1000514-59-5	25
5		Benzamide, 4-tert-butyl-N-propyl...	415	C28H49NO	1000438-64-6	25



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140588.D
Acq On : 22 Nov 2024 19:53
Operator : RC/JU
Sample : P4860-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
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ClientSampleId :
PH2-BOT-001

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
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Hexadecane, 2,6...	10.816	6.7	ng	205213	4	11.398	612268	20.0
n-Hexadecanoic ...	11.922	14.7	ng	448778	4	11.398	612268	20.0
4b,8-Dimethyl-2...	12.339	6.4	ng	197100	4	11.398	612268	20.0
10,18-Bisnorabi...	12.651	21.2	ng	649806	4	11.398	612268	20.0
Tridecane, 6-pr...	13.204	7.0	ng	147759	5	14.045	423942	20.0
Heptadecane	13.551	12.0	ng	253581	5	14.045	423942	20.0
Cyclohexane, 1,...	13.845	17.5	ng	370638	5	14.045	423942	20.0
Eicosane	13.880	21.9	ng	463409	5	14.045	423942	20.0
1H-Indole, 2-me...	14.174	10.4	ng	220706	5	14.045	423942	20.0
Tricosane	14.204	27.6	ng	584893	5	14.045	423942	20.0
Heneicosane	14.504	18.9	ng	400426	5	14.045	423942	20.0
Octacosane	14.816	11.9	ng	334725	6	15.533	563306	20.0
Supraene	14.892	7.4	ng	208058	6	15.533	563306	20.0
Heneicosane, 11...	15.157	12.1	ng	341342	6	15.533	563306	20.0
Tetradecane, 2,...	15.986	6.9	ng	194460	6	15.533	563306	20.0
5.beta.-Cholest...	16.239	46.6	ng	1311580	6	15.533	563306	20.0
Cholestan-2-one	16.451	52.5	ng	1480220	6	15.533	563306	20.0
Stigmastanol	17.386	9.4	ng	264528	6	15.533	563306	20.0
unknown17.657	17.657	12.9	ng	363478	6	15.533	563306	20.0

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-002	SDG No.:	P4860
Lab Sample ID:	P4860-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	96.6
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
		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
BF140622.D	1	11/16/24 08:51	11/25/24 23:48	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	UQ	190	340	ug/Kg
108-95-2	Phenol	85.7	U	85.7	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	86.5	U	86.5	180	ug/Kg
95-57-8	2-Chlorophenol	86.3	U	86.3	180	ug/Kg
95-48-7	2-Methylphenol	83.3	U	83.3	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	93.9	U	93.9	180	ug/Kg
98-86-2	Acetophenone	89.8	U	89.8	180	ug/Kg
65794-96-9	3+4-Methylphenols	82.5	U	82.5	340	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	41.6	U	41.6	82.7	ug/Kg
67-72-1	Hexachloroethane	85.8	U	85.8	180	ug/Kg
98-95-3	Nitrobenzene	93.8	U	93.8	180	ug/Kg
78-59-1	Isophorone	87.4	U	87.4	180	ug/Kg
88-75-5	2-Nitrophenol	97.7	U	97.7	180	ug/Kg
105-67-9	2,4-Dimethylphenol	96.3	U	96.3	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	88.7	U	88.7	180	ug/Kg
120-83-2	2,4-Dichlorophenol	78.0	U	78.0	180	ug/Kg
91-20-3	Naphthalene	85.4	U	85.4	180	ug/Kg
106-47-8	4-Chloroaniline	85.4	UQ	85.4	180	ug/Kg
87-68-3	Hexachlorobutadiene	86.1	U	86.1	180	ug/Kg
105-60-2	Caprolactam	89.7	U	89.7	340	ug/Kg
59-50-7	4-Chloro-3-methylphenol	80.1	U	80.1	180	ug/Kg
91-57-6	2-Methylnaphthalene	85.3	U	85.3	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	UQ	160	340	ug/Kg
88-06-2	2,4,6-Trichlorophenol	73.8	U	73.8	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	76.5	U	76.5	180	ug/Kg
92-52-4	1,1-Biphenyl	90.3	U	90.3	180	ug/Kg
91-58-7	2-Chloronaphthalene	86.1	U	86.1	180	ug/Kg
88-74-4	2-Nitroaniline	98.2	U	98.2	180	ug/Kg
131-11-3	Dimethylphthalate	84.4	U	84.4	180	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-002	SDG No.:	P4860
Lab Sample ID:	P4860-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	96.6
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
BF140622.D	1	11/16/24 08:51	11/25/24 23:48	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	89.4	U	89.4	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	86.0	U	86.0	180	ug/Kg
99-09-2	3-Nitroaniline	92.2	UQ	92.2	180	ug/Kg
83-32-9	Acenaphthene	83.8	U	83.8	180	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	340	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	340	ug/Kg
132-64-9	Dibenzofuran	87.2	U	87.2	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	89.1	U	89.1	180	ug/Kg
84-66-2	Diethylphthalate	82.8	U	82.8	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	88.5	U	88.5	180	ug/Kg
86-73-7	Fluorene	88.4	U	88.4	180	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	340	ug/Kg
86-30-6	n-Nitrosodiphenylamine	84.3	U	84.3	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	81.5	U	81.5	180	ug/Kg
118-74-1	Hexachlorobenzene	87.8	U	87.8	180	ug/Kg
1912-24-9	Atrazine	94.5	U	94.5	180	ug/Kg
87-86-5	Pentachlorophenol	79.9	U	79.9	340	ug/Kg
85-01-8	Phenanthrene	86.8	U	86.8	180	ug/Kg
120-12-7	Anthracene	87.2	U	87.2	180	ug/Kg
86-74-8	Carbazole	83.0	U	83.0	180	ug/Kg
84-74-2	Di-n-butylphthalate	87.1	U	87.1	180	ug/Kg
206-44-0	Fluoranthene	84.4	U	84.4	180	ug/Kg
129-00-0	Pyrene	85.8	U	85.8	180	ug/Kg
85-68-7	Butylbenzylphthalate	100	U	100	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	100	UQ	100	340	ug/Kg
56-55-3	Benzo(a)anthracene	83.4	U	83.4	180	ug/Kg
218-01-9	Chrysene	82.2	U	82.2	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	95.8	J	94.0	180	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	340	ug/Kg
205-99-2	Benzo(b)fluoranthene	83.8	U	83.8	180	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-002	SDG No.:	P4860
Lab Sample ID:	P4860-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	96.6
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
BF140622.D	1	11/16/24 08:51	11/25/24 23:48	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	85.4	U	85.4	180	ug/Kg
50-32-8	Benzo(a)pyrene	96.1	U	96.1	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	80.7	U	80.7	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	83.9	U	83.9	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	82.8	U	82.8	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	89.7	U	89.7	180	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	77.2	U	77.2	180	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	110		30 (18) - 130 (112)	74%	SPK: 150
13127-88-3	Phenol-d6	108		30 (15) - 130 (107)	72%	SPK: 150
4165-60-0	Nitrobenzene-d5	74.3		30 (18) - 130 (107)	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	77.4		30 (20) - 130 (109)	77%	SPK: 100
118-79-6	2,4,6-Tribromophenol	109		30 (10) - 130 (116)	73%	SPK: 150
1718-51-0	Terphenyl-d14	69.3		30 (10) - 130 (105)	69%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	57900	6.869
1146-65-2	Naphthalene-d8	212000	8.151
15067-26-2	Acenaphthene-d10	115000	9.904
1517-22-2	Phenanthrene-d10	211000	11.392
1719-03-5	Chrysene-d12	124000	14.045
1520-96-3	Perylene-d12	108000	15.539

TENTATIVE IDENTIFIED COMPOUNDS

000119-61-9	Benzophenone	510	J	10.6	ug/Kg
000947-19-3	Methanone, (1-hydroxycyclohexyl)ph	82.3	J	10.9	ug/Kg
000057-10-3	n-Hexadecanoic acid	180	J	11.9	ug/Kg
006566-19-4	10,18-Bisnorabieta-5,7,9(10),11,13	84.4	J	12.6	ug/Kg
007683-64-9	Supraene	100	J	14.9	ug/Kg
000630-01-3	Hexacosane	130	J	15.2	ug/Kg
000516-92-7	Cholestan-3-ol, (3.alpha.,5.beta.)	530	J	16.3	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-002	SDG No.:	P4860
Lab Sample ID:	P4860-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	96.6
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
BF140622.D	1	11/16/24 08:51	11/25/24 23:48	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000601-53-6	Cholestan-3-one, (5.beta.)-	390	J		16.4	ug/Kg
	unknown17.068	98.5	J		17.1	ug/Kg
	unknown17.657	110	J		17.7	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_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-002

Quant Time: Nov 26 02:01:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

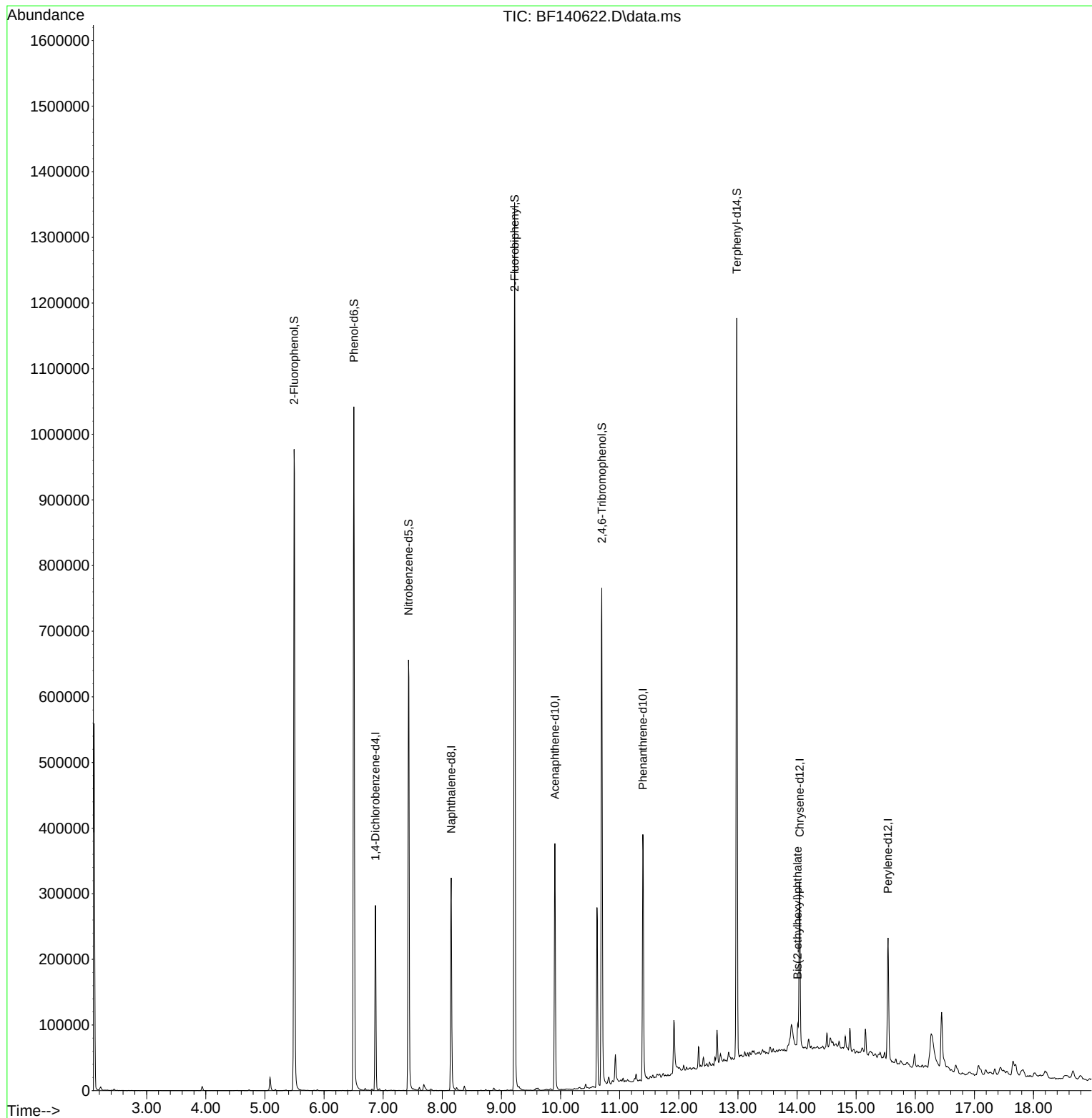
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	57850	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	212247	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	114728	20.000	ng	-0.01
64) Phenanthrene-d10	11.392	188	210520	20.000	ng	-0.01
76) Chrysene-d12	14.045	240	124009	20.000	ng	0.00
86) Perylene-d12	15.539	264	108011	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	374327	110.403	ng	0.00
7) Phenol-d6	6.504	99	483782	107.929	ng	-0.01
23) Nitrobenzene-d5	7.428	82	308203	74.275	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	133550	108.841	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	596040	77.406	ng	-0.01
79) Terphenyl-d14	12.980	244	551608	69.263	ng	-0.01
Target Compounds						
84) Bis(2-ethylhexyl)phtha...	14.010	149	14506	2.781	ng	Qvalue 98

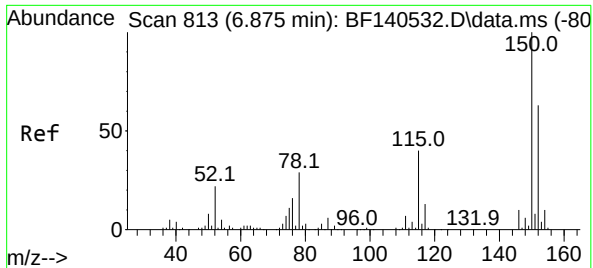
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-002

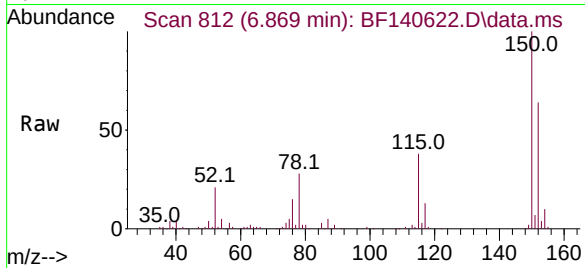
Quant Time: Nov 26 02:01:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



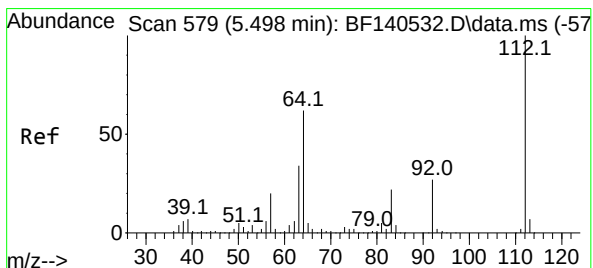
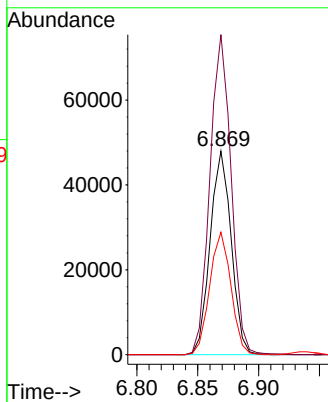
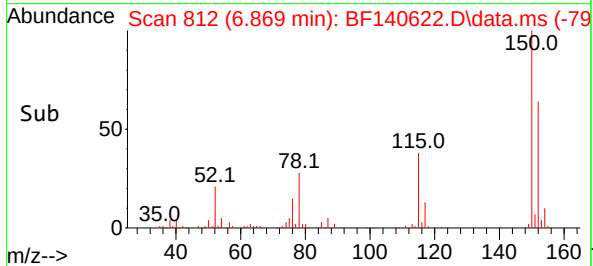


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 813
Delta R.T. -0.006 min
Lab File: BF140622.D
Acq: 25 Nov 2024 23:48

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-002

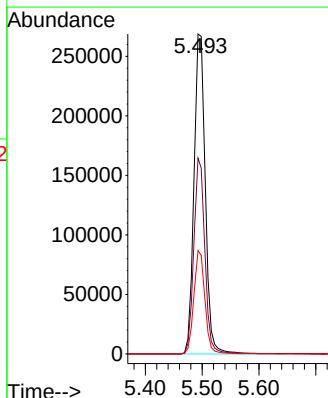
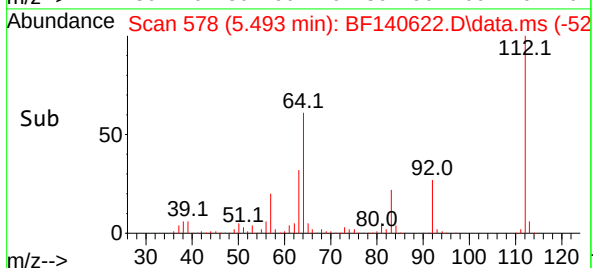
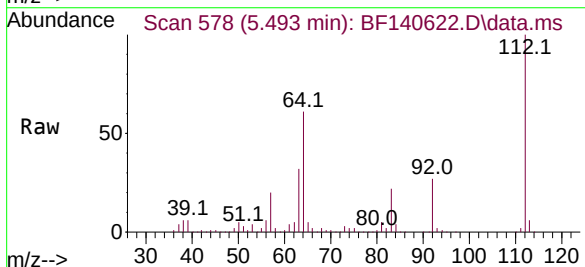


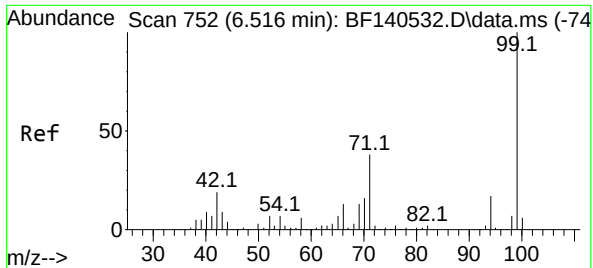
Tgt Ion:152 Resp: 57850
Ion Ratio Lower Upper
152 100
150 157.2 128.5 192.7
115 60.1 50.2 75.4



#5
2-Fluorophenol
Concen: 110.403 ng
RT: 5.493 min Scan# 578
Delta R.T. -0.006 min
Lab File: BF140622.D
Acq: 25 Nov 2024 23:48

Tgt Ion:112 Resp: 374327
Ion Ratio Lower Upper
112 100
64 61.2 49.2 73.8
63 32.3 27.0 40.4

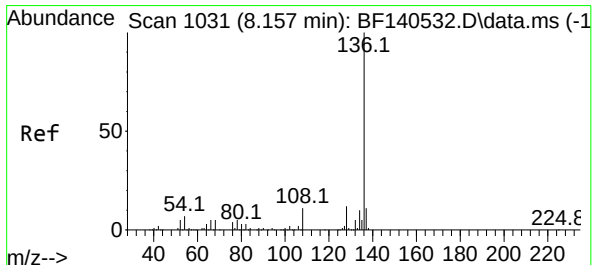
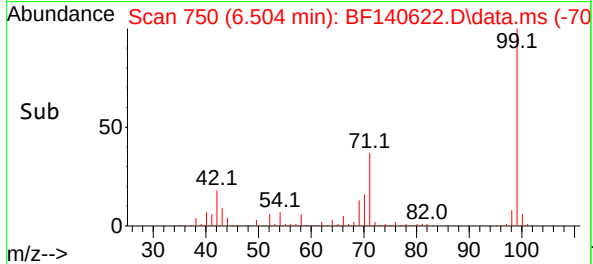
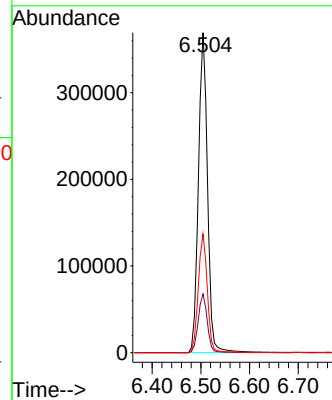
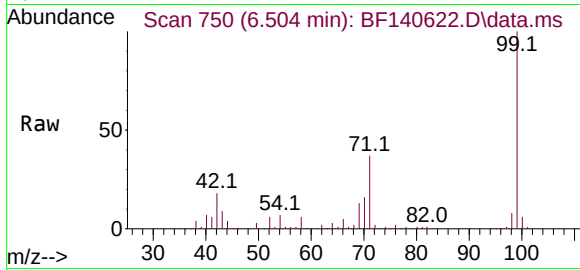




#7
Phenol-d6
Concen: 107.929 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF140622.D
Acq: 25 Nov 2024 23:48

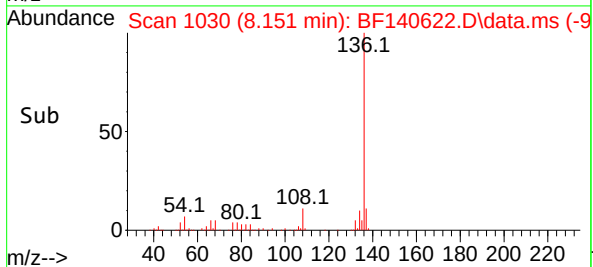
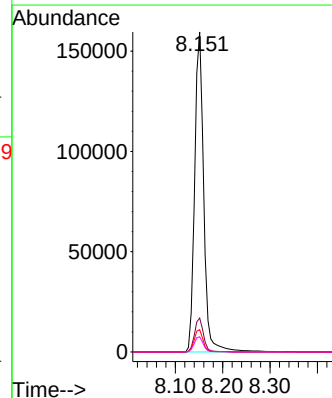
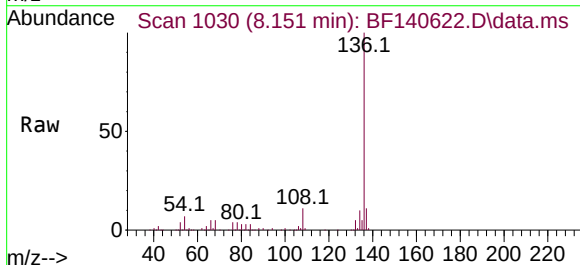
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-002

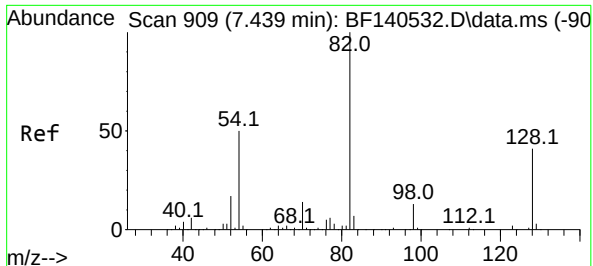
Tgt Ion: 99 Resp: 483782
Ion Ratio Lower Upper
99 100
42 18.3 15.4 23.0
71 37.1 30.6 46.0



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140622.D
Acq: 25 Nov 2024 23:48

Tgt Ion: 136 Resp: 212247
Ion Ratio Lower Upper
136 100
137 10.6 8.6 13.0
54 6.9 5.8 8.8
68 4.8 4.1 6.1





#23

Nitrobenzene-d5

Concen: 74.275 ng

RT: 7.428 min Scan# 909

Delta R.T. -0.012 min

Lab File: BF140622.D

Acq: 25 Nov 2024 23:48

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-002

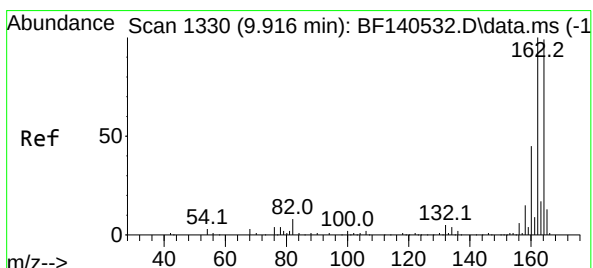
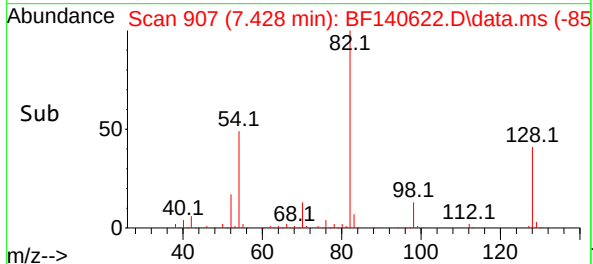
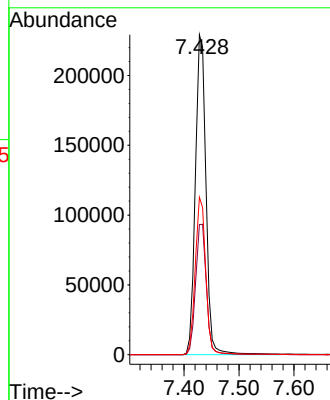
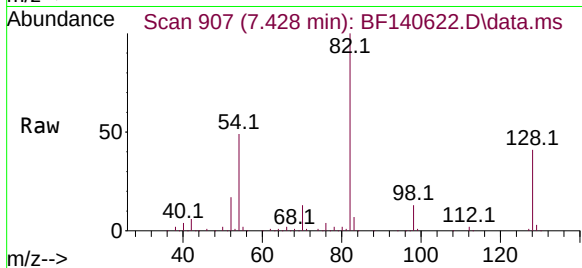
Tgt Ion: 82 Resp: 308203

Ion Ratio Lower Upper

82 100

128 40.6 33.0 49.4

54 49.2 39.5 59.3



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.904 min Scan# 1328

Delta R.T. -0.012 min

Lab File: BF140622.D

Acq: 25 Nov 2024 23:48

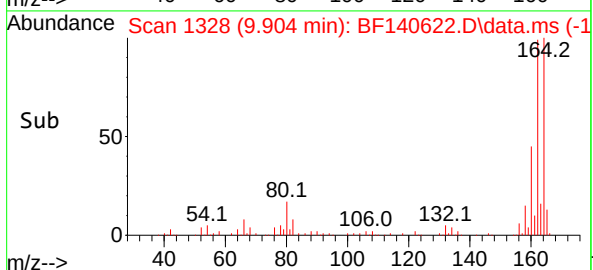
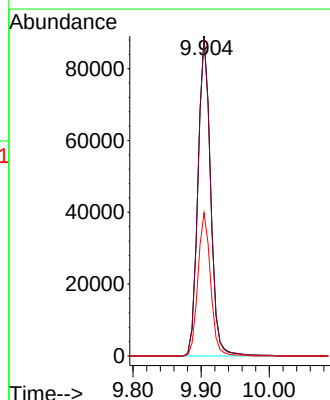
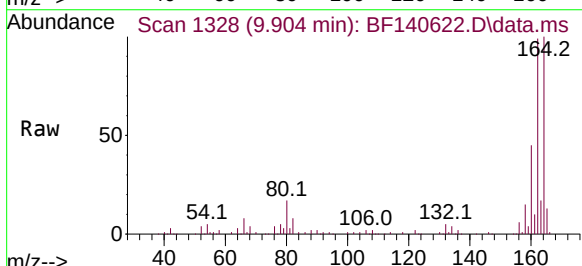
Tgt Ion: 164 Resp: 114728

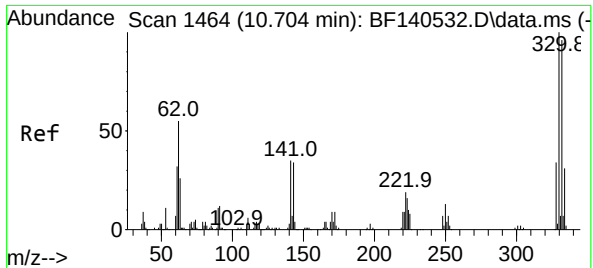
Ion Ratio Lower Upper

164 100

162 99.3 80.6 120.8

160 44.7 36.2 54.4





#42

2,4,6-Tribromophenol

Concen: 108.841 ng

RT: 10.698 min Scan# 1463

Delta R.T. -0.006 min

Lab File: BF140622.D

Acq: 25 Nov 2024 23:48

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-002

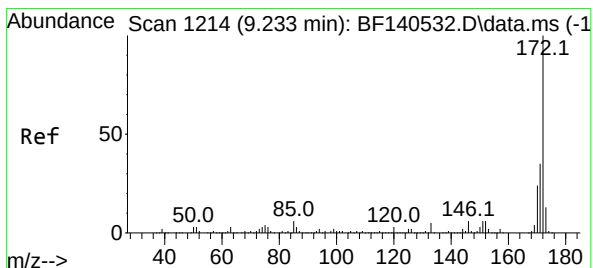
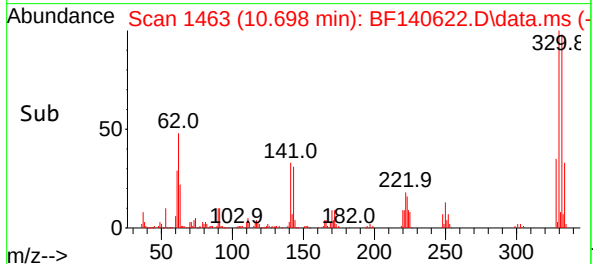
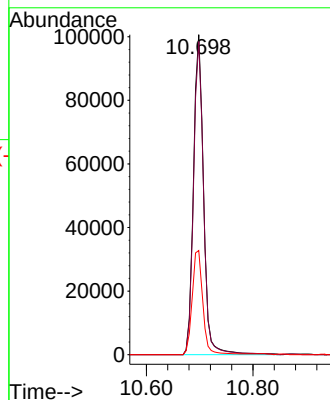
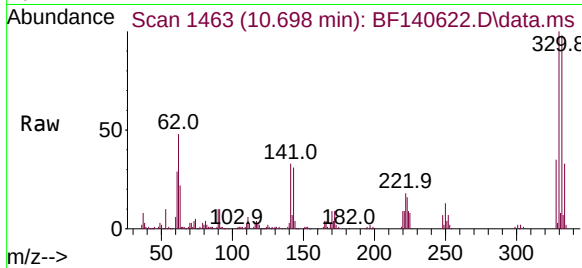
Tgt Ion:330 Resp: 133550

Ion Ratio Lower Upper

330 100

332 97.2 76.9 115.3

141 34.2 26.7 40.1



#45

2-Fluorobiphenyl

Concen: 77.406 ng

RT: 9.222 min Scan# 1212

Delta R.T. -0.012 min

Lab File: BF140622.D

Acq: 25 Nov 2024 23:48

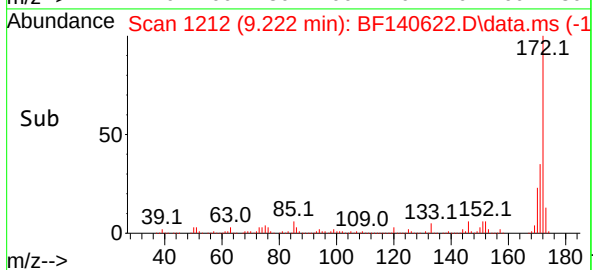
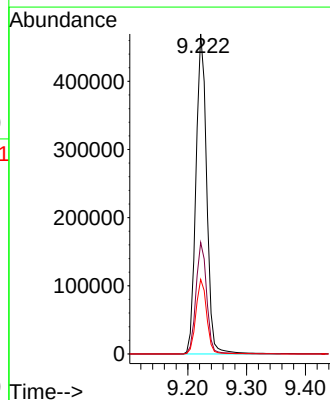
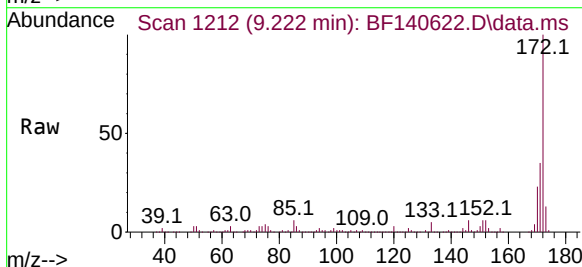
Tgt Ion:172 Resp: 596040

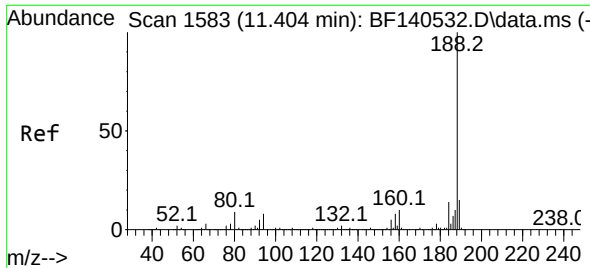
Ion Ratio Lower Upper

172 100

171 34.8 28.4 42.6

170 23.3 19.0 28.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.392 min Scan# 1581

Delta R.T. -0.012 min

Lab File: BF140622.D

Acq: 25 Nov 2024 23:48

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-002

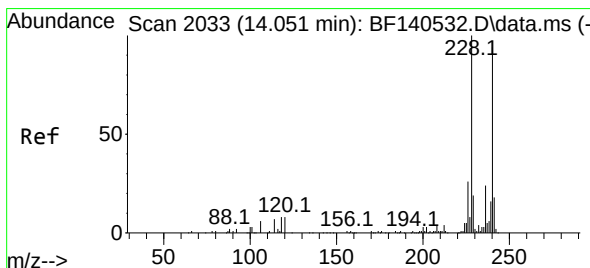
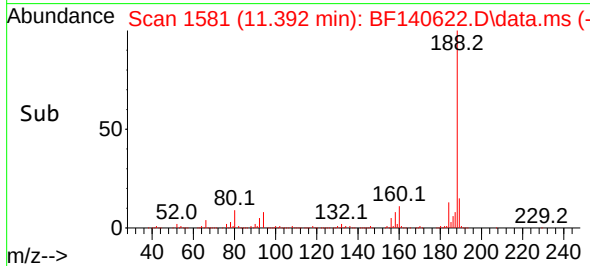
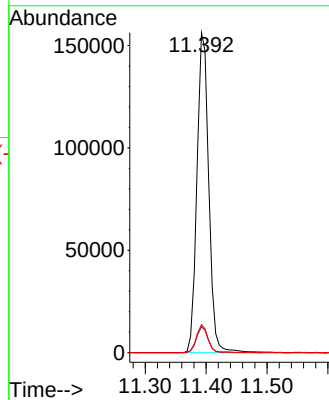
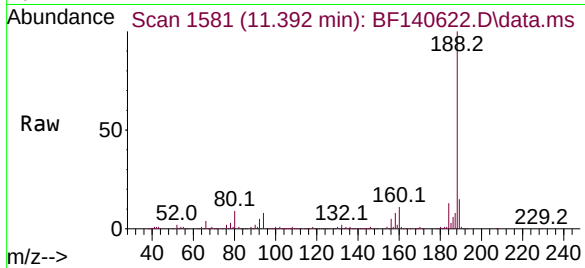
Tgt Ion:188 Resp: 210520

Ion Ratio Lower Upper

188 100

94 8.1 6.4 9.6

80 8.8 6.9 10.3



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.045 min Scan# 2032

Delta R.T. -0.006 min

Lab File: BF140622.D

Acq: 25 Nov 2024 23:48

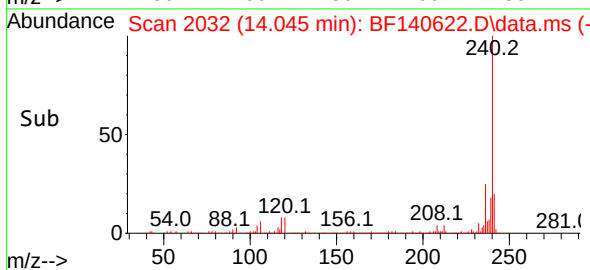
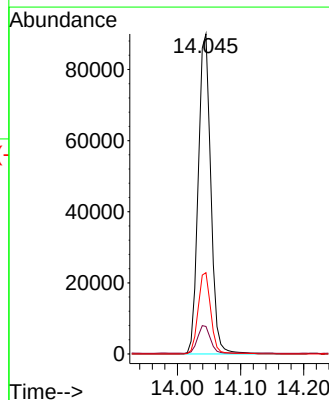
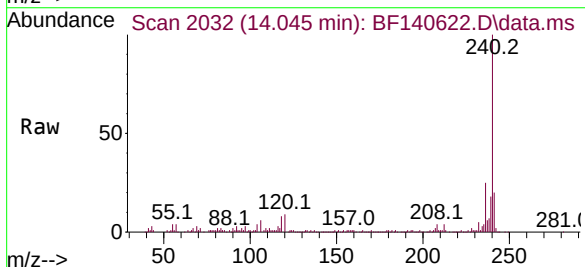
Tgt Ion:240 Resp: 124009

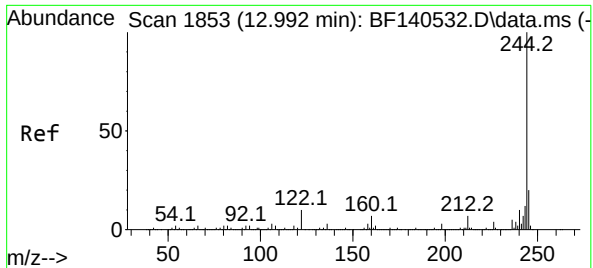
Ion Ratio Lower Upper

240 100

120 8.6 7.3 10.9

236 25.4 20.6 31.0





#79

Terphenyl-d14

Concen: 69.263 ng

RT: 12.980 min Scan# 1851

Delta R.T. -0.012 min

Lab File: BF140622.D

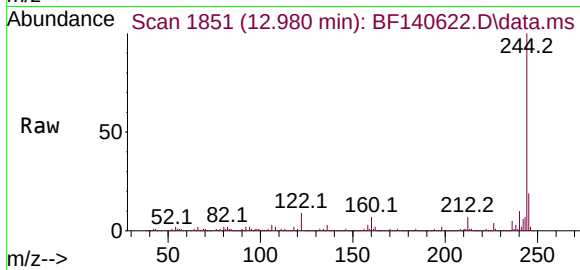
Acq: 25 Nov 2024 23:48

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-002



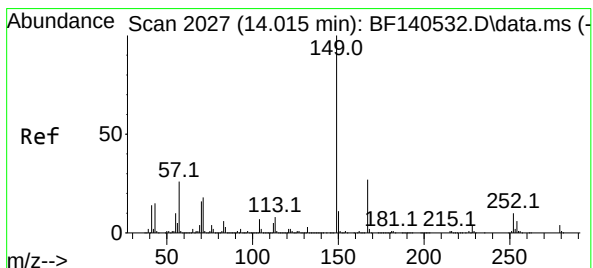
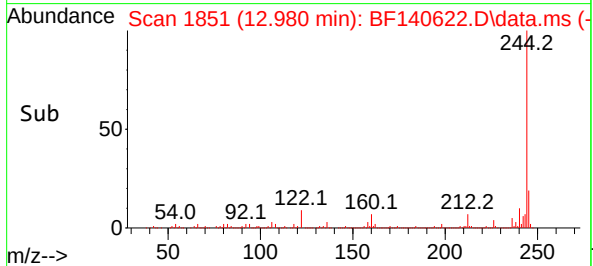
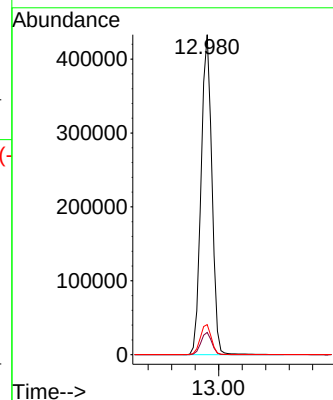
Tgt Ion:244 Resp: 551608

Ion Ratio Lower Upper

244 100

212 7.0 5.8 8.8

122 9.4 8.0 12.0



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.781 ng

RT: 14.010 min Scan# 2026

Delta R.T. -0.006 min

Lab File: BF140622.D

Acq: 25 Nov 2024 23:48

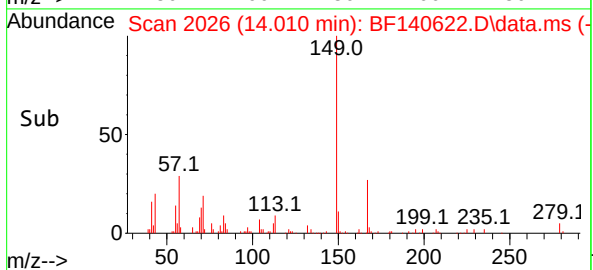
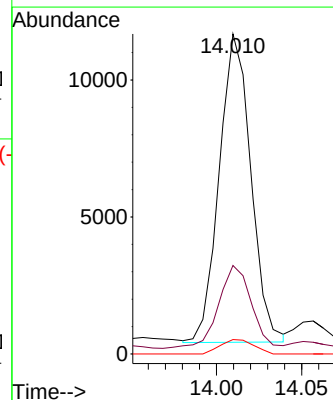
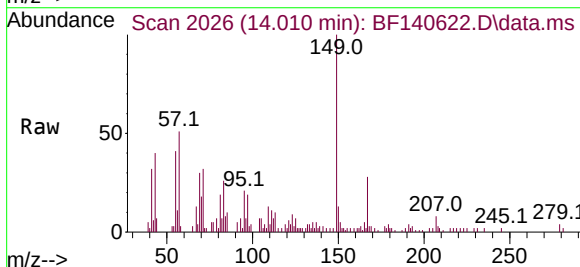
Tgt Ion:149 Resp: 14506

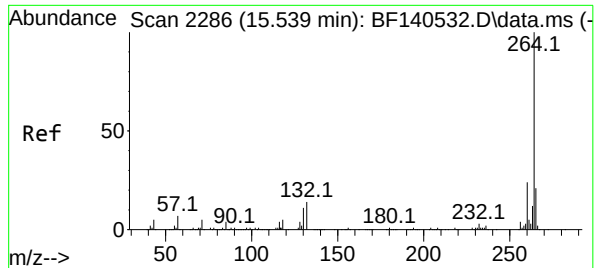
Ion Ratio Lower Upper

149 100

167 27.6 21.2 31.8

279 4.5 3.2 4.8





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF140622.D

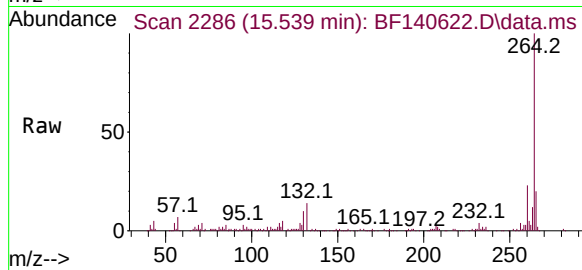
Acq: 25 Nov 2024 23:48

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-002



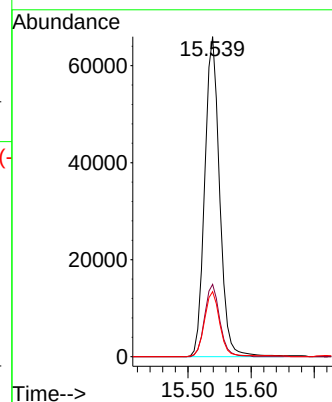
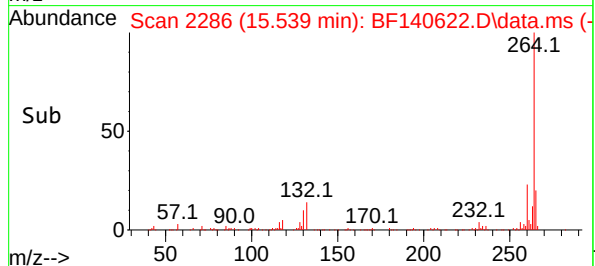
Tgt Ion:264 Resp: 108011

Ion Ratio Lower Upper

264 100

260 22.6 19.0 28.6

265 20.3 16.6 25.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-002

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-BF112124.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140622.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.087	504	509	519	rVB	19352	29324	1.73%	0.251%
2	5.493	573	578	599	rVB	976473	1329504	78.49%	11.371%
3	6.504	744	750	776	rBV	1041773	1375091	81.18%	11.761%
4	6.869	807	812	819	rBV	281826	342388	20.21%	2.928%
5	7.428	902	907	919	rBV	655973	872028	51.48%	7.458%
6	7.687	947	951	962	rVB	8736	18085	1.07%	0.155%
7	8.151	1025	1030	1042	rBV	323550	421907	24.91%	3.608%
8	9.222	1207	1212	1223	rBV	1352350	1693879	100.00%	14.487%
9	9.904	1323	1328	1341	rVB	375068	480581	28.37%	4.110%
10	10.616	1444	1449	1457	rBV	274274	356165	21.03%	3.046%
11	10.698	1457	1463	1477	rVV	758705	1030102	60.81%	8.810%
12	10.816	1478	1483	1489	rVB4	10598	20021	1.18%	0.171%
13	10.928	1497	1502	1511	rBV	41160	62004	3.66%	0.530%
14	11.392	1576	1581	1591	rBV	375832	519828	30.69%	4.446%
15	11.916	1666	1670	1678	rBV	80778	139203	8.22%	1.191%
16	12.333	1738	1741	1745	rBV	31349	38943	2.30%	0.333%
17	12.416	1752	1755	1759	rVB2	13185	17085	1.01%	0.146%
18	12.645	1790	1794	1799	rVB	49341	63743	3.76%	0.545%
19	12.980	1845	1851	1859	rBV	1128292	1456378	85.98%	12.456%
20	14.010	2023	2026	2028	rBV	32025	42763	2.52%	0.366%
21	14.045	2028	2032	2042	rVB	253255	361216	21.32%	3.089%
22	14.504	2107	2110	2114	rVB	20732	26063	1.54%	0.223%
23	14.892	2173	2176	2183	rVB	35955	49116	2.90%	0.420%
24	15.157	2217	2221	2229	rVB	39855	62760	3.71%	0.537%
25	15.539	2280	2286	2297	rVB	189494	325156	19.20%	2.781%
26	15.986	2358	2362	2368	rVB	18049	28718	1.70%	0.246%
27	16.268	2401	2410	2433	rBV9	49954	249760	14.74%	2.136%
28	16.445	2434	2440	2453	rVB4	83243	184514	10.89%	1.578%
29	17.068	2541	2546	2560	rVB4	13673	46438	2.74%	0.397%
30	17.657	2640	2646	2650	rBV7	19866	49608	2.93%	0.424%

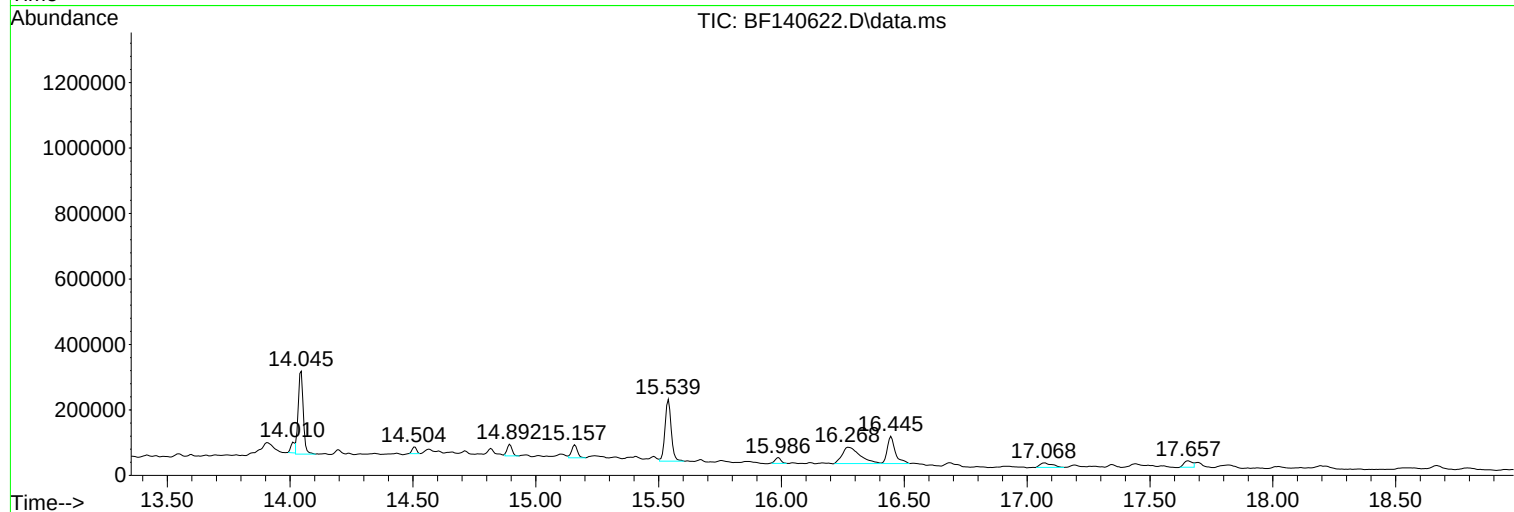
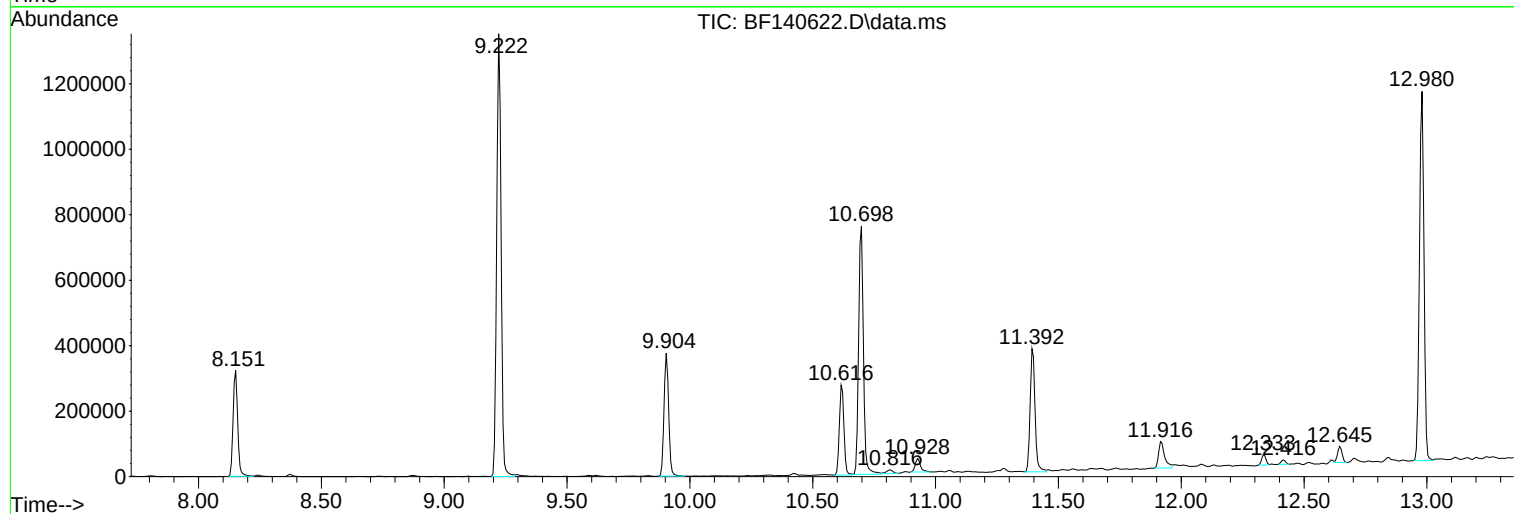
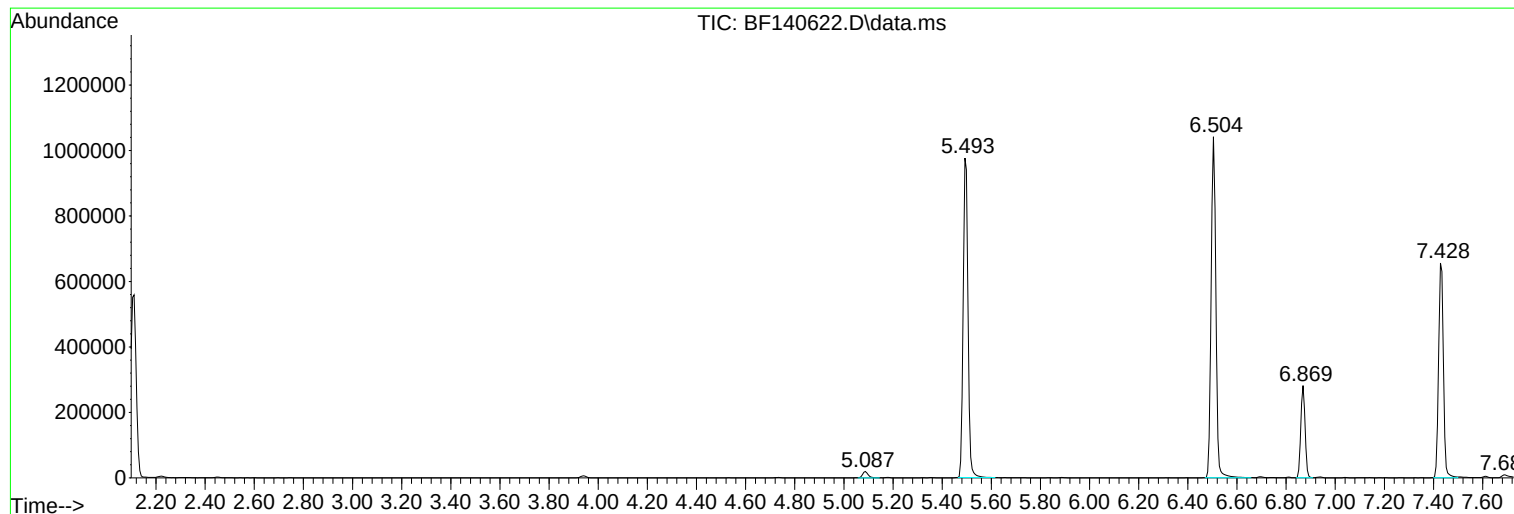
Sum of corrected areas: 11692371

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-002

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-002

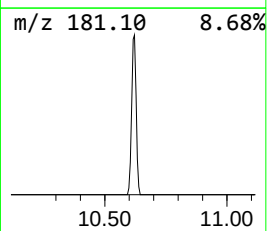
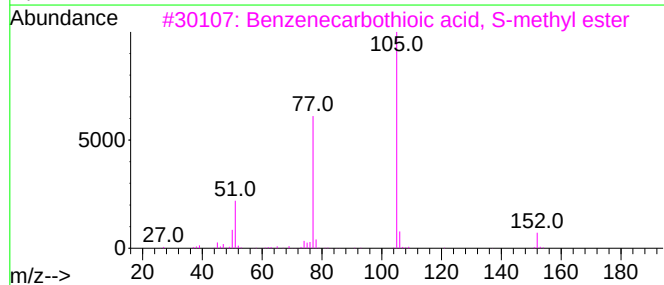
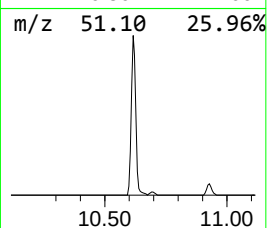
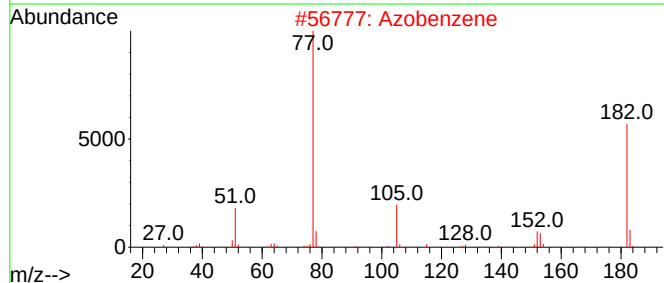
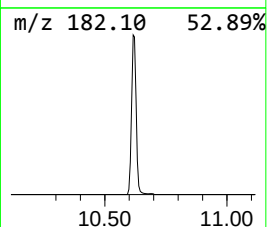
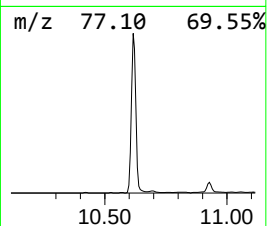
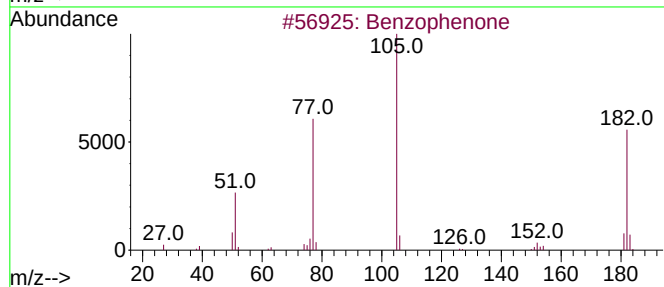
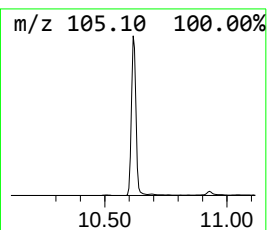
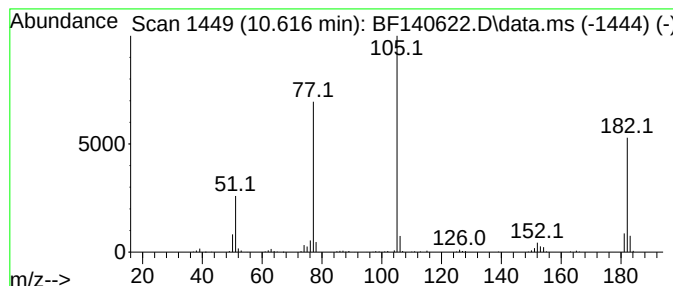
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.616	14.82 ng	356165	Acenaphthene-d10	9.904

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Azobenzene	182	C12H10N2	000103-33-3	72
3			Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
4			Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
5			N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	49



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-002

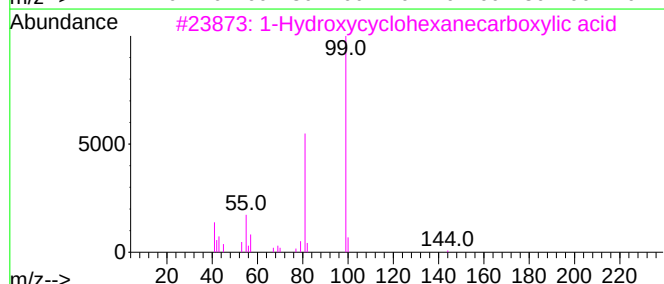
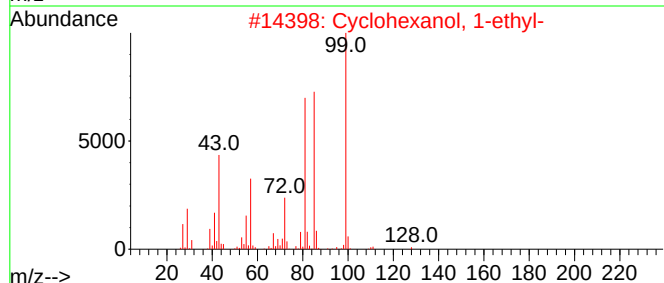
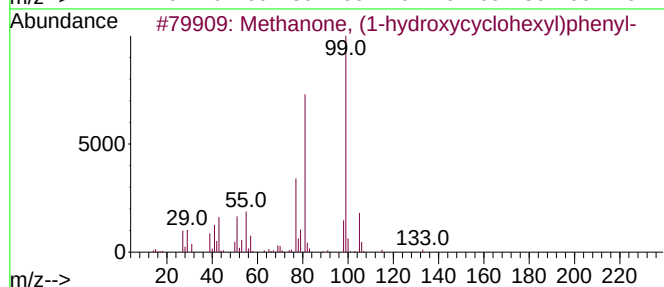
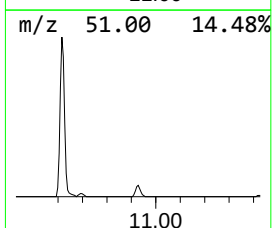
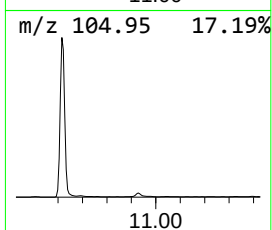
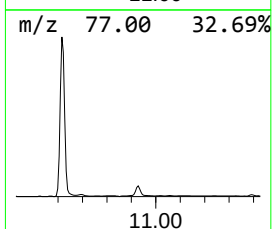
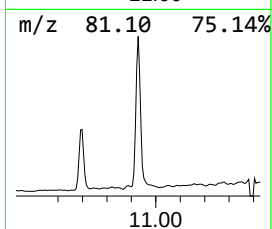
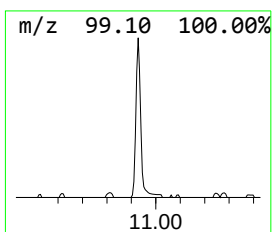
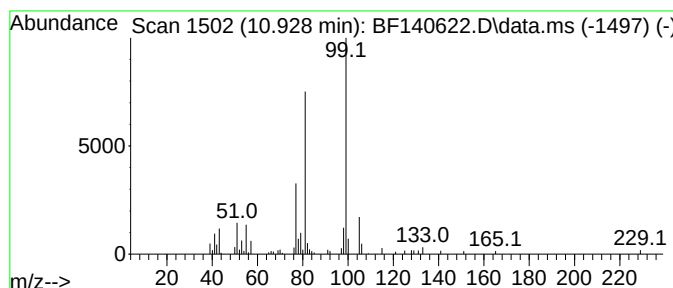
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Methanone, (1-hydroxycyclohexyl) Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.928	2.39 ng	62004	Phenanthrene-d10	11.392

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Methanone, (1-hydroxycyclohexyl)...	204	C13H16O2	000947-19-3	91
2			Cyclohexanol, 1-ethyl-	128	C8H16O	001940-18-7	59
3			1-Hydroxycyclohexanecarboxylic acid	144	C7H12O3	001123-28-0	59
4			3-Methylcyclohexyl methylphospho...	194	C8H16FO2P	113548-86-0	45
5			Cyclohexanol, 1-(aminomethyl)-	129	C7H15NO	004000-72-0	38



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-002

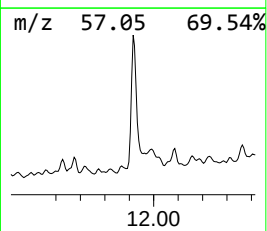
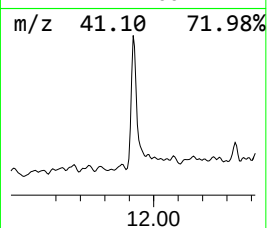
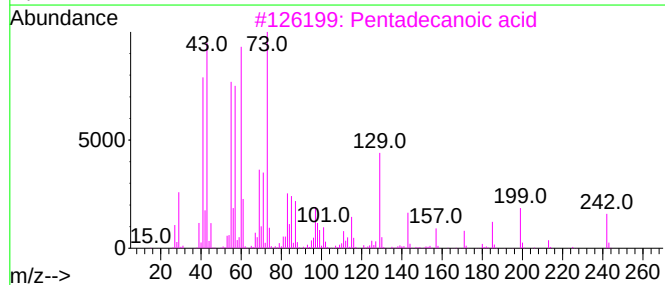
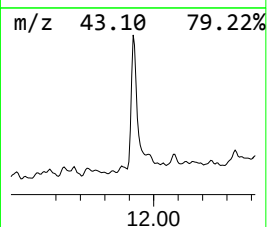
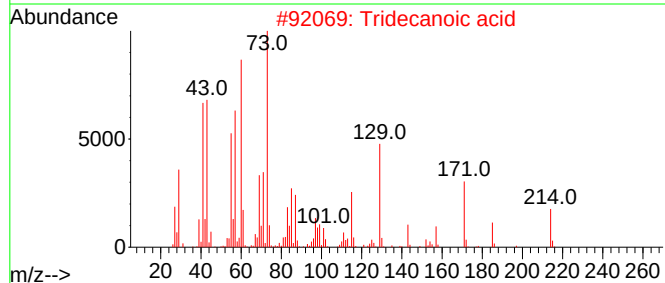
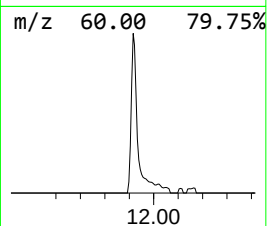
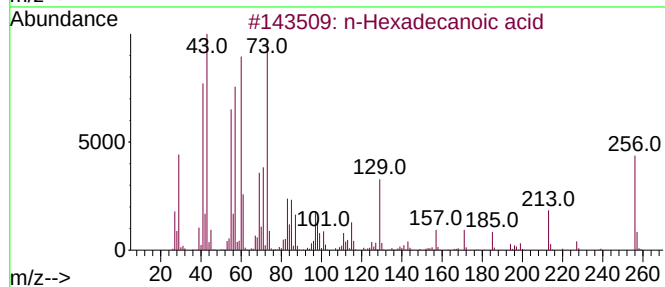
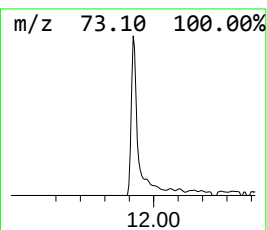
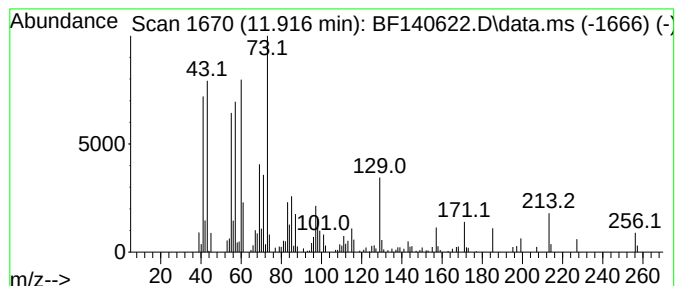
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.916	5.36 ng	139203	Phenanthrene-d10	11.392

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2			Tridecanoic acid	214	C13H26O2	000638-53-9	90
3			Pentadecanoic acid	242	C15H30O2	001002-84-2	87
4			Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5			Nonanoic acid	158	C9H18O2	000112-05-0	38



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-002

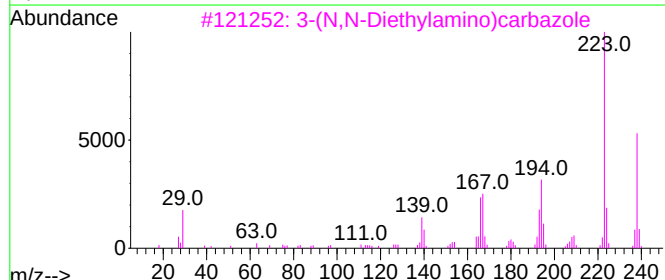
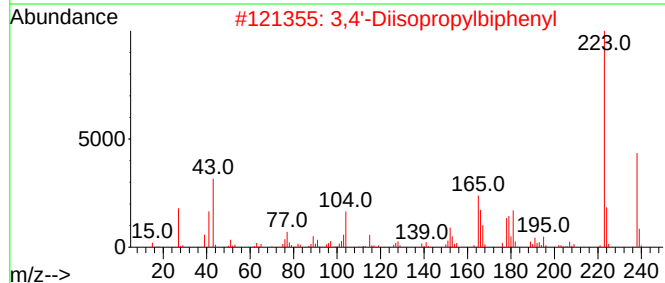
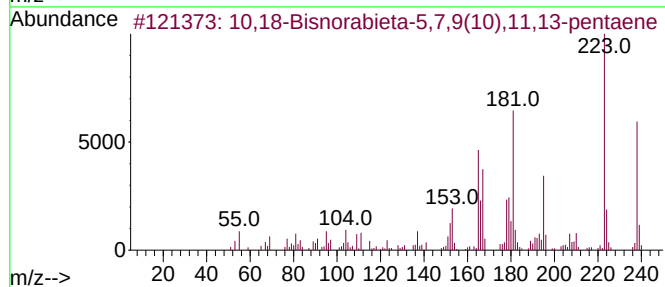
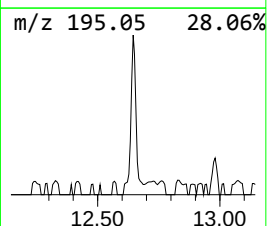
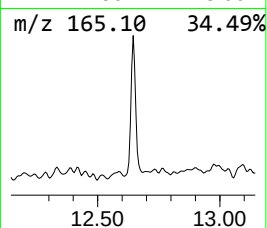
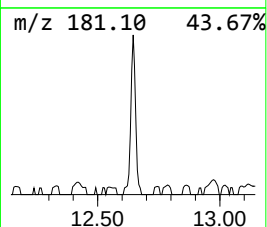
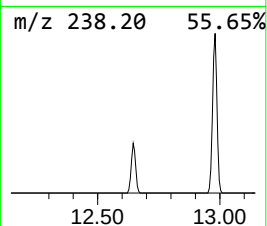
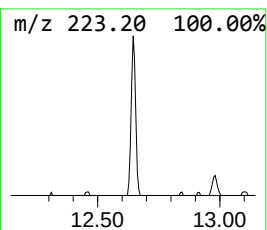
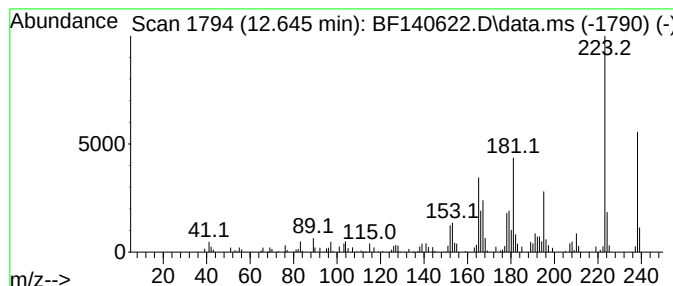
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 10,18-Bisnorabieta-5,7,9(10... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.645	2.45 ng	63743	Phenanthrene-d10	11.392

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	10,18-Bisnorabieta-5,7,9(10),11,...	238	C18H22	006566-19-4	99		
2	3,4'-Diisopropylbiphenyl	238	C18H22	061434-46-6	90		
3	3-(N,N-Diethylamino)carbazole	238	C16H18N2	054994-31-9	64		
4	1,3-Diethyl-5-(1-phenylethyl)ben...	238	C18H22	1000482-32-6	58		
5	4,4'-Diisopropylbiphenyl	238	C18H22	018970-30-4	46		



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
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Misc :
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ClientSampleId :
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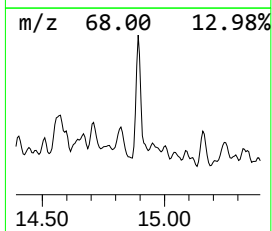
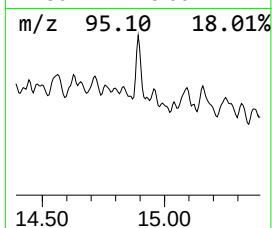
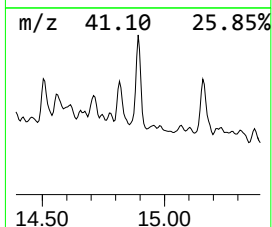
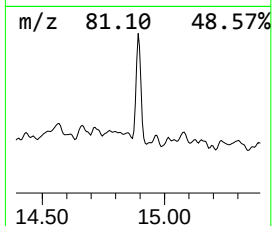
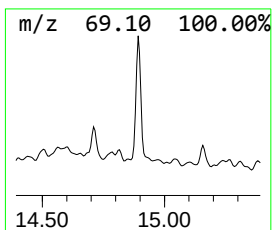
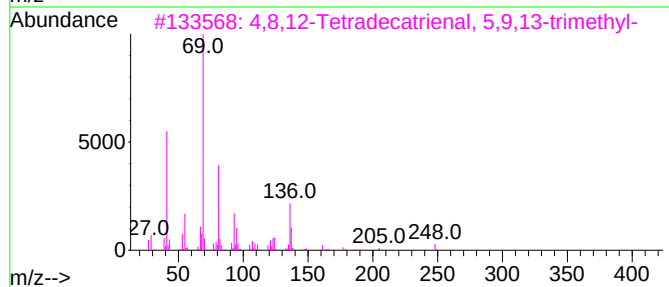
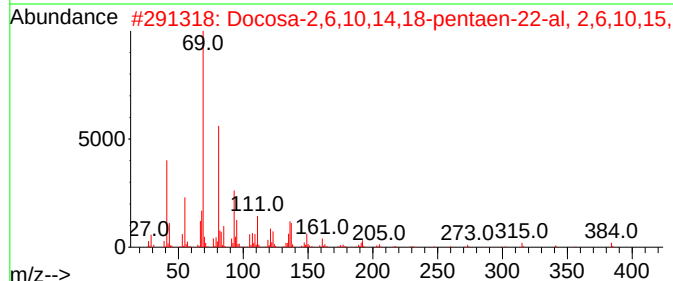
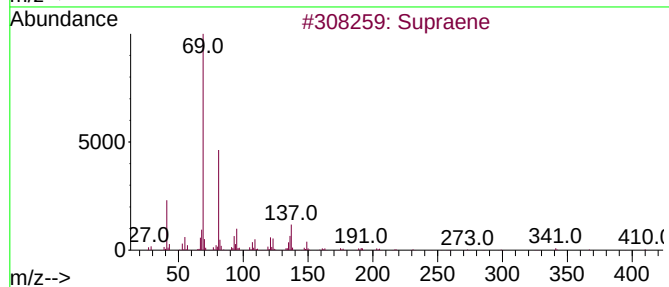
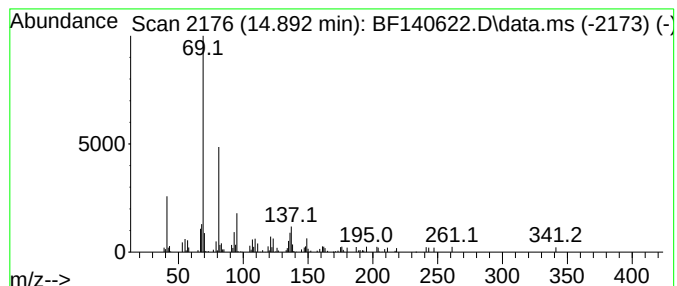
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Supraene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.892	3.02 ng	49116	Perylene-d12	15.539

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Supraene	410	C30H50	007683-64-9	87
2			Docosa-2,6,10,14,18-pentaen-22-a...	384	C27H44O	1000163-04-7	78
3			4,8,12-Tetradecatrienal, 5,9,13-...	248	C17H28O	066408-55-7	72
4			Furan, 3-(4,8-dimethyl-3,7-nonad...	218	C15H22O	023262-34-2	64
5			1,6-Octadiene, 3,5-dimethyl-, tr...	138	C10H18	074630-87-8	59



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
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Misc :
ALS Vial : 20 Sample Multiplier: 1

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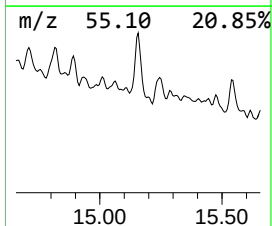
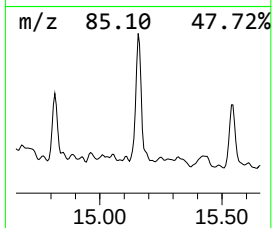
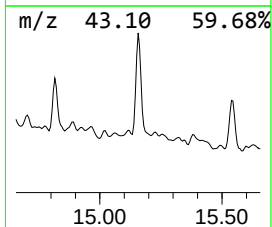
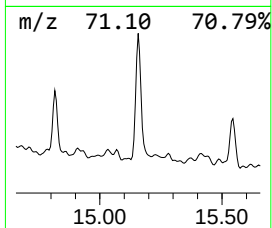
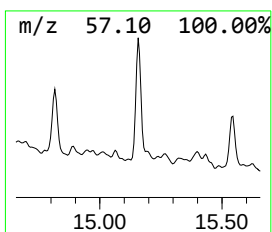
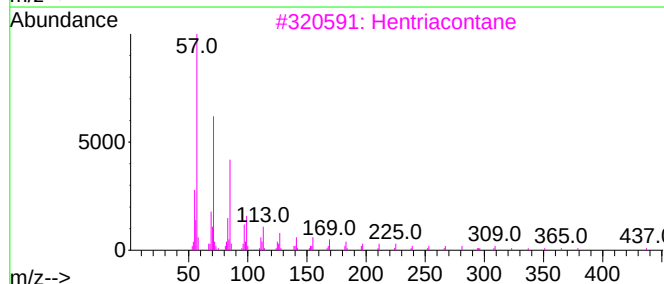
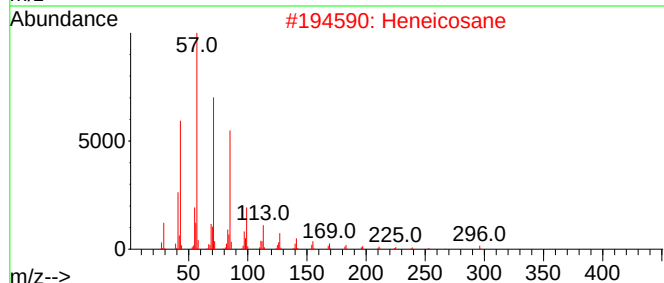
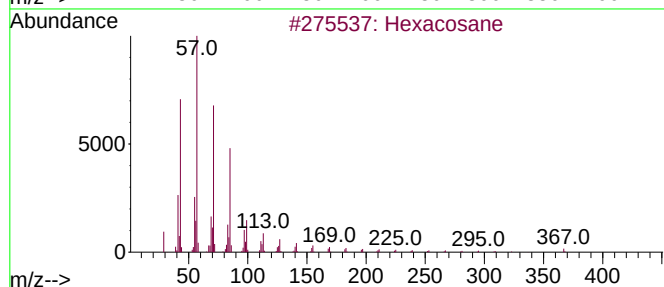
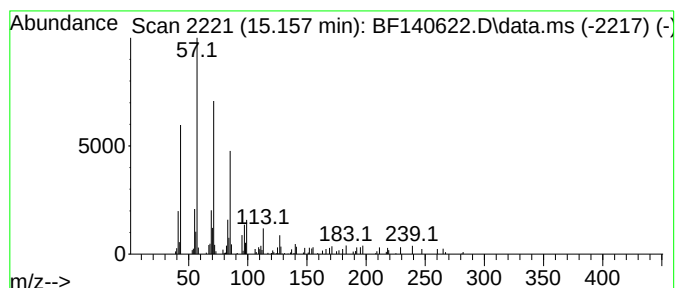
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Hexacosane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.157	3.86 ng	62760	Perylene-d12	15.539

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexacosane	366	C26H54	000630-01-3	87
2	Heneicosane	296	C21H44	000629-94-7	87
3	Hentriacontane	437	C31H64	000630-04-6	87
4	Eicosane	282	C20H42	000112-95-8	86
5	Nonadecane, 2-methyl-	282	C20H42	001560-86-7	86



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

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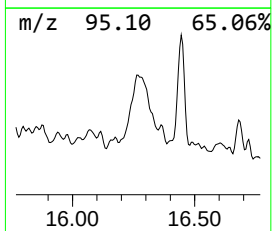
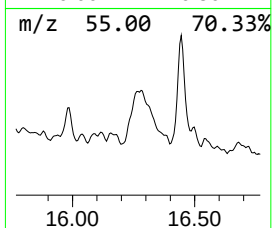
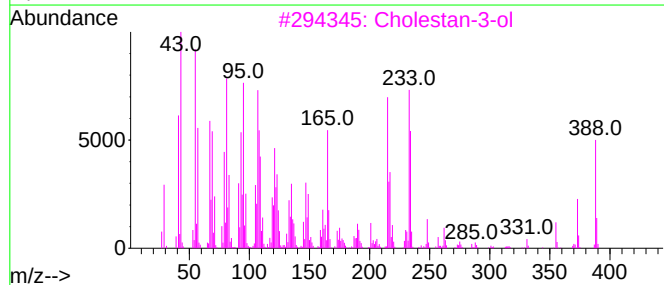
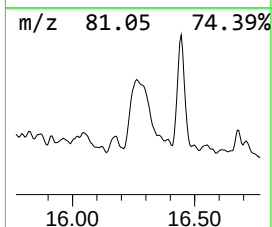
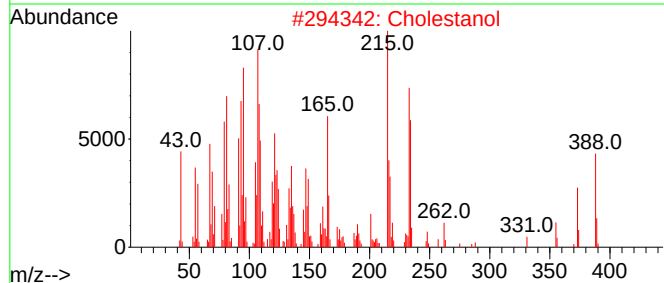
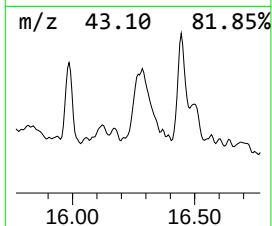
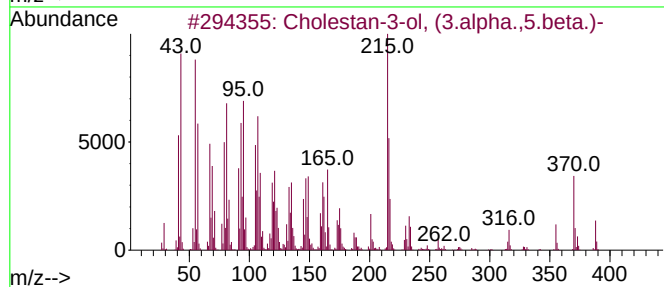
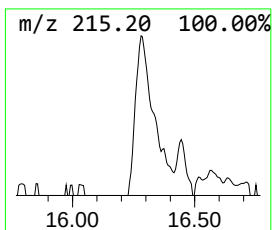
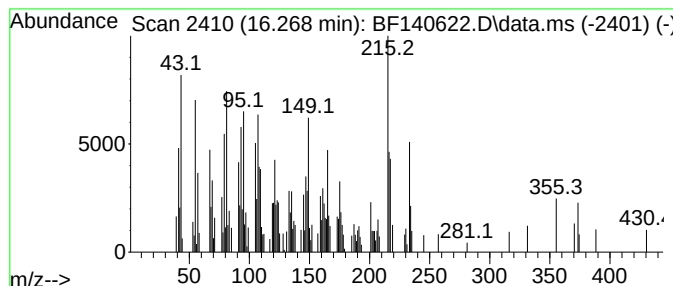
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Cholestan-3-ol, (3.alpha.,5... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.268	15.36 ng	249760	Perylene-d12	15.539

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cholestan-3-ol, (3.alpha.,5.beta.)-	388	C27H48O	000516-92-7	90
2			Cholestanol	388	C27H48O	000080-97-7	70
3			Cholestan-3-ol	388	C27H48O	027409-41-2	50
4			5.beta.-Cholestan-3.alpha.-ol, 2...	458	C31H54O2	1000514-95-7	46
5			5.beta.-Cholestan-3.alpha.-ol, a...	430	C29H50O2	033157-47-0	46



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
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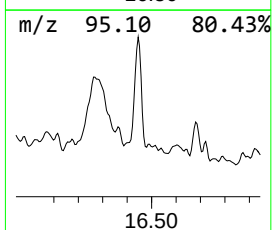
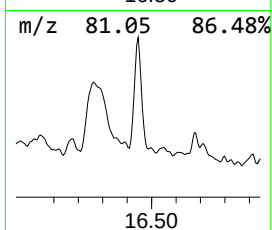
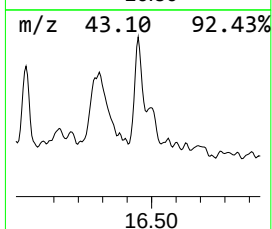
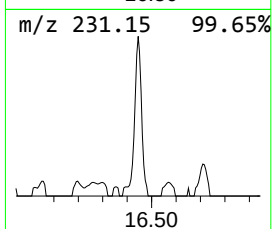
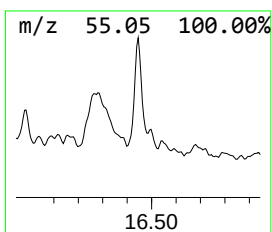
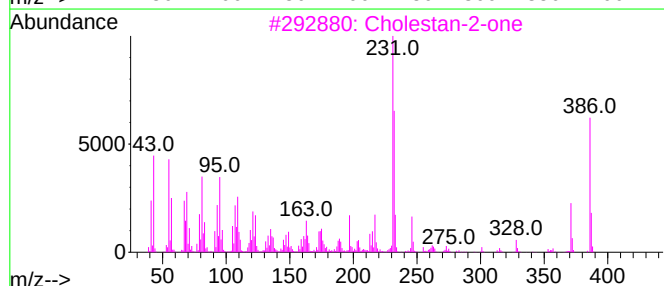
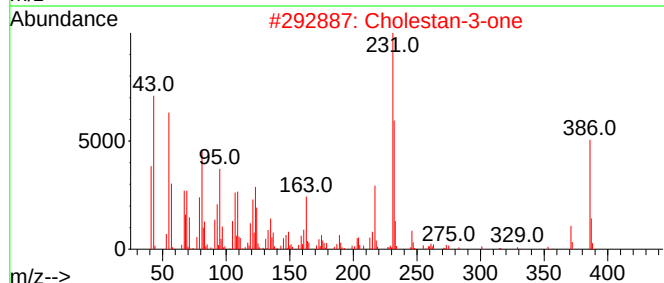
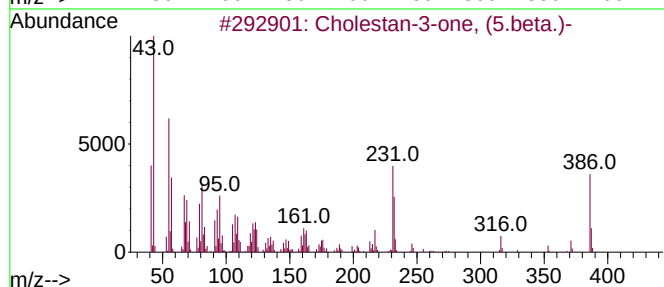
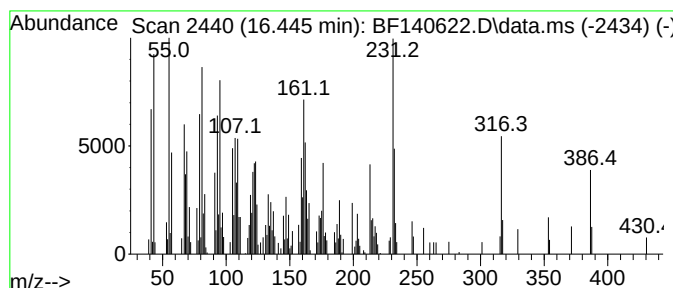
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Cholestan-3-one, (5.beta.)- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.	
16.445	11.35 ng	184514	Perylene-d12	15.539	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cholestan-3-one, (5.beta.)-	386	C27H46O	000601-53-6	90
2	Cholestan-3-one	386	C27H46O	015600-08-5	90
3	Cholestan-2-one	386	C27H46O	1010210-43-4	83
4	Cholestan-3-one, (5.alpha.)-	386	C27H46O	000566-88-1	64
5	Cholest-4-en-3-ol	386	C27H46O	014597-42-3	43



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
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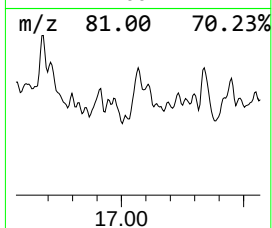
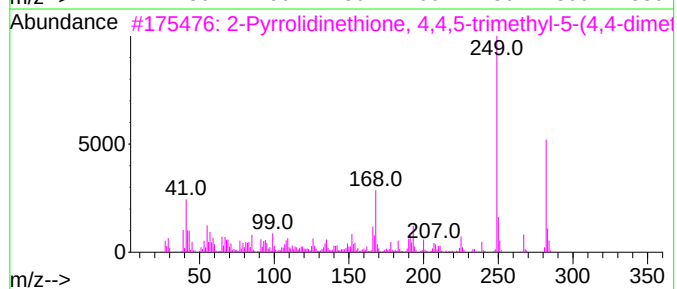
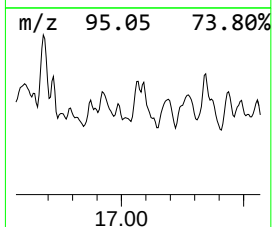
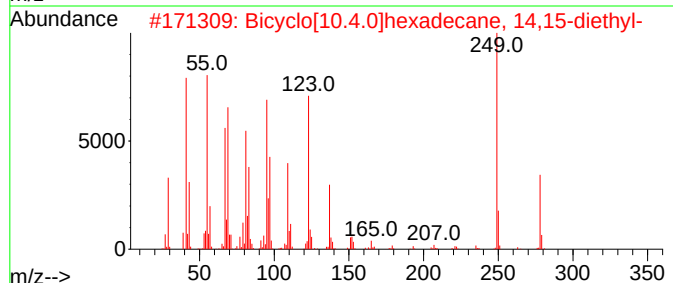
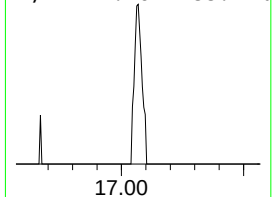
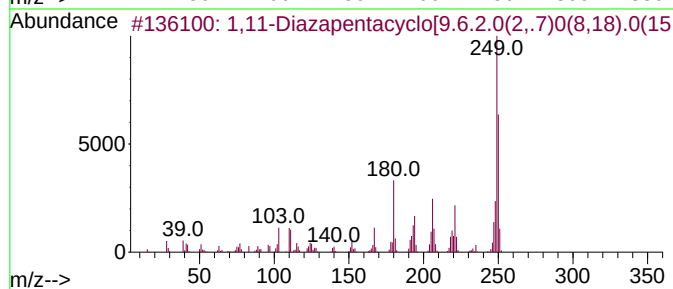
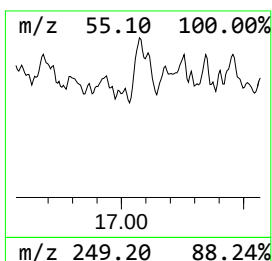
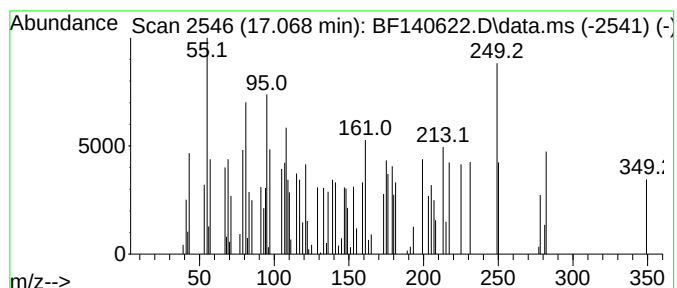
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 unknown17.068 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.068	2.86 ng	46438	Perylene-d12	15.539

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,11-Diazapentacyclo[9.6.2.0(2,...	250	C17H18N2	1000436-58-8	11		
2	Bicyclo[10.4.0]hexadecane, 14,15...	278	C20H38	1000155-81-5	10		
3	2-Pyrrolidinethione, 4,4,5-trime...	282	C14H22N2S2	1000186-15-6	10		
4	[3-(Difluoromethyl)-5-methyl-4-n...	249	C8H9F2N3O4	1000512-13-1	9		
5	1,2,5-Thiadiazolo[3,4-c]coumarin...	249	C9H3N3O4S	119458-69-4	9		



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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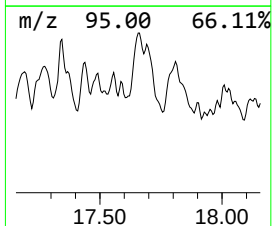
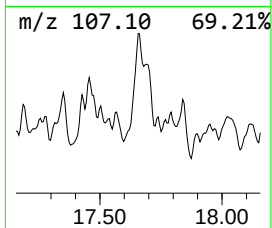
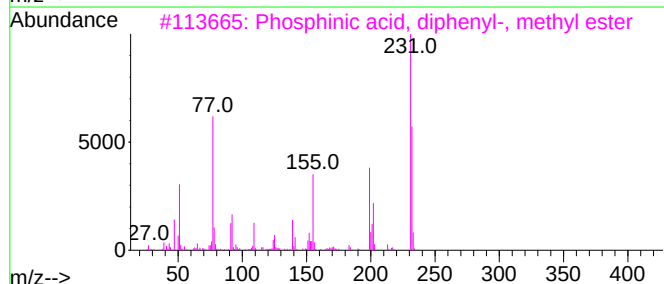
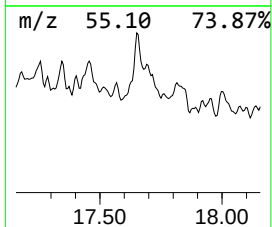
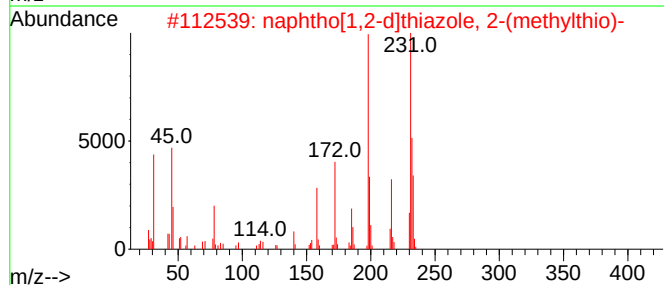
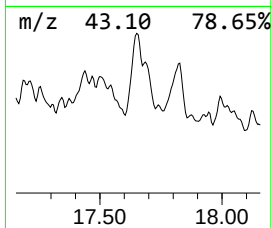
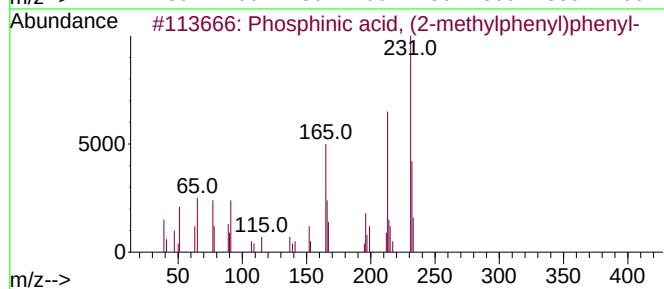
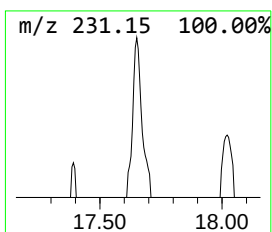
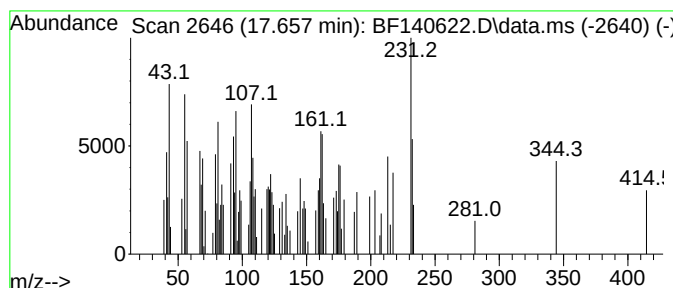
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 unknown17.657 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.657	3.05 ng	49608	Perylene-d12	15.539

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Phosphinic acid, (2-methylphenyl)...	232	C13H13O2P	018593-18-5	35
2		naphtho[1,2-d]thiazole, 2-(methy...	231	C12H9NS2	1000401-03-0	25
3		Phosphinic acid, diphenyl-, meth...	232	C13H13O2P	001706-90-7	18
4		Isobutyl 1-pentyl-1H-indazole-3-...	288	C17H24N2O2	1000457-73-6	12
5		2-Propenoic acid, 2-cyano-3-(4-m...	231	C13H13NO3	002286-29-5	11



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140622.D
Acq On : 25 Nov 2024 23:48
Operator : RC/JU
Sample : P4860-03
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-002

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Benzophenone	10.616	14.8	ng	356165	3	9.904	480581	20.0
Methanone, (1-h...	10.928	2.4	ng	62004	4	11.392	519828	20.0
n-Hexadecanoic ...	11.916	5.4	ng	139203	4	11.392	519828	20.0
10,18-Bisnorabi...	12.645	2.5	ng	63743	4	11.392	519828	20.0
Supraene	14.892	3.0	ng	49116	6	15.539	325156	20.0
Hexacosane	15.157	3.9	ng	62760	6	15.539	325156	20.0
Cholestan-3-ol,...	16.268	15.4	ng	249760	6	15.539	325156	20.0
Cholestan-3-one...	16.445	11.4	ng	184514	6	15.539	325156	20.0
unknown17.068	17.068	2.9	ng	46438	6	15.539	325156	20.0
unknown17.657	17.657	3.0	ng	49608	6	15.539	325156	20.0

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-003	SDG No.:	P4860
Lab Sample ID:	P4860-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	97.8
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
		Final Vol:	1000
		Test:	SVOC-TCL BNA -20
		GPC Cleanup :	N
		PH :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140620.D	1	11/16/24 08:51	11/25/24 22:55	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	UQ	190	340	ug/Kg
108-95-2	Phenol	84.7	U	84.7	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	85.5	U	85.5	170	ug/Kg
95-57-8	2-Chlorophenol	85.3	U	85.3	170	ug/Kg
95-48-7	2-Methylphenol	82.3	U	82.3	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	92.9	U	92.9	170	ug/Kg
98-86-2	Acetophenone	88.8	U	88.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	81.5	U	81.5	340	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	41.2	U	41.2	81.7	ug/Kg
67-72-1	Hexachloroethane	84.8	U	84.8	170	ug/Kg
98-95-3	Nitrobenzene	92.7	U	92.7	170	ug/Kg
78-59-1	Isophorone	86.4	U	86.4	170	ug/Kg
88-75-5	2-Nitrophenol	96.5	U	96.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	95.2	U	95.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	87.6	U	87.6	170	ug/Kg
120-83-2	2,4-Dichlorophenol	77.1	U	77.1	170	ug/Kg
91-20-3	Naphthalene	84.4	U	84.4	170	ug/Kg
106-47-8	4-Chloroaniline	84.4	UQ	84.4	170	ug/Kg
87-68-3	Hexachlorobutadiene	85.1	U	85.1	170	ug/Kg
105-60-2	Caprolactam	88.7	U	88.7	340	ug/Kg
59-50-7	4-Chloro-3-methylphenol	79.2	U	79.2	170	ug/Kg
91-57-6	2-Methylnaphthalene	84.3	U	84.3	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	UQ	160	340	ug/Kg
88-06-2	2,4,6-Trichlorophenol	72.9	U	72.9	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	75.6	U	75.6	170	ug/Kg
92-52-4	1,1-Biphenyl	89.3	U	89.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	85.1	U	85.1	170	ug/Kg
88-74-4	2-Nitroaniline	97.0	U	97.0	170	ug/Kg
131-11-3	Dimethylphthalate	83.5	U	83.5	170	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-003	SDG No.:	P4860
Lab Sample ID:	P4860-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	97.8
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
BF140620.D	1	11/16/24 08:51	11/25/24 22:55	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	88.4	U	88.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	85.0	U	85.0	170	ug/Kg
99-09-2	3-Nitroaniline	91.1	UQ	91.1	170	ug/Kg
83-32-9	Acenaphthene	82.8	U	82.8	170	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	340	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	340	ug/Kg
132-64-9	Dibenzofuran	86.2	U	86.2	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	88.1	U	88.1	170	ug/Kg
84-66-2	Diethylphthalate	81.8	U	81.8	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	87.4	U	87.4	170	ug/Kg
86-73-7	Fluorene	87.3	U	87.3	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	340	ug/Kg
86-30-6	n-Nitrosodiphenylamine	83.4	U	83.4	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	80.6	U	80.6	170	ug/Kg
118-74-1	Hexachlorobenzene	86.8	U	86.8	170	ug/Kg
1912-24-9	Atrazine	93.4	U	93.4	170	ug/Kg
87-86-5	Pentachlorophenol	79.0	U	79.0	340	ug/Kg
85-01-8	Phenanthrene	85.8	U	85.8	170	ug/Kg
120-12-7	Anthracene	86.2	U	86.2	170	ug/Kg
86-74-8	Carbazole	82.0	U	82.0	170	ug/Kg
84-74-2	Di-n-butylphthalate	86.1	U	86.1	170	ug/Kg
206-44-0	Fluoranthene	83.5	U	83.5	170	ug/Kg
129-00-0	Pyrene	84.8	U	84.8	170	ug/Kg
85-68-7	Butylbenzylphthalate	98.9	U	98.9	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	100	UQ	100	340	ug/Kg
56-55-3	Benzo(a)anthracene	82.4	U	82.4	170	ug/Kg
218-01-9	Chrysene	81.2	U	81.2	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	93.0	U	93.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	340	ug/Kg
205-99-2	Benzo(b)fluoranthene	82.8	U	82.8	170	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-003	SDG No.:	P4860
Lab Sample ID:	P4860-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	97.8
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
BF140620.D	1	11/16/24 08:51	11/25/24 22:55	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	84.4	U	84.4	170	ug/Kg
50-32-8	Benzo(a)pyrene	95.0	U	95.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	79.8	U	79.8	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	82.9	U	82.9	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	81.8	U	81.8	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	88.7	U	88.7	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	76.3	U	76.3	170	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	102		30 (18) - 130 (112)	68%	SPK: 150
13127-88-3	Phenol-d6	101		30 (15) - 130 (107)	67%	SPK: 150
4165-60-0	Nitrobenzene-d5	70.4		30 (18) - 130 (107)	70%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.2		30 (20) - 130 (109)	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	102		30 (10) - 130 (116)	68%	SPK: 150
1718-51-0	Terphenyl-d14	72.7		30 (10) - 130 (105)	73%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	59200	6.869
1146-65-2	Naphthalene-d8	216000	8.151
15067-26-2	Acenaphthene-d10	118000	9.904
1517-22-2	Phenanthrene-d10	223000	11.392
1719-03-5	Chrysene-d12	134000	14.039
1520-96-3	Perylene-d12	132000	15.527

TENTATIVE IDENTIFIED COMPOUNDS

000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	70.8	A	5.09	ug/Kg
000119-61-9	Benzophenone	140	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	120	J	11.9	ug/Kg
074339-53-0	Trichloroacetic acid, pentadecyl e	170	J	13.9	ug/Kg
000111-02-4	Squalene	91.9	J	14.9	ug/Kg
	unknown16.427	77.3	J	16.4	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-003	SDG No.:	P4860
Lab Sample ID:	P4860-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	97.8
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
BF140620.D	1	11/16/24 08:51	11/25/24 22:55	PB165029

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\BF112524\
Data File : BF140620.D
Acq On : 25 Nov 2024 22:55
Operator : RC/JU
Sample : P4860-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-003

Quant Time: Nov 26 00:11:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	59191	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	215928	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	117690	20.000	ng	-0.01
64) Phenanthrene-d10	11.392	188	222510	20.000	ng	-0.01
76) Chrysene-d12	14.039	240	134073	20.000	ng	-0.01
86) Perylene-d12	15.527	264	132029	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	353591	101.924	ng	0.00
7) Phenol-d6	6.504	99	462361	100.814	ng	-0.01
23) Nitrobenzene-d5	7.428	82	297146	70.390	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	128817	102.341	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	578560	73.245	ng	-0.01
79) Terphenyl-d14	12.980	244	625576	72.655	ng	-0.01

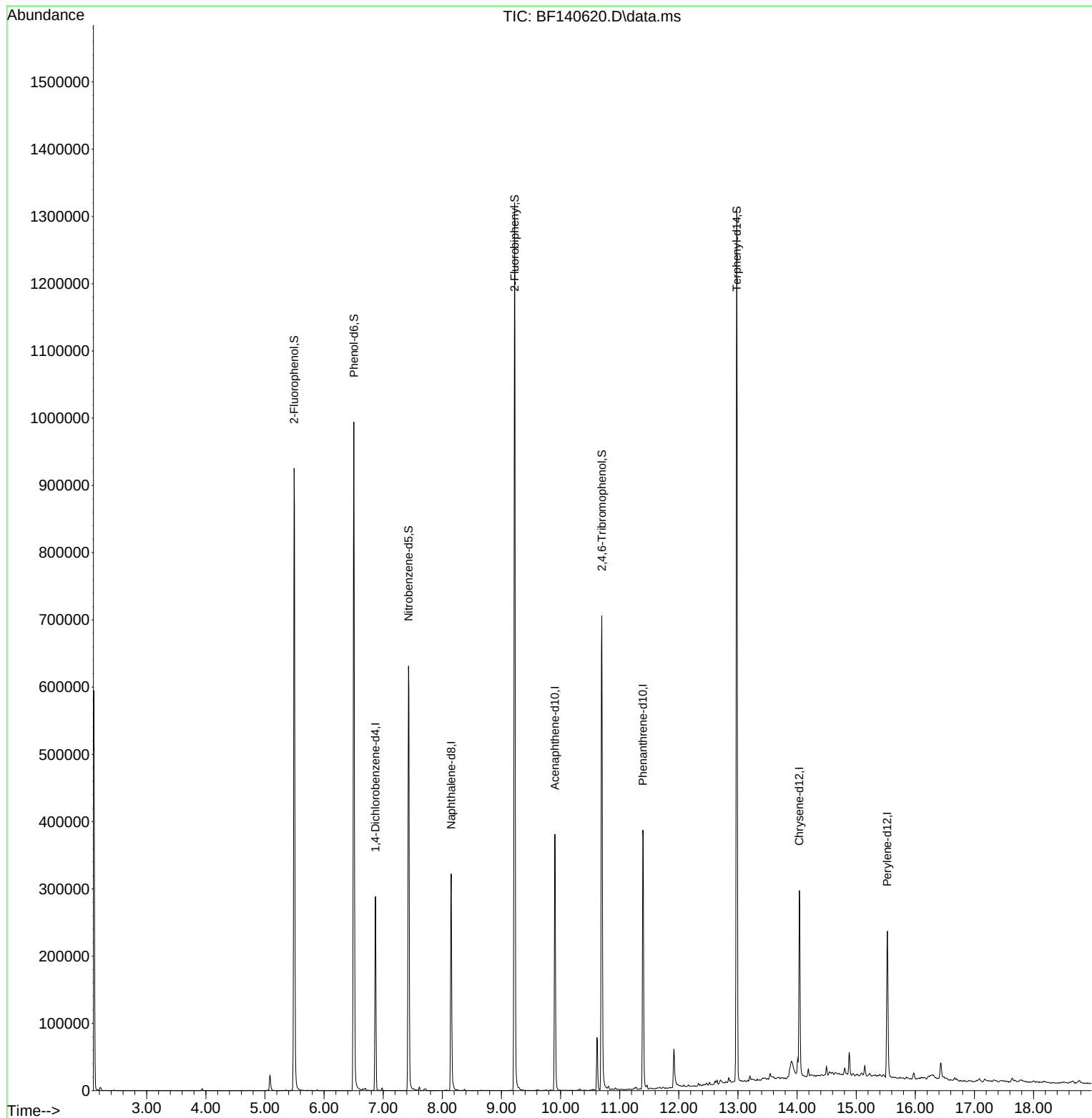
Target Compounds	Qvalue

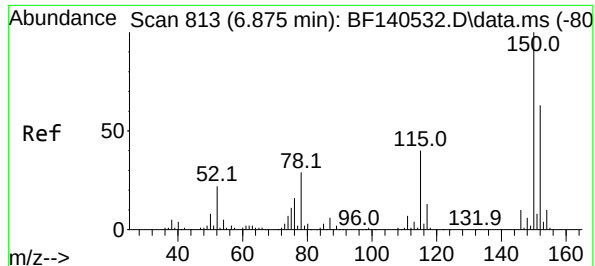
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140620.D
Acq On : 25 Nov 2024 22:55
Operator : RC/JU
Sample : P4860-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-003

Quant Time: Nov 26 00:11:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

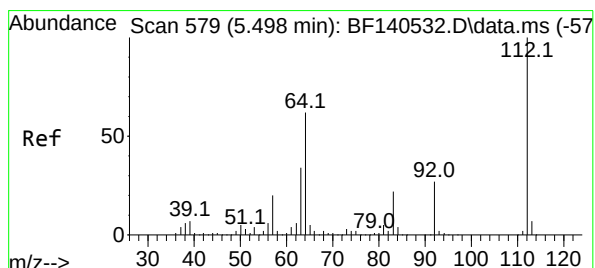
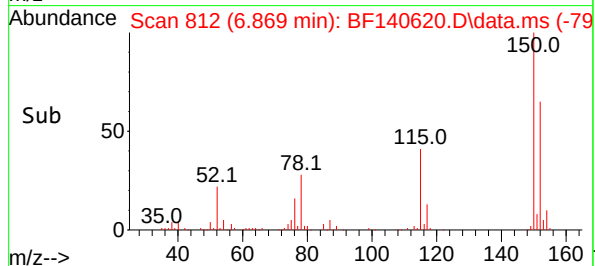
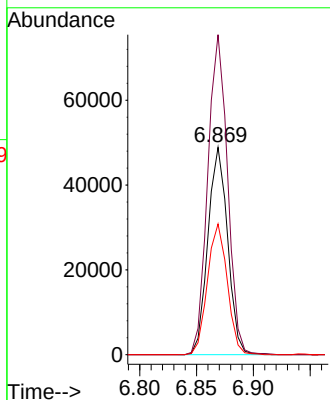
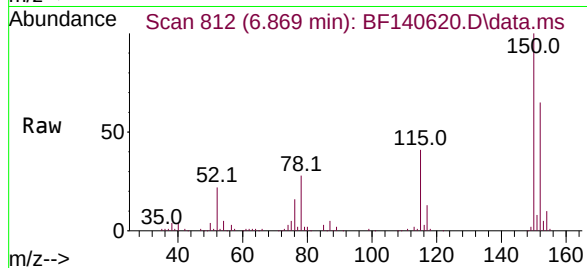




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140620.D
Acq: 25 Nov 2024 22:55

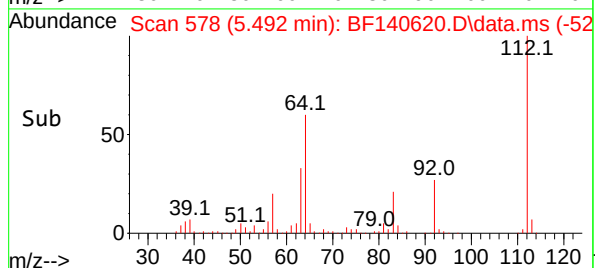
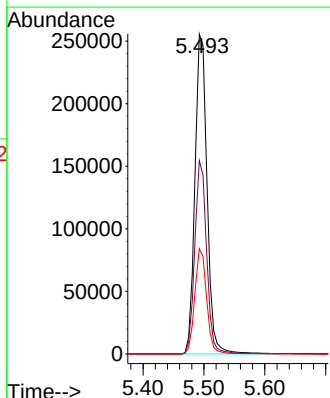
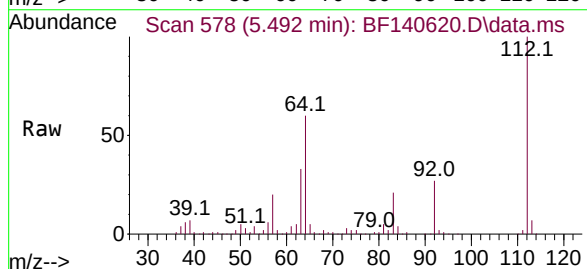
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-003

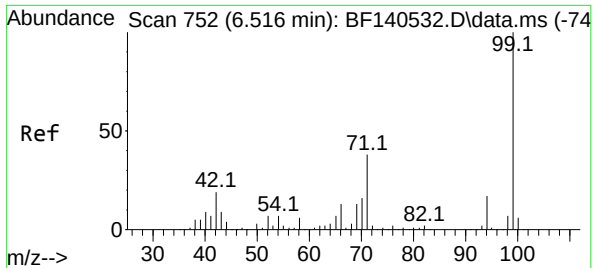
Tgt Ion:152 Resp: 59191
Ion Ratio Lower Upper
152 100
150 154.3 128.5 192.7
115 63.0 50.2 75.4



#5
2-Fluorophenol
Concen: 101.924 ng
RT: 5.492 min Scan# 578
Delta R.T. -0.006 min
Lab File: BF140620.D
Acq: 25 Nov 2024 22:55

Tgt Ion:112 Resp: 353591
Ion Ratio Lower Upper
112 100
64 60.4 49.2 73.8
63 32.9 27.0 40.4

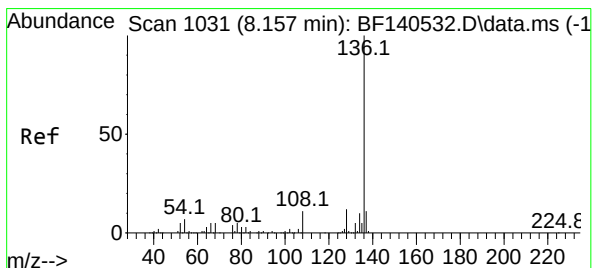
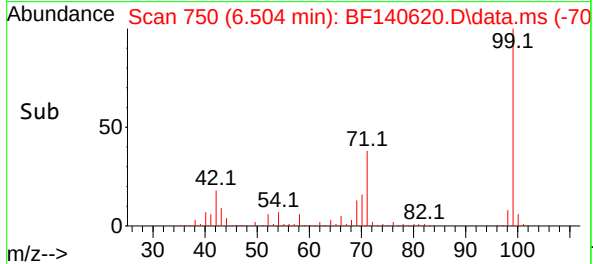
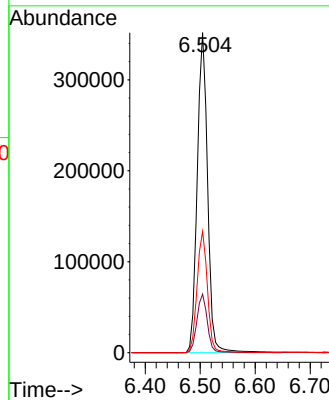
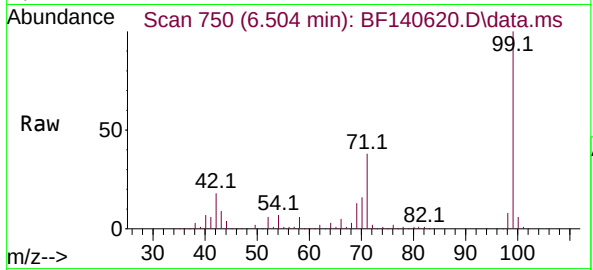




#7
Phenol-d6
Concen: 100.814 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF140620.D
Acq: 25 Nov 2024 22:55

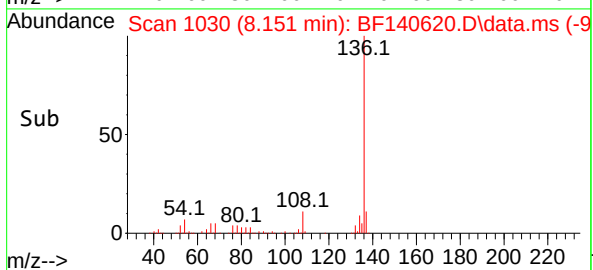
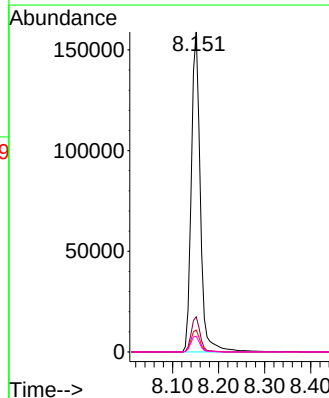
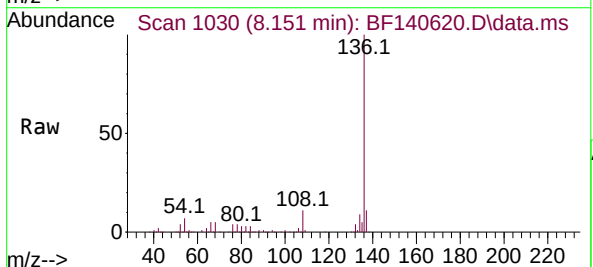
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-003

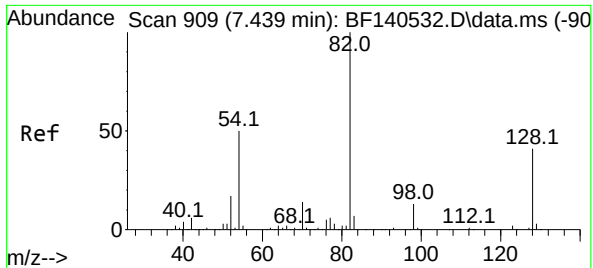
Tgt Ion: 99 Resp: 462361
Ion Ratio Lower Upper
99 100
42 18.3 15.4 23.0
71 37.9 30.6 46.0



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140620.D
Acq: 25 Nov 2024 22:55

Tgt Ion: 136 Resp: 215928
Ion Ratio Lower Upper
136 100
137 11.0 8.6 13.0
54 6.8 5.8 8.8
68 4.9 4.1 6.1





#23

Nitrobenzene-d5

Concen: 70.390 ng

RT: 7.428 min Scan# 909

Delta R.T. -0.012 min

Lab File: BF140620.D

Acq: 25 Nov 2024 22:55

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-003

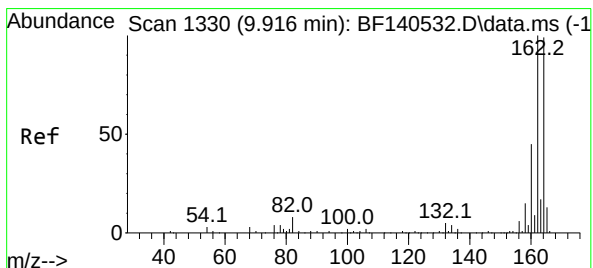
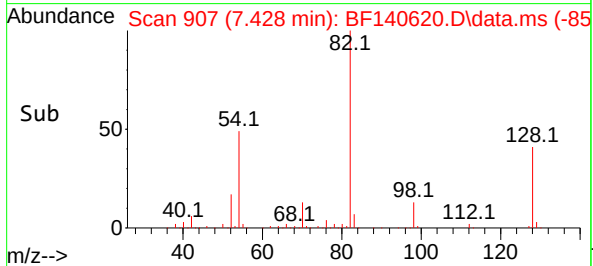
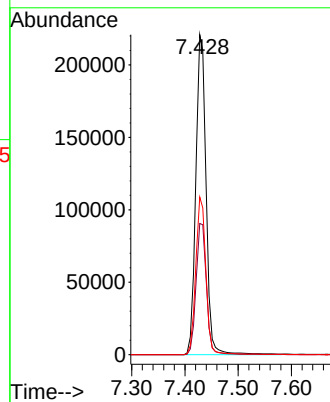
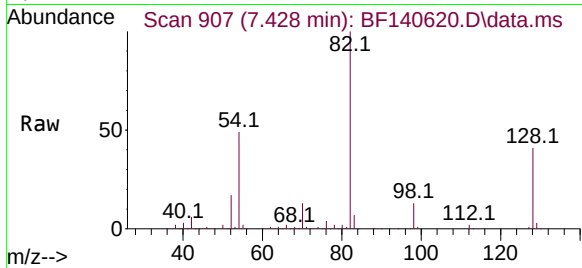
Tgt Ion: 82 Resp: 297146

Ion	Ratio	Lower	Upper

82	100		

128	41.0	33.0	49.4

54	49.2	39.5	59.3



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.904 min Scan# 1328

Delta R.T. -0.012 min

Lab File: BF140620.D

Acq: 25 Nov 2024 22:55

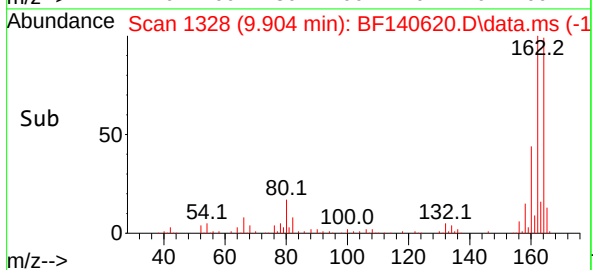
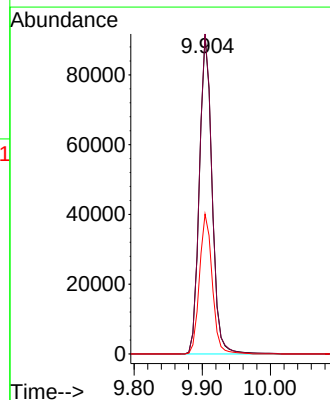
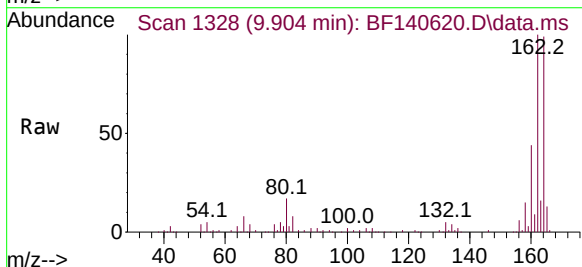
Tgt Ion: 164 Resp: 117690

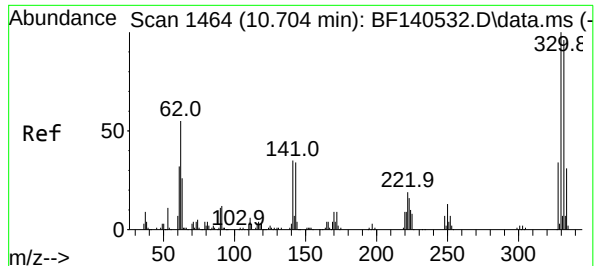
Ion	Ratio	Lower	Upper

164	100		

162	100.8	80.6	120.8

160	44.1	36.2	54.4





#42

2,4,6-Tribromophenol

Concen: 102.341 ng

RT: 10.698 min Scan# 1463

Delta R.T. -0.006 min

Lab File: BF140620.D

Acq: 25 Nov 2024 22:55

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-003

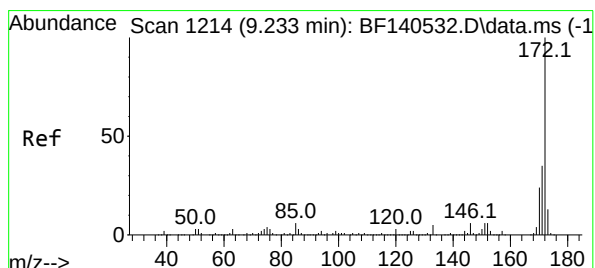
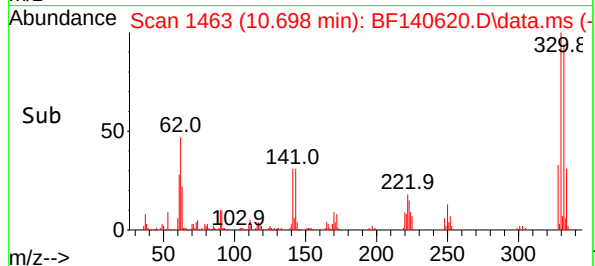
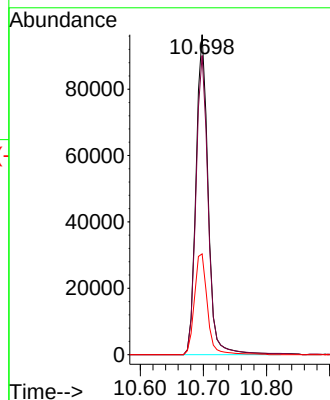
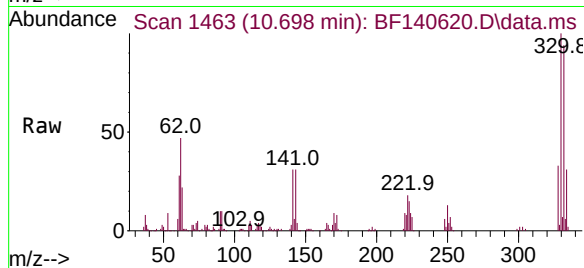
Tgt Ion:330 Resp: 128817

Ion Ratio Lower Upper

330 100

332 95.1 76.9 115.3

141 33.6 26.7 40.1



#45

2-Fluorobiphenyl

Concen: 73.245 ng

RT: 9.222 min Scan# 1212

Delta R.T. -0.012 min

Lab File: BF140620.D

Acq: 25 Nov 2024 22:55

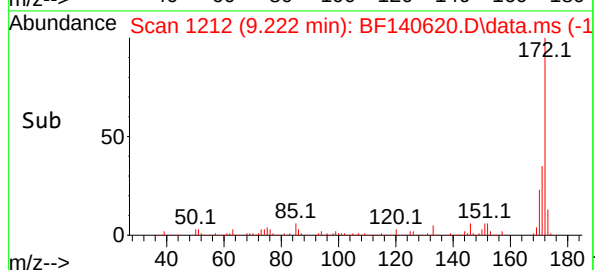
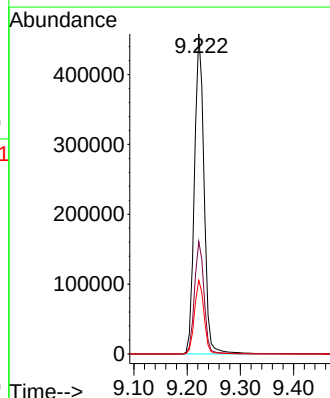
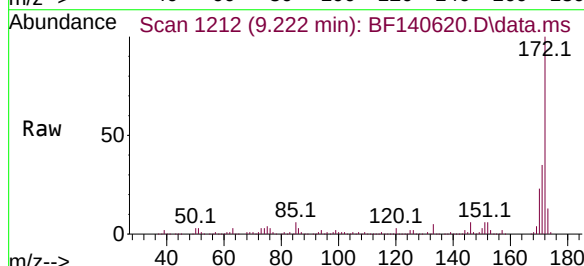
Tgt Ion:172 Resp: 578560

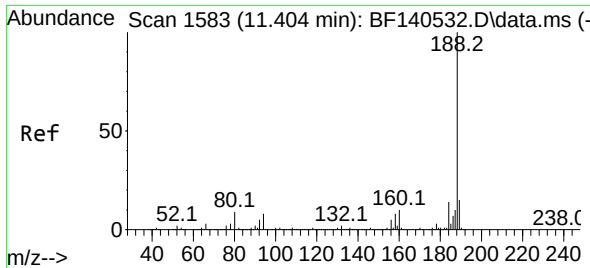
Ion Ratio Lower Upper

172 100

171 35.2 28.4 42.6

170 23.1 19.0 28.6

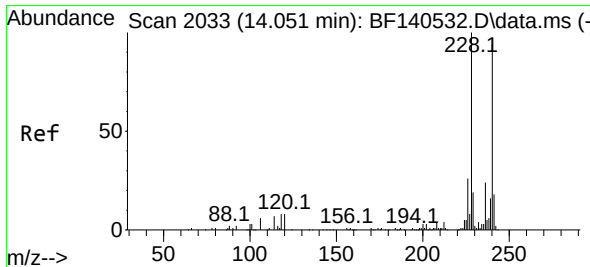
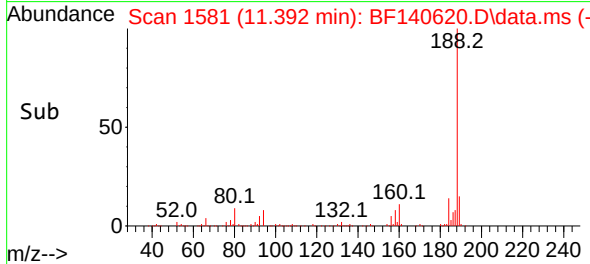
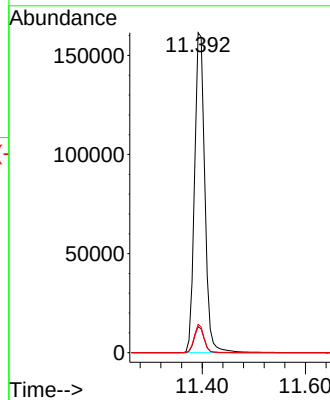
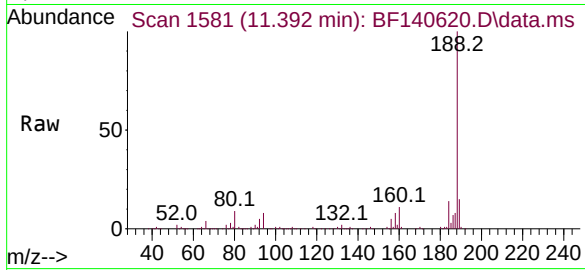




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF140620.D
Acq: 25 Nov 2024 22:55

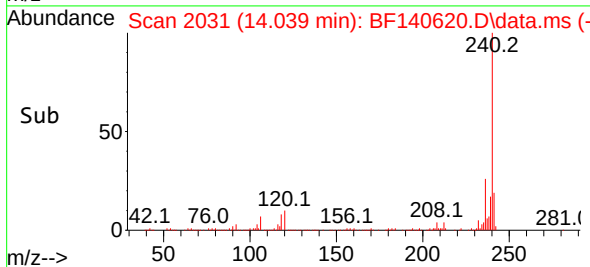
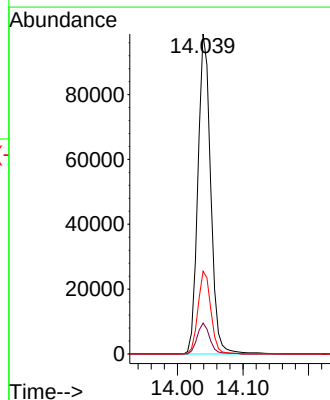
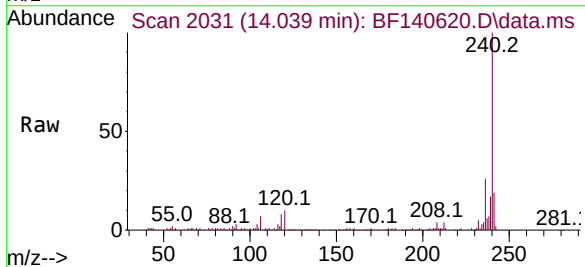
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-003

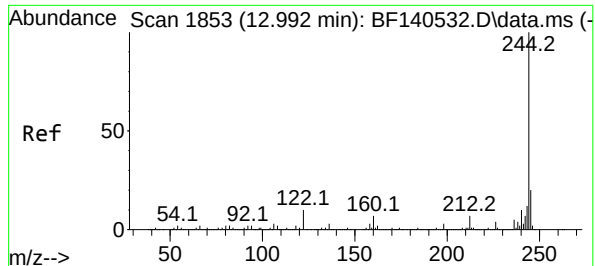
Tgt Ion:188 Resp: 222510
Ion Ratio Lower Upper
188 100
94 8.1 6.4 9.6
80 8.8 6.9 10.3



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF140620.D
Acq: 25 Nov 2024 22:55

Tgt Ion:240 Resp: 134073
Ion Ratio Lower Upper
240 100
120 9.7 7.3 10.9
236 25.8 20.6 31.0





#79

Terphenyl-d14

Concen: 72.655 ng

RT: 12.980 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF140620.D

Acq: 25 Nov 2024 22:55

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-003

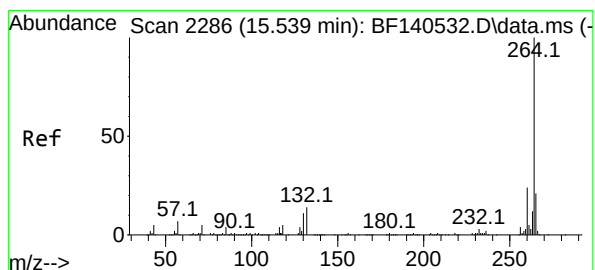
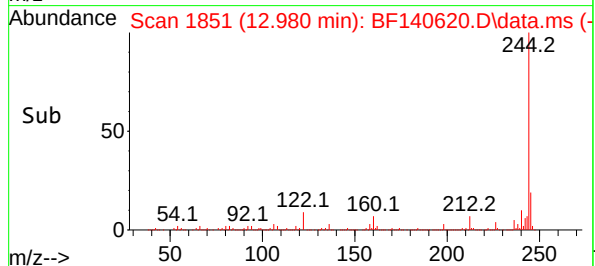
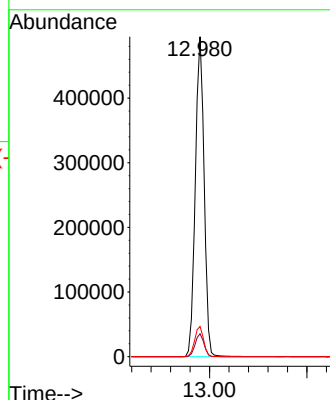
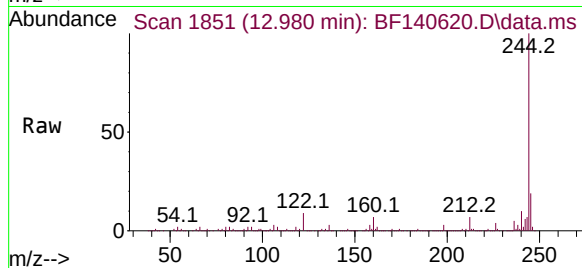
Tgt Ion:244 Resp: 625576

Ion Ratio Lower Upper

244 100

212 7.1 5.8 8.8

122 9.5 8.0 12.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.527 min Scan# 2284

Delta R.T. -0.012 min

Lab File: BF140620.D

Acq: 25 Nov 2024 22:55

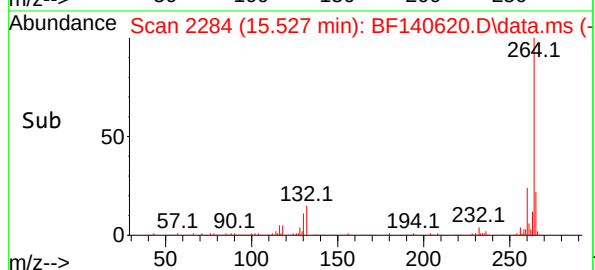
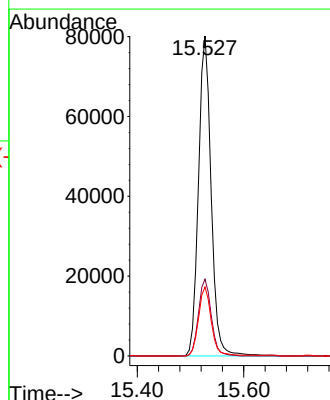
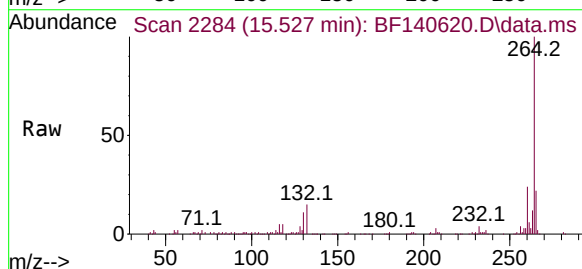
Tgt Ion:264 Resp: 132029

Ion Ratio Lower Upper

264 100

260 24.0 19.0 28.6

265 21.6 16.6 25.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140620.D
Acq On : 25 Nov 2024 22:55
Operator : RC/JU
Sample : P4860-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-003

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-BF112124.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140620.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.087	504	509	520	rVB	22559	36099	2.20%	0.339%
2	5.493	573	578	600	rVB	924959	1254838	76.62%	11.779%
3	6.504	744	750	773	rBV	994270	1311890	80.10%	12.314%
4	6.869	807	812	821	rVB	288392	347691	21.23%	3.264%
5	7.428	902	907	920	rBV	630832	837662	51.15%	7.863%
6	8.151	1025	1030	1044	rBV	322172	428766	26.18%	4.025%
7	9.222	1207	1212	1223	rBV	1320324	1637791	100.00%	15.373%
8	9.904	1323	1328	1341	rBV	380756	484671	29.59%	4.549%
9	10.616	1444	1449	1457	rBV	78372	102573	6.26%	0.963%
10	10.698	1457	1463	1478	rBV	705269	967229	59.06%	9.079%
11	11.392	1576	1581	1590	rBV	385162	524003	31.99%	4.919%
12	11.916	1665	1670	1679	rBV	57249	96158	5.87%	0.903%
13	12.980	1845	1851	1856	rBV	1293919	1636377	99.91%	15.360%
14	13.545	1943	1947	1954	rBV5	8211	17501	1.07%	0.164%
15	13.904	2000	2008	2021	rBV6	22435	95499	5.83%	0.896%
16	14.010	2022	2026	2027	rVV	25739	30634	1.87%	0.288%
17	14.039	2027	2031	2048	rVB	277010	387992	23.69%	3.642%
18	14.880	2170	2174	2181	rVB	34165	47016	2.87%	0.441%
19	15.145	2216	2219	2225	rVB	14813	20609	1.26%	0.193%
20	15.527	2278	2284	2293	rBV	217145	348691	21.29%	3.273%
21	16.427	2433	2437	2445	rBV8	21896	39657	2.42%	0.372%

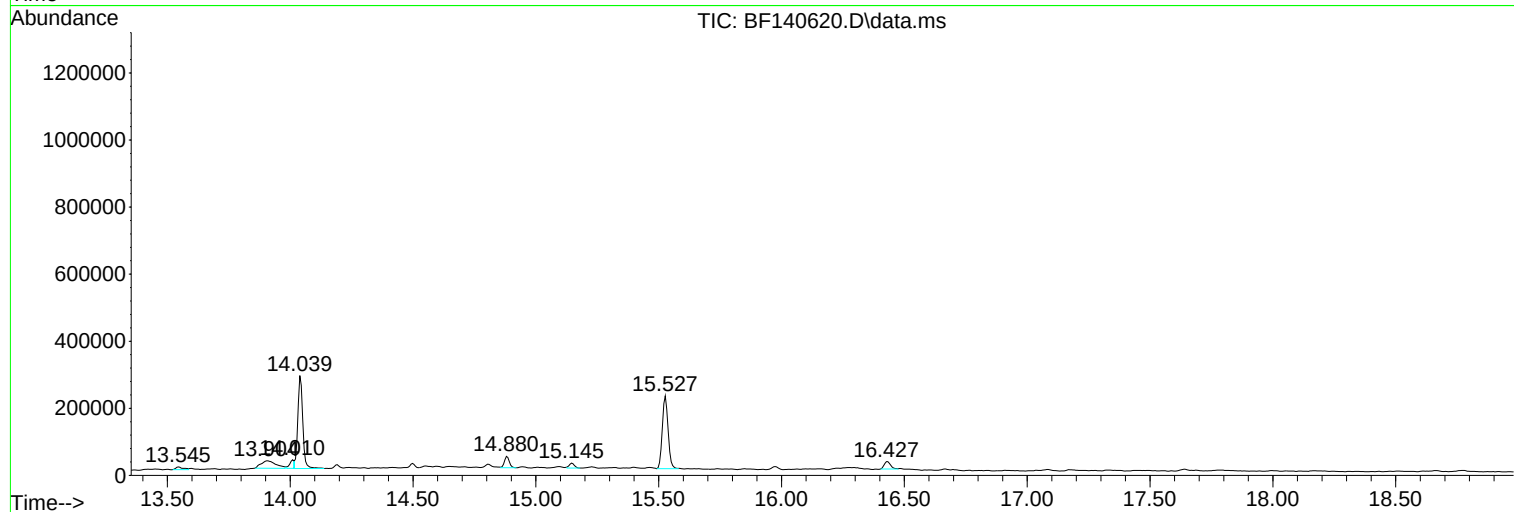
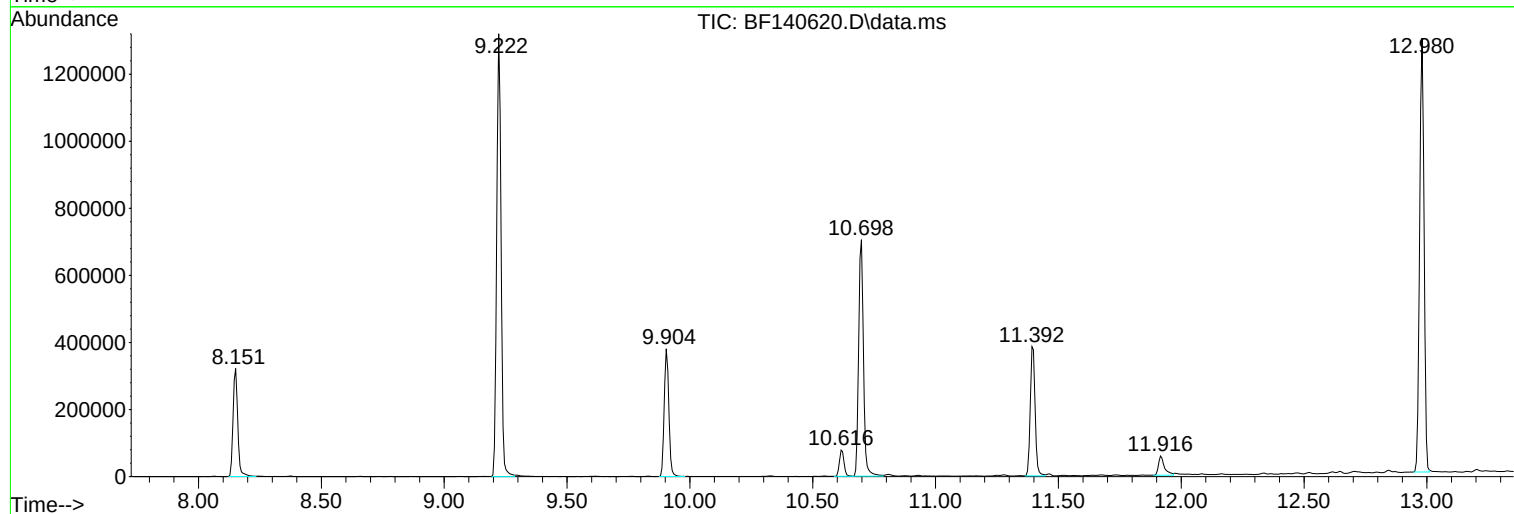
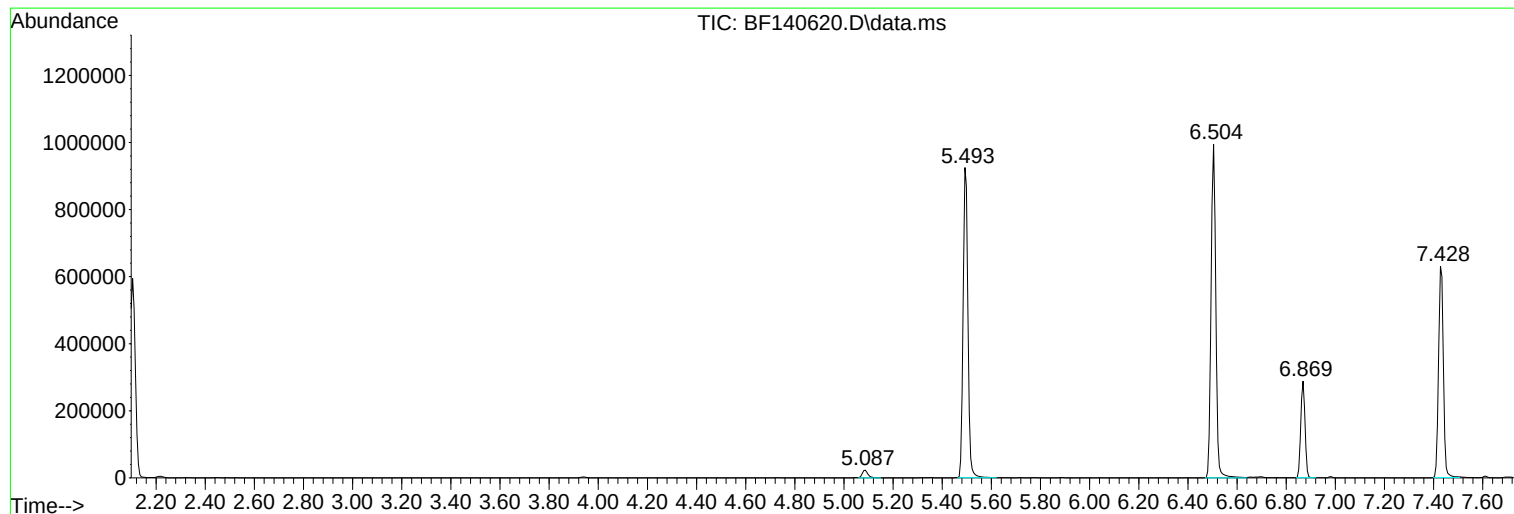
Sum of corrected areas: 10653347

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140620.D
Acq On : 25 Nov 2024 22:55
Operator : RC/JU
Sample : P4860-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-003

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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\BF112524\
Data File : BF140620.D
Acq On : 25 Nov 2024 22:55
Operator : RC/JU
Sample : P4860-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

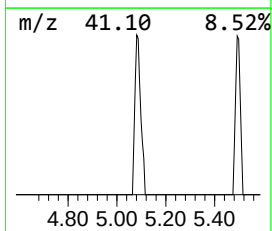
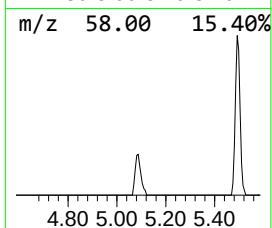
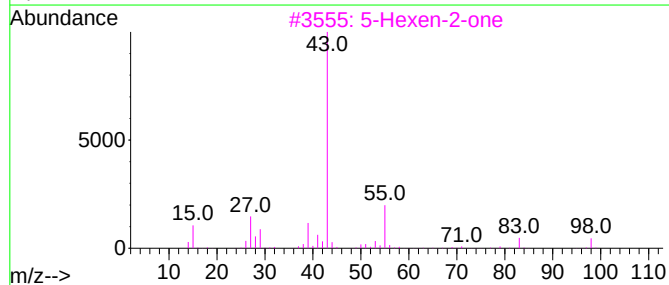
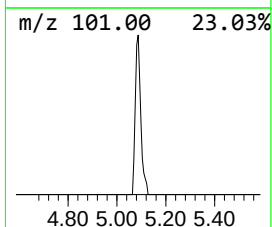
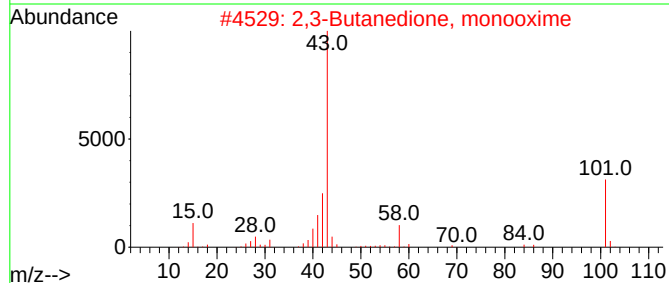
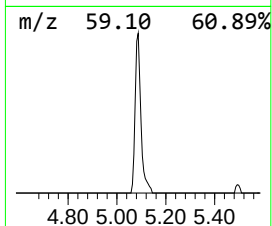
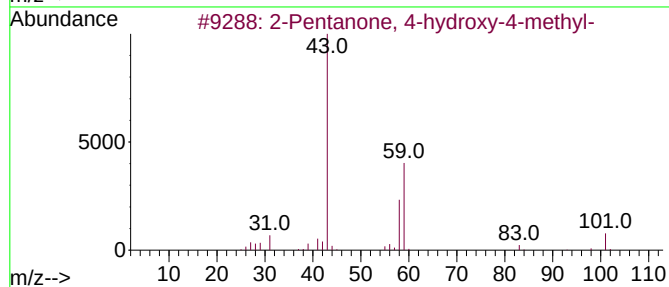
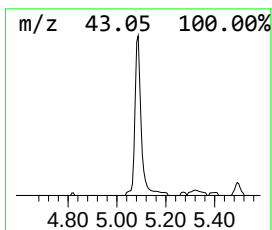
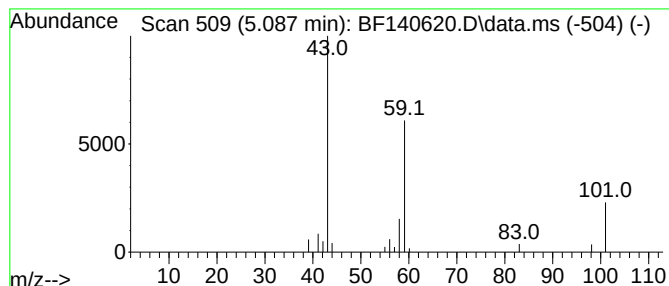
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-003

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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 6

R.T.	EstConc	Area	Relative to ISTD	R.T.	
5.087	2.08 ng	36099	1,4-Dichlorobenzene-d4	6.869	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	32
3	5-Hexen-2-one	98	C6H10O	000109-49-9	9
4	3-Octanol	130	C8H18O	000589-98-0	9
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140620.D
Acq On : 25 Nov 2024 22:55
Operator : RC/JU
Sample : P4860-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-003

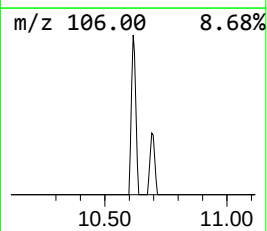
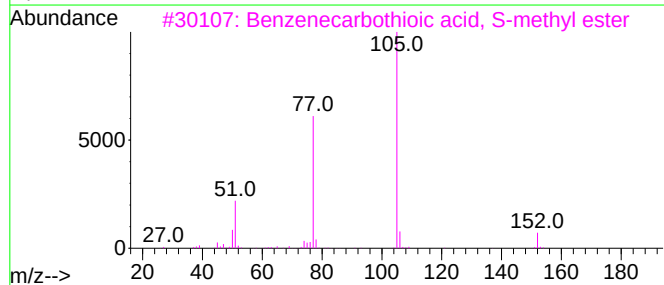
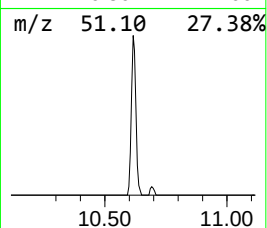
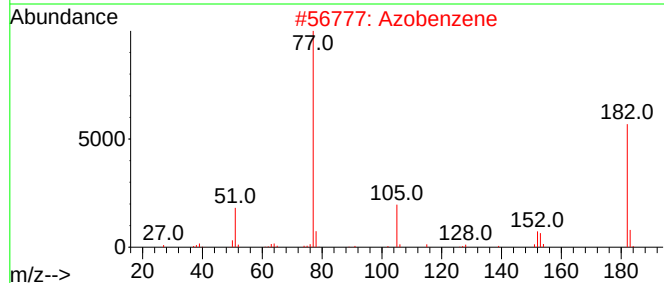
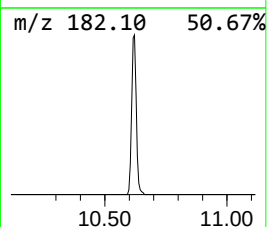
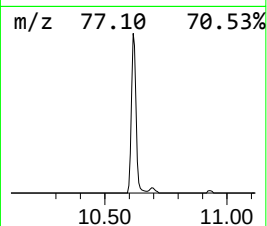
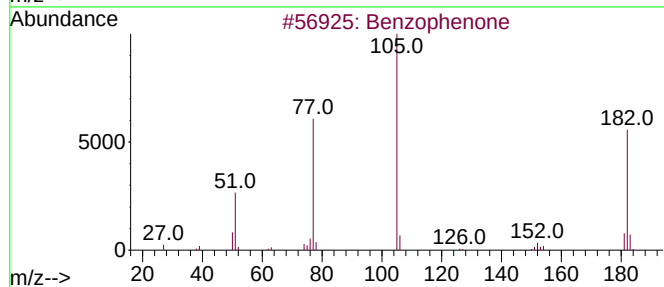
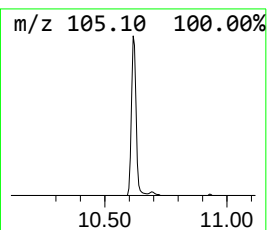
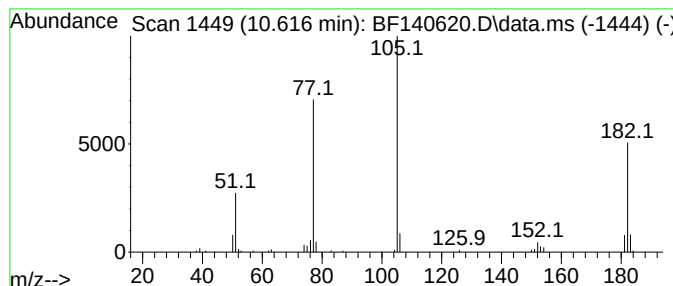
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.616	4.23 ng	102573	Acenaphthene-d10	9.904

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Azobenzene	182	C12H10N2	000103-33-3	59
3			Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
4			2-Phenyl-4-ethylidene-2-oxazolin...	187	C11H9NO2	037791-41-6	47
5			N-Methylbenzamide, N-pentafluoro...	281	C11H8F5NO2	1000446-98-1	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140620.D
Acq On : 25 Nov 2024 22:55
Operator : RC/JU
Sample : P4860-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-003

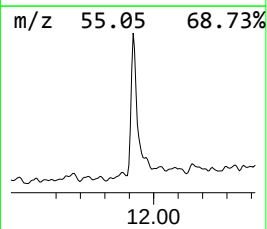
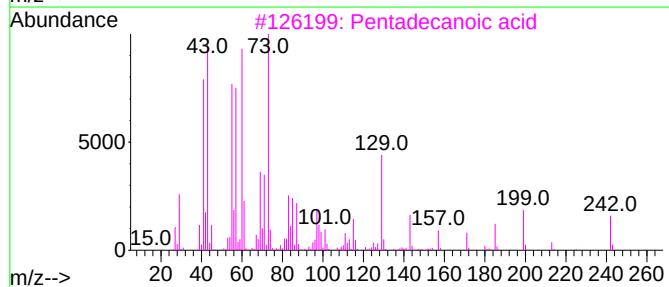
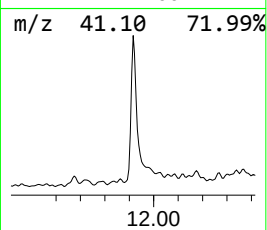
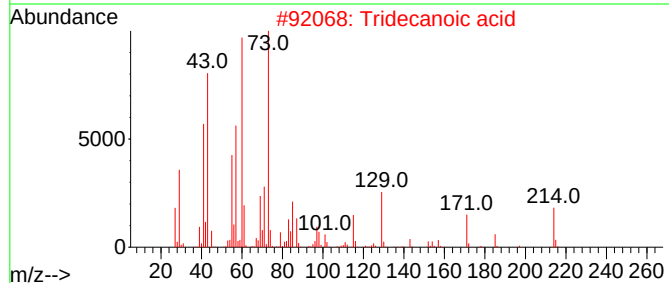
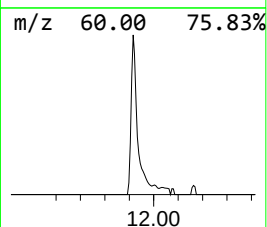
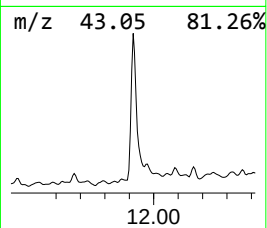
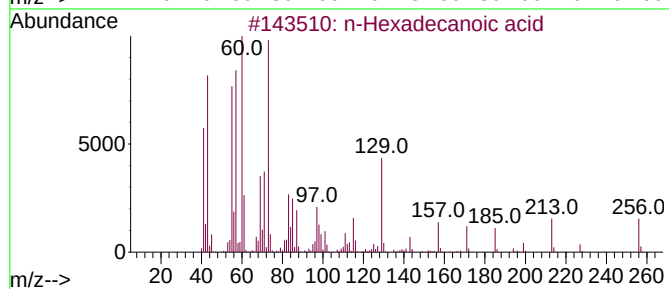
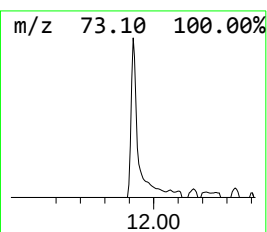
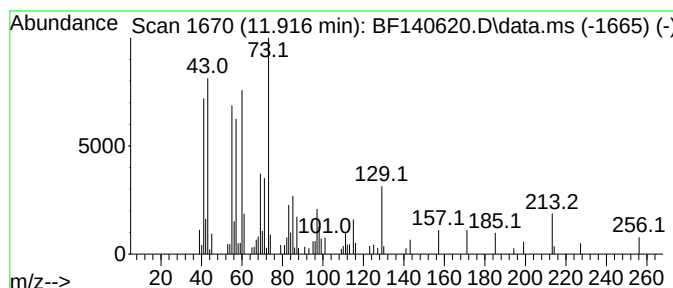
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.916	3.67 ng	96158	Phenanthrene-d10	11.392

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			n-Hexadecanoic acid	256	C16H32O2	000057-10-3	97
2			Tridecanoic acid	214	C13H26O2	000638-53-9	90
3			Pentadecanoic acid	242	C15H30O2	001002-84-2	83
4			Tetradecanoic acid	228	C14H28O2	000544-63-8	64
5			n-Decanoic acid	172	C10H20O2	000334-48-5	49



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140620.D
Acq On : 25 Nov 2024 22:55
Operator : RC/JU
Sample : P4860-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-003

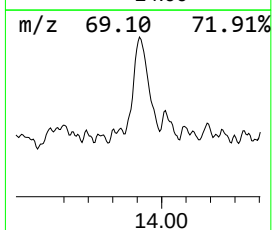
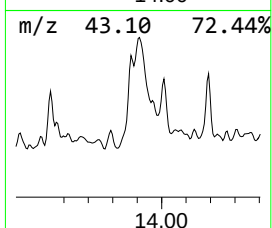
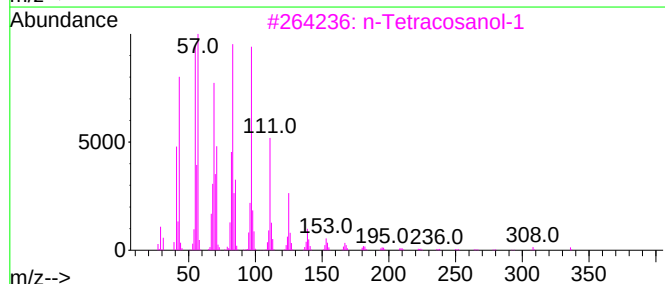
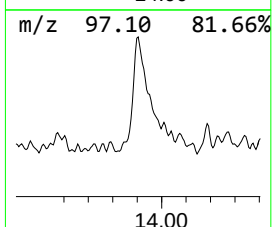
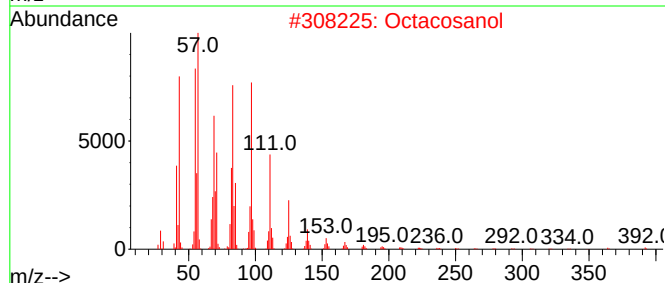
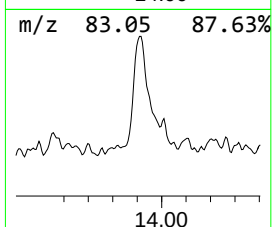
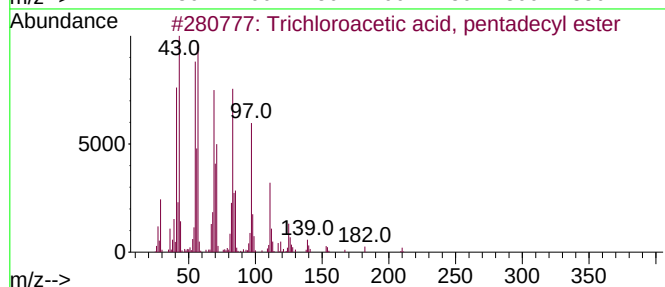
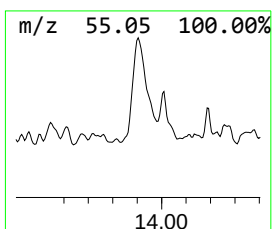
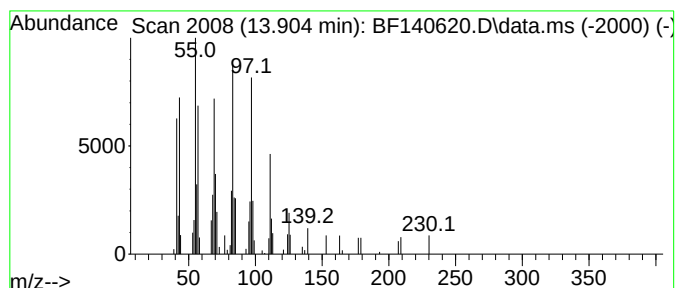
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Trichloroacetic acid, penta... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	4.92 ng	95499	Chrysene-d12	14.039

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	90
2			Octacosanol	410	C28H58O	000557-61-9	87
3			n-Tetracosanol-1	354	C24H50O	000506-51-4	87
4			1-Tetracosene	336	C24H48	010192-32-2	87
5			1-Docosene	308	C22H44	001599-67-3	87



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140620.D
Acq On : 25 Nov 2024 22:55
Operator : RC/JU
Sample : P4860-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-003

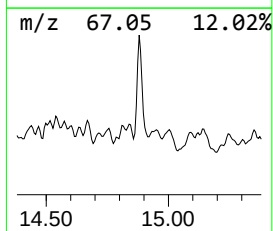
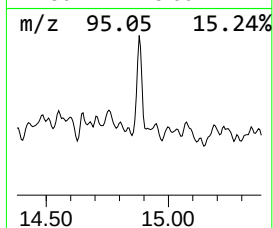
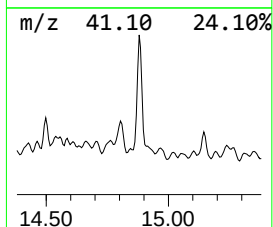
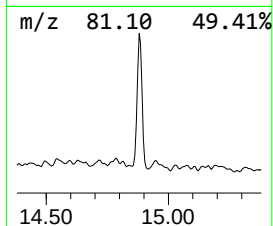
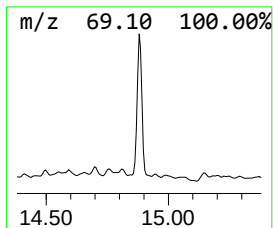
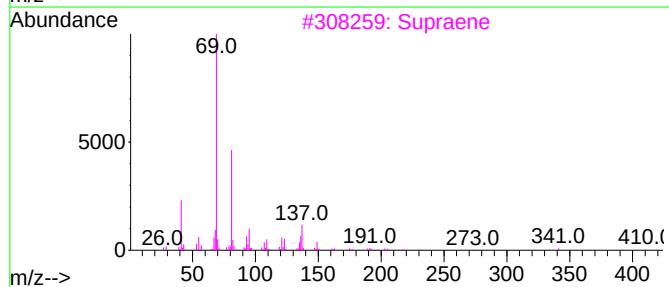
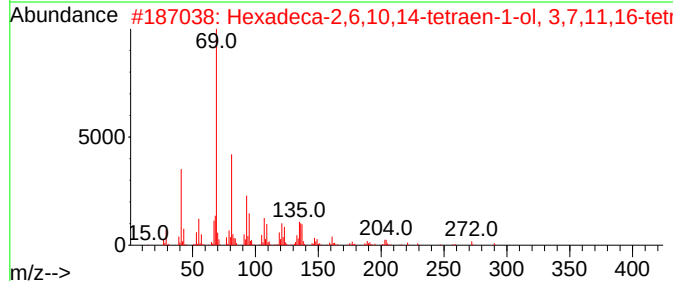
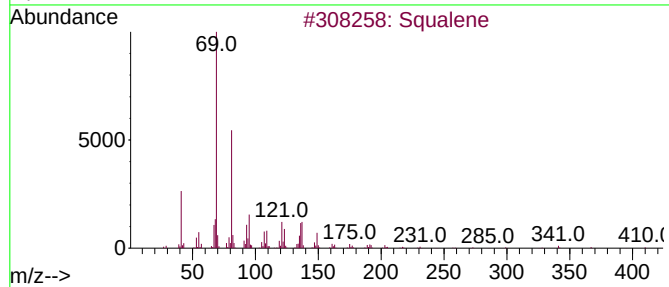
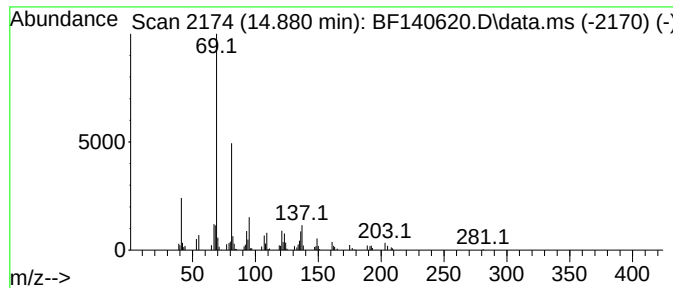
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Squalene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.880	2.70 ng	47016	Perylene-d12	15.527

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Squalene	410	C30H50	000111-02-4	90
2			Hexadeca-2,6,10,14-tetraen-1-ol,...	290	C20H34O	007614-21-3	83
3			Supraene	410	C30H50	007683-64-9	83
4			trans-Farnesol	222	C15H26O	000106-28-5	72
5			1,5,9-Undecatriene, 2,6,10-trime...	192	C14H24	062951-96-6	68



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140620.D
Acq On : 25 Nov 2024 22:55
Operator : RC/JU
Sample : P4860-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

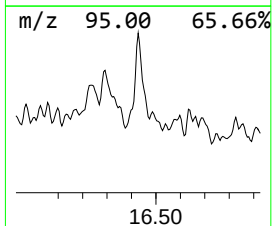
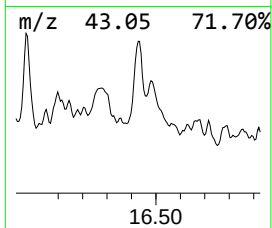
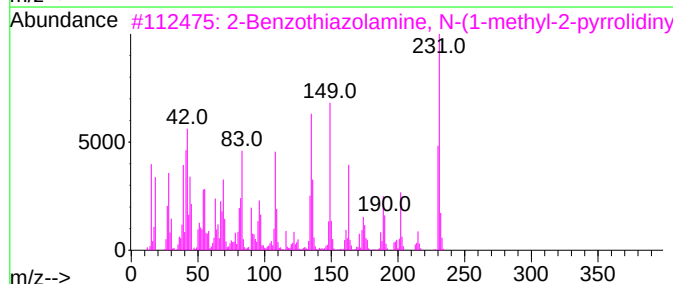
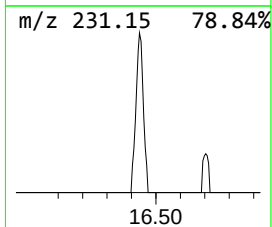
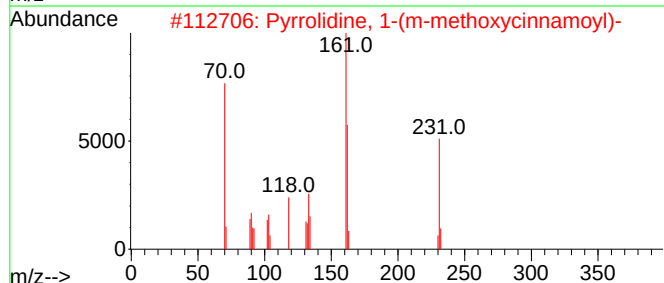
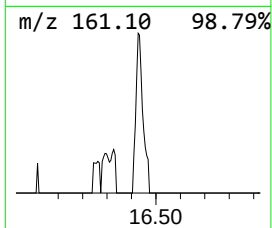
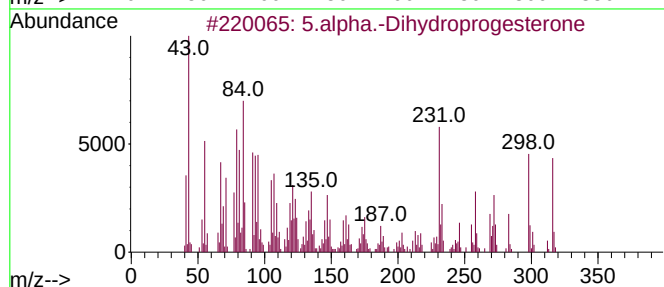
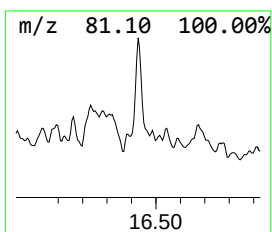
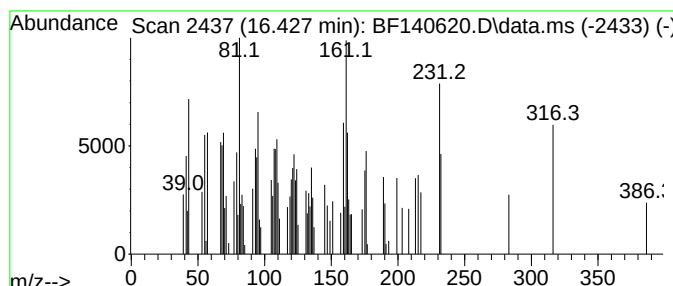
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-003

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 unknown16.427 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
16.427	2.27 ng	39657	Perylene-d12	15.527	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5.alpha.-Dihydroprogesterone	316	C21H32O2	000566-65-4	47
2	Pyrrolidine, 1-(m-methoxycinnamo...	231	C14H17NO2	029647-01-6	35
3	2-Benzothiazolamine, N-(1-methyl...	231	C12H13N3S	084859-07-4	25
4	Pregn-5-en-20-one, 3-hydroxy-	316	C21H32O2	038372-24-6	25
5	4-Methyl-2-(3-methyl-but-2-enyli...	176	C11H16N2	1000185-91-3	18



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140620.D
Acq On : 25 Nov 2024 22:55
Operator : RC/JU
Sample : P4860-04
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-003

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-...	5.087	2.1	ng	36099	1	6.869	347691	20.0
Benzophenone	10.616	4.2	ng	102573	3	9.904	484671	20.0
n-Hexadecanoic ...	11.916	3.7	ng	96158	4	11.392	524003	20.0
Trichloroacetic...	13.904	4.9	ng	95499	5	14.039	387992	20.0
Squalene	14.880	2.7	ng	47016	6	15.527	348691	20.0
unknown16.427	16.427	2.3	ng	39657	6	15.527	348691	20.0

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-004	SDG No.:	P4860
Lab Sample ID:	P4860-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	98.1
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
BF140579.D	1	11/16/24 08:51	11/22/24 15:58	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	UQ	190	340	ug/Kg
108-95-2	Phenol	84.3	U	84.3	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	85.1	U	85.1	170	ug/Kg
95-57-8	2-Chlorophenol	84.9	U	84.9	170	ug/Kg
95-48-7	2-Methylphenol	81.9	U	81.9	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	92.4	U	92.4	170	ug/Kg
98-86-2	Acetophenone	88.3	U	88.3	170	ug/Kg
65794-96-9	3+4-Methylphenols	81.1	U	81.1	340	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	41.0	U	41.0	81.3	ug/Kg
67-72-1	Hexachloroethane	84.4	U	84.4	170	ug/Kg
98-95-3	Nitrobenzene	92.3	U	92.3	170	ug/Kg
78-59-1	Isophorone	86.0	U	86.0	170	ug/Kg
88-75-5	2-Nitrophenol	96.1	U	96.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	94.8	U	94.8	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	87.2	U	87.2	170	ug/Kg
120-83-2	2,4-Dichlorophenol	76.8	U	76.8	170	ug/Kg
91-20-3	Naphthalene	84.0	U	84.0	170	ug/Kg
106-47-8	4-Chloroaniline	84.0	UQ	84.0	170	ug/Kg
87-68-3	Hexachlorobutadiene	84.7	U	84.7	170	ug/Kg
105-60-2	Caprolactam	88.2	U	88.2	340	ug/Kg
59-50-7	4-Chloro-3-methylphenol	78.8	U	78.8	170	ug/Kg
91-57-6	2-Methylnaphthalene	83.9	U	83.9	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	UQ	160	340	ug/Kg
88-06-2	2,4,6-Trichlorophenol	72.6	U	72.6	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	75.2	U	75.2	170	ug/Kg
92-52-4	1,1-Biphenyl	88.9	U	88.9	170	ug/Kg
91-58-7	2-Chloronaphthalene	84.7	U	84.7	170	ug/Kg
88-74-4	2-Nitroaniline	96.6	U	96.6	170	ug/Kg
131-11-3	Dimethylphthalate	83.1	U	83.1	170	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-004	SDG No.:	P4860
Lab Sample ID:	P4860-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	98.1
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
BF140579.D	1	11/16/24 08:51	11/22/24 15:58	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	87.9	U	87.9	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	84.6	U	84.6	170	ug/Kg
99-09-2	3-Nitroaniline	90.7	UQ	90.7	170	ug/Kg
83-32-9	Acenaphthene	82.5	U	82.5	170	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	340	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	340	ug/Kg
132-64-9	Dibenzofuran	85.8	U	85.8	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	87.6	U	87.6	170	ug/Kg
84-66-2	Diethylphthalate	81.4	U	81.4	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	87.0	U	87.0	170	ug/Kg
86-73-7	Fluorene	86.9	U	86.9	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	340	ug/Kg
86-30-6	n-Nitrosodiphenylamine	83.0	U	83.0	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	80.2	U	80.2	170	ug/Kg
118-74-1	Hexachlorobenzene	86.4	U	86.4	170	ug/Kg
1912-24-9	Atrazine	92.9	U	92.9	170	ug/Kg
87-86-5	Pentachlorophenol	78.6	U	78.6	340	ug/Kg
85-01-8	Phenanthrene	85.4	U	85.4	170	ug/Kg
120-12-7	Anthracene	85.8	U	85.8	170	ug/Kg
86-74-8	Carbazole	81.6	U	81.6	170	ug/Kg
84-74-2	Di-n-butylphthalate	85.7	U	85.7	170	ug/Kg
206-44-0	Fluoranthene	83.1	U	83.1	170	ug/Kg
129-00-0	Pyrene	84.4	U	84.4	170	ug/Kg
85-68-7	Butylbenzylphthalate	98.4	U	98.4	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	100	UQ	100	340	ug/Kg
56-55-3	Benzo(a)anthracene	82.0	U	82.0	170	ug/Kg
218-01-9	Chrysene	80.8	U	80.8	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	92.5	U	92.5	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	340	ug/Kg
205-99-2	Benzo(b)fluoranthene	82.5	U	82.5	170	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-004	SDG No.:	P4860
Lab Sample ID:	P4860-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	98.1
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
BF140579.D	1	11/16/24 08:51	11/22/24 15:58	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	84.0	U	84.0	170	ug/Kg
50-32-8	Benzo(a)pyrene	94.5	U	94.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	79.4	U	79.4	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	82.6	U	82.6	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	81.4	U	81.4	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	88.2	U	88.2	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	75.9	U	75.9	170	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	87.3		30 (18) - 130 (112)	58%	SPK: 150
13127-88-3	Phenol-d6	84.5		30 (15) - 130 (107)	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	59.5		30 (18) - 130 (107)	59%	SPK: 100
321-60-8	2-Fluorobiphenyl	63.7		30 (20) - 130 (109)	64%	SPK: 100
118-79-6	2,4,6-Tribromophenol	82.4		30 (10) - 130 (116)	55%	SPK: 150
1718-51-0	Terphenyl-d14	63.6		30 (10) - 130 (105)	64%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	90900	6.869
1146-65-2	Naphthalene-d8	333000	8.151
15067-26-2	Acenaphthene-d10	173000	9.904
1517-22-2	Phenanthrene-d10	324000	11.398
1719-03-5	Chrysene-d12	178000	14.045
1520-96-3	Perylene-d12	173000	15.533

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	1400	JB	2.14	ug/Kg
000119-61-9	Benzophenone	370	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	93.9	J	11.9	ug/Kg
1000406-04-8	Pentadecafluorooctanoic acid, octa	150	J	13.9	ug/Kg

Report of Analysis

Client:	Tetra Tech		Date Collected:	11/14/24
Project:	Ocean County Landfill 2024		Date Received:	11/14/24
Client Sample ID:	PH2-BOT-004		SDG No.:	P4860
Lab Sample ID:	P4860-05		Matrix:	SOIL
Analytical Method:	SW8270		% Solid:	98.1
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
BF140579.D	1	11/16/24 08:51	11/22/24 15:58	PB165029

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\BF112224\
Data File : BF140579.D
Acq On : 22 Nov 2024 15:58
Operator : RC/JU
Sample : P4860-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-004

Quant Time: Nov 22 16:39:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	90927	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	332795	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	173346	20.000	ng	-0.01
64) Phenanthrene-d10	11.398	188	323538	20.000	ng	0.00
76) Chrysene-d12	14.045	240	178379	20.000	ng	0.00
86) Perylene-d12	15.533	264	173467	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	465203	87.293	ng	0.00
7) Phenol-d6	6.504	99	595143	84.474	ng	-0.01
23) Nitrobenzene-d5	7.433	82	386935	59.472	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	152697	82.363	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	740960	63.687	ng	-0.01
79) Terphenyl-d14	12.980	244	728599	63.602	ng	-0.01

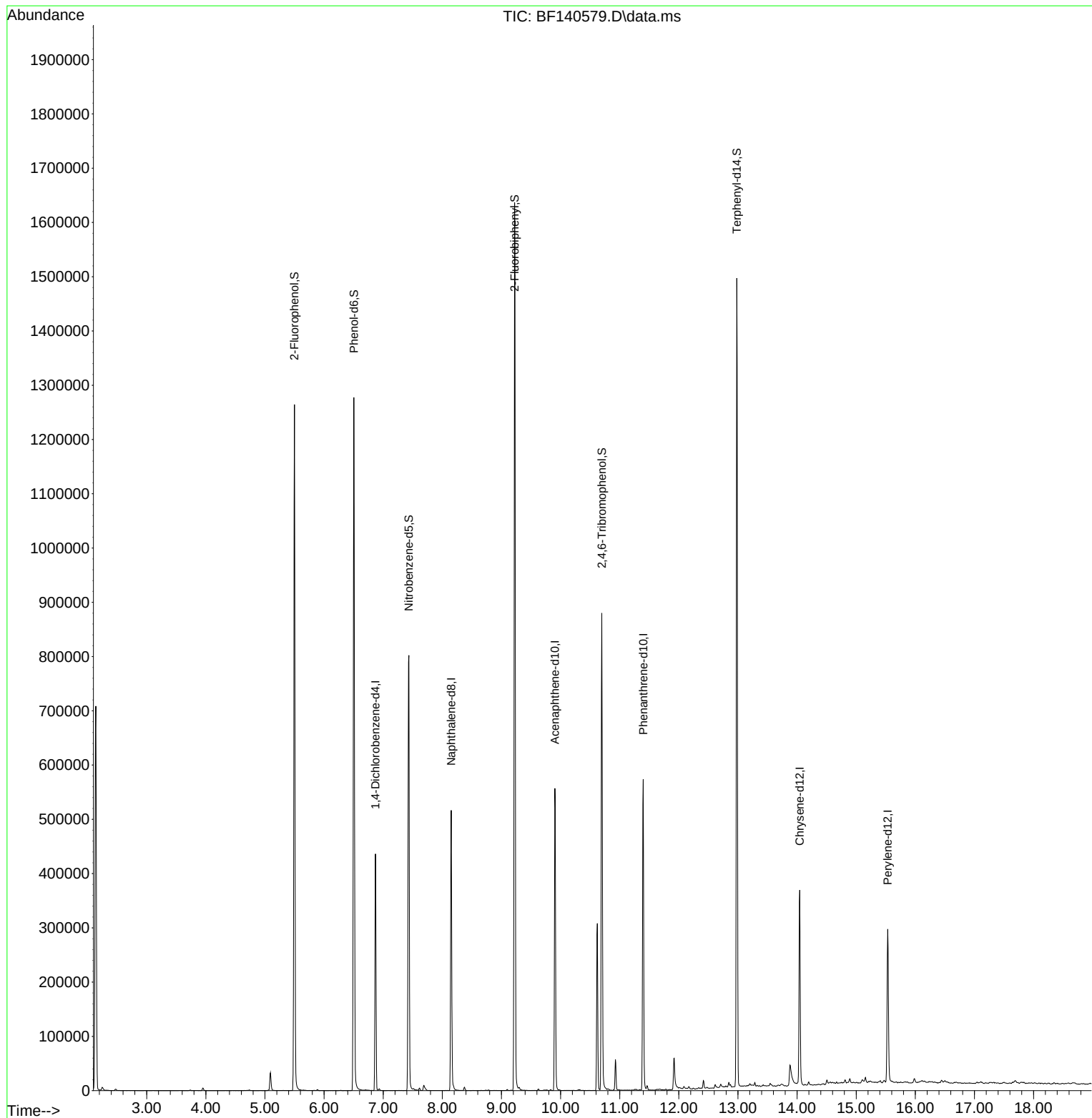
Target Compounds	Qvalue

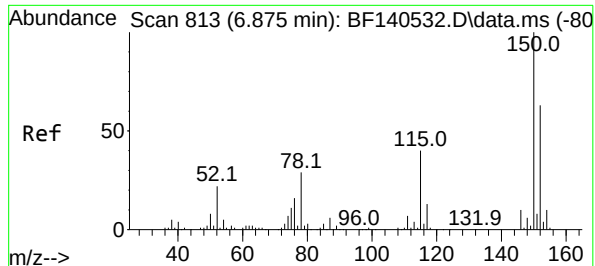
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140579.D
Acq On : 22 Nov 2024 15:58
Operator : RC/JU
Sample : P4860-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-004

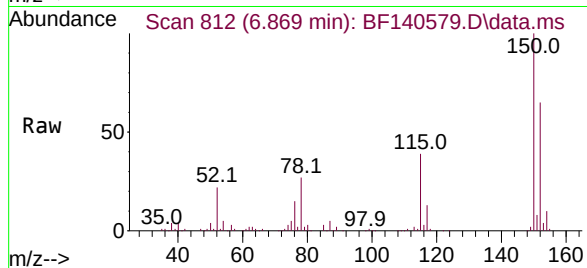
Quant Time: Nov 22 16:39:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



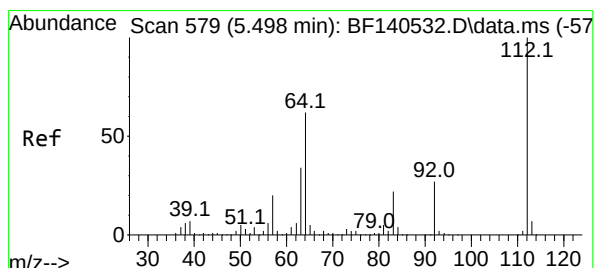
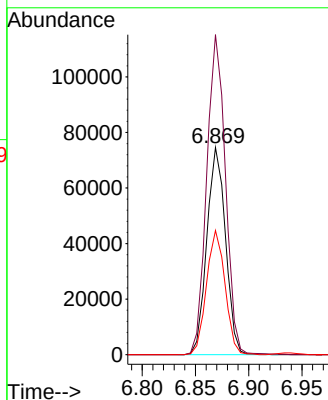
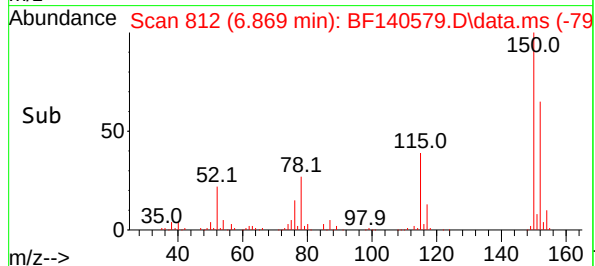


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 813
Delta R.T. -0.006 min
Lab File: BF140579.D
Acq: 22 Nov 2024 15:58

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-004

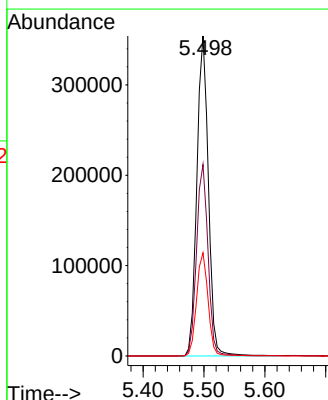
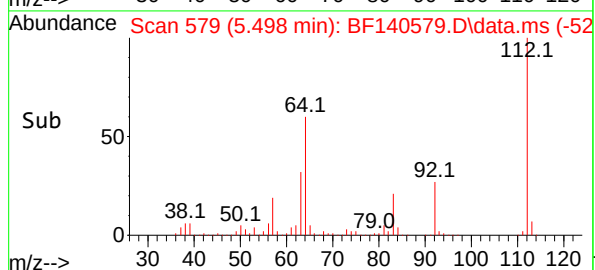
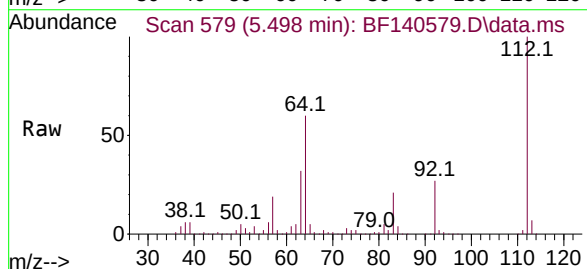


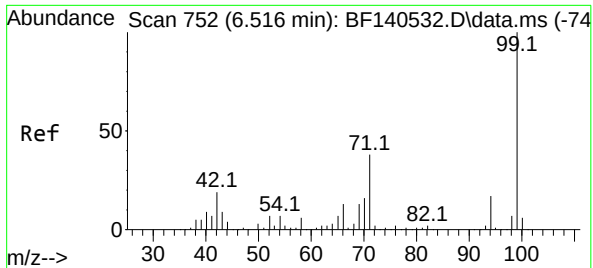
Tgt Ion:152 Resp: 90927
Ion Ratio Lower Upper
152 100
150 154.4 128.5 192.7
115 59.9 50.2 75.4



#5
2-Fluorophenol
Concen: 87.293 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF140579.D
Acq: 22 Nov 2024 15:58

Tgt Ion:112 Resp: 465203
Ion Ratio Lower Upper
112 100
64 59.9 49.2 73.8
63 32.2 27.0 40.4

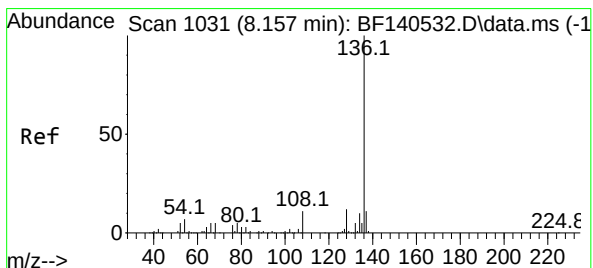
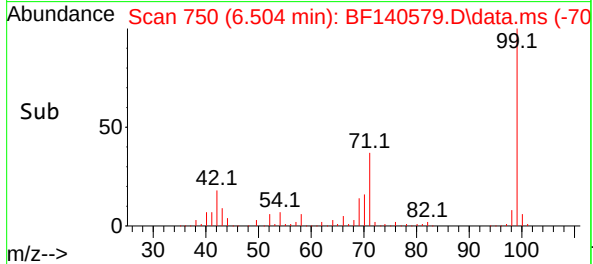
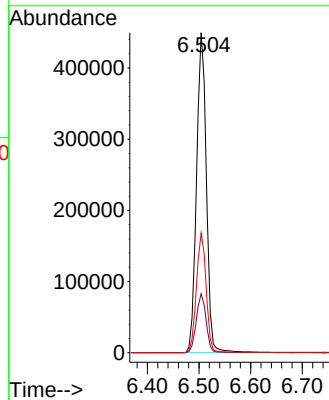
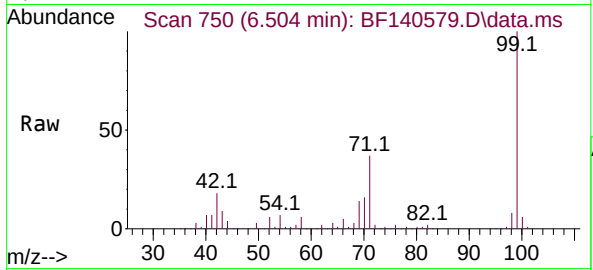




#7
Phenol-d6
Concen: 84.474 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF140579.D
Acq: 22 Nov 2024 15:58

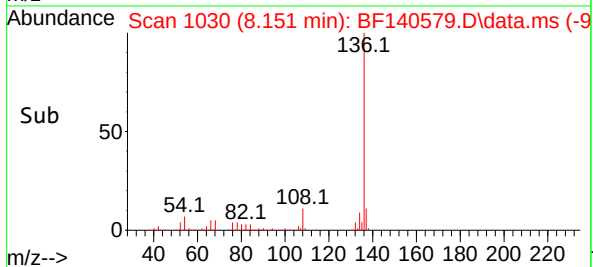
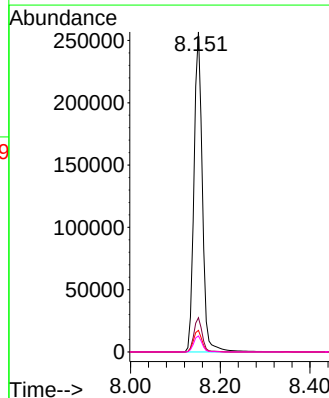
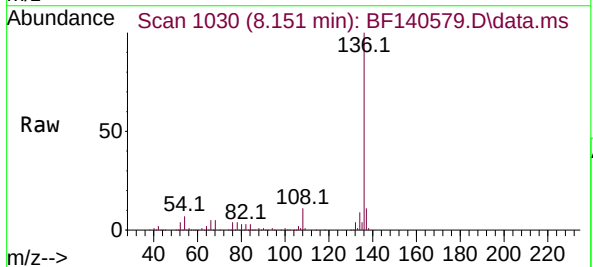
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-004

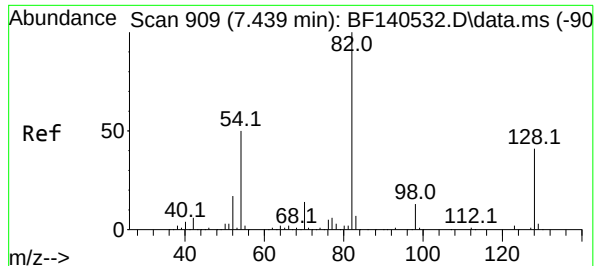
Tgt Ion: 99 Resp: 595143
Ion Ratio Lower Upper
99 100
42 18.4 15.4 23.0
71 37.5 30.6 46.0



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140579.D
Acq: 22 Nov 2024 15:58

Tgt Ion: 136 Resp: 332795
Ion Ratio Lower Upper
136 100
137 10.7 8.6 13.0
54 6.7 5.8 8.8
68 5.0 4.1 6.1





#23

Nitrobenzene-d5

Concen: 59.472 ng

RT: 7.433 min Scan# 90

Delta R.T. -0.006 min

Lab File: BF140579.D

Acq: 22 Nov 2024 15:58

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-004

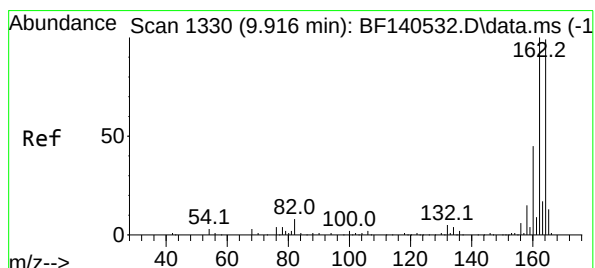
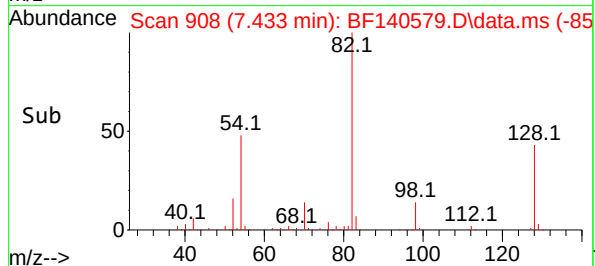
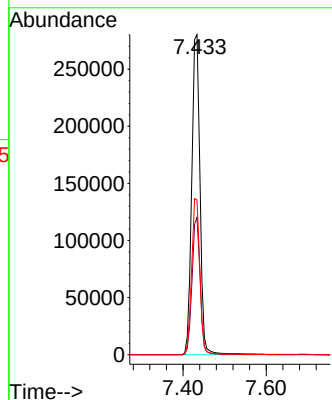
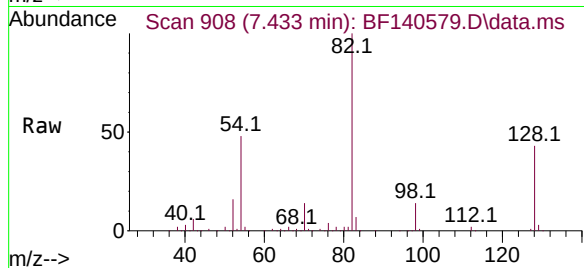
Tgt Ion: 82 Resp: 386935

Ion Ratio Lower Upper

82 100

128 42.9 33.0 49.4

54 48.4 39.5 59.3



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.904 min Scan# 1328

Delta R.T. -0.012 min

Lab File: BF140579.D

Acq: 22 Nov 2024 15:58

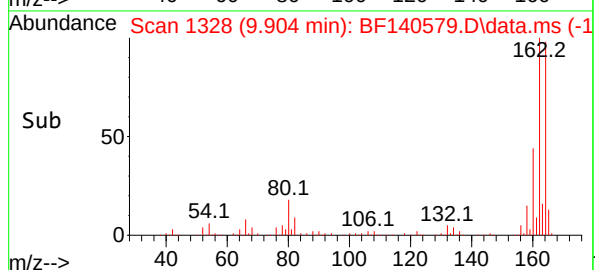
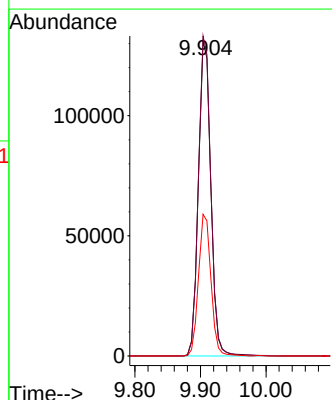
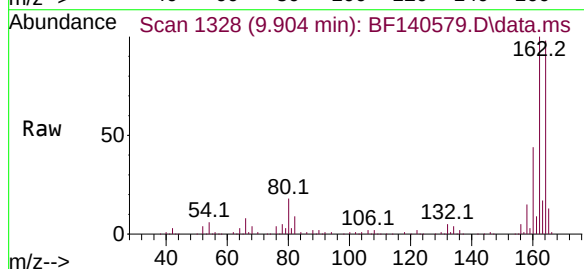
Tgt Ion:164 Resp: 173346

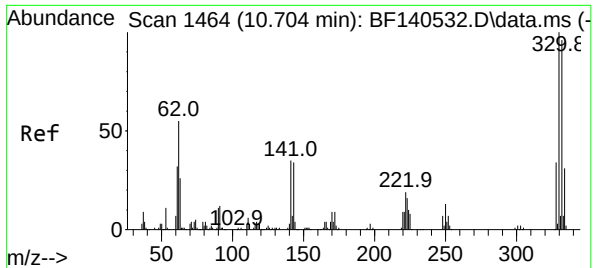
Ion Ratio Lower Upper

164 100

162 101.7 80.6 120.8

160 45.0 36.2 54.4





#42

2,4,6-Tribromophenol

Concen: 82.363 ng

RT: 10.698 min Scan# 1463

Delta R.T. -0.006 min

Lab File: BF140579.D

Acq: 22 Nov 2024 15:58

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-004

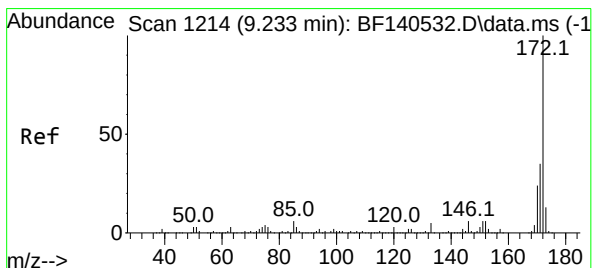
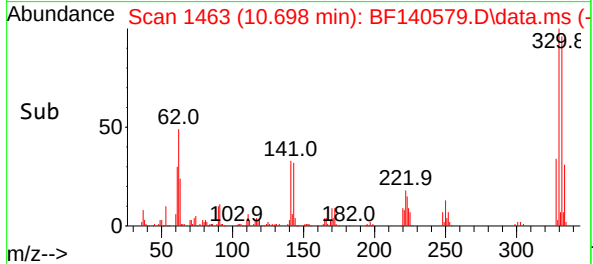
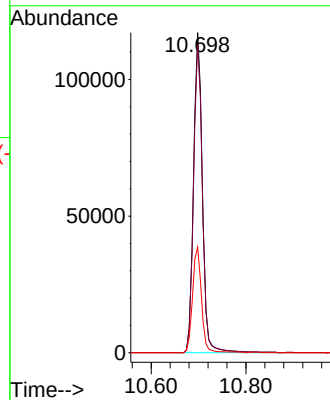
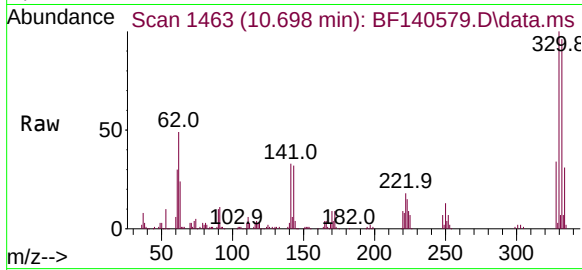
Tgt Ion:330 Resp: 152697

Ion Ratio Lower Upper

330 100

332 96.2 76.9 115.3

141 33.3 26.7 40.1



#45

2-Fluorobiphenyl

Concen: 63.687 ng

RT: 9.222 min Scan# 1212

Delta R.T. -0.012 min

Lab File: BF140579.D

Acq: 22 Nov 2024 15:58

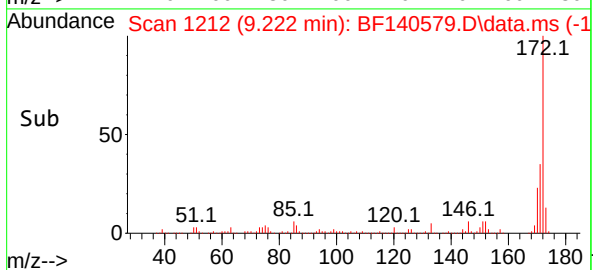
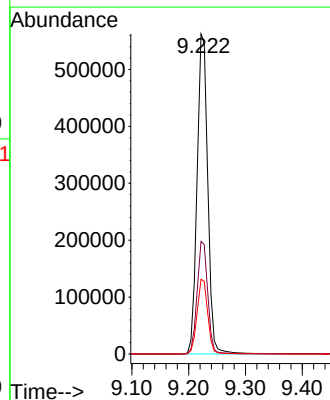
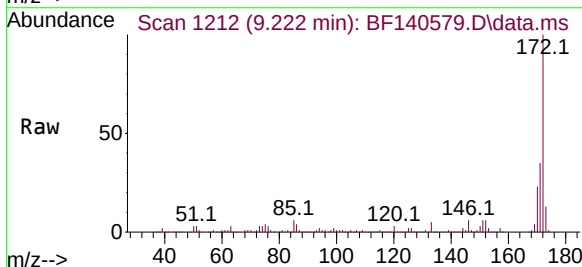
Tgt Ion:172 Resp: 740960

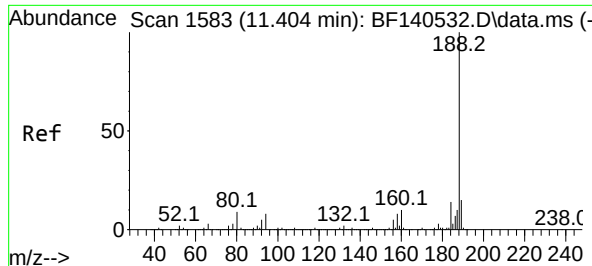
Ion Ratio Lower Upper

172 100

171 35.1 28.4 42.6

170 23.4 19.0 28.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.398 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF140579.D

Acq: 22 Nov 2024 15:58

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-004

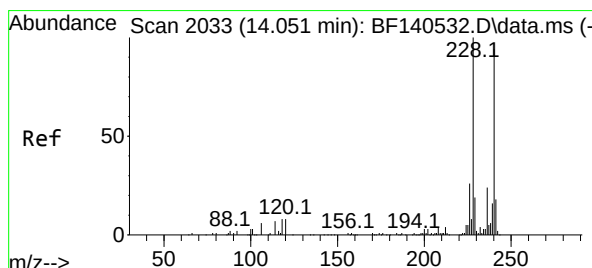
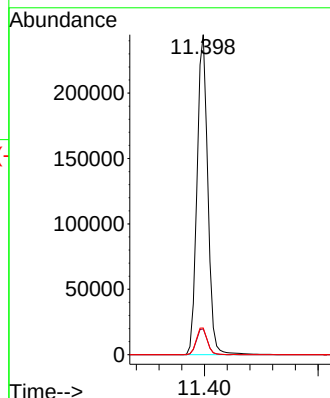
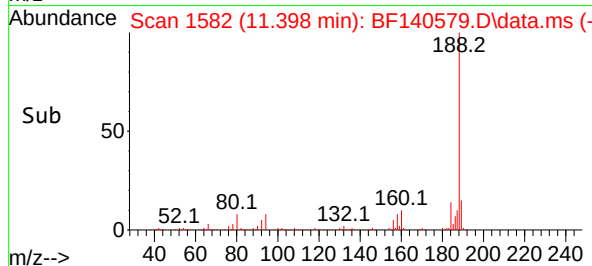
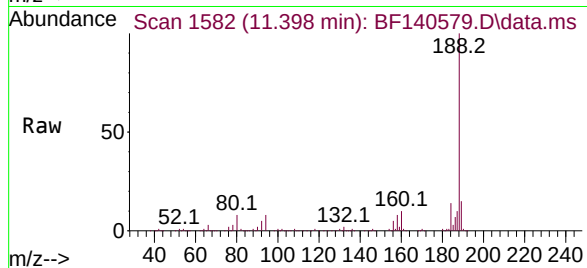
Tgt Ion:188 Resp: 323538

Ion Ratio Lower Upper

188 100

94 8.1 6.4 9.6

80 8.4 6.9 10.3



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.045 min Scan# 2032

Delta R.T. -0.006 min

Lab File: BF140579.D

Acq: 22 Nov 2024 15:58

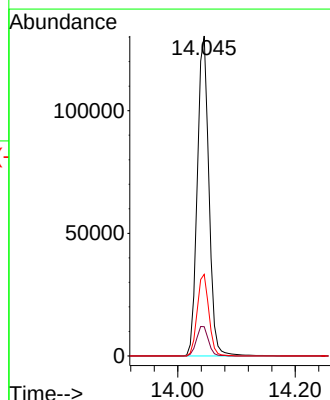
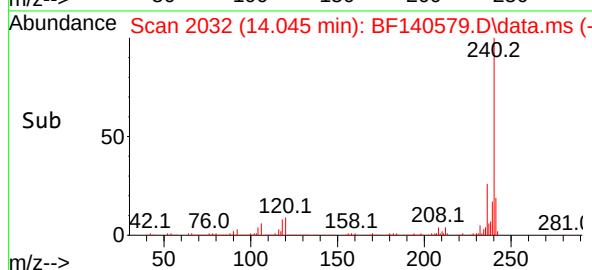
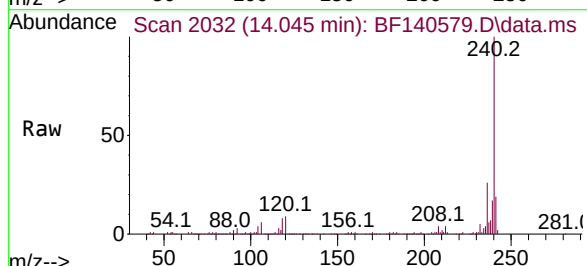
Tgt Ion:240 Resp: 178379

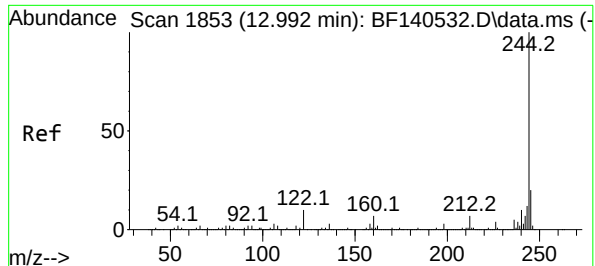
Ion Ratio Lower Upper

240 100

120 9.2 7.3 10.9

236 25.5 20.6 31.0





#79

Terphenyl-d14

Concen: 63.602 ng

RT: 12.980 min Scan# 1851

Delta R.T. -0.012 min

Lab File: BF140579.D

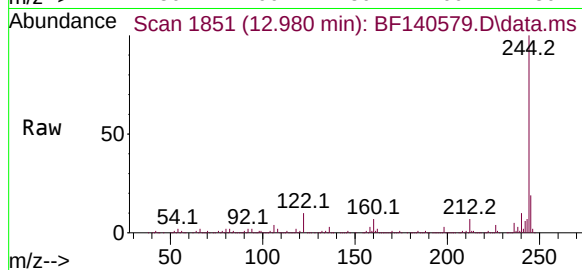
Acq: 22 Nov 2024 15:58

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-004



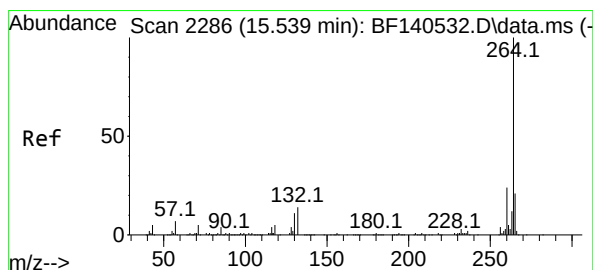
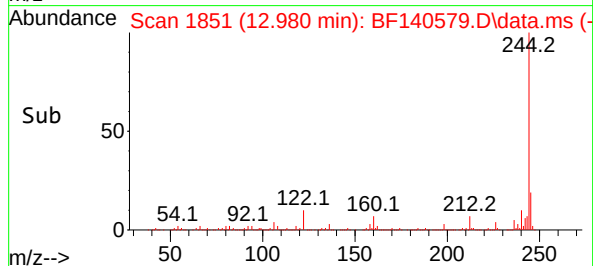
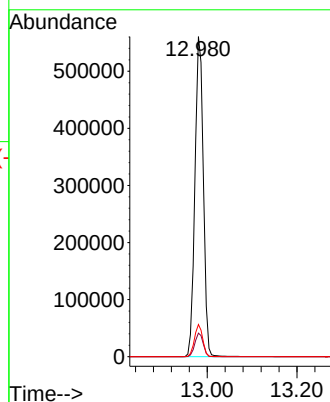
Tgt Ion:244 Resp: 728599

Ion Ratio Lower Upper

244 100

212 7.4 5.8 8.8

122 10.1 8.0 12.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.533 min Scan# 2285

Delta R.T. -0.006 min

Lab File: BF140579.D

Acq: 22 Nov 2024 15:58

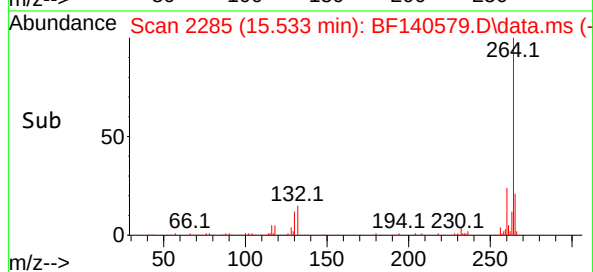
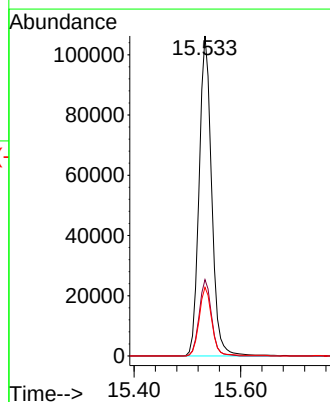
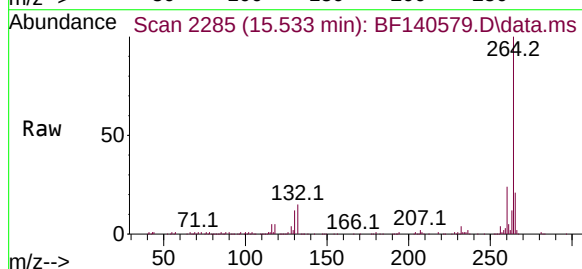
Tgt Ion:264 Resp: 173467

Ion Ratio Lower Upper

264 100

260 23.9 19.0 28.6

265 21.5 16.6 25.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
 Data File : BF140579.D
 Acq On : 22 Nov 2024 15:58
 Operator : RC/JU
 Sample : P4860-05
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PH2-BOT-004

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-BF112124.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140579.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.140	3	8	20	rVB	707599	1103213	52.21%	7.313%
2	5.092	505	510	528	rVB	32758	51929	2.46%	0.344%
3	5.498	573	579	595	rBV	1264340	1653146	78.23%	10.959%
4	6.504	744	750	775	rBV	1277387	1701092	80.50%	11.277%
5	6.869	807	812	817	rBV	436223	527129	24.95%	3.494%
6	7.433	902	908	918	rBV	802147	1091626	51.66%	7.237%
7	8.151	1025	1030	1043	rBV	516142	661196	31.29%	4.383%
8	9.222	1207	1212	1223	rBV	1636169	2113056	100.00%	14.008%
9	9.904	1323	1328	1338	rBV	556974	727216	34.42%	4.821%
10	10.622	1445	1450	1458	rBV	307943	393829	18.64%	2.611%
11	10.698	1458	1463	1477	rVV	878509	1139149	53.91%	7.552%
12	10.927	1498	1502	1510	rVB	56202	69995	3.31%	0.464%
13	11.398	1576	1582	1590	rBV	572404	756935	35.82%	5.018%
14	11.921	1666	1671	1683	rBV	57751	105011	4.97%	0.696%
15	12.980	1846	1851	1863	rBV	1489582	1916845	90.71%	12.707%
16	13.880	1999	2004	2020	rBV2	37395	110142	5.21%	0.730%
17	14.045	2026	2032	2044	rVB	359717	502374	23.77%	3.330%
18	15.533	2279	2285	2303	rVB	282440	460815	21.81%	3.055%

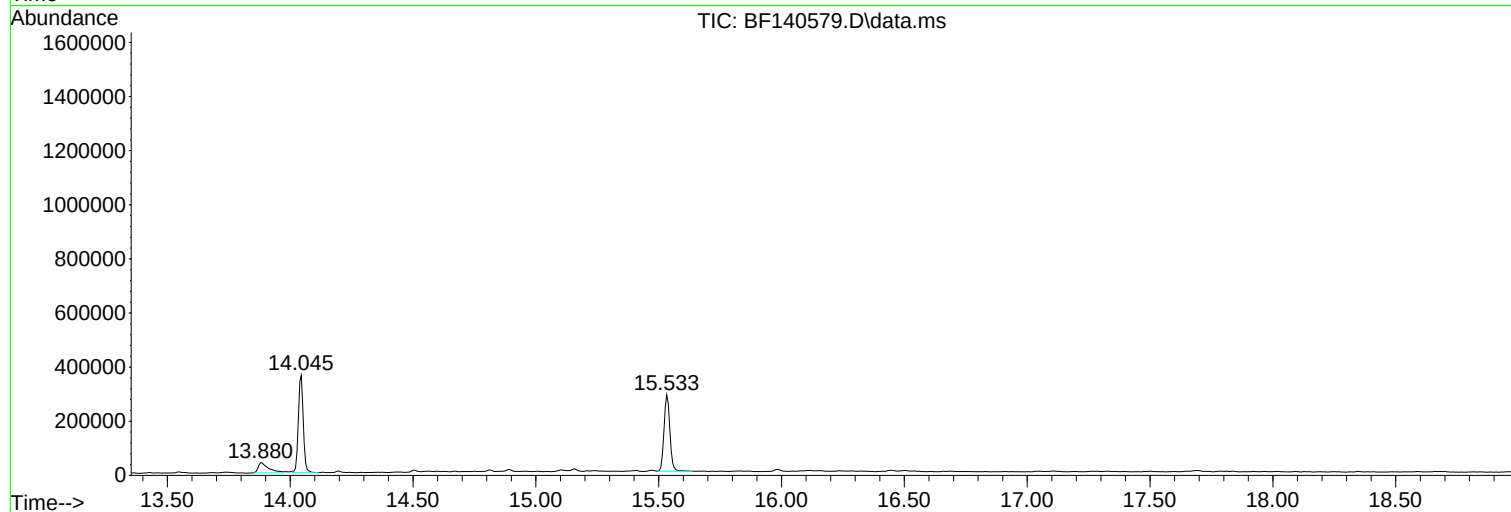
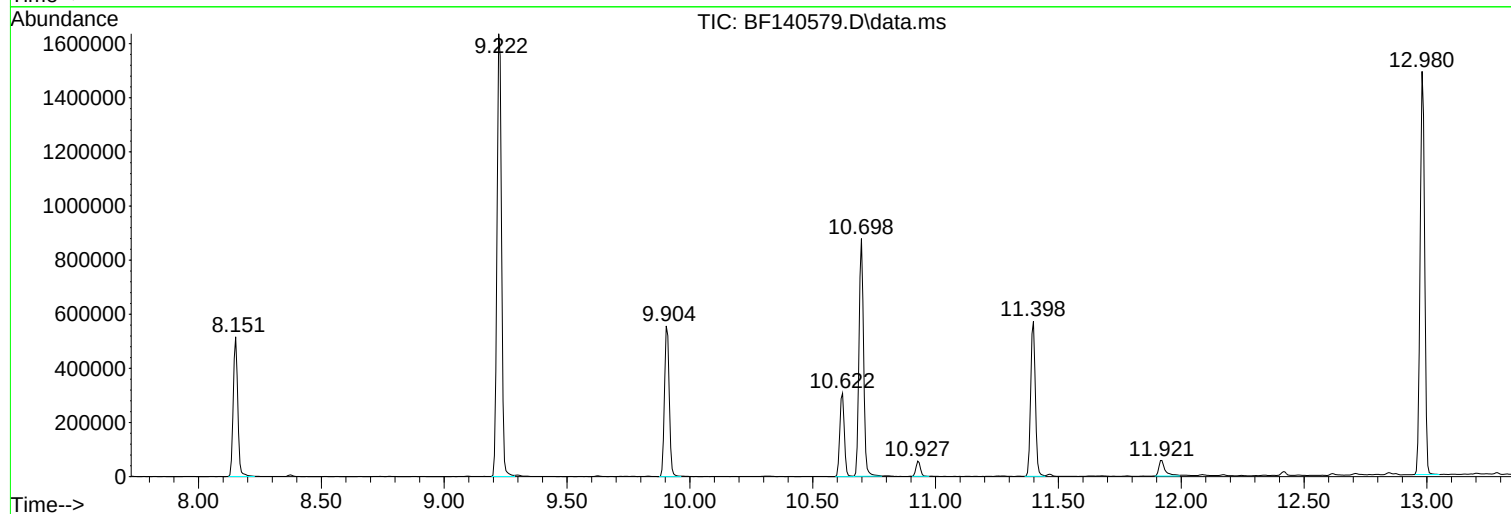
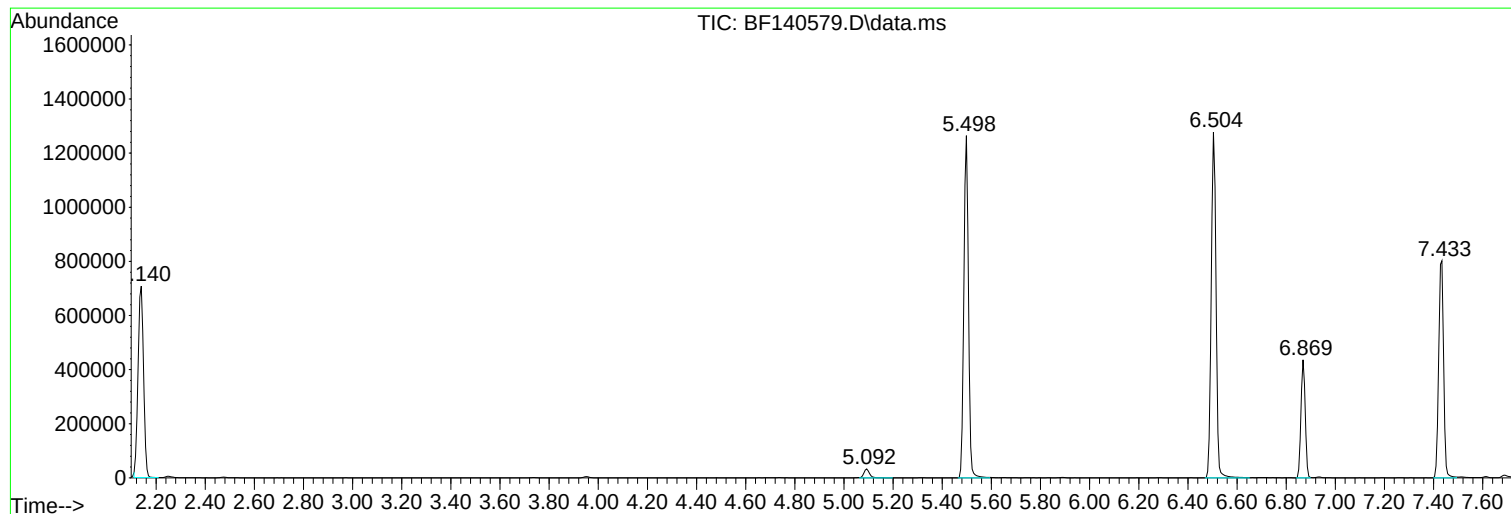
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Data File : BF140579.D
Acq On : 22 Nov 2024 15:58
Operator : RC/JU
Sample : P4860-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-004

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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\BF112224\
Data File : BF140579.D
Acq On : 22 Nov 2024 15:58
Operator : RC/JU
Sample : P4860-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-004

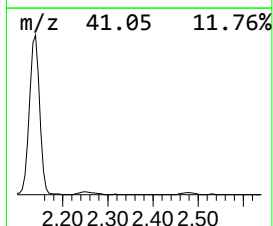
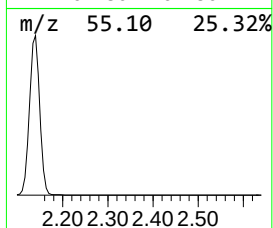
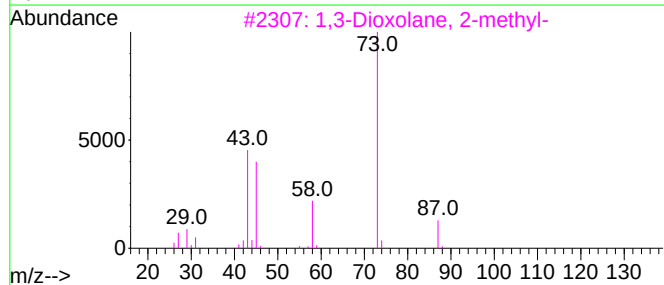
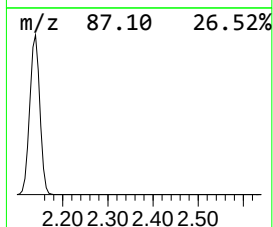
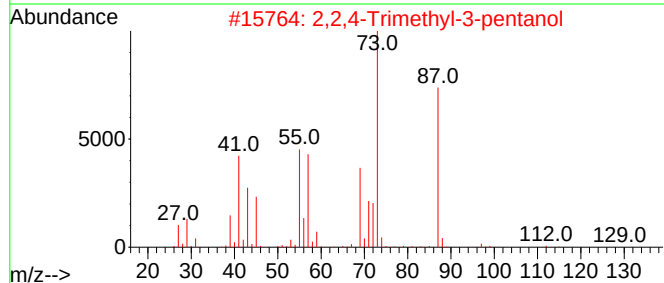
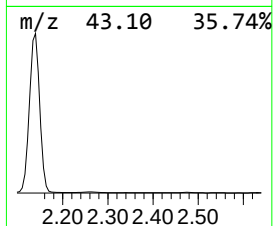
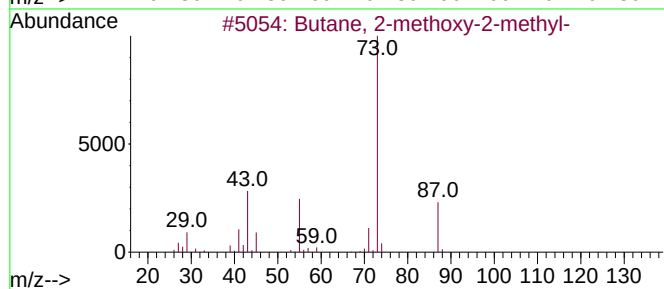
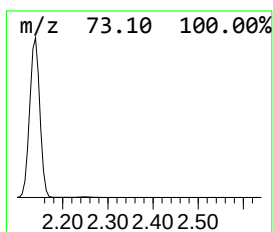
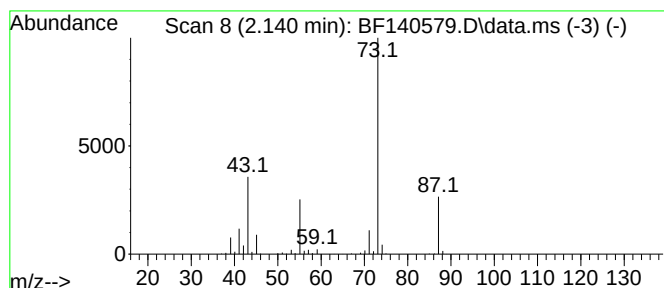
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.140	41.86 ng	1103210	1,4-Dichlorobenzene-d4	6.869

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2		2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3		1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4		Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
5		Silane, tetramethyl-	88	C4H12Si	000075-76-3	17



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140579.D
Acq On : 22 Nov 2024 15:58
Operator : RC/JU
Sample : P4860-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-004

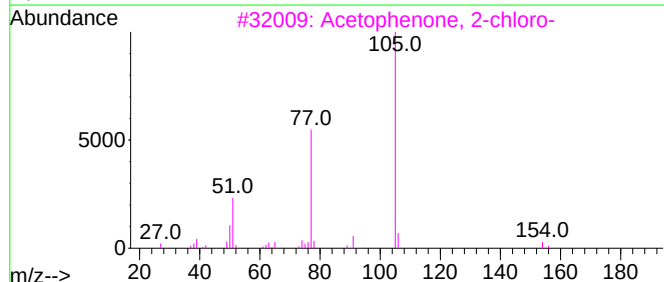
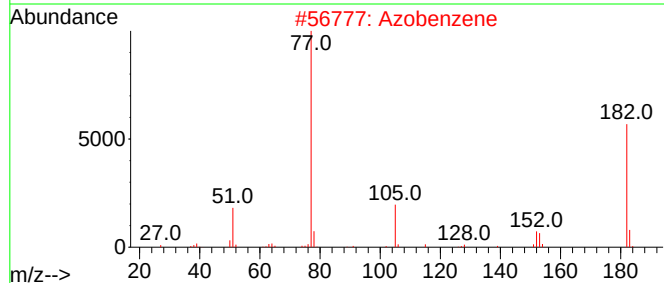
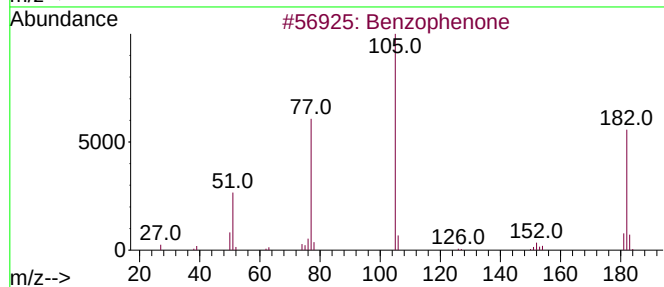
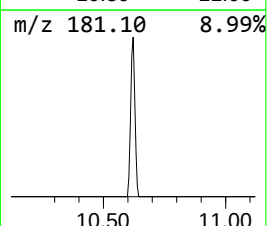
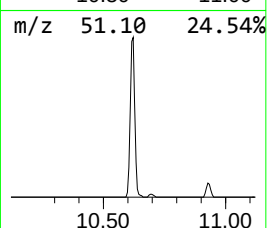
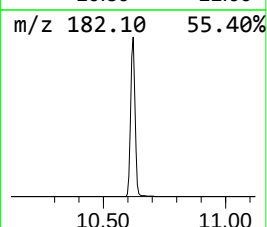
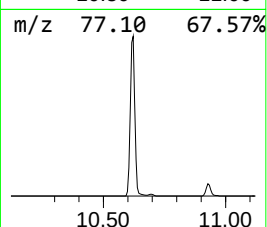
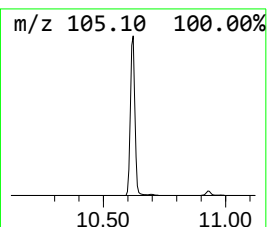
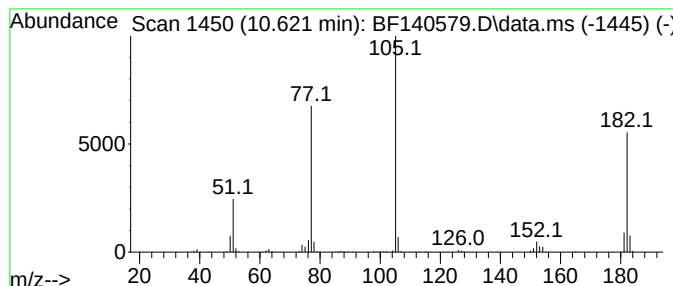
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.621	10.83 ng	393829	Acenaphthene-d10	9.904

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Azobenzene	182	C12H10N2	000103-33-3	64
3			Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	47
4			Benzeneacetic acid, .alpha.-oxo-...	164	C9H8O3	015206-55-0	47
5			Ethanone, 2,2,2-trifluoro-1-phenyl-	174	C8H5F3O	000434-45-7	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140579.D
Acq On : 22 Nov 2024 15:58
Operator : RC/JU
Sample : P4860-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-004

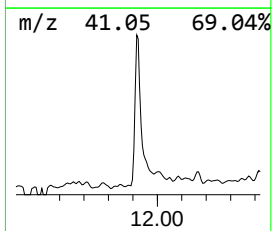
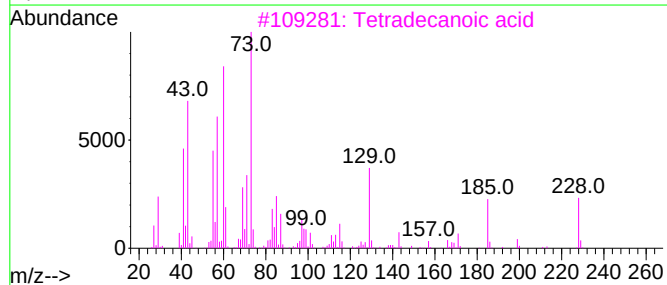
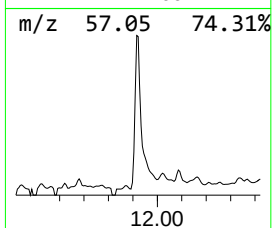
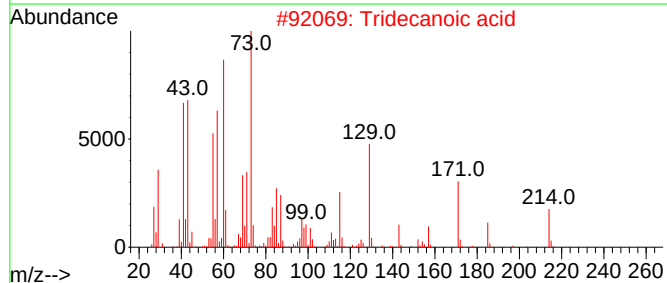
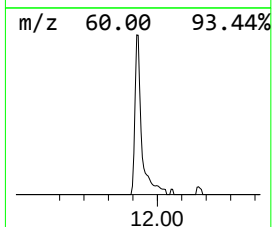
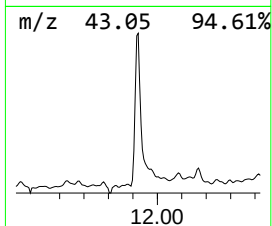
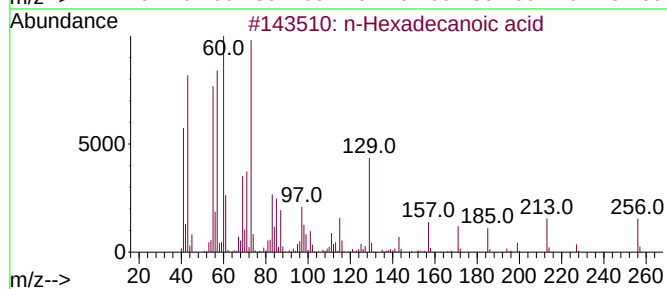
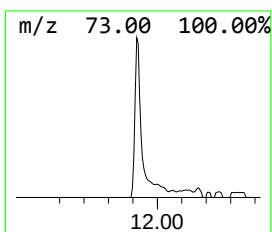
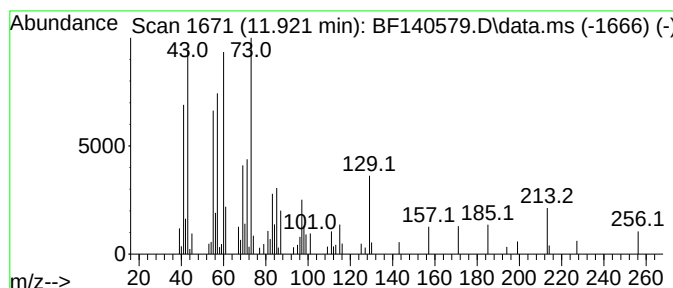
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.921	2.77 ng	105011	Phenanthrene-d10	11.398

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			n-Hexadecanoic acid	256	C16H32O2	000057-10-3	97
2			Tridecanoic acid	214	C13H26O2	000638-53-9	89
3			Tetradecanoic acid	228	C14H28O2	000544-63-8	80
4			Pentadecanoic acid	242	C15H30O2	001002-84-2	68
5			Oxalic acid, allyl hexadecyl ester	354	C21H38O4	1000309-24-4	20



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140579.D
Acq On : 22 Nov 2024 15:58
Operator : RC/JU
Sample : P4860-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

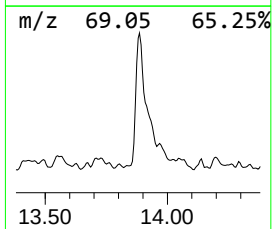
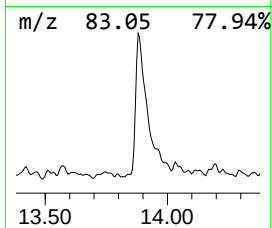
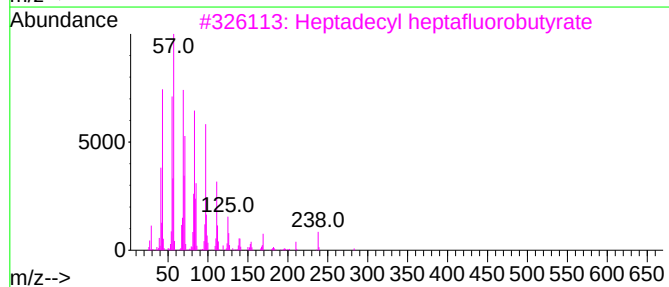
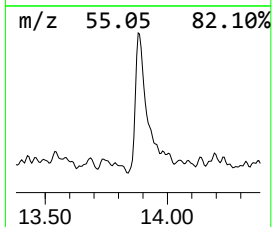
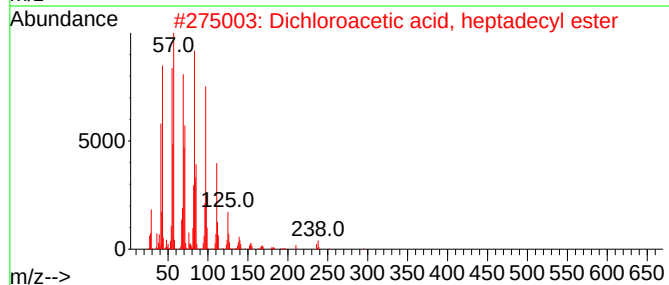
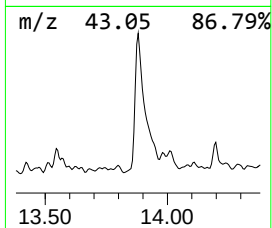
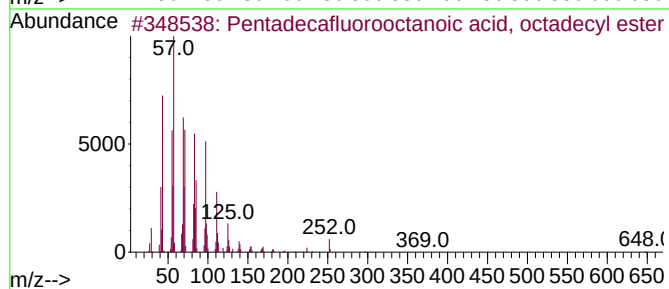
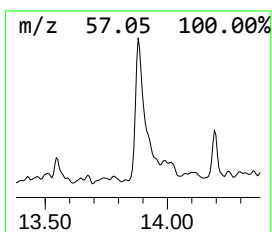
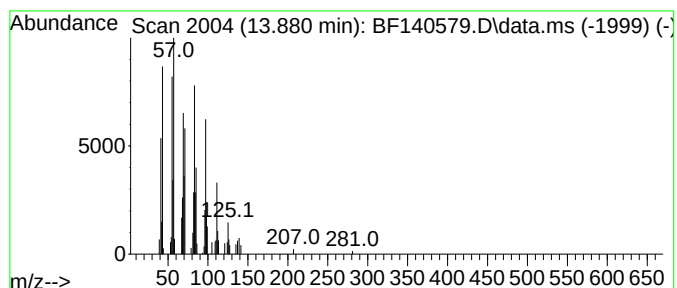
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-004

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Pentadecafluorooctanoic aci... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.880	4.38 ng	110142	Chrysene-d12	14.045	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecafluorooctanoic acid, octadecyl ester	666	C26H37F15O2	1000406-04-8	95
2	Dichloroacetic acid, heptadecyl ester	366	C19H36Cl2O2	1000282-98-2	95
3	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	93
4	Ethanol, 2-(tetradecyloxy)-	258	C16H34O2	002136-70-1	91
5	Nonadecyl pentafluoropropionate	430	C22H39F5O2	1000351-88-8	91



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140579.D
Acq On : 22 Nov 2024 15:58
Operator : RC/JU
Sample : P4860-05
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-004

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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
Butane, 2-metho...	2.140	41.9	ng	1103210	1	6.869	527129	20.0
Benzophenone	10.621	10.8	ng	393829	3	9.904	727216	20.0
n-Hexadecanoic ...	11.921	2.8	ng	105011	4	11.398	756935	20.0
Pentadecafluoro...	13.880	4.4	ng	110142	5	14.045	502374	20.0

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-009	SDG No.:	P4860
Lab Sample ID:	P4860-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	98.3
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
		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
BF140615.D	1	11/16/24 08:51	11/25/24 20:45	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	UQ	180	340	ug/Kg
108-95-2	Phenol	84.2	U	84.2	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	85.0	U	85.0	170	ug/Kg
95-57-8	2-Chlorophenol	84.8	U	84.8	170	ug/Kg
95-48-7	2-Methylphenol	81.8	U	81.8	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	92.3	U	92.3	170	ug/Kg
98-86-2	Acetophenone	88.2	U	88.2	170	ug/Kg
65794-96-9	3+4-Methylphenols	81.0	U	81.0	340	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.9	U	40.9	81.2	ug/Kg
67-72-1	Hexachloroethane	84.3	U	84.3	170	ug/Kg
98-95-3	Nitrobenzene	92.2	U	92.2	170	ug/Kg
78-59-1	Isophorone	85.9	U	85.9	170	ug/Kg
88-75-5	2-Nitrophenol	95.9	U	95.9	170	ug/Kg
105-67-9	2,4-Dimethylphenol	94.6	U	94.6	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	87.1	U	87.1	170	ug/Kg
120-83-2	2,4-Dichlorophenol	76.7	U	76.7	170	ug/Kg
91-20-3	Naphthalene	83.9	U	83.9	170	ug/Kg
106-47-8	4-Chloroaniline	83.9	UQ	83.9	170	ug/Kg
87-68-3	Hexachlorobutadiene	84.6	U	84.6	170	ug/Kg
105-60-2	Caprolactam	88.1	U	88.1	340	ug/Kg
59-50-7	4-Chloro-3-methylphenol	78.7	U	78.7	170	ug/Kg
91-57-6	2-Methylnaphthalene	83.8	U	83.8	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	UQ	160	340	ug/Kg
88-06-2	2,4,6-Trichlorophenol	72.5	U	72.5	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	75.1	U	75.1	170	ug/Kg
92-52-4	1,1-Biphenyl	88.7	U	88.7	170	ug/Kg
91-58-7	2-Chloronaphthalene	84.6	U	84.6	170	ug/Kg
88-74-4	2-Nitroaniline	96.5	U	96.5	170	ug/Kg
131-11-3	Dimethylphthalate	82.9	U	82.9	170	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-009	SDG No.:	P4860
Lab Sample ID:	P4860-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	98.3
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
BF140615.D	1	11/16/24 08:51	11/25/24 20:45	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	87.8	U	87.8	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	84.5	U	84.5	170	ug/Kg
99-09-2	3-Nitroaniline	90.6	UQ	90.6	170	ug/Kg
83-32-9	Acenaphthene	82.3	U	82.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	340	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	340	ug/Kg
132-64-9	Dibenzofuran	85.7	U	85.7	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	87.5	U	87.5	170	ug/Kg
84-66-2	Diethylphthalate	81.3	U	81.3	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	86.9	U	86.9	170	ug/Kg
86-73-7	Fluorene	86.8	U	86.8	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	340	ug/Kg
86-30-6	n-Nitrosodiphenylamine	82.8	U	82.8	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	80.1	U	80.1	170	ug/Kg
118-74-1	Hexachlorobenzene	86.3	U	86.3	170	ug/Kg
1912-24-9	Atrazine	92.8	U	92.8	170	ug/Kg
87-86-5	Pentachlorophenol	78.5	U	78.5	340	ug/Kg
85-01-8	Phenanthrene	85.3	U	85.3	170	ug/Kg
120-12-7	Anthracene	85.7	U	85.7	170	ug/Kg
86-74-8	Carbazole	81.5	U	81.5	170	ug/Kg
84-74-2	Di-n-butylphthalate	85.6	U	85.6	170	ug/Kg
206-44-0	Fluoranthene	82.9	U	82.9	170	ug/Kg
129-00-0	Pyrene	84.3	U	84.3	170	ug/Kg
85-68-7	Butylbenzylphthalate	98.3	U	98.3	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	100	UQ	100	340	ug/Kg
56-55-3	Benzo(a)anthracene	81.9	U	81.9	170	ug/Kg
218-01-9	Chrysene	80.7	U	80.7	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	92.4	U	92.4	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	340	ug/Kg
205-99-2	Benzo(b)fluoranthene	82.3	U	82.3	170	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-009	SDG No.:	P4860
Lab Sample ID:	P4860-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	98.3
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
BF140615.D	1	11/16/24 08:51	11/25/24 20:45	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	83.9	U	83.9	170	ug/Kg
50-32-8	Benzo(a)pyrene	94.4	U	94.4	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	79.3	U	79.3	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	82.4	U	82.4	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	81.3	U	81.3	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	88.1	U	88.1	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	75.8	U	75.8	170	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	86.9		30 (18) - 130 (112)	58%	SPK: 150
13127-88-3	Phenol-d6	87.6		30 (15) - 130 (107)	58%	SPK: 150
4165-60-0	Nitrobenzene-d5	60.1		30 (18) - 130 (107)	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	62.8		30 (20) - 130 (109)	63%	SPK: 100
118-79-6	2,4,6-Tribromophenol	79.0		30 (10) - 130 (116)	53%	SPK: 150
1718-51-0	Terphenyl-d14	60.9		30 (10) - 130 (105)	61%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	56300	6.869
1146-65-2	Naphthalene-d8	212000	8.151
15067-26-2	Acenaphthene-d10	115000	9.904
1517-22-2	Phenanthrene-d10	214000	11.392
1719-03-5	Chrysene-d12	142000	14.045
1520-96-3	Perylene-d12	130000	15.539

TENTATIVE IDENTIFIED COMPOUNDS

000119-61-9	Benzophenone	400	J	10.6	ug/Kg
000947-19-3	Methanone, (1-hydroxycyclohexyl)ph	70.1	J	10.9	ug/Kg
036653-82-4	1-Hexadecanol	120	J	13.9	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-009	SDG No.:	P4860
Lab Sample ID:	P4860-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	98.3
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
BF140615.D	1	11/16/24 08:51	11/25/24 20:45	PB165029

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\BF112524\
Data File : BF140615.D
Acq On : 25 Nov 2024 20:45
Operator : RC/JU
Sample : P4860-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-009

Quant Time: Nov 26 00:10:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	56272	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	212229	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	114630	20.000	ng	-0.01
64) Phenanthrene-d10	11.392	188	214306	20.000	ng	-0.01
76) Chrysene-d12	14.045	240	141699	20.000	ng	0.00
86) Perylene-d12	15.539	264	130450	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	286741	86.942	ng	0.00
7) Phenol-d6	6.504	99	381998	87.612	ng	-0.01
23) Nitrobenzene-d5	7.428	82	249525	60.139	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	96841	78.991	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	483489	62.843	ng	-0.01
79) Terphenyl-d14	12.980	244	554437	60.927	ng	-0.01

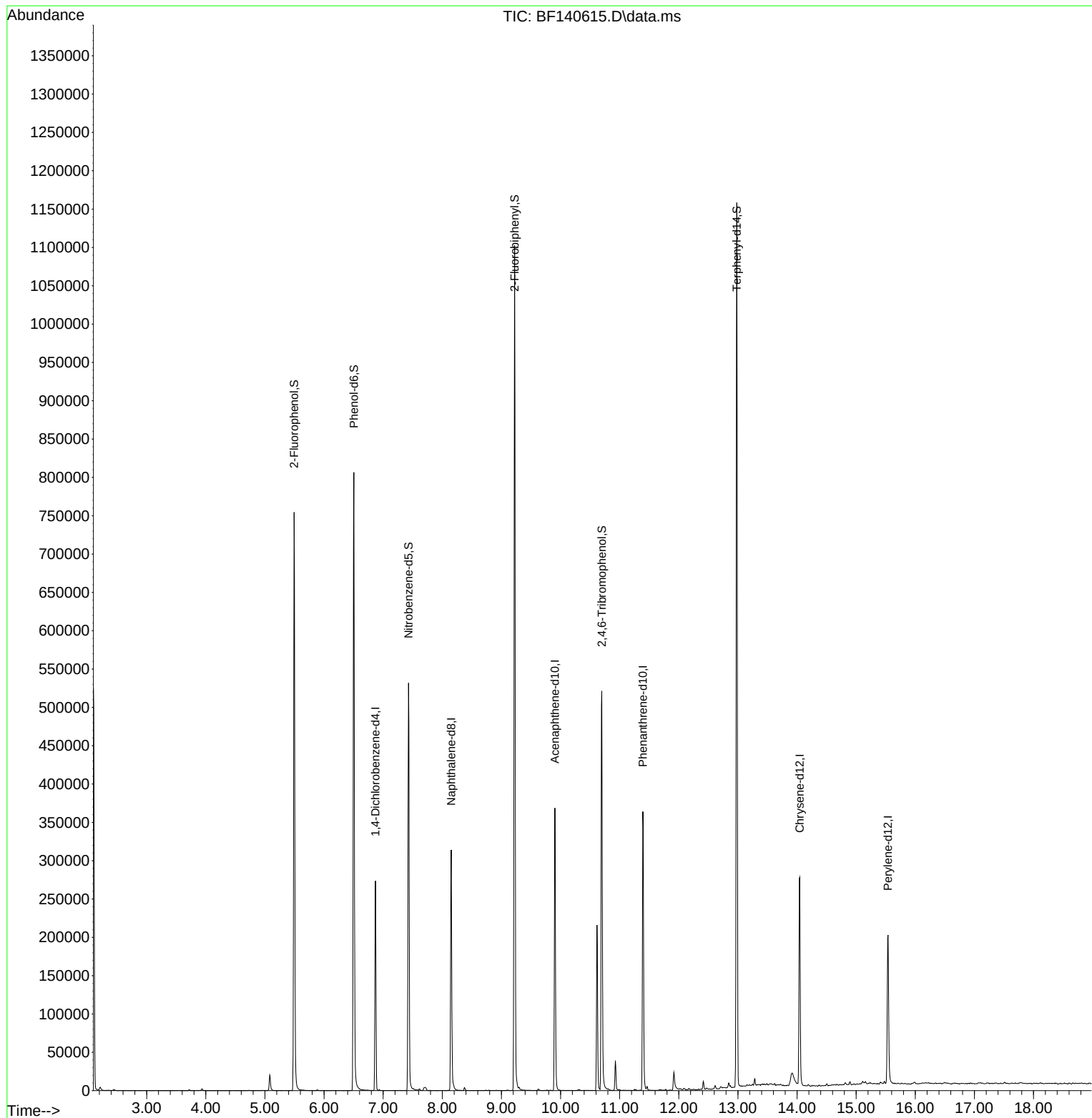
Target Compounds	Qvalue

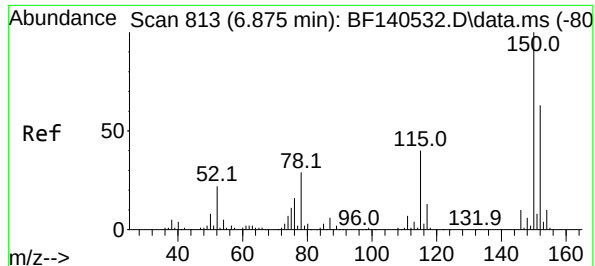
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140615.D
Acq On : 25 Nov 2024 20:45
Operator : RC/JU
Sample : P4860-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-009

Quant Time: Nov 26 00:10:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

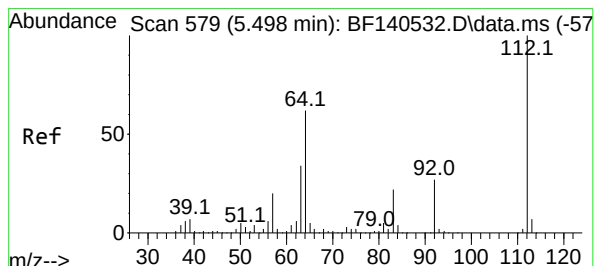
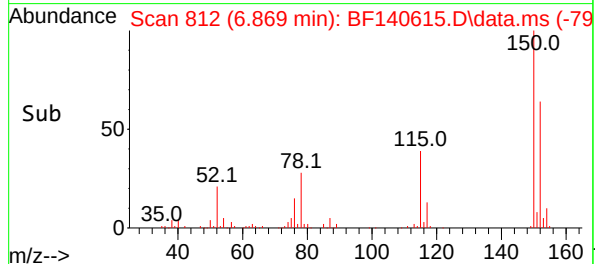
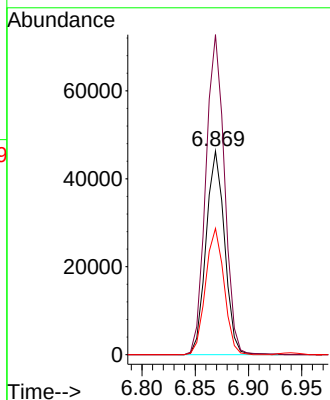
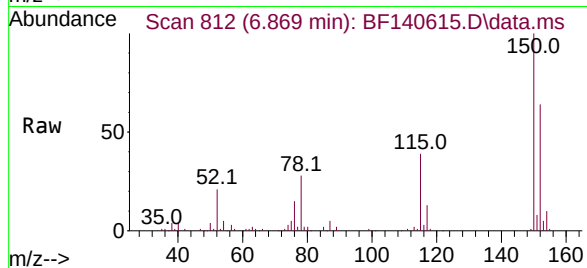




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 813
Delta R.T. -0.006 min
Lab File: BF140615.D
Acq: 25 Nov 2024 20:45

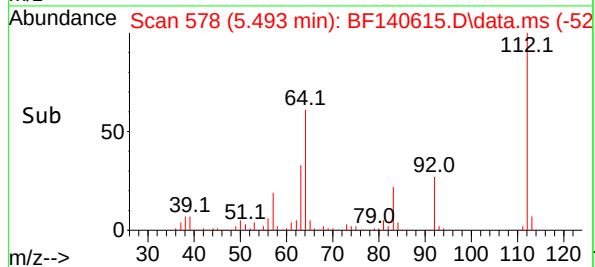
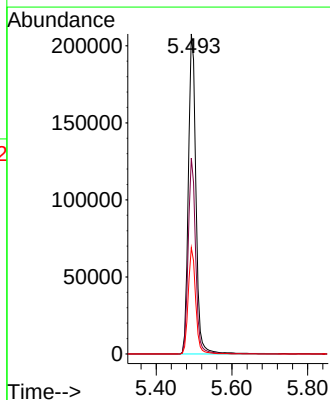
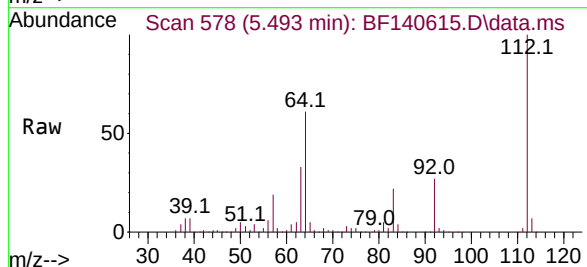
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-009

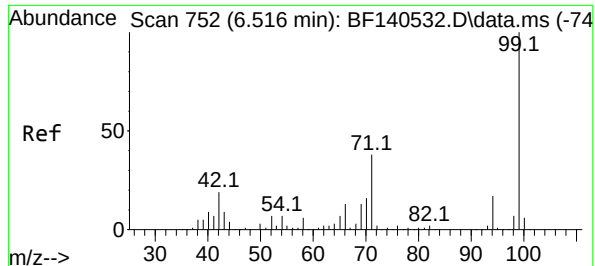
Tgt Ion:152 Resp: 56272
Ion Ratio Lower Upper
152 100
150 157.2 128.5 192.7
115 62.0 50.2 75.4



#5
2-Fluorophenol
Concen: 86.942 ng
RT: 5.493 min Scan# 578
Delta R.T. -0.006 min
Lab File: BF140615.D
Acq: 25 Nov 2024 20:45

Tgt Ion:112 Resp: 286741
Ion Ratio Lower Upper
112 100
64 61.2 49.2 73.8
63 33.2 27.0 40.4

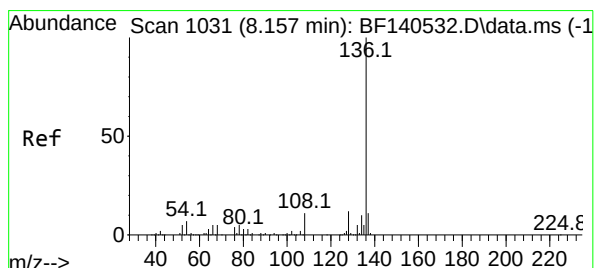
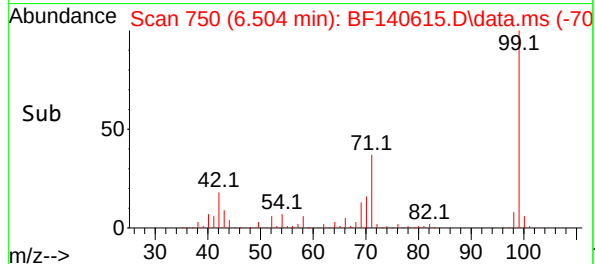
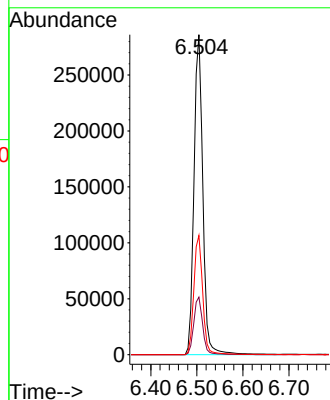
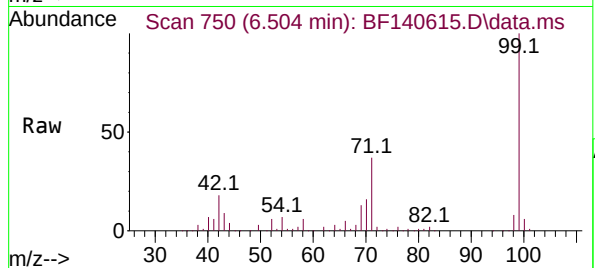




#7
Phenol-d6
Concen: 87.612 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF140615.D
Acq: 25 Nov 2024 20:45

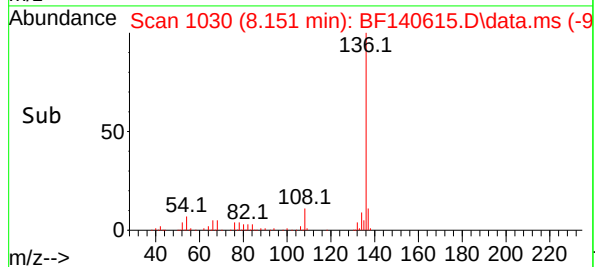
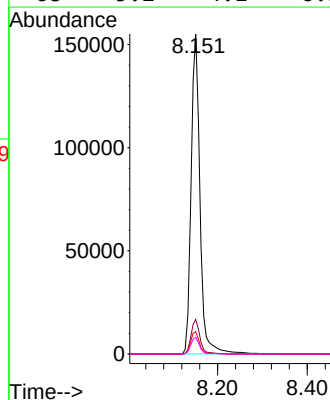
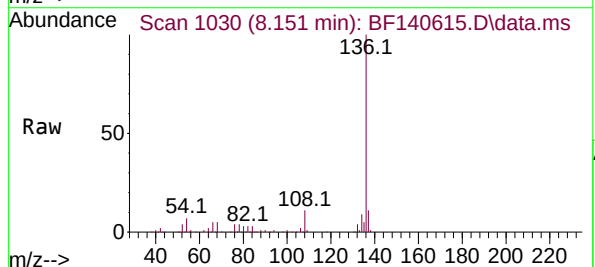
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-009

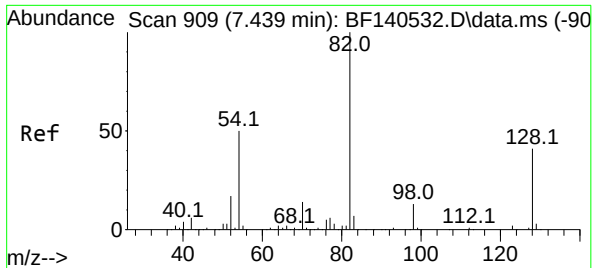
Tgt Ion: 99 Resp: 381998
Ion Ratio Lower Upper
99 100
42 18.0 15.4 23.0
71 37.3 30.6 46.0



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140615.D
Acq: 25 Nov 2024 20:45

Tgt Ion: 136 Resp: 212229
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 6.9 5.8 8.8
68 5.2 4.1 6.1





#23

Nitrobenzene-d5

Concen: 60.139 ng

RT: 7.428 min Scan# 90

Delta R.T. -0.012 min

Lab File: BF140615.D

Acq: 25 Nov 2024 20:45

Instrument :

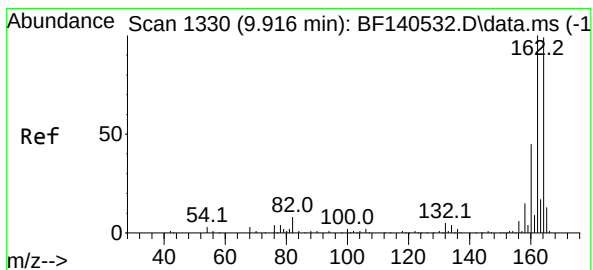
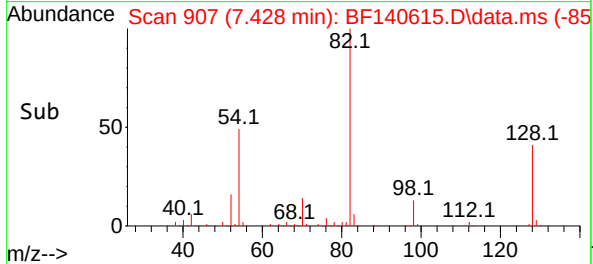
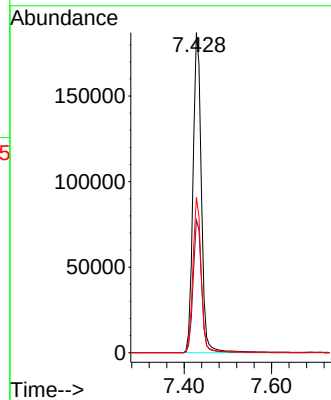
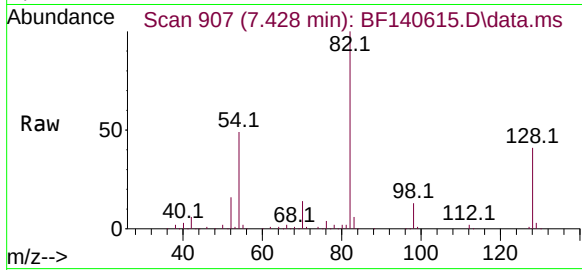
BNA_F

ClientSampleId :

PH2-BOT-009

Tgt Ion: 82 Resp: 249525

Ion	Ratio	Lower	Upper
82	100		
128	41.4	33.0	49.4
54	48.5	39.5	59.3



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.904 min Scan# 1328

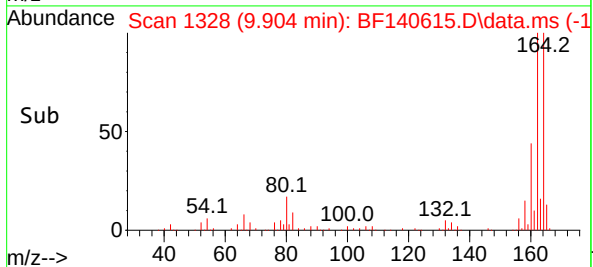
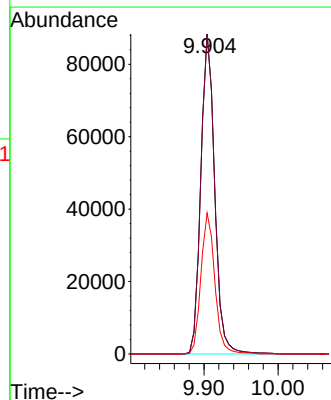
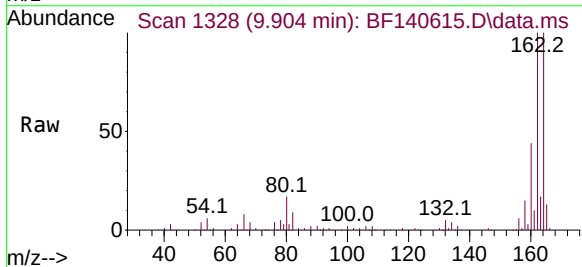
Delta R.T. -0.012 min

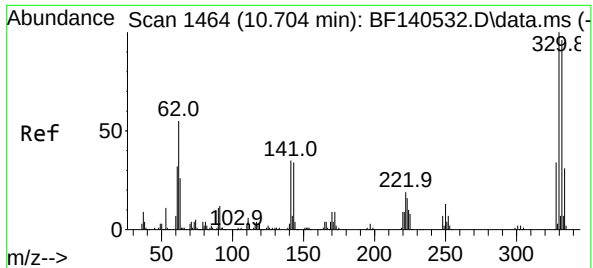
Lab File: BF140615.D

Acq: 25 Nov 2024 20:45

Tgt Ion:164 Resp: 114630

Ion	Ratio	Lower	Upper
164	100		
162	99.8	80.6	120.8
160	44.1	36.2	54.4





#42

2,4,6-Tribromophenol

Concen: 78.991 ng

RT: 10.698 min Scan# 1463

Delta R.T. -0.006 min

Lab File: BF140615.D

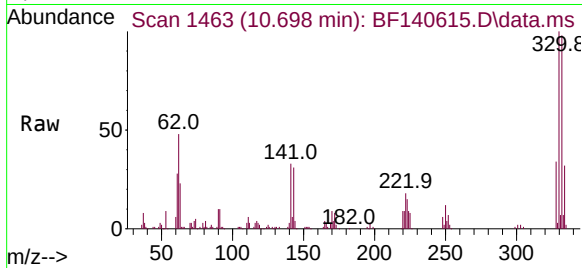
Acq: 25 Nov 2024 20:45

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-009



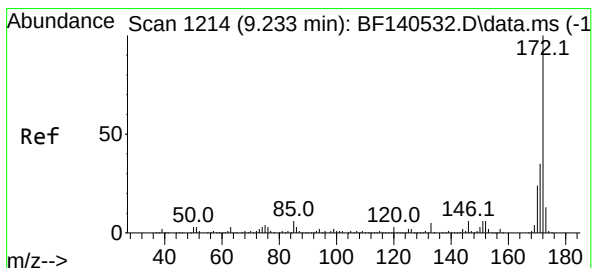
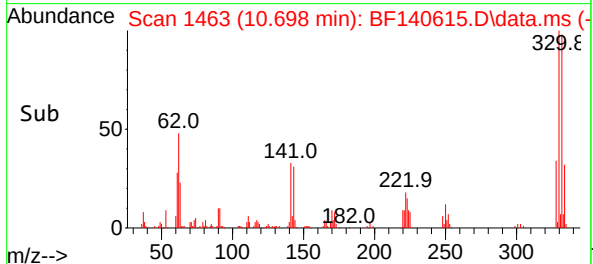
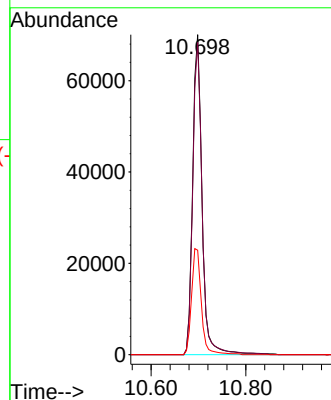
Tgt Ion:330 Resp: 96841

Ion Ratio Lower Upper

330 100

332 97.8 76.9 115.3

141 34.5 26.7 40.1



#45

2-Fluorobiphenyl

Concen: 62.843 ng

RT: 9.222 min Scan# 1212

Delta R.T. -0.012 min

Lab File: BF140615.D

Acq: 25 Nov 2024 20:45

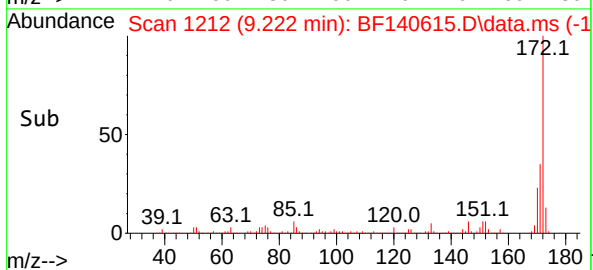
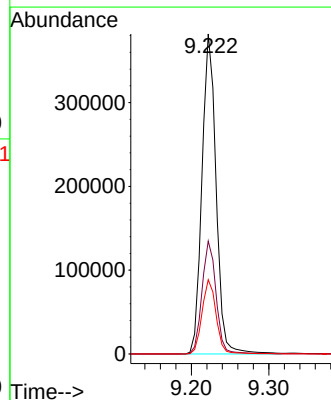
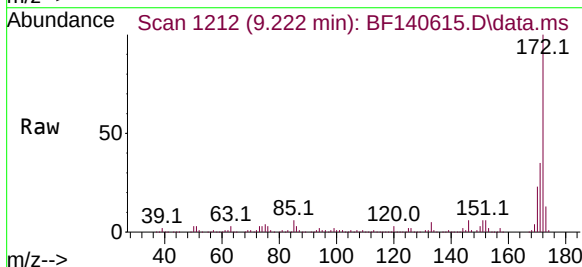
Tgt Ion:172 Resp: 483489

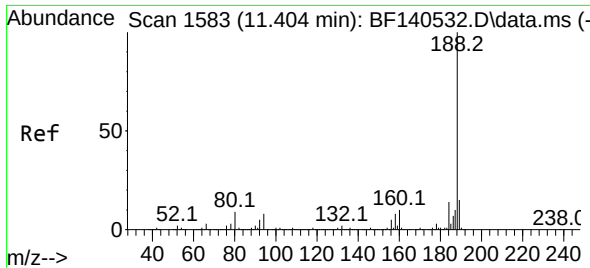
Ion Ratio Lower Upper

172 100

171 35.3 28.4 42.6

170 23.2 19.0 28.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.392 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF140615.D

Acq: 25 Nov 2024 20:45

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-009

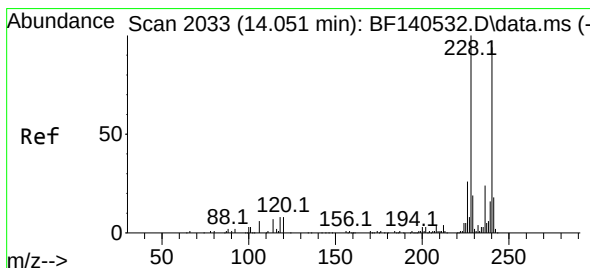
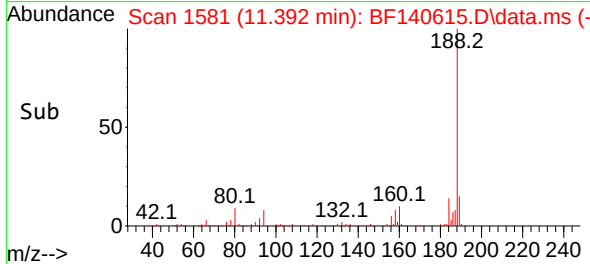
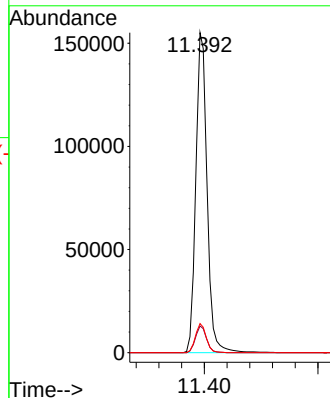
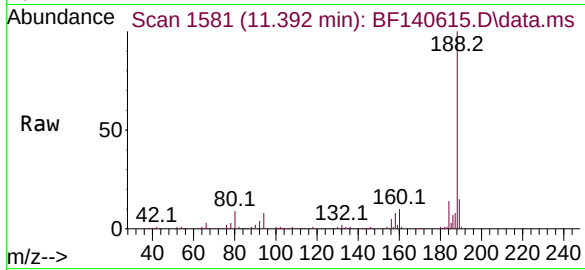
Tgt Ion:188 Resp: 214306

Ion Ratio Lower Upper

188 100

94 8.3 6.4 9.6

80 9.1 6.9 10.3



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.045 min Scan# 2032

Delta R.T. -0.006 min

Lab File: BF140615.D

Acq: 25 Nov 2024 20:45

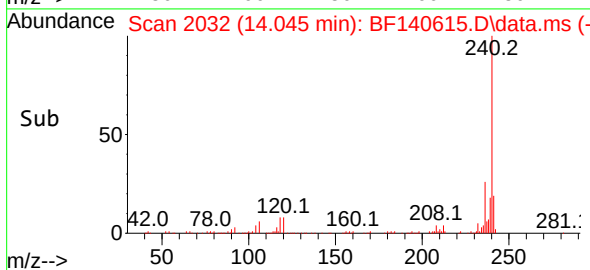
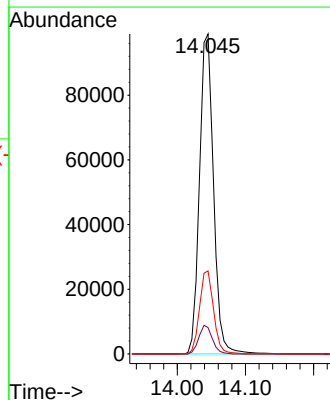
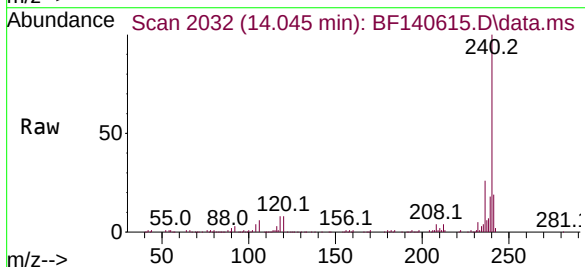
Tgt Ion:240 Resp: 141699

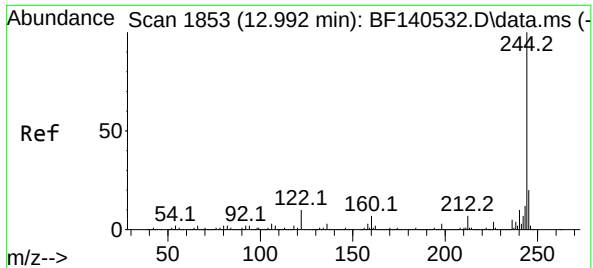
Ion Ratio Lower Upper

240 100

120 8.2 7.3 10.9

236 26.0 20.6 31.0





#79

Terphenyl-d14

Concen: 60.927 ng

RT: 12.980 min Scan# 1851

Delta R.T. -0.012 min

Lab File: BF140615.D

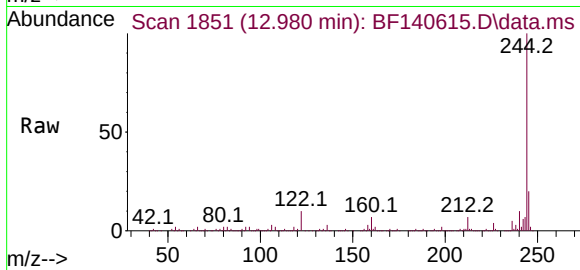
Acq: 25 Nov 2024 20:45

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-009



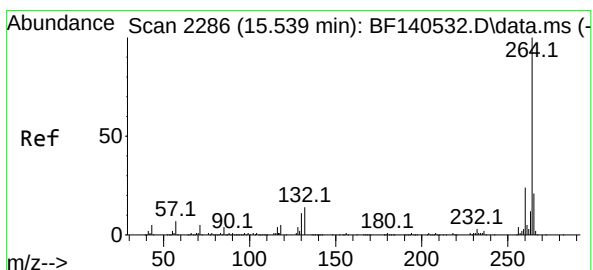
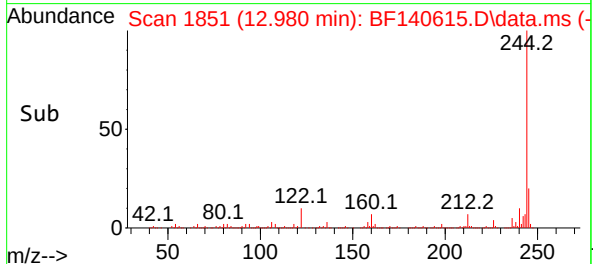
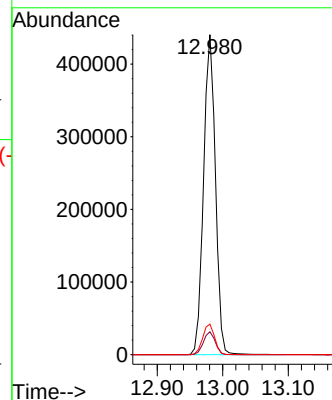
Tgt Ion:244 Resp: 554437

Ion Ratio Lower Upper

244 100

212 7.2 5.8 8.8

122 9.5 8.0 12.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 2286

Delta R.T. 0.000 min

Lab File: BF140615.D

Acq: 25 Nov 2024 20:45

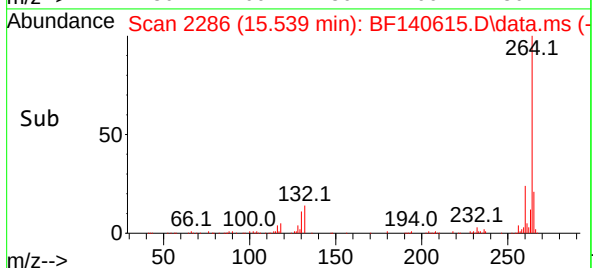
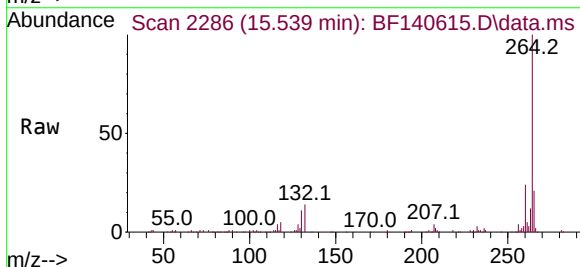
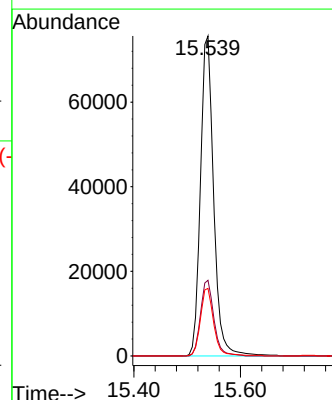
Tgt Ion:264 Resp: 130450

Ion Ratio Lower Upper

264 100

260 23.6 19.0 28.6

265 21.1 16.6 25.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
 Data File : BF140615.D
 Acq On : 25 Nov 2024 20:45
 Operator : RC/JU
 Sample : P4860-06
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PH2-BOT-009

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-BF112124.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140615.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.081	503	508	520	rVB	19916	31082	2.14%	0.336%
2	5.493	573	578	598	rBV	754507	1016441	70.08%	10.977%
3	6.504	744	750	767	rBV	806435	1078727	74.38%	11.650%
4	6.869	807	812	821	rBV	273270	330865	22.81%	3.573%
5	7.428	902	907	920	rBV	531563	697301	48.08%	7.530%
6	8.151	1025	1030	1057	rBV	313887	423461	29.20%	4.573%
7	9.222	1207	1212	1223	rBV	1102295	1374540	94.77%	14.844%
8	9.904	1323	1328	1345	rBV	368486	473125	32.62%	5.109%
9	10.616	1444	1449	1458	rBV	215878	276926	19.09%	2.991%
10	10.698	1458	1463	1479	rVV	519957	723844	49.91%	7.817%
11	10.928	1497	1502	1510	rBV	38664	51046	3.52%	0.551%
12	11.392	1576	1581	1590	rBV	363733	493453	34.02%	5.329%
13	11.916	1665	1670	1685	rBV2	23163	45335	3.13%	0.490%
14	12.980	1845	1851	1856	rBV	1153883	1450364	100.00%	15.663%
15	13.916	2000	2010	2023	rBV6	16574	72805	5.02%	0.786%
16	14.045	2026	2032	2044	rVB	271780	394656	27.21%	4.262%
17	15.539	2280	2286	2298	rVB	193011	325815	22.46%	3.519%

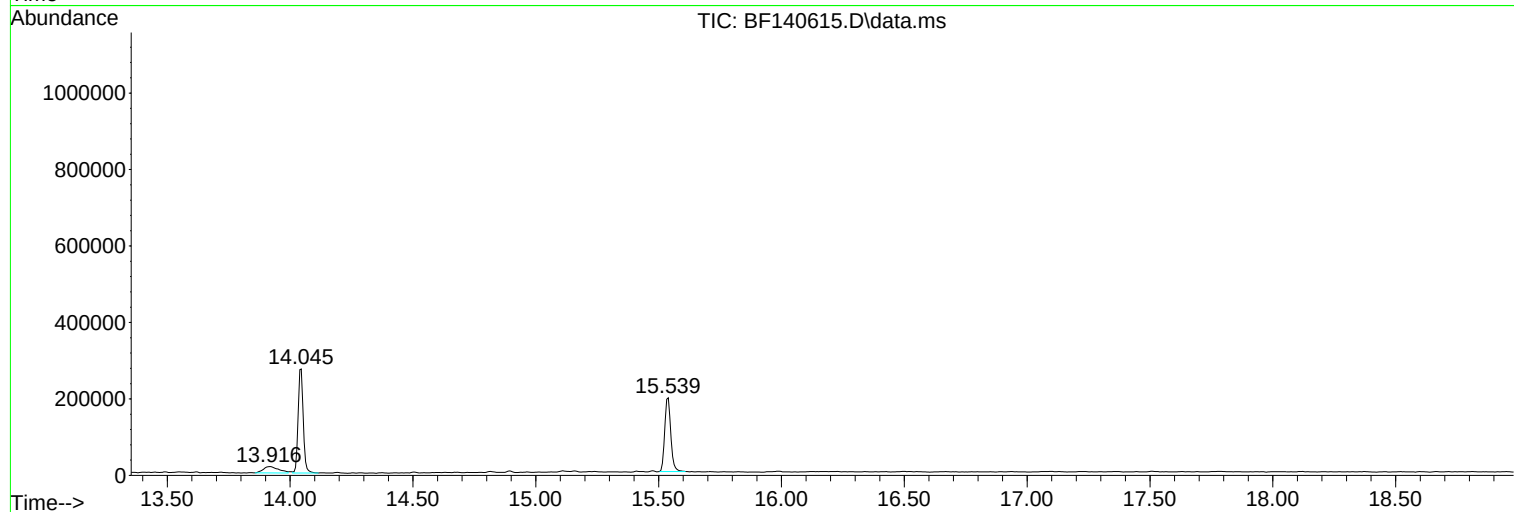
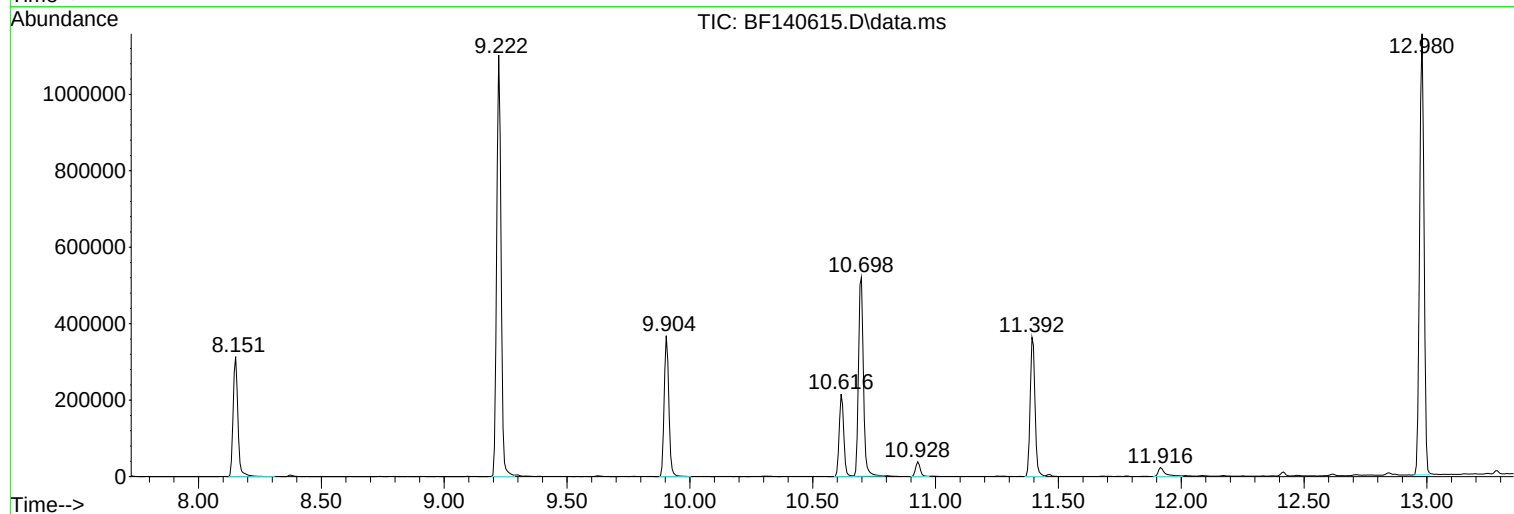
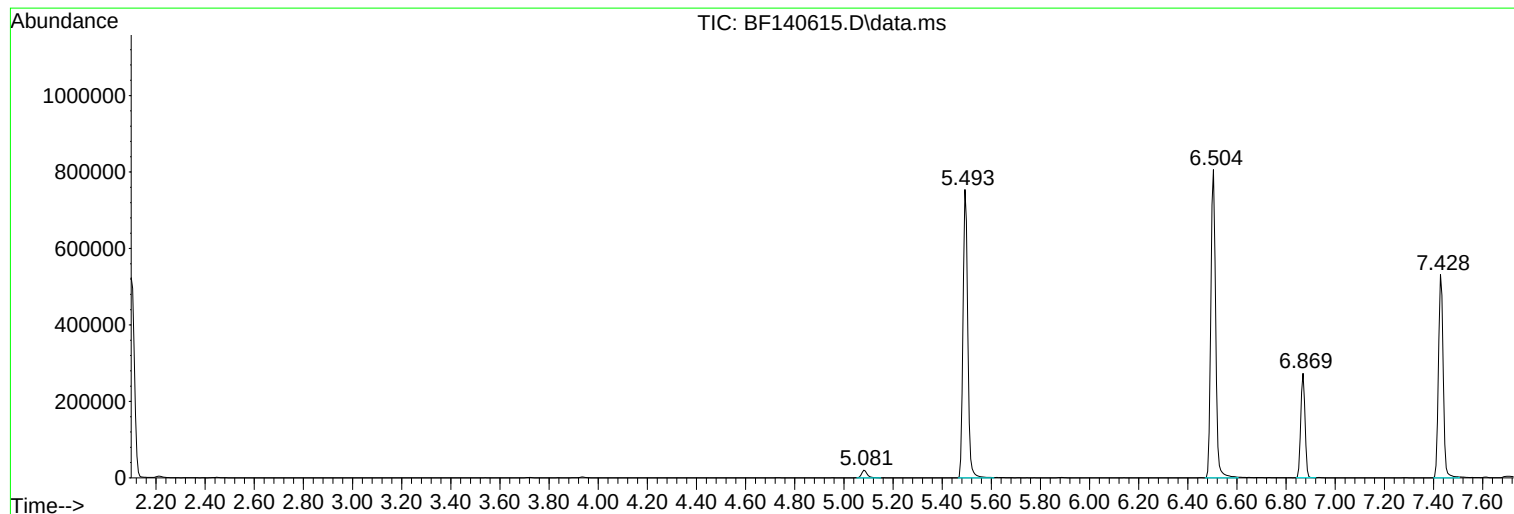
Sum of corrected areas: 9259786

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140615.D
Acq On : 25 Nov 2024 20:45
Operator : RC/JU
Sample : P4860-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-009

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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\BF112524\
Data File : BF140615.D
Acq On : 25 Nov 2024 20:45
Operator : RC/JU
Sample : P4860-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-009

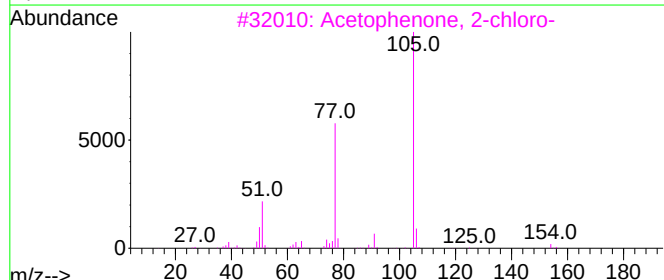
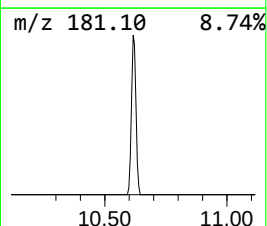
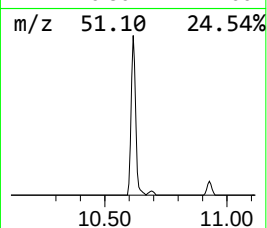
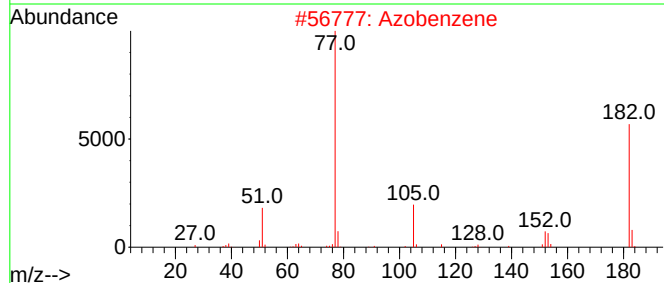
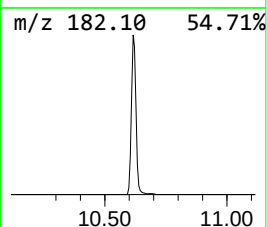
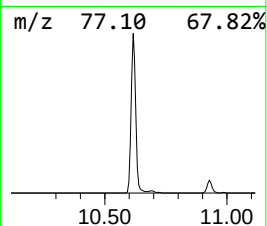
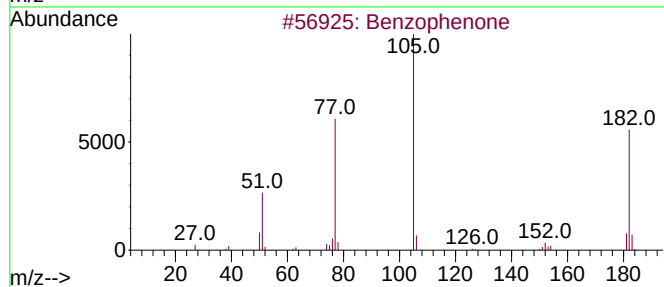
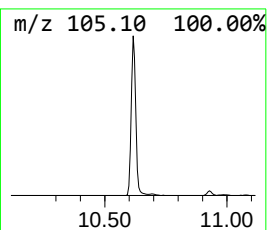
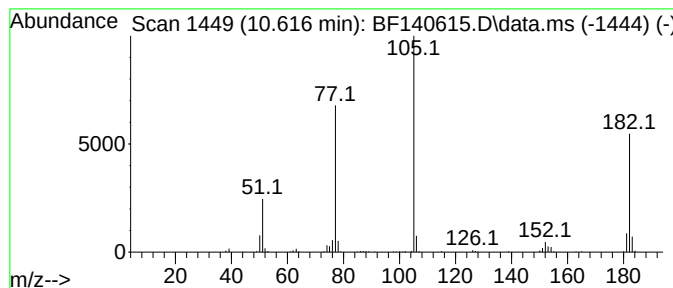
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Benzophenone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.616	11.71 ng	276926	Acenaphthene-d10	9.904

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Azobenzene	182	C12H10N2	000103-33-3	72
3			Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4			Benzeneacetic acid, .alpha.-oxo-...	164	C9H8O3	015206-55-0	47
5			Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140615.D
Acq On : 25 Nov 2024 20:45
Operator : RC/JU
Sample : P4860-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

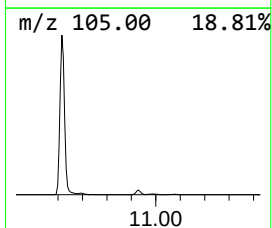
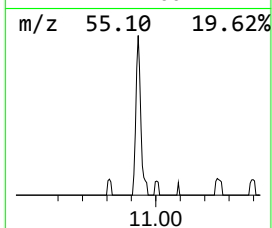
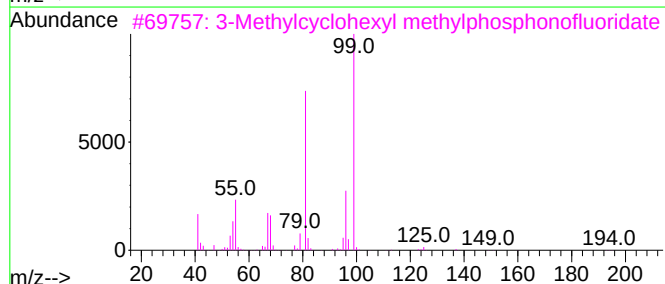
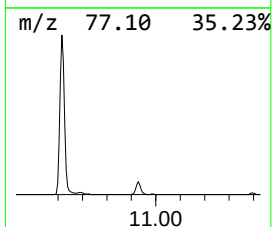
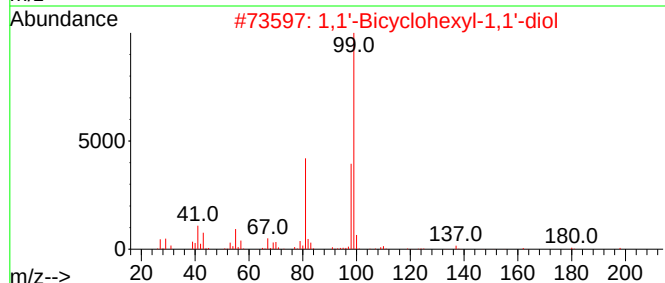
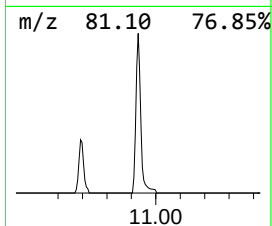
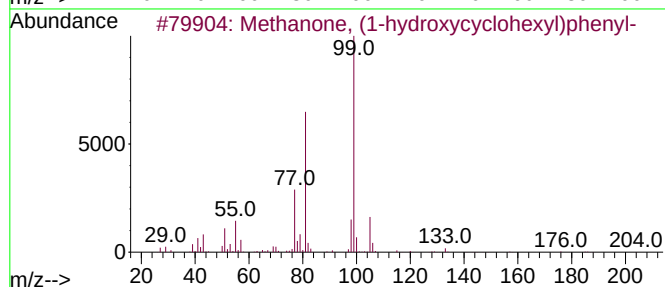
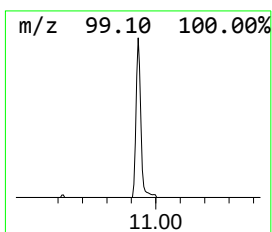
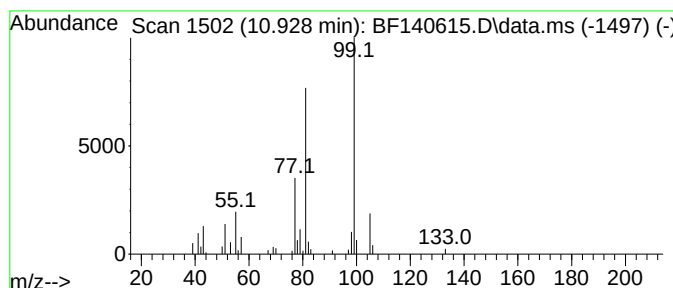
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-009

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Methanone, (1-hydroxycyclohexyl) Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.	
10.928	2.07 ng	51046	Phenanthrene-d10	11.392	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methanone, (1-hydroxycyclohexyl)...	204	C13H16O2	000947-19-3	90
2	1,1'-Bicyclohexyl-1,1'-diol	198	C12H22O2	002888-11-1	45
3	3-Methylcyclohexyl methylphospho...	194	C8H16FO2P	113548-86-0	45
4	1-Hydroxycyclohexanecarboxylic acid	144	C7H12O3	001123-28-0	45
5	2-Methylcyclosarin	194	C8H16FO2P	085473-32-1	42



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140615.D
Acq On : 25 Nov 2024 20:45
Operator : RC/JU
Sample : P4860-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-009

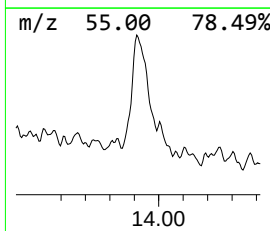
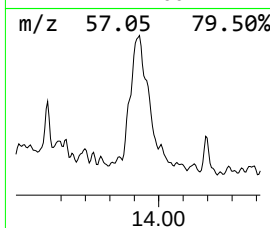
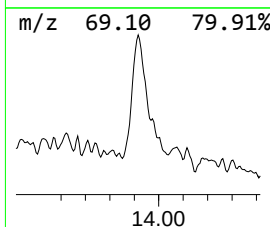
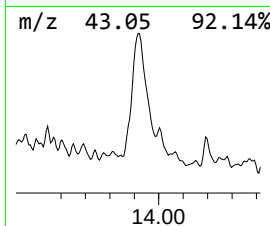
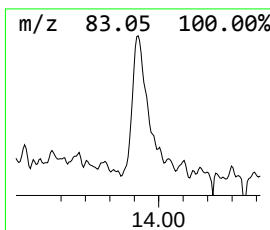
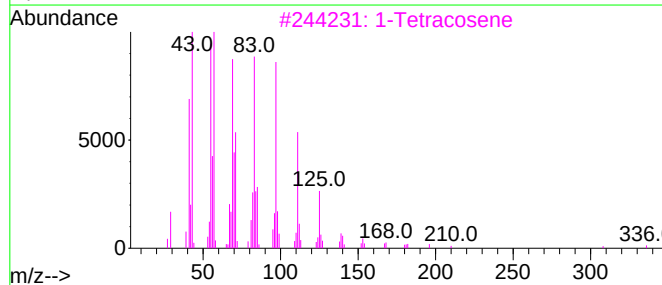
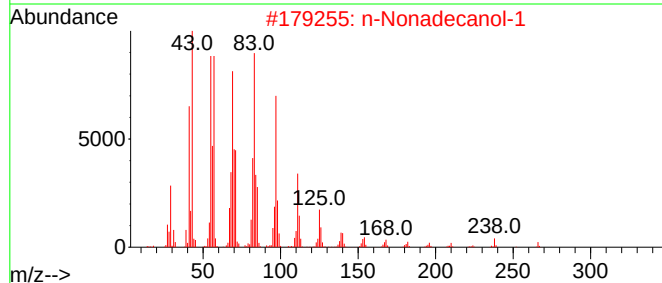
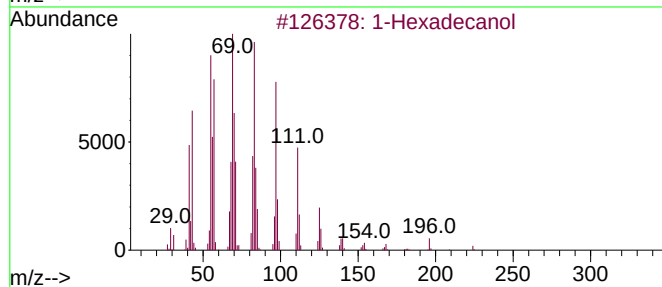
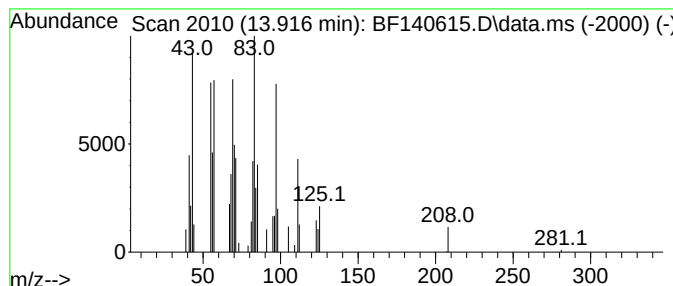
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 1-Hexadecanol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.916	3.69 ng	72805	Chrysene-d12	14.045

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1-Hexadecanol	242	C16H34O	036653-82-4	93
2			n-Nonadecanol-1	284	C19H40O	001454-84-8	93
3			1-Tetracosene	336	C24H48	010192-32-2	93
4			2- Chloropropionic acid, pentade...	318	C18H35ClO2	1000292-44-1	91
5			1-Heneicosanol	312	C21H44O	015594-90-8	90



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140615.D
Acq On : 25 Nov 2024 20:45
Operator : RC/JU
Sample : P4860-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-009

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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
Benzophenone	10.616	11.7	ng	276926	3	9.904	473125	20.0
Methanone, (1-h...	10.928	2.1	ng	51046	4	11.392	493453	20.0
1-Hexadecanol	13.916	3.7	ng	72805	5	14.045	394656	20.0

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-008	SDG No.:	P4860
Lab Sample ID:	P4860-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	96.8
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
BF140621.D	1	11/16/24 08:51	11/25/24 23:22	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	UQ	190	340	ug/Kg
108-95-2	Phenol	85.5	U	85.5	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	86.4	U	86.4	180	ug/Kg
95-57-8	2-Chlorophenol	86.1	U	86.1	180	ug/Kg
95-48-7	2-Methylphenol	83.2	U	83.2	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	93.8	U	93.8	180	ug/Kg
98-86-2	Acetophenone	89.7	U	89.7	180	ug/Kg
65794-96-9	3+4-Methylphenols	82.3	U	82.3	340	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	41.6	U	41.6	82.5	ug/Kg
67-72-1	Hexachloroethane	85.6	U	85.6	180	ug/Kg
98-95-3	Nitrobenzene	93.7	U	93.7	180	ug/Kg
78-59-1	Isophorone	87.3	U	87.3	180	ug/Kg
88-75-5	2-Nitrophenol	97.5	U	97.5	180	ug/Kg
105-67-9	2,4-Dimethylphenol	96.2	U	96.2	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	88.5	U	88.5	180	ug/Kg
120-83-2	2,4-Dichlorophenol	77.9	U	77.9	180	ug/Kg
91-20-3	Naphthalene	85.2	U	85.2	180	ug/Kg
106-47-8	4-Chloroaniline	85.2	UQ	85.2	180	ug/Kg
87-68-3	Hexachlorobutadiene	85.9	U	85.9	180	ug/Kg
105-60-2	Caprolactam	89.6	U	89.6	340	ug/Kg
59-50-7	4-Chloro-3-methylphenol	80.0	U	80.0	180	ug/Kg
91-57-6	2-Methylnaphthalene	85.1	U	85.1	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	UQ	160	340	ug/Kg
88-06-2	2,4,6-Trichlorophenol	73.7	U	73.7	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	76.3	U	76.3	180	ug/Kg
92-52-4	1,1-Biphenyl	90.2	U	90.2	180	ug/Kg
91-58-7	2-Chloronaphthalene	85.9	U	85.9	180	ug/Kg
88-74-4	2-Nitroaniline	98.0	U	98.0	180	ug/Kg
131-11-3	Dimethylphthalate	84.3	U	84.3	180	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-008	SDG No.:	P4860
Lab Sample ID:	P4860-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	96.8
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
BF140621.D	1	11/16/24 08:51	11/25/24 23:22	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	89.2	U	89.2	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	85.8	U	85.8	180	ug/Kg
99-09-2	3-Nitroaniline	92.0	UQ	92.0	180	ug/Kg
83-32-9	Acenaphthene	83.7	U	83.7	180	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	340	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	340	ug/Kg
132-64-9	Dibenzofuran	87.1	U	87.1	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	88.9	U	88.9	180	ug/Kg
84-66-2	Diethylphthalate	82.6	U	82.6	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	88.3	U	88.3	180	ug/Kg
86-73-7	Fluorene	88.2	U	88.2	180	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	340	ug/Kg
86-30-6	n-Nitrosodiphenylamine	84.2	U	84.2	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	81.4	U	81.4	180	ug/Kg
118-74-1	Hexachlorobenzene	87.7	U	87.7	180	ug/Kg
1912-24-9	Atrazine	94.3	U	94.3	180	ug/Kg
87-86-5	Pentachlorophenol	79.7	U	79.7	340	ug/Kg
85-01-8	Phenanthrene	86.7	U	86.7	180	ug/Kg
120-12-7	Anthracene	87.1	U	87.1	180	ug/Kg
86-74-8	Carbazole	82.8	U	82.8	180	ug/Kg
84-74-2	Di-n-butylphthalate	87.0	U	87.0	180	ug/Kg
206-44-0	Fluoranthene	84.3	U	84.3	180	ug/Kg
129-00-0	Pyrene	85.6	U	85.6	180	ug/Kg
85-68-7	Butylbenzylphthalate	99.9	U	99.9	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	100	UQ	100	340	ug/Kg
56-55-3	Benzo(a)anthracene	83.3	U	83.3	180	ug/Kg
218-01-9	Chrysene	82.0	U	82.0	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	93.9	U	93.9	180	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	340	ug/Kg
205-99-2	Benzo(b)fluoranthene	83.7	U	83.7	180	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-008	SDG No.:	P4860
Lab Sample ID:	P4860-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	96.8
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
BF140621.D	1	11/16/24 08:51	11/25/24 23:22	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	85.2	U	85.2	180	ug/Kg
50-32-8	Benzo(a)pyrene	95.9	U	95.9	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	80.6	U	80.6	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	83.8	U	83.8	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	82.6	U	82.6	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	89.6	U	89.6	180	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	77.1	U	77.1	180	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	92.1		30 (18) - 130 (112)	61%	SPK: 150
13127-88-3	Phenol-d6	90.4		30 (15) - 130 (107)	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	62.1		30 (18) - 130 (107)	62%	SPK: 100
321-60-8	2-Fluorobiphenyl	64.9		30 (20) - 130 (109)	65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	88.7		30 (10) - 130 (116)	59%	SPK: 150
1718-51-0	Terphenyl-d14	60.5		30 (10) - 130 (105)	60%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	56800	6.869
1146-65-2	Naphthalene-d8	212000	8.151
15067-26-2	Acenaphthene-d10	114000	9.904
1517-22-2	Phenanthrene-d10	220000	11.392
1719-03-5	Chrysene-d12	128000	14.039
1520-96-3	Perylene-d12	122000	15.533

TENTATIVE IDENTIFIED COMPOUNDS

000119-61-9	Benzophenone	500	J	10.6	ug/Kg
001123-28-0	1-Hydroxycyclohexanecarboxylic aci	74.6	J	10.9	ug/Kg
000057-10-3	n-Hexadecanoic acid	89.8	J	11.9	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-008	SDG No.:	P4860
Lab Sample ID:	P4860-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	96.8
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
BF140621.D	1	11/16/24 08:51	11/25/24 23:22	PB165029

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\BF112524\
Data File : BF140621.D
Acq On : 25 Nov 2024 23:22
Operator : RC/JU
Sample : P4860-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-008

Quant Time: Nov 26 00:11:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	56779	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	211702	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	113735	20.000	ng	-0.01
64) Phenanthrene-d10	11.392	188	220246	20.000	ng	-0.01
76) Chrysene-d12	14.039	240	128275	20.000	ng	-0.01
86) Perylene-d12	15.533	264	122422	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	306468	92.094	ng	0.00
7) Phenol-d6	6.504	99	397890	90.442	ng	-0.01
23) Nitrobenzene-d5	7.428	82	256943	62.081	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	107865	88.675	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	495612	64.926	ng	-0.01
79) Terphenyl-d14	12.980	244	498356	60.495	ng	-0.01

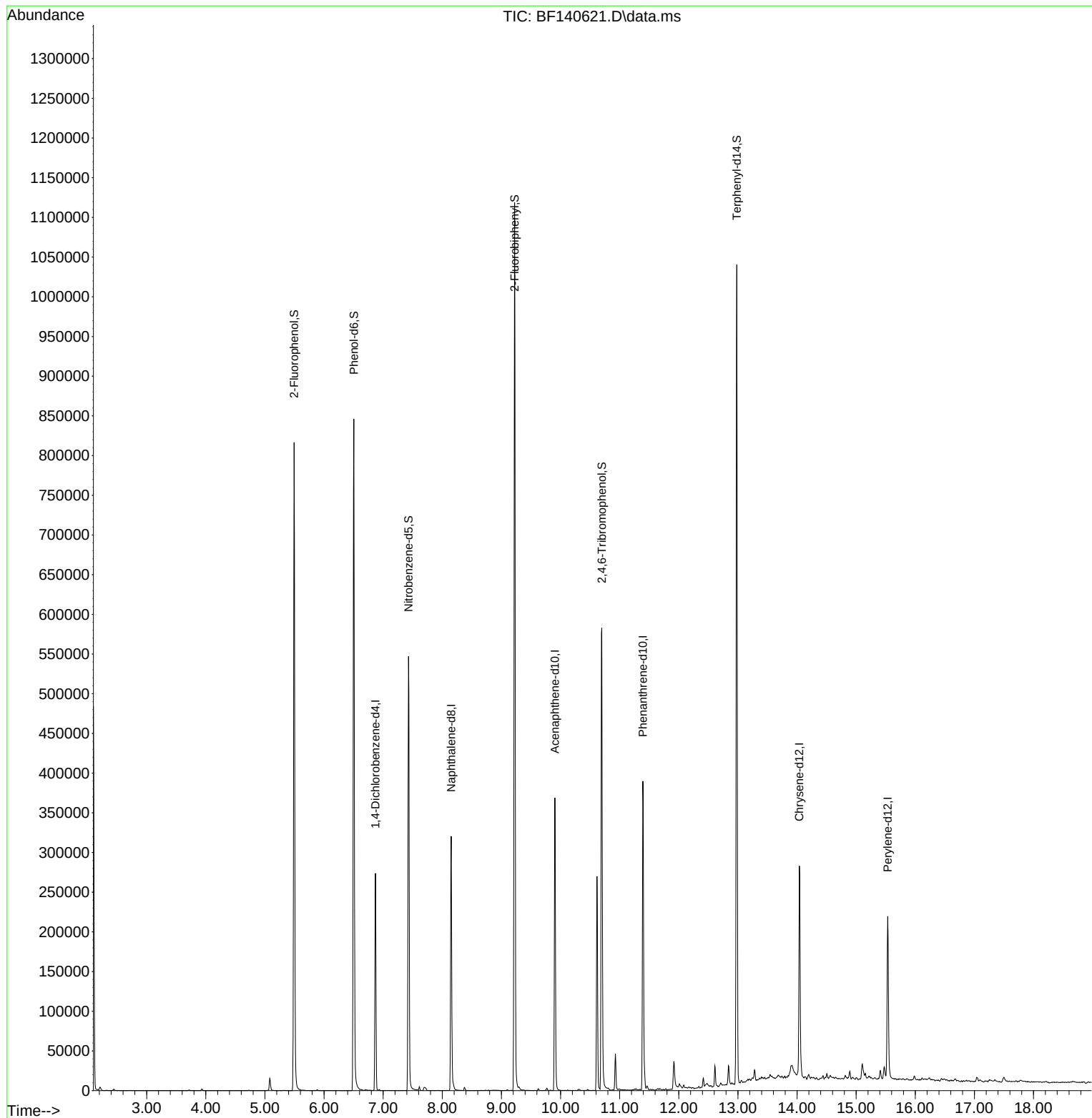
Target Compounds	Qvalue

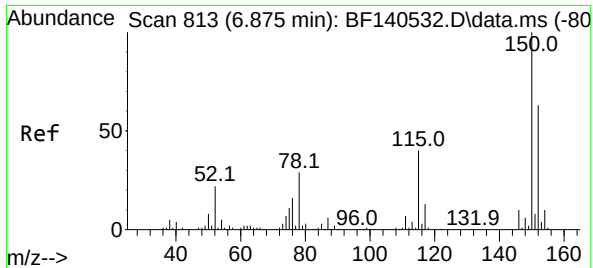
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140621.D
Acq On : 25 Nov 2024 23:22
Operator : RC/JU
Sample : P4860-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-008

Quant Time: Nov 26 00:11:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

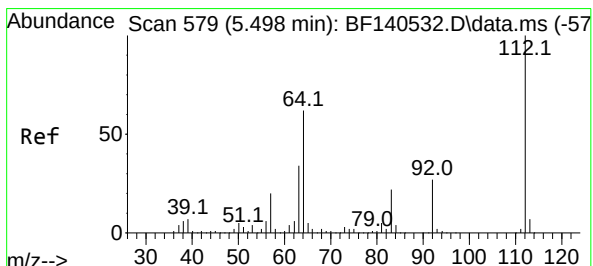
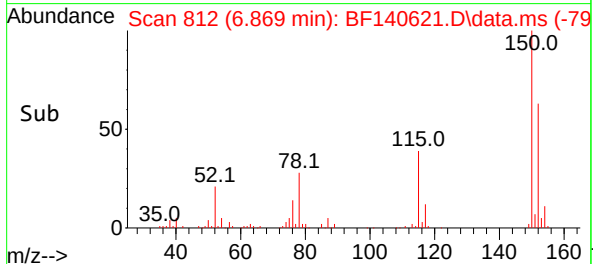
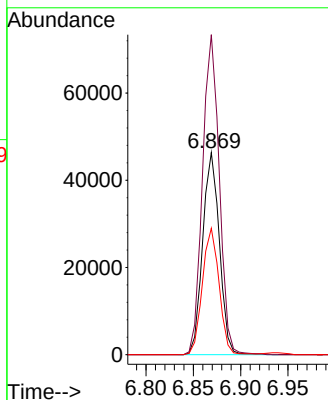
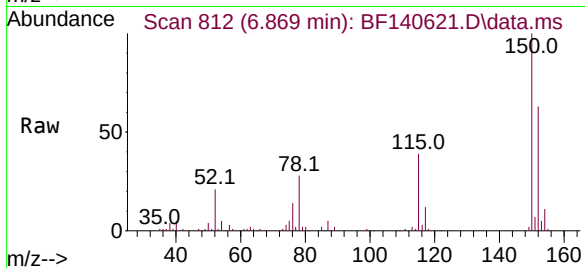




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 813
Delta R.T. -0.006 min
Lab File: BF140621.D
Acq: 25 Nov 2024 23:22

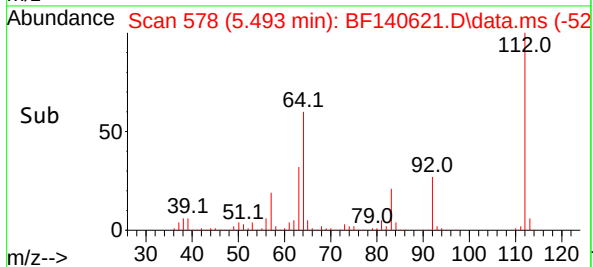
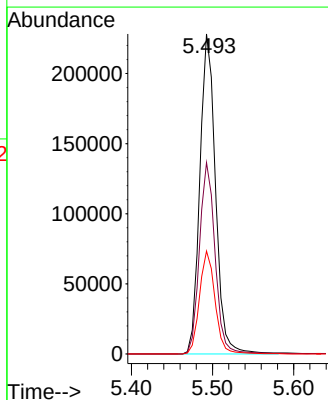
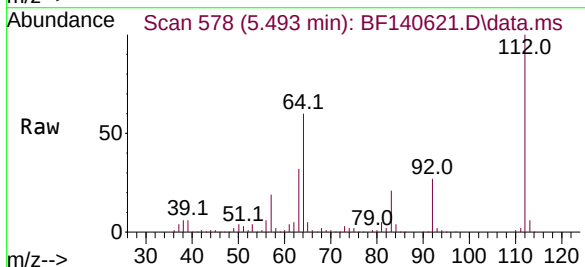
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-008

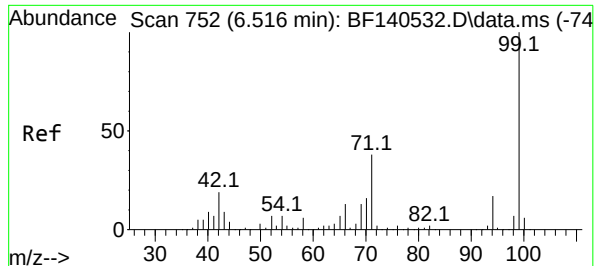
Tgt Ion:152 Resp: 56779
Ion Ratio Lower Upper
152 100
150 158.3 128.5 192.7
115 62.5 50.2 75.4



#5
2-Fluorophenol
Concen: 92.094 ng
RT: 5.493 min Scan# 578
Delta R.T. -0.006 min
Lab File: BF140621.D
Acq: 25 Nov 2024 23:22

Tgt Ion:112 Resp: 306468
Ion Ratio Lower Upper
112 100
64 59.8 49.2 73.8
63 32.2 27.0 40.4

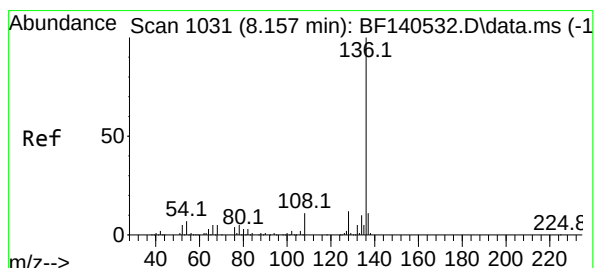
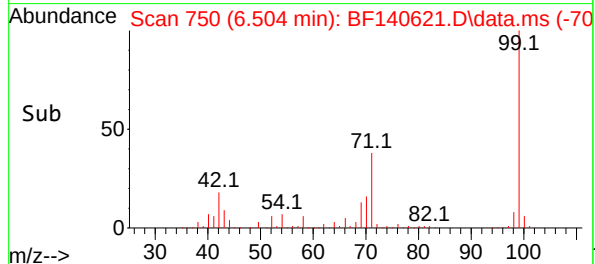
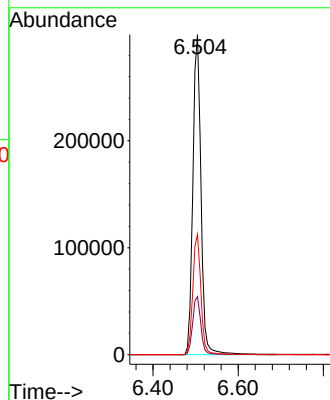
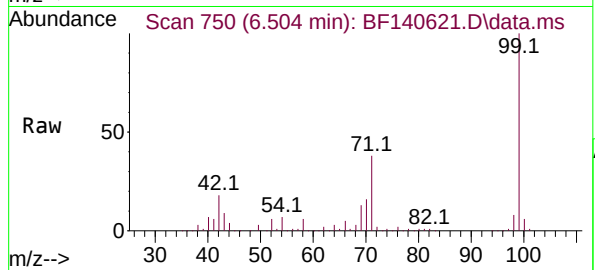




#7
Phenol-d6
Concen: 90.442 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF140621.D
Acq: 25 Nov 2024 23:22

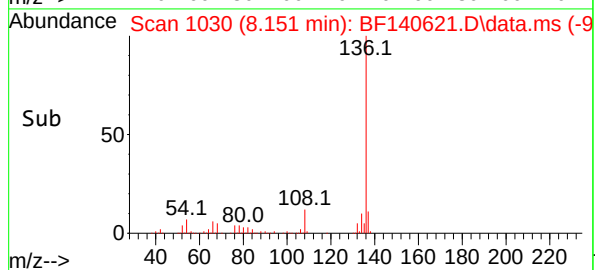
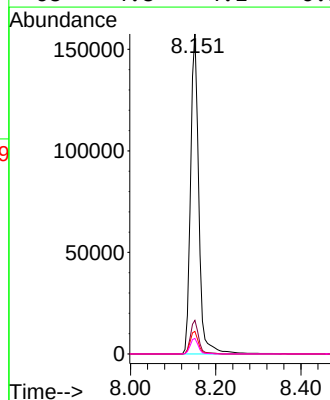
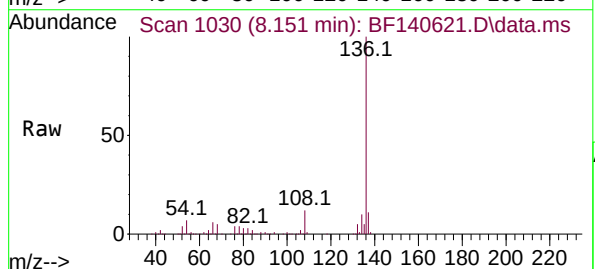
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-008

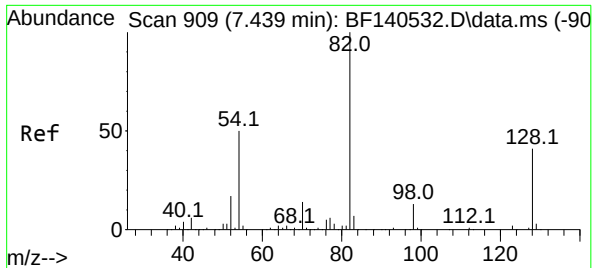
Tgt Ion: 99 Resp: 397890
Ion Ratio Lower Upper
99 100
42 18.2 15.4 23.0
71 37.6 30.6 46.0



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140621.D
Acq: 25 Nov 2024 23:22

Tgt Ion: 136 Resp: 211702
Ion Ratio Lower Upper
136 100
137 10.5 8.6 13.0
54 7.0 5.8 8.8
68 4.8 4.1 6.1





#23

Nitrobenzene-d5

Concen: 62.081 ng

RT: 7.428 min Scan# 90

Delta R.T. -0.012 min

Lab File: BF140621.D

Acq: 25 Nov 2024 23:22

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-008

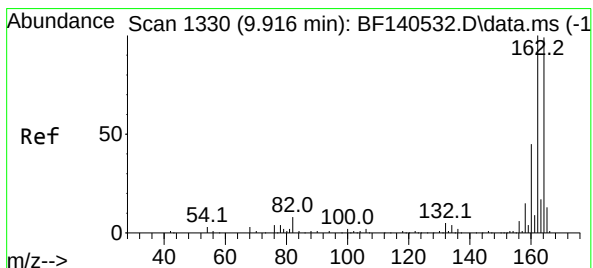
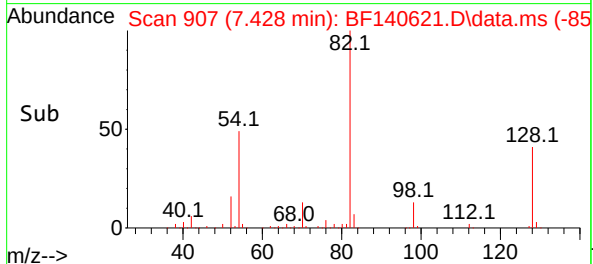
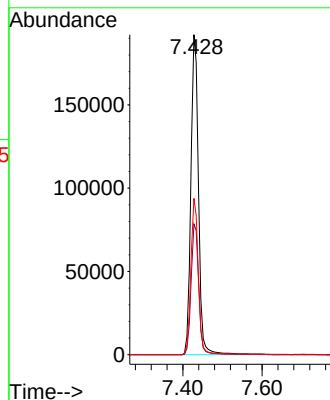
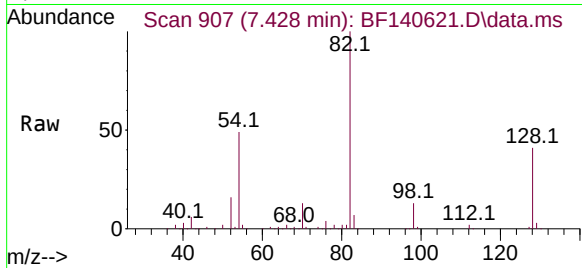
Tgt Ion: 82 Resp: 256943

Ion Ratio Lower Upper

82 100

128 40.8 33.0 49.4

54 48.9 39.5 59.3



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.904 min Scan# 1328

Delta R.T. -0.012 min

Lab File: BF140621.D

Acq: 25 Nov 2024 23:22

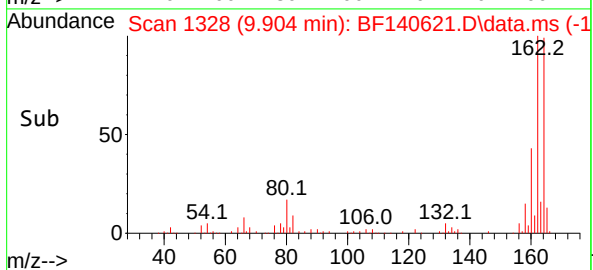
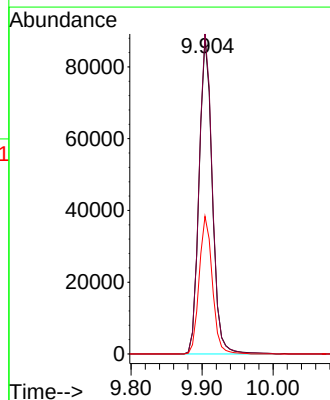
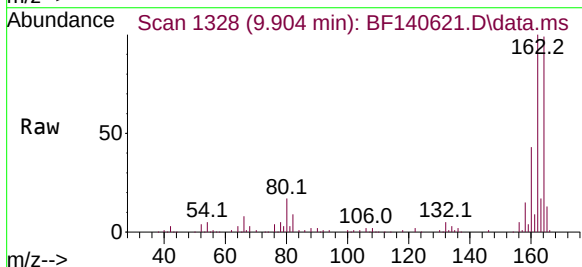
Tgt Ion:164 Resp: 113735

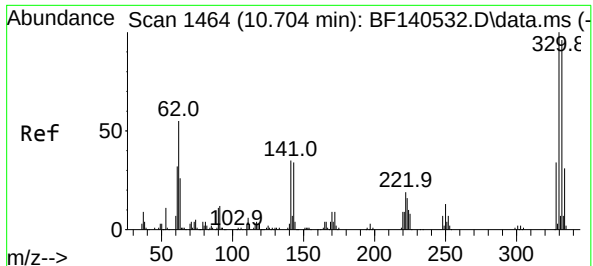
Ion Ratio Lower Upper

164 100

162 101.5 80.6 120.8

160 43.6 36.2 54.4

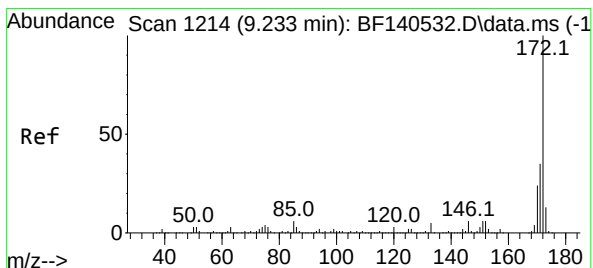
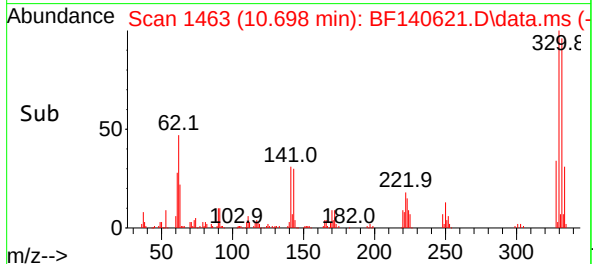
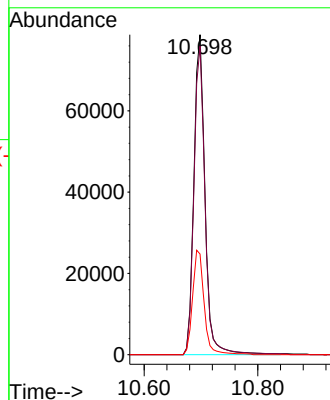
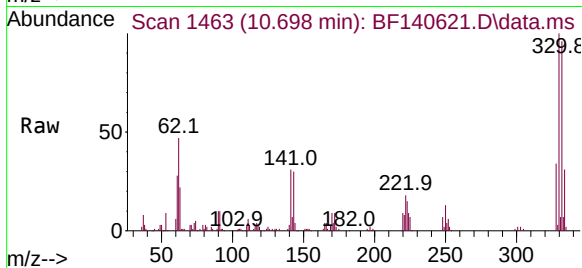




#42
2,4,6-Tribromophenol
Concen: 88.675 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.006 min
Lab File: BF140621.D
Acq: 25 Nov 2024 23:22

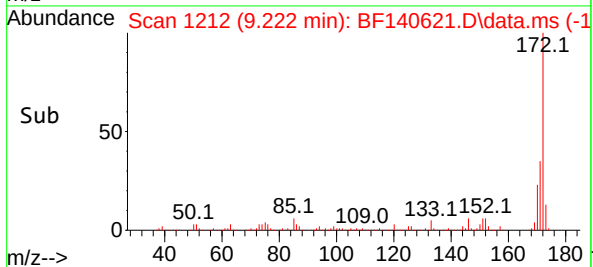
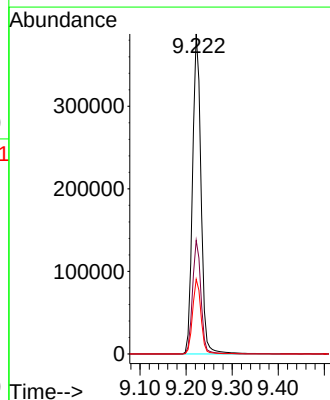
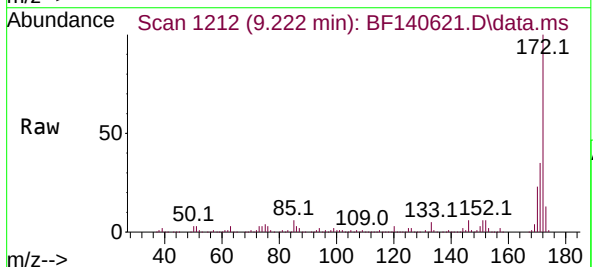
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-008

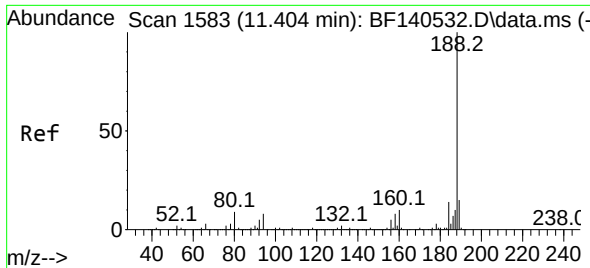
Tgt Ion: 330 Resp: 107865
Ion Ratio Lower Upper
330 100
332 96.6 76.9 115.3
141 33.8 26.7 40.1



#45
2-Fluorobiphenyl
Concen: 64.926 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140621.D
Acq: 25 Nov 2024 23:22

Tgt Ion: 172 Resp: 495612
Ion Ratio Lower Upper
172 100
171 35.5 28.4 42.6
170 23.3 19.0 28.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.392 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF140621.D

Acq: 25 Nov 2024 23:22

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-008

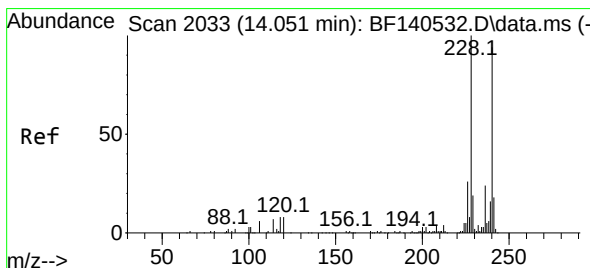
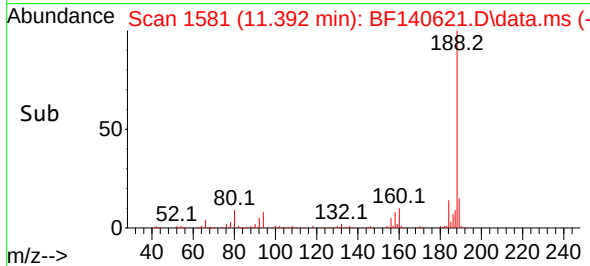
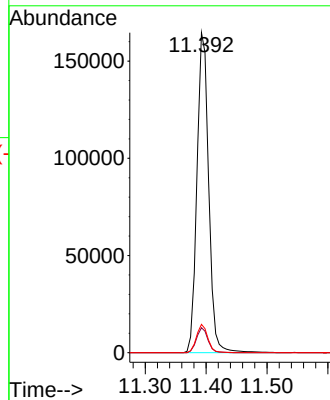
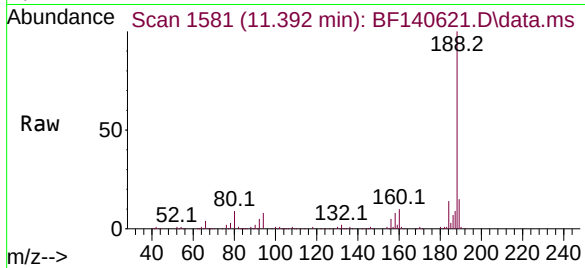
Tgt Ion:188 Resp: 220246

Ion Ratio Lower Upper

188 100

94 7.8 6.4 9.6

80 8.8 6.9 10.3



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.039 min Scan# 2031

Delta R.T. -0.012 min

Lab File: BF140621.D

Acq: 25 Nov 2024 23:22

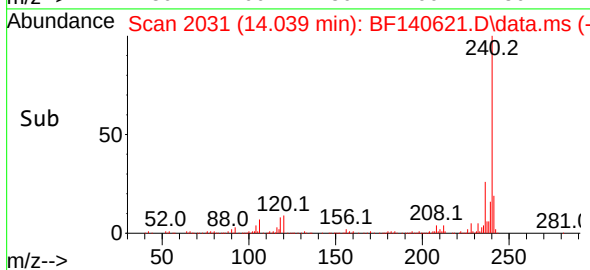
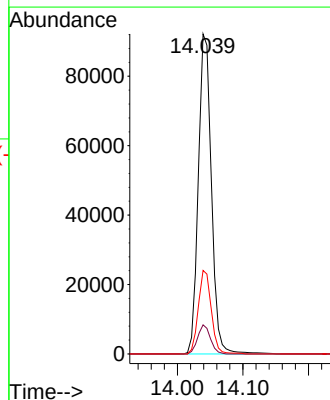
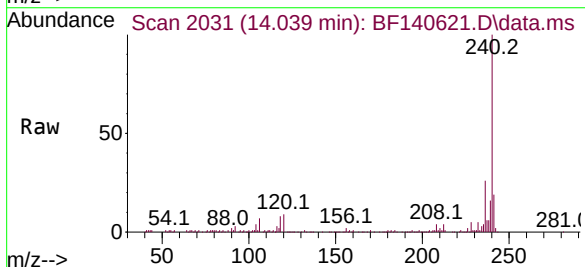
Tgt Ion:240 Resp: 128275

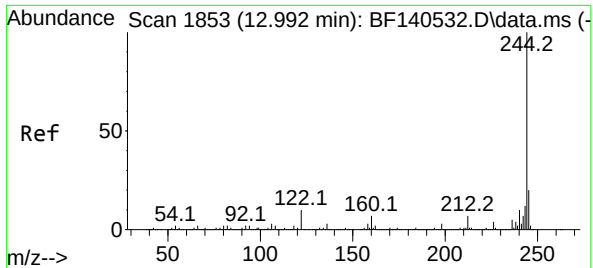
Ion Ratio Lower Upper

240 100

120 9.1 7.3 10.9

236 26.1 20.6 31.0

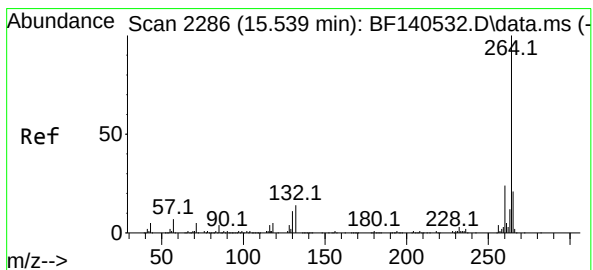
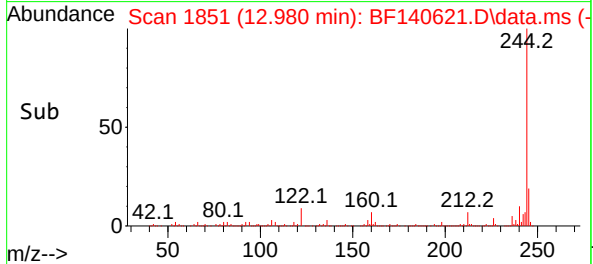
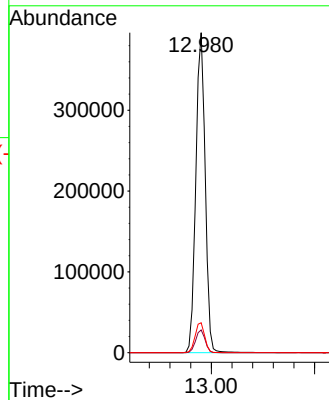
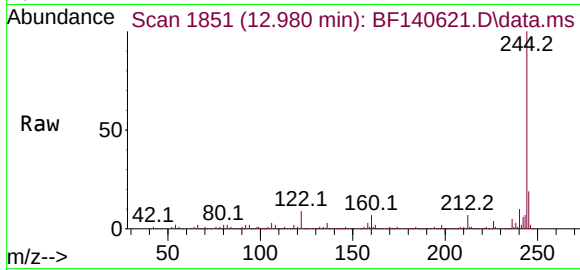




#79
Terphenyl-d14
Concen: 60.495 ng
RT: 12.980 min Scan# 1851
Delta R.T. -0.012 min
Lab File: BF140621.D
Acq: 25 Nov 2024 23:22

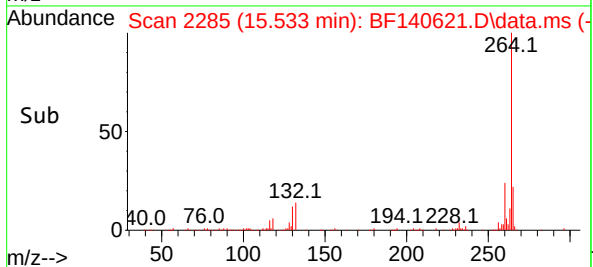
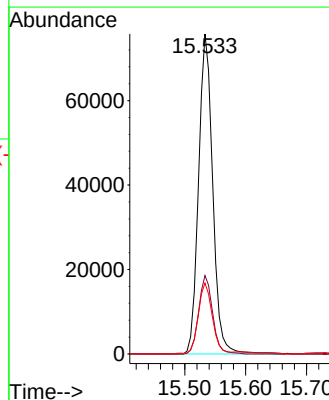
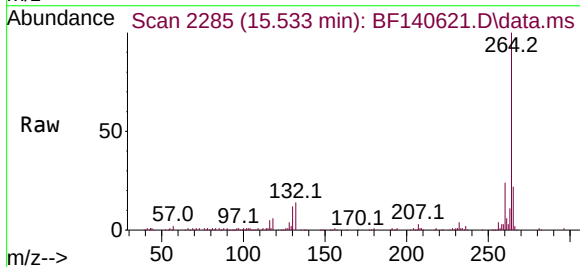
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-008

Tgt Ion:244 Resp: 498356
Ion Ratio Lower Upper
244 100
212 7.1 5.8 8.8
122 9.3 8.0 12.0



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2285
Delta R.T. -0.006 min
Lab File: BF140621.D
Acq: 25 Nov 2024 23:22

Tgt Ion:264 Resp: 122422
Ion Ratio Lower Upper
264 100
260 24.5 19.0 28.6
265 22.1 16.6 25.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
 Data File : BF140621.D
 Acq On : 25 Nov 2024 23:22
 Operator : RC/JU
 Sample : P4860-07
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PH2-BOT-008

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-BF112124.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140621.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.081	503	508	518	rVB	15257	23354	1.67%	0.243%
2	5.493	573	578	593	rBV	816602	1088857	77.80%	11.309%
3	6.504	744	750	768	rBV	846002	1125236	80.40%	11.687%
4	6.869	807	812	819	rBV	273360	332648	23.77%	3.455%
5	7.428	902	907	919	rBV	546891	716794	51.21%	7.445%
6	8.151	1025	1030	1048	rBV	320042	420219	30.02%	4.364%
7	9.222	1207	1212	1222	rBV	1118456	1399617	100.00%	14.536%
8	9.904	1323	1328	1345	rVB	368694	473336	33.82%	4.916%
9	10.616	1444	1449	1458	rBV	269816	342604	24.48%	3.558%
10	10.698	1458	1463	1479	rVV	581555	816579	58.34%	8.481%
11	10.928	1497	1502	1509	rBV	45411	57699	4.12%	0.599%
12	11.392	1576	1581	1590	rBV	389017	530674	37.92%	5.512%
13	11.916	1665	1670	1682	rBV2	35355	69317	4.95%	0.720%
14	12.416	1750	1755	1758	rBV	11711	15860	1.13%	0.165%
15	12.610	1784	1788	1793	rBV	25963	33045	2.36%	0.343%
16	12.839	1822	1827	1834	rBV	24219	37157	2.65%	0.386%
17	12.980	1845	1851	1861	rBV	1032712	1315490	93.99%	13.663%
18	13.280	1899	1902	1908	rVB6	13217	17638	1.26%	0.183%
19	14.039	2026	2031	2044	rVB	267006	397938	28.43%	4.133%
20	15.104	2207	2212	2218	rBV	18719	40280	2.88%	0.418%
21	15.410	2260	2264	2270	rVB	10446	15191	1.09%	0.158%
22	15.474	2270	2275	2279	rBV	15041	26439	1.89%	0.275%
23	15.533	2279	2285	2299	rVB	204114	332339	23.74%	3.452%

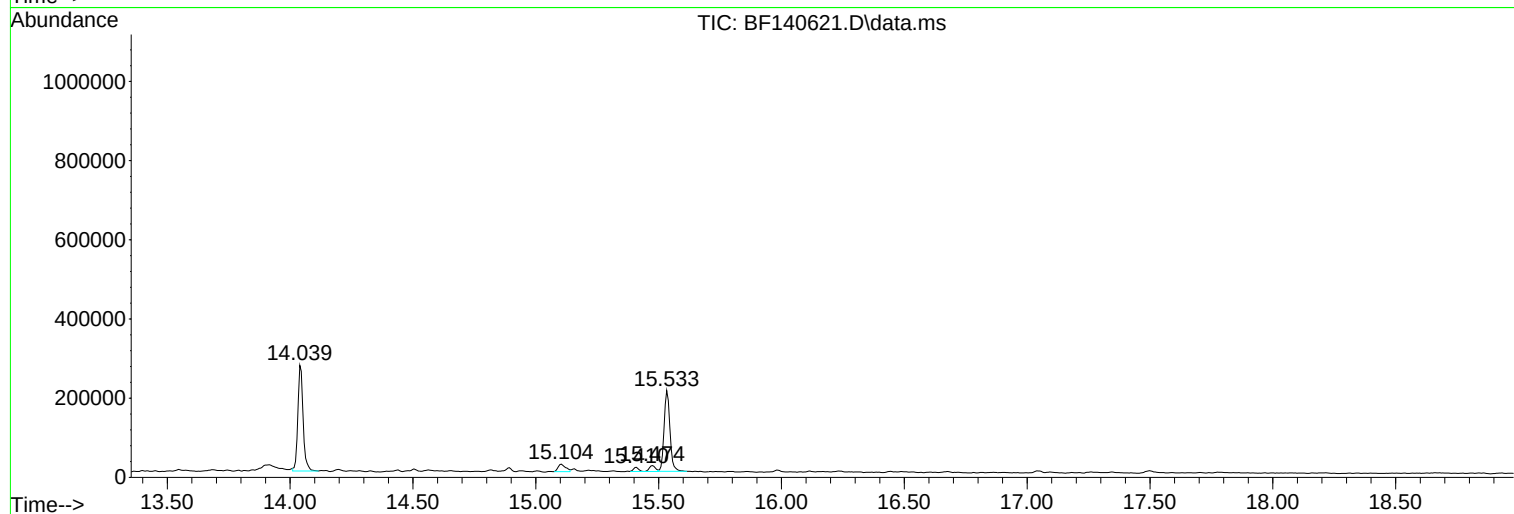
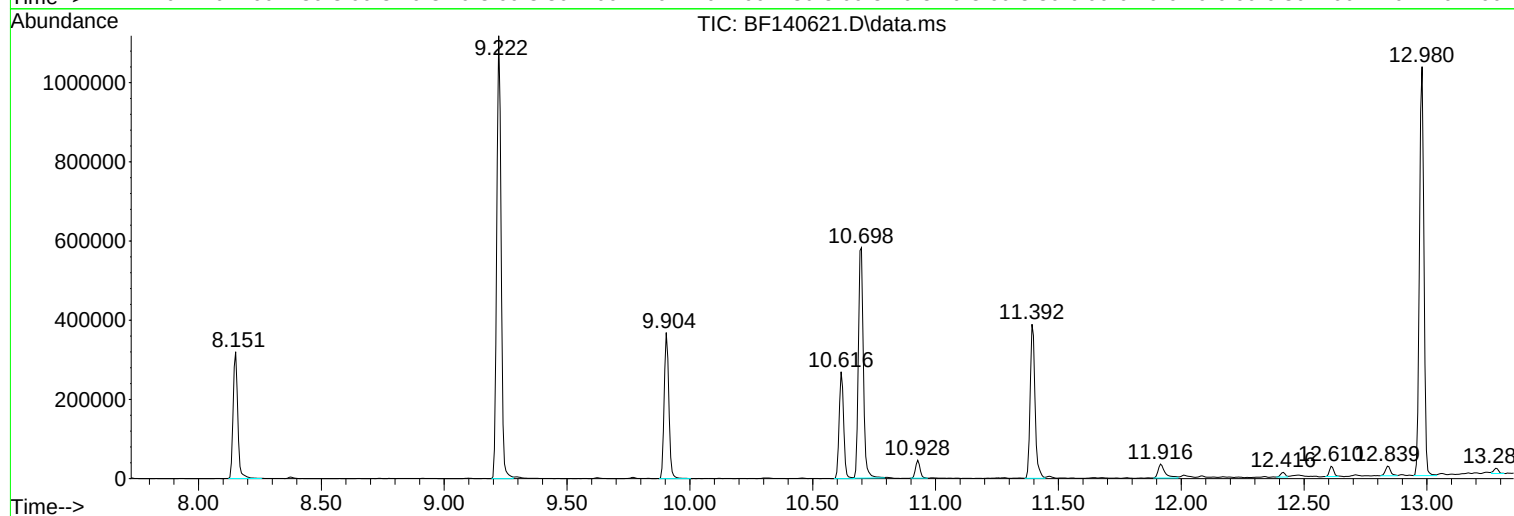
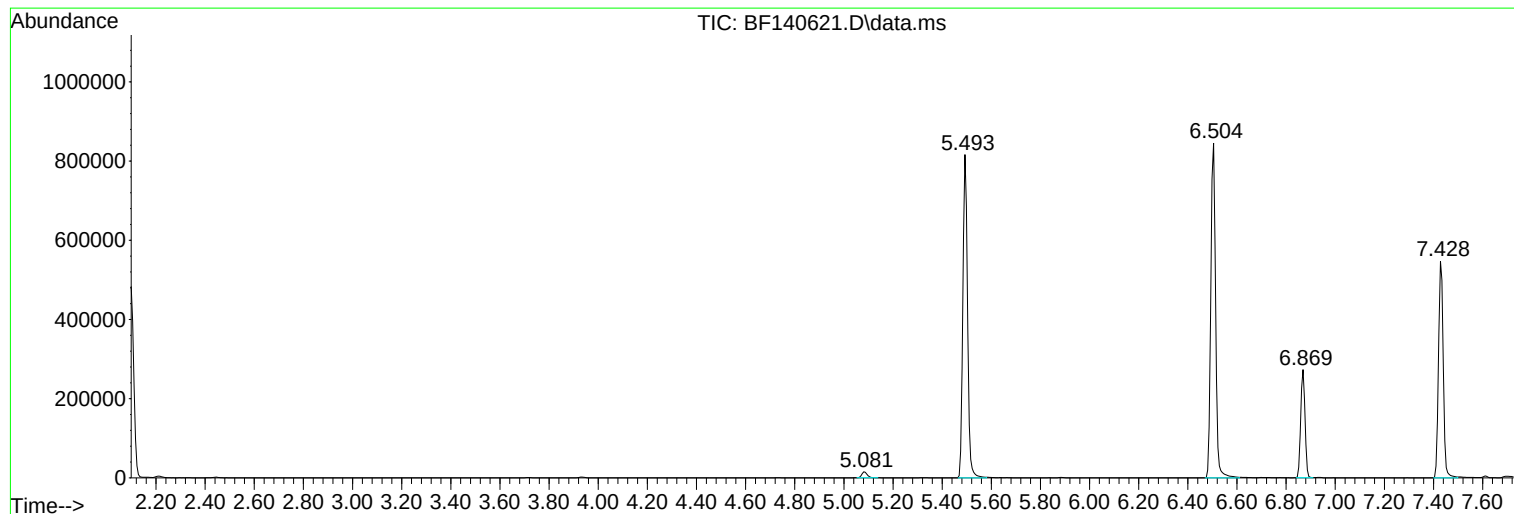
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Data File : BF140621.D
Acq On : 25 Nov 2024 23:22
Operator : RC/JU
Sample : P4860-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-008

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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\BF112524\
Data File : BF140621.D
Acq On : 25 Nov 2024 23:22
Operator : RC/JU
Sample : P4860-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-008

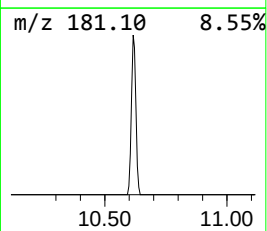
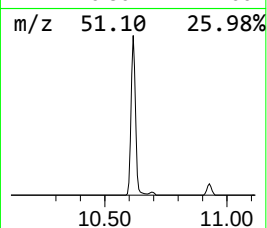
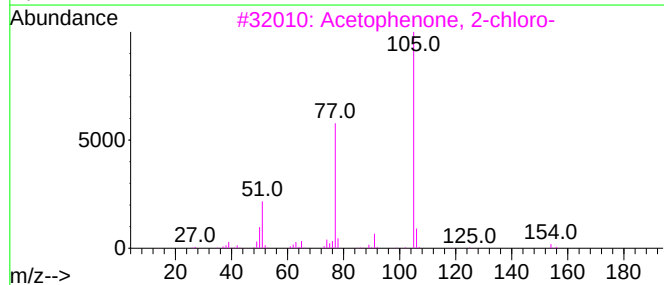
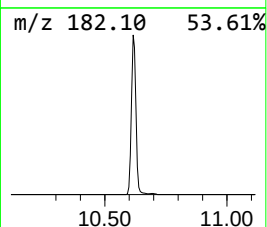
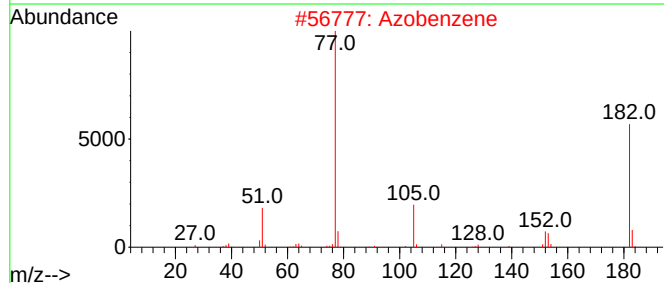
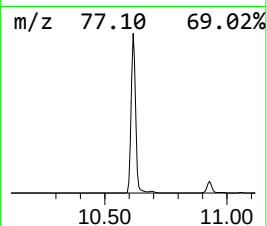
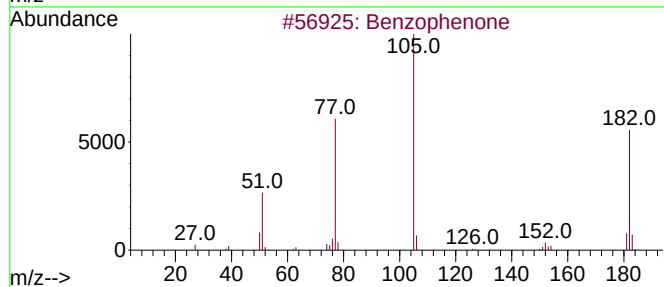
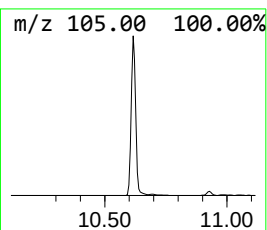
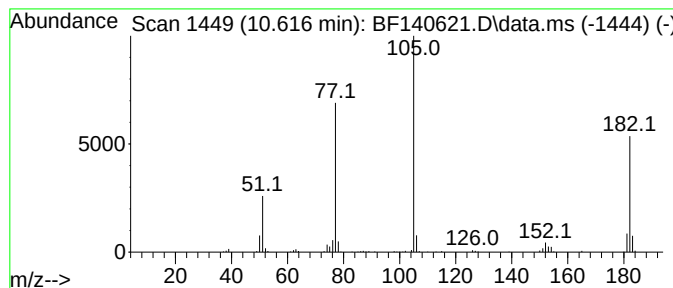
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Benzophenone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.616	14.48 ng	342604	Acenaphthene-d10	9.904

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Azobenzene	182	C12H10N2	000103-33-3	72
3			Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4			Benzoyl bromide	184	C7H5BrO	000618-32-6	47
5			Methyl 2-benzoyl-4-cyanobutanoate	231	C13H13NO3	1010486-83-8	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140621.D
Acq On : 25 Nov 2024 23:22
Operator : RC/JU
Sample : P4860-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

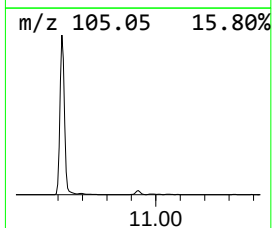
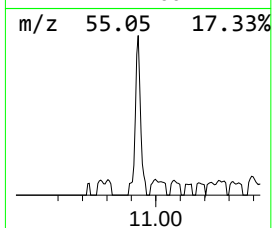
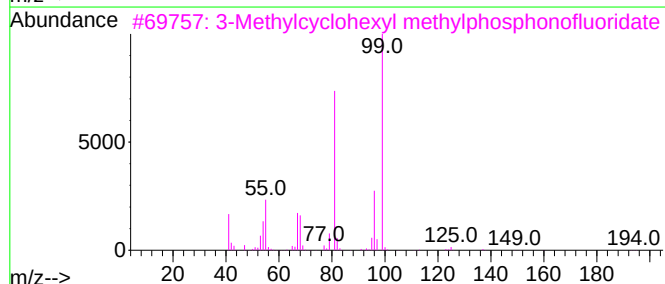
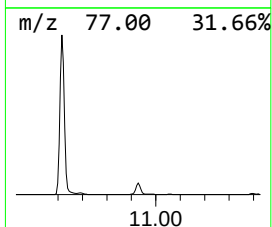
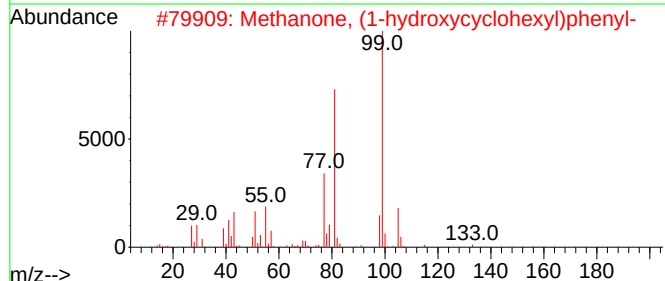
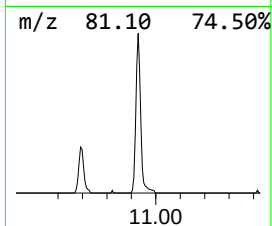
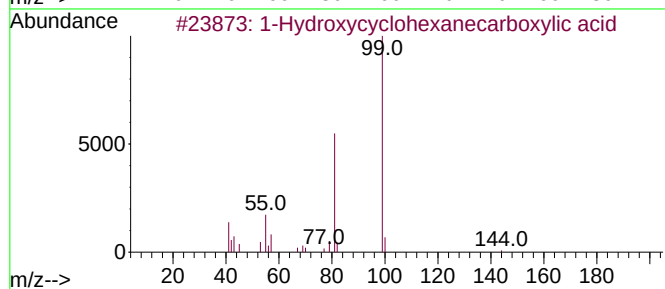
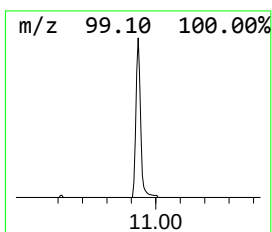
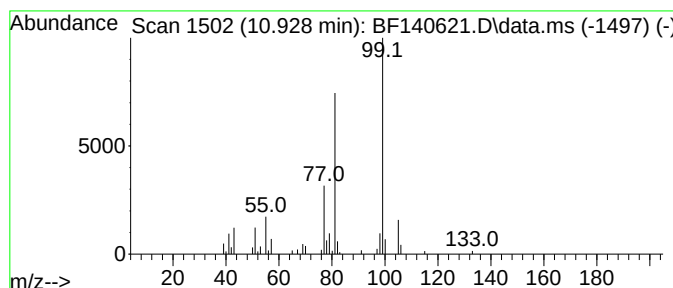
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-008

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 1-Hydroxycyclohexanecarboxy... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.	
10.928	2.17 ng	57699	Phenanthrene-d10	11.392	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hydroxycyclohexanecarboxylic acid	144	C7H12O3	001123-28-0	59
2	Methanone, (1-hydroxycyclohexyl)...	204	C13H16O2	000947-19-3	38
3	3-Methylcyclohexyl methylphospho...	194	C8H16FO2P	113548-86-0	38
4	1,1'-Bicyclohexyl-1,1'-diol	198	C12H22O2	002888-11-1	38
5	Cyclohexanol, 1-ethyl-	128	C8H16O	001940-18-7	38



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140621.D
Acq On : 25 Nov 2024 23:22
Operator : RC/JU
Sample : P4860-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-008

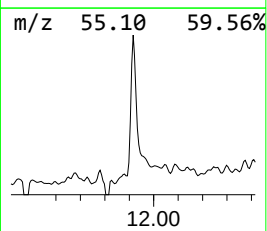
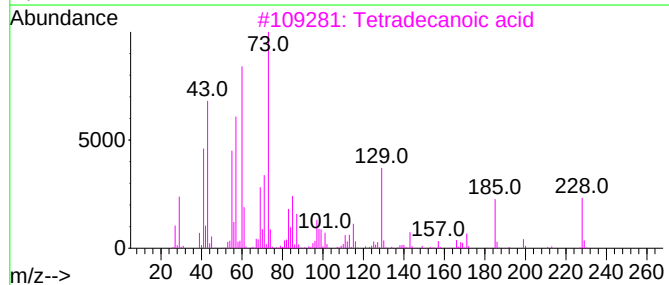
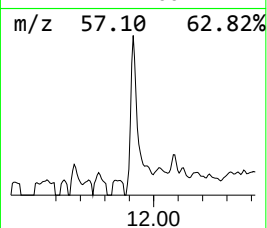
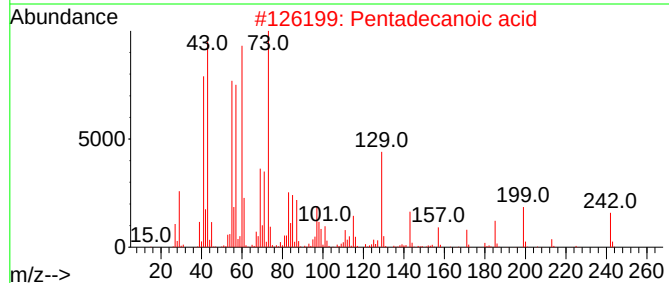
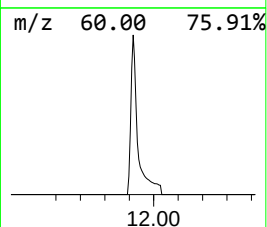
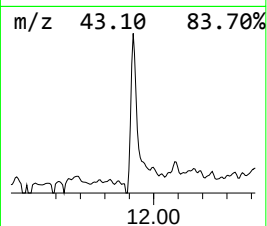
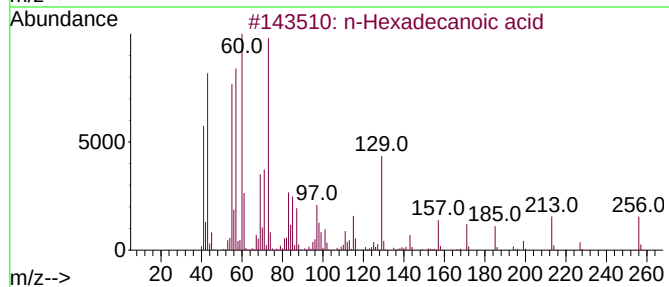
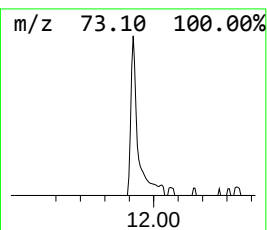
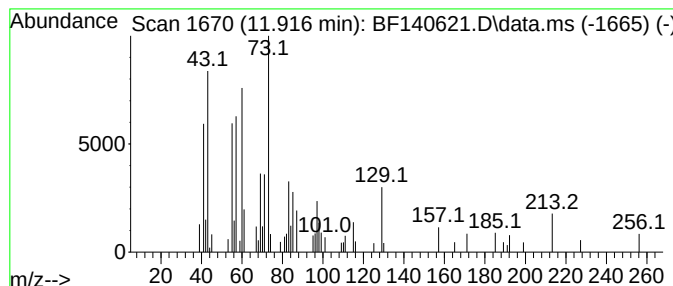
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.916	2.61 ng	69317	Phenanthrene-d10	11.392

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			n-Hexadecanoic acid	256	C16H32O2	000057-10-3	96
2			Pentadecanoic acid	242	C15H30O2	001002-84-2	83
3			Tetradecanoic acid	228	C14H28O2	000544-63-8	80
4			Undecanoic acid	186	C11H22O2	000112-37-8	72
5			Tridecanoic acid	214	C13H26O2	000638-53-9	64



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140621.D
Acq On : 25 Nov 2024 23:22
Operator : RC/JU
Sample : P4860-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-008

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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
Benzophenone	10.616	14.5	ng	342604	3	9.904	473336	20.0
1-Hydroxycycloh...	10.928	2.2	ng	57699	4	11.392	530674	20.0
n-Hexadecanoic ...	11.916	2.6	ng	69317	4	11.392	530674	20.0

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-007	SDG No.:	P4860
Lab Sample ID:	P4860-08	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	98
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
BF140578.D	1	11/16/24 08:51	11/22/24 15:32	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	UQ	190	340	ug/Kg
108-95-2	Phenol	84.5	U	84.5	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	85.3	U	85.3	170	ug/Kg
95-57-8	2-Chlorophenol	85.1	U	85.1	170	ug/Kg
95-48-7	2-Methylphenol	82.1	U	82.1	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	92.6	U	92.6	170	ug/Kg
98-86-2	Acetophenone	88.5	U	88.5	170	ug/Kg
65794-96-9	3+4-Methylphenols	81.3	U	81.3	340	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	41.1	U	41.1	81.5	ug/Kg
67-72-1	Hexachloroethane	84.6	U	84.6	170	ug/Kg
98-95-3	Nitrobenzene	92.5	U	92.5	170	ug/Kg
78-59-1	Isophorone	86.2	U	86.2	170	ug/Kg
88-75-5	2-Nitrophenol	96.3	U	96.3	170	ug/Kg
105-67-9	2,4-Dimethylphenol	94.9	U	94.9	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	87.4	U	87.4	170	ug/Kg
120-83-2	2,4-Dichlorophenol	76.9	U	76.9	170	ug/Kg
91-20-3	Naphthalene	84.1	U	84.1	170	ug/Kg
106-47-8	4-Chloroaniline	84.1	UQ	84.1	170	ug/Kg
87-68-3	Hexachlorobutadiene	84.9	U	84.9	170	ug/Kg
105-60-2	Caprolactam	88.4	U	88.4	340	ug/Kg
59-50-7	4-Chloro-3-methylphenol	79.0	U	79.0	170	ug/Kg
91-57-6	2-Methylnaphthalene	84.0	U	84.0	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	UQ	160	340	ug/Kg
88-06-2	2,4,6-Trichlorophenol	72.7	U	72.7	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	75.4	U	75.4	170	ug/Kg
92-52-4	1,1-Biphenyl	89.0	U	89.0	170	ug/Kg
91-58-7	2-Chloronaphthalene	84.9	U	84.9	170	ug/Kg
88-74-4	2-Nitroaniline	96.8	U	96.8	170	ug/Kg
131-11-3	Dimethylphthalate	83.2	U	83.2	170	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-007	SDG No.:	P4860
Lab Sample ID:	P4860-08	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	98
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
BF140578.D	1	11/16/24 08:51	11/22/24 15:32	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	88.1	U	88.1	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	84.8	U	84.8	170	ug/Kg
99-09-2	3-Nitroaniline	90.9	UQ	90.9	170	ug/Kg
83-32-9	Acenaphthene	82.6	U	82.6	170	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	340	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	340	ug/Kg
132-64-9	Dibenzofuran	86.0	U	86.0	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	87.8	U	87.8	170	ug/Kg
84-66-2	Diethylphthalate	81.6	U	81.6	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	87.2	U	87.2	170	ug/Kg
86-73-7	Fluorene	87.1	U	87.1	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	340	ug/Kg
86-30-6	n-Nitrosodiphenylamine	83.1	U	83.1	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	80.4	U	80.4	170	ug/Kg
118-74-1	Hexachlorobenzene	86.6	U	86.6	170	ug/Kg
1912-24-9	Atrazine	93.1	U	93.1	170	ug/Kg
87-86-5	Pentachlorophenol	78.7	U	78.7	340	ug/Kg
85-01-8	Phenanthrene	85.6	U	85.6	170	ug/Kg
120-12-7	Anthracene	86.0	U	86.0	170	ug/Kg
86-74-8	Carbazole	81.8	U	81.8	170	ug/Kg
84-74-2	Di-n-butylphthalate	85.9	U	85.9	170	ug/Kg
206-44-0	Fluoranthene	83.2	U	83.2	170	ug/Kg
129-00-0	Pyrene	84.6	U	84.6	170	ug/Kg
85-68-7	Butylbenzylphthalate	98.6	U	98.6	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	100	UQ	100	340	ug/Kg
56-55-3	Benzo(a)anthracene	82.2	U	82.2	170	ug/Kg
218-01-9	Chrysene	81.0	U	81.0	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	92.7	U	92.7	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	340	ug/Kg
205-99-2	Benzo(b)fluoranthene	82.6	U	82.6	170	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-007	SDG No.:	P4860
Lab Sample ID:	P4860-08	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	98
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
BF140578.D	1	11/16/24 08:51	11/22/24 15:32	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	84.1	U	84.1	170	ug/Kg
50-32-8	Benzo(a)pyrene	94.7	U	94.7	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	79.6	U	79.6	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	82.7	U	82.7	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	81.6	U	81.6	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	88.4	U	88.4	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	76.1	U	76.1	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	75.2		30 (18) - 130 (112)	50%	SPK: 150
13127-88-3	Phenol-d6	75.3		30 (15) - 130 (107)	50%	SPK: 150
4165-60-0	Nitrobenzene-d5	52.4		30 (18) - 130 (107)	52%	SPK: 100
321-60-8	2-Fluorobiphenyl	55.8		30 (20) - 130 (109)	56%	SPK: 100
118-79-6	2,4,6-Tribromophenol	74.2		30 (10) - 130 (116)	49%	SPK: 150
1718-51-0	Terphenyl-d14	54.1		30 (10) - 130 (105)	54%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	93300	6.869			
1146-65-2	Naphthalene-d8	346000	8.151			
15067-26-2	Acenaphthene-d10	184000	9.904			
1517-22-2	Phenanthrene-d10	341000	11.398			
1719-03-5	Chrysene-d12	203000	14.045			
1520-96-3	Perylene-d12	190000	15.533			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	1200	JB		2.14	ug/Kg
000119-61-9	Benzophenone	320	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	130	J		11.9	ug/Kg
010192-32-2	1-Tetracosene	150	J		13.9	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-007	SDG No.:	P4860
Lab Sample ID:	P4860-08	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	98
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
BF140578.D	1	11/16/24 08:51	11/22/24 15:32	PB165029

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\BF112224\
Data File : BF140578.D
Acq On : 22 Nov 2024 15:32
Operator : RC/JU
Sample : P4860-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-007

Quant Time: Nov 22 15:59:54 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	93283	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	346410	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	184115	20.000	ng	-0.01
64) Phenanthrene-d10	11.398	188	340852	20.000	ng	0.00
76) Chrysene-d12	14.045	240	203007	20.000	ng	0.00
86) Perylene-d12	15.533	264	190451	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.499	112	411293	75.228	ng	0.00
7) Phenol-d6	6.504	99	543906	75.251	ng	-0.01
23) Nitrobenzene-d5	7.428	82	354742	52.381	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	146071	74.181	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	689195	55.773	ng	-0.01
79) Terphenyl-d14	12.980	244	705882	54.143	ng	-0.01

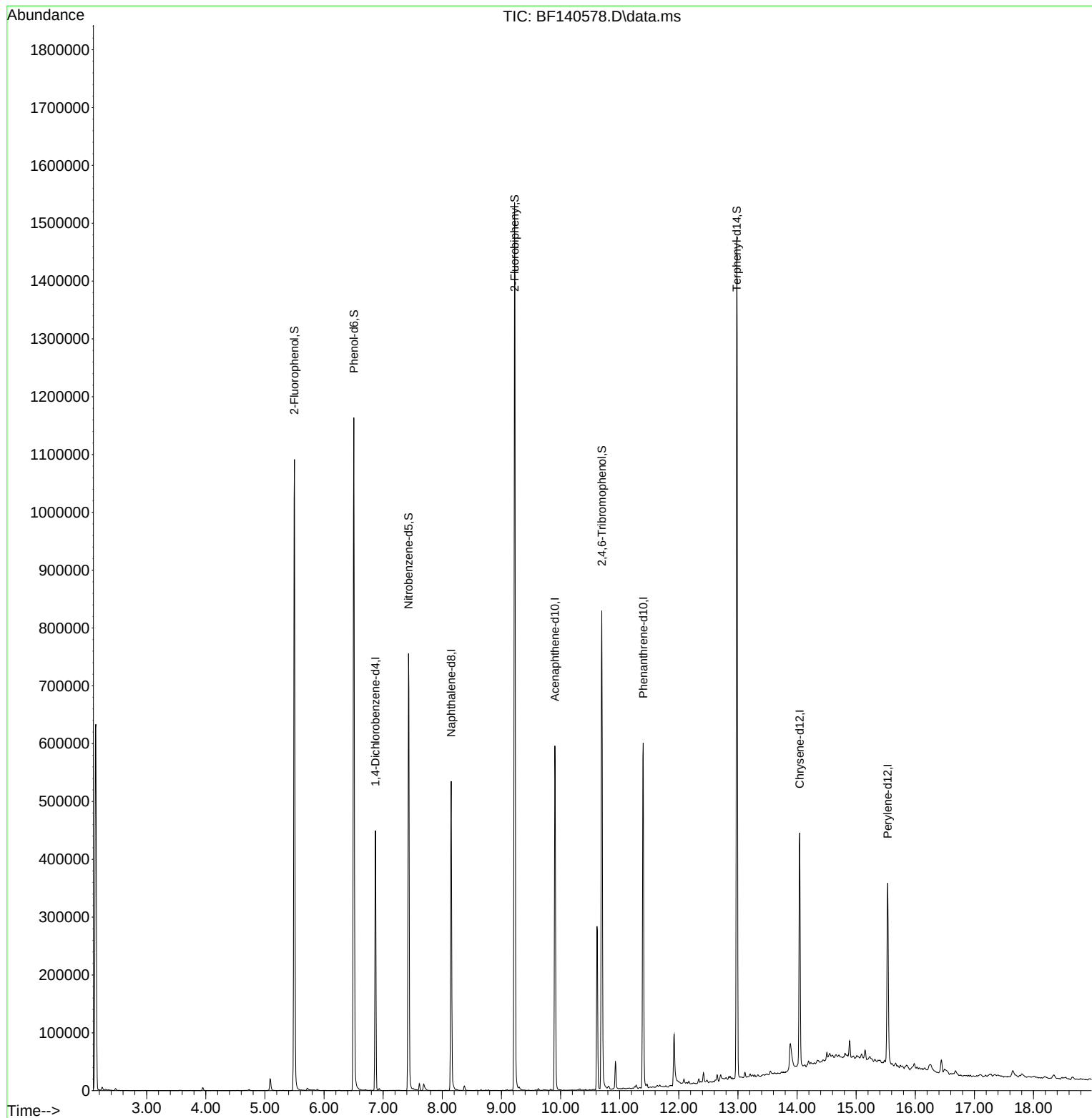
Target Compounds	Qvalue

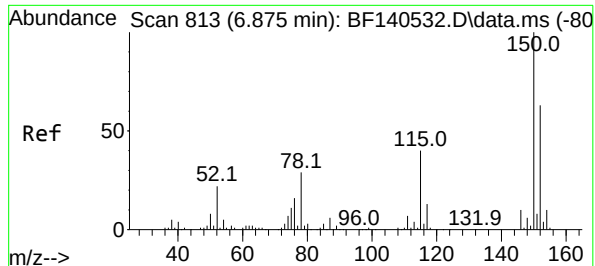
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140578.D
Acq On : 22 Nov 2024 15:32
Operator : RC/JU
Sample : P4860-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-007

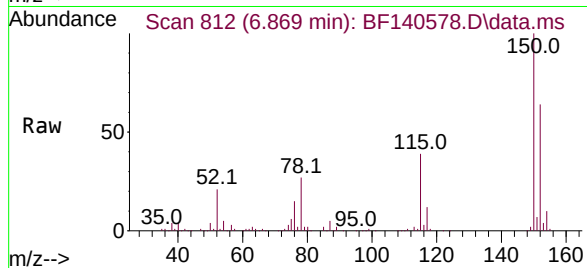
Quant Time: Nov 22 15:59:54 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



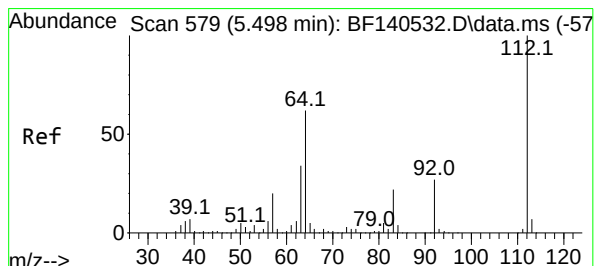
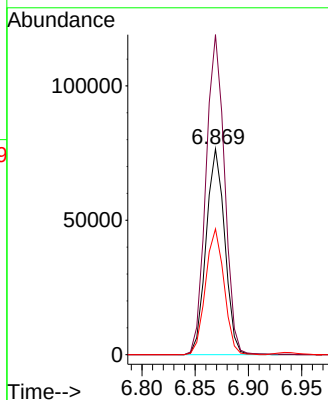
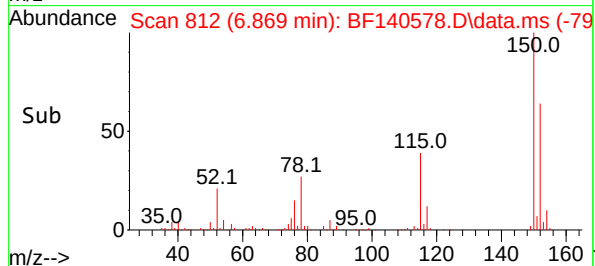


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 813
Delta R.T. -0.006 min
Lab File: BF140578.D
Acq: 22 Nov 2024 15:32

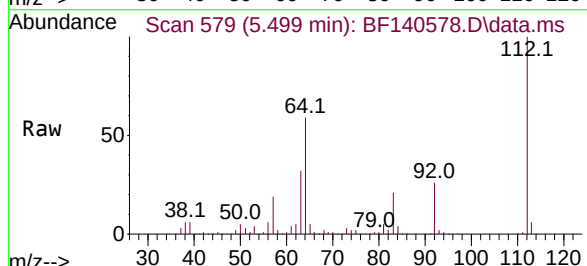
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-007



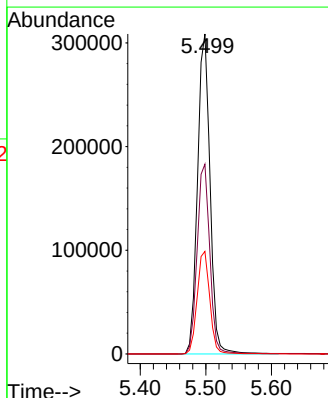
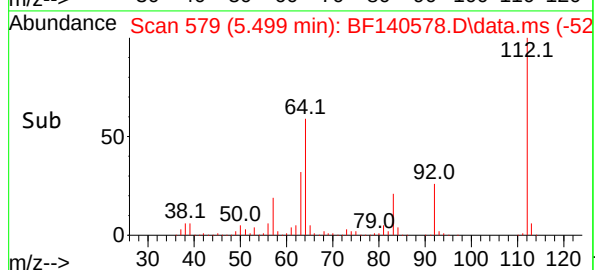
Tgt Ion:152 Resp: 93283
Ion Ratio Lower Upper
152 100
150 155.5 128.5 192.7
115 61.1 50.2 75.4

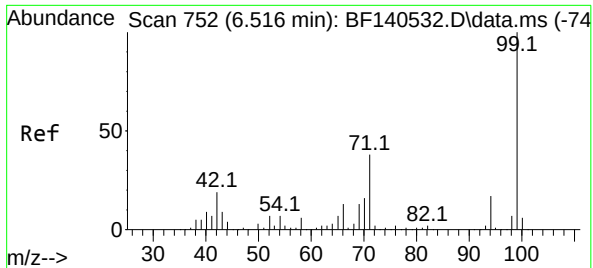


#5
2-Fluorophenol
Concen: 75.228 ng
RT: 5.499 min Scan# 579
Delta R.T. 0.000 min
Lab File: BF140578.D
Acq: 22 Nov 2024 15:32



Tgt Ion:112 Resp: 411293
Ion Ratio Lower Upper
112 100
64 59.3 49.2 73.8
63 32.1 27.0 40.4

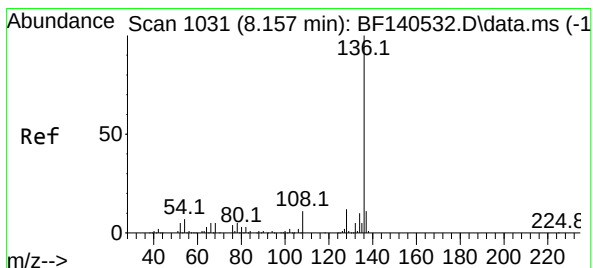
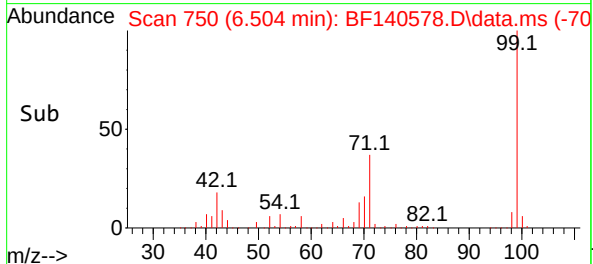
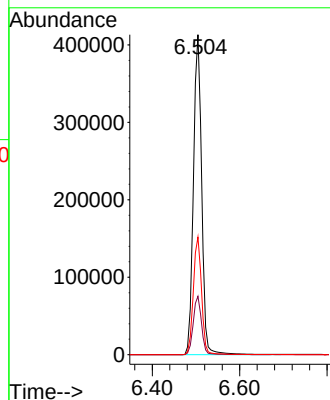
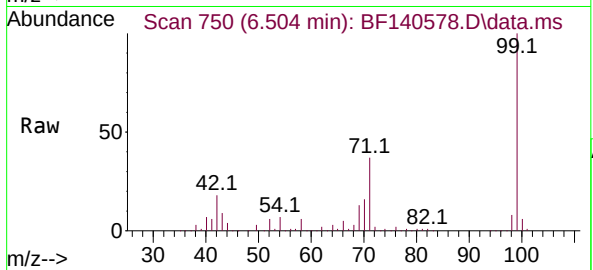




#7
Phenol-d6
Concen: 75.251 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF140578.D
Acq: 22 Nov 2024 15:32

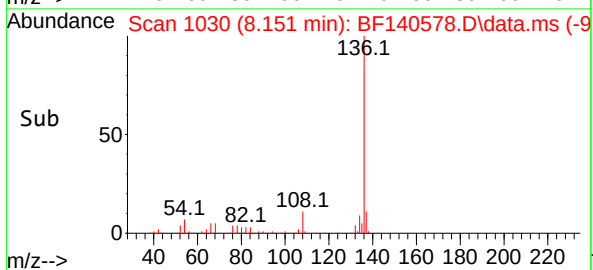
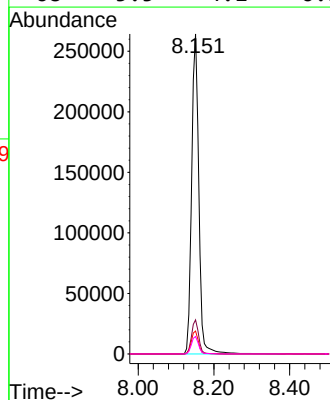
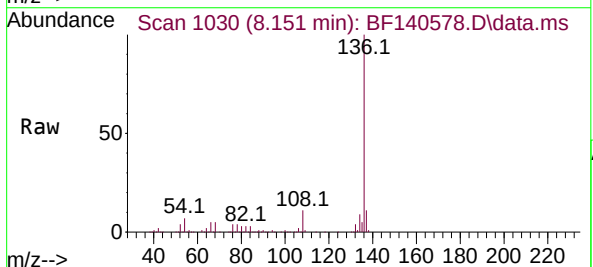
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-007

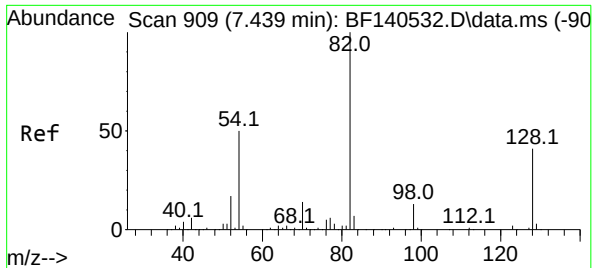
Tgt Ion: 99 Resp: 543906
Ion Ratio Lower Upper
99 100
42 18.2 15.4 23.0
71 36.7 30.6 46.0



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140578.D
Acq: 22 Nov 2024 15:32

Tgt Ion: 136 Resp: 346410
Ion Ratio Lower Upper
136 100
137 10.7 8.6 13.0
54 7.2 5.8 8.8
68 5.5 4.1 6.1





#23

Nitrobenzene-d5

Concen: 52.381 ng

RT: 7.428 min Scan# 909

Delta R.T. -0.012 min

Lab File: BF140578.D

Acq: 22 Nov 2024 15:32

Instrument :

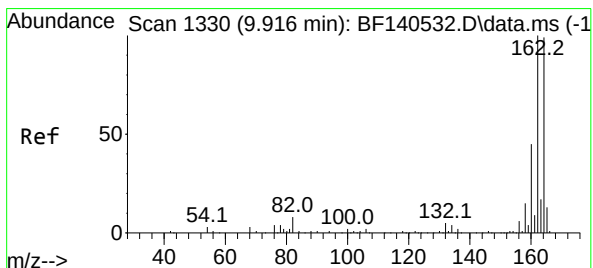
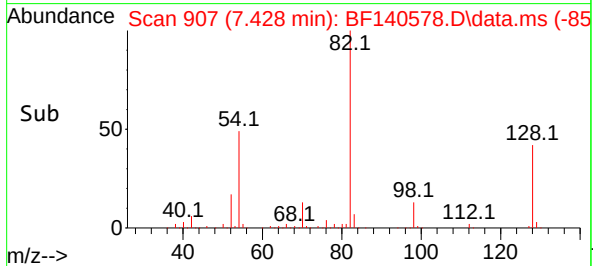
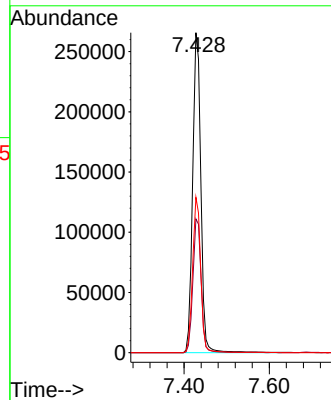
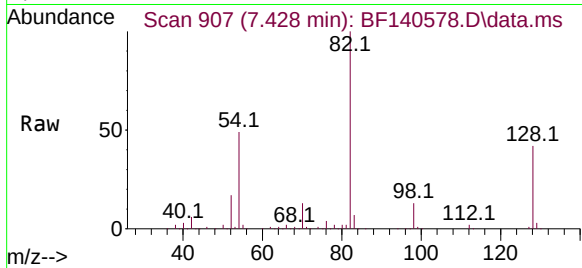
BNA_F

ClientSampleId :

PH2-BOT-007

Tgt Ion: 82 Resp: 354742

Ion	Ratio	Lower	Upper
82	100		
128	41.8	33.0	49.4
54	48.6	39.5	59.3



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.904 min Scan# 1328

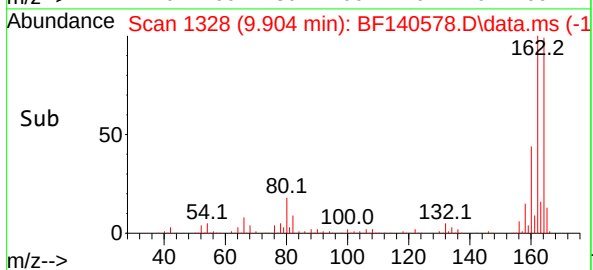
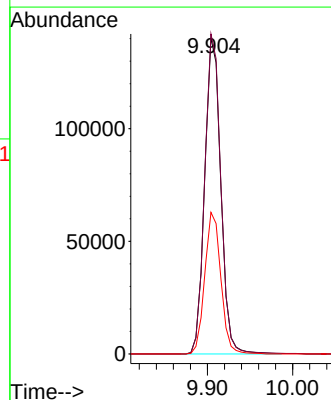
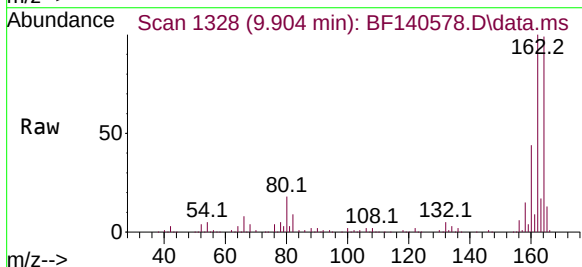
Delta R.T. -0.012 min

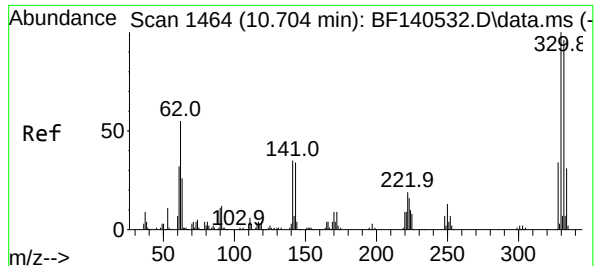
Lab File: BF140578.D

Acq: 22 Nov 2024 15:32

Tgt Ion:164 Resp: 184115

Ion	Ratio	Lower	Upper
164	100		
162	101.3	80.6	120.8
160	44.8	36.2	54.4





#42

2,4,6-Tribromophenol

Concen: 74.181 ng

RT: 10.698 min Scan# 1463

Delta R.T. -0.006 min

Lab File: BF140578.D

Acq: 22 Nov 2024 15:32

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-007

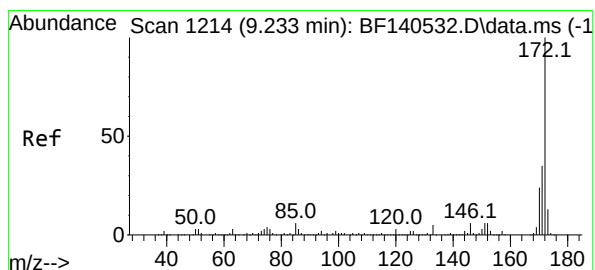
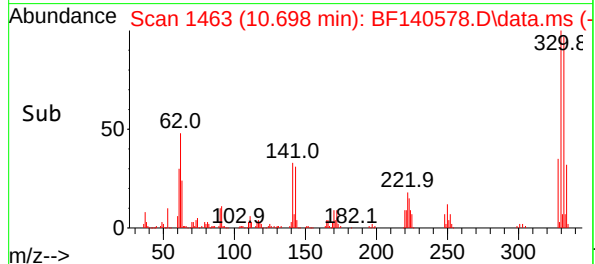
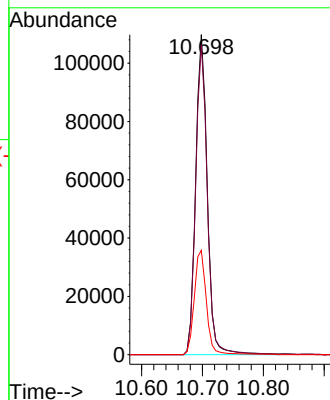
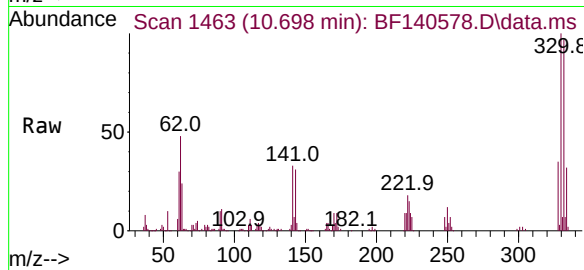
Tgt Ion:330 Resp: 146071

Ion Ratio Lower Upper

330 100

332 97.1 76.9 115.3

141 33.9 26.7 40.1



#45

2-Fluorobiphenyl

Concen: 55.773 ng

RT: 9.222 min Scan# 1212

Delta R.T. -0.012 min

Lab File: BF140578.D

Acq: 22 Nov 2024 15:32

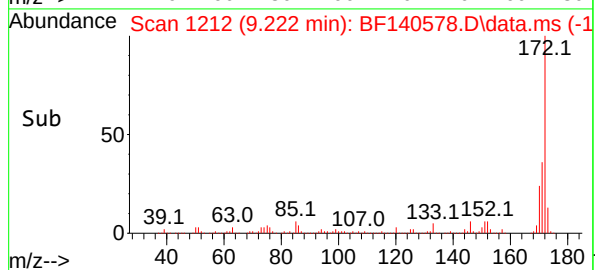
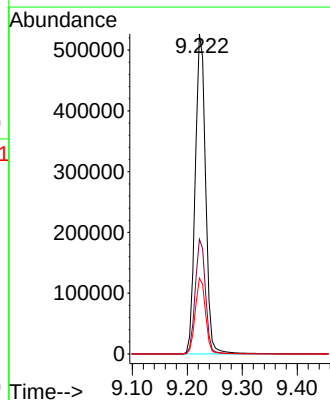
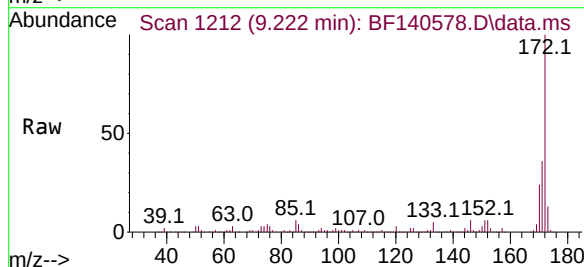
Tgt Ion:172 Resp: 689195

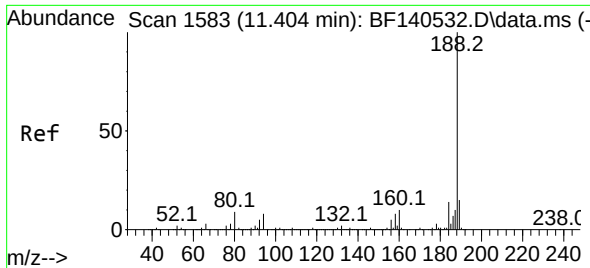
Ion Ratio Lower Upper

172 100

171 35.9 28.4 42.6

170 23.7 19.0 28.6

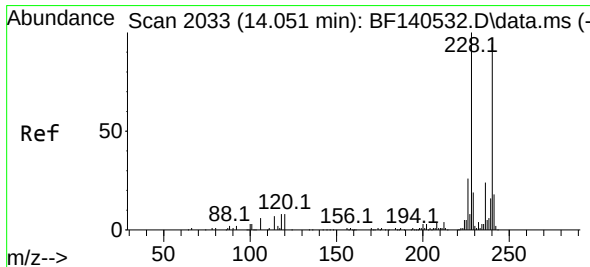
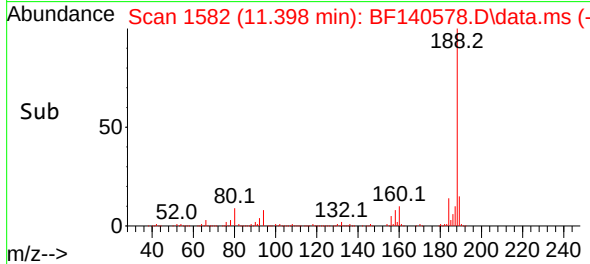
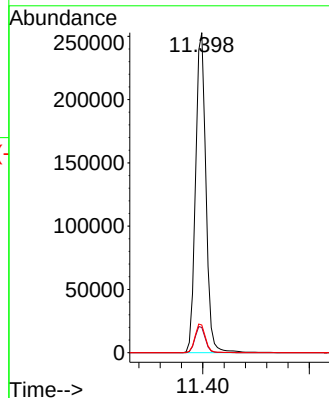
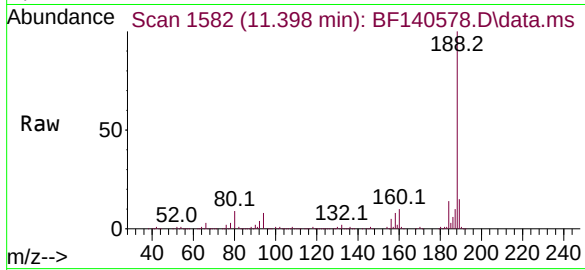




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF140578.D
Acq: 22 Nov 2024 15:32

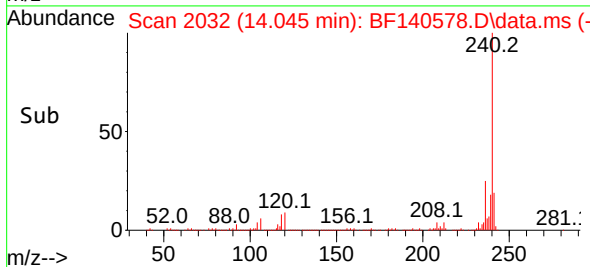
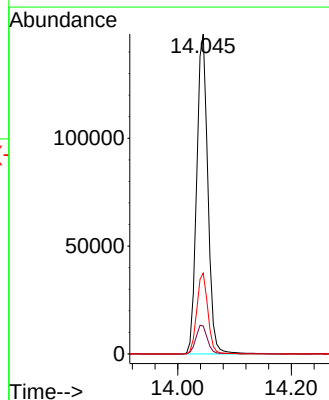
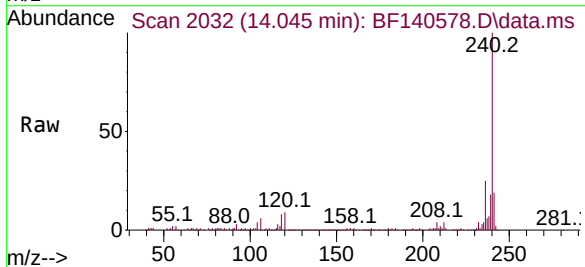
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-007

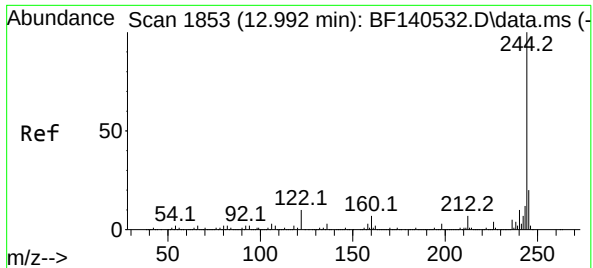
Tgt Ion:188 Resp: 340852
Ion Ratio Lower Upper
188 100
94 7.9 6.4 9.6
80 8.6 6.9 10.3



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140578.D
Acq: 22 Nov 2024 15:32

Tgt Ion:240 Resp: 203007
Ion Ratio Lower Upper
240 100
120 8.7 7.3 10.9
236 25.3 20.6 31.0





#79

Terphenyl-d14

Concen: 54.143 ng

RT: 12.980 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF140578.D

Acq: 22 Nov 2024 15:32

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-007

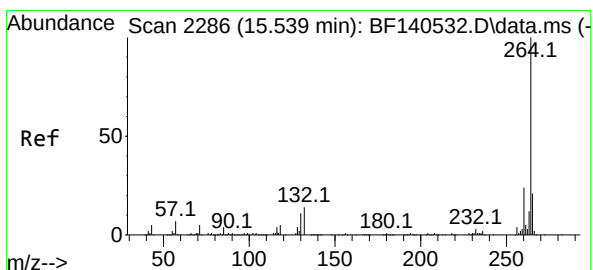
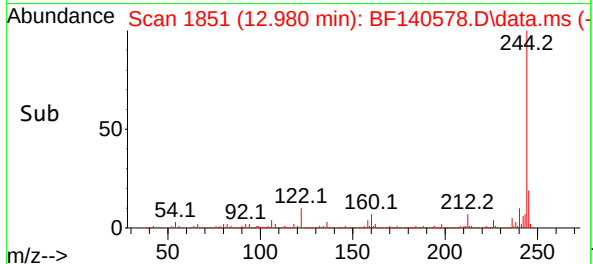
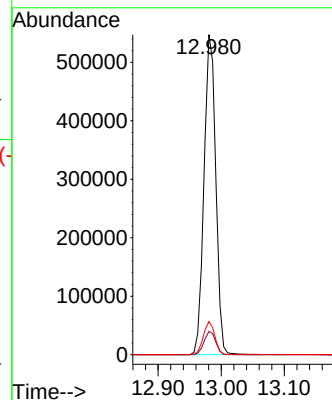
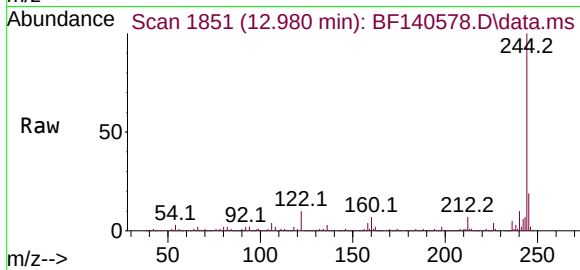
Tgt Ion:244 Resp: 705882

Ion Ratio Lower Upper

244 100

212 7.3 5.8 8.8

122 10.4 8.0 12.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.533 min Scan# 2285

Delta R.T. -0.006 min

Lab File: BF140578.D

Acq: 22 Nov 2024 15:32

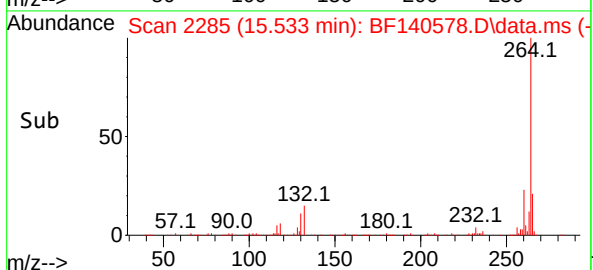
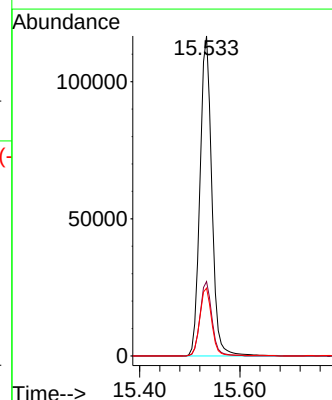
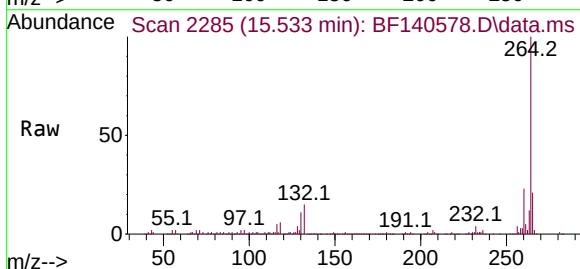
Tgt Ion:264 Resp: 190451

Ion Ratio Lower Upper

264 100

260 23.3 19.0 28.6

265 21.2 16.6 25.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
 Data File : BF140578.D
 Acq On : 22 Nov 2024 15:32
 Operator : RC/JU
 Sample : P4860-08
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PH2-BOT-007

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-BF112124.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140578.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.140	3	8	15	rVB	632045	997274	50.50%	6.785%
2	5.087	501	509	520	rBV	20430	34982	1.77%	0.238%
3	5.499	573	579	598	rBV	1091468	1462476	74.05%	9.951%
4	6.504	744	750	774	rBV	1163733	1541971	78.08%	10.492%
5	6.869	807	812	817	rBV	449413	544959	27.59%	3.708%
6	7.428	902	907	918	rBV	755586	995695	50.42%	6.775%
7	7.687	947	951	963	rVB	11169	23683	1.20%	0.161%
8	8.151	1024	1030	1043	rBV	534347	690774	34.98%	4.700%
9	9.222	1207	1212	1223	rBV	1535184	1974892	100.00%	13.437%
10	9.904	1323	1328	1341	rBV	595458	773003	39.14%	5.260%
11	10.616	1445	1449	1458	rBV	282552	368338	18.65%	2.506%
12	10.698	1458	1463	1478	rVV	826556	1113695	56.39%	7.578%
13	10.928	1495	1502	1512	rBV	47805	65079	3.30%	0.443%
14	11.398	1576	1582	1590	rBV	597238	805271	40.78%	5.479%
15	11.922	1666	1671	1680	rBV	88391	156485	7.92%	1.065%
16	12.416	1751	1755	1761	rBV	16245	22820	1.16%	0.155%
17	12.980	1846	1851	1859	rBV	1454675	1855529	93.96%	12.625%
18	13.886	2000	2005	2018	rBV4	42820	123822	6.27%	0.842%
19	14.045	2027	2032	2041	rVB	403201	552594	27.98%	3.760%
20	14.886	2172	2175	2180	rVB	28716	39381	1.99%	0.268%
21	15.533	2279	2285	2295	rVB	312999	518542	26.26%	3.528%
22	16.439	2435	2439	2444	rVB4	20877	35879	1.82%	0.244%

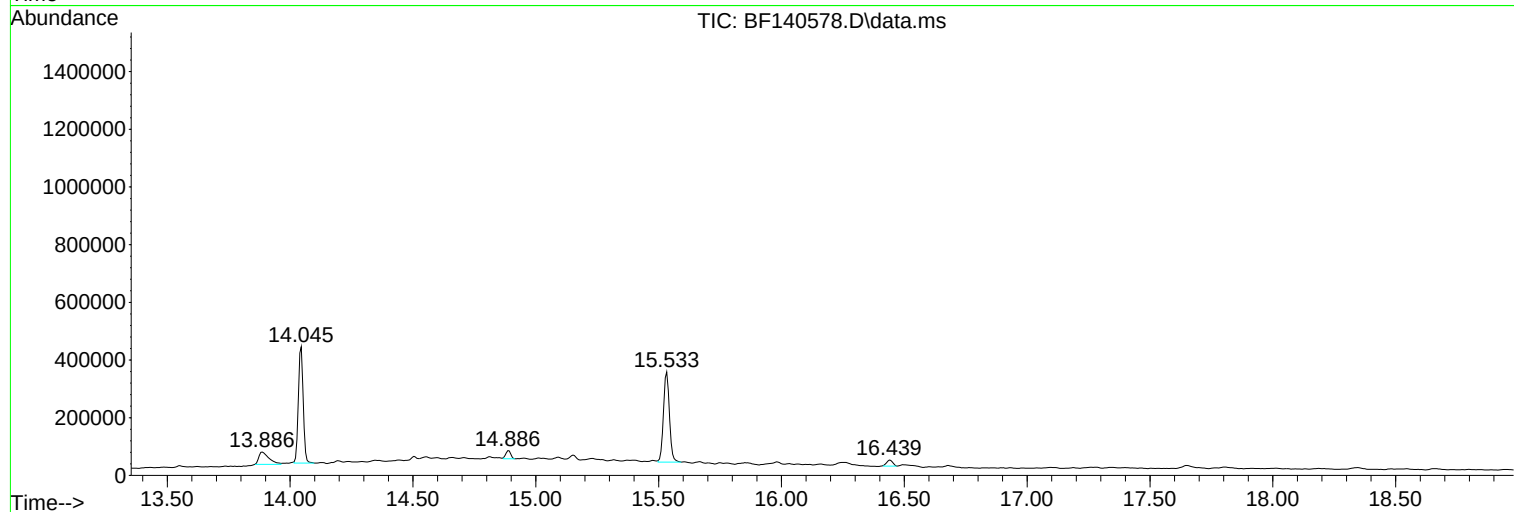
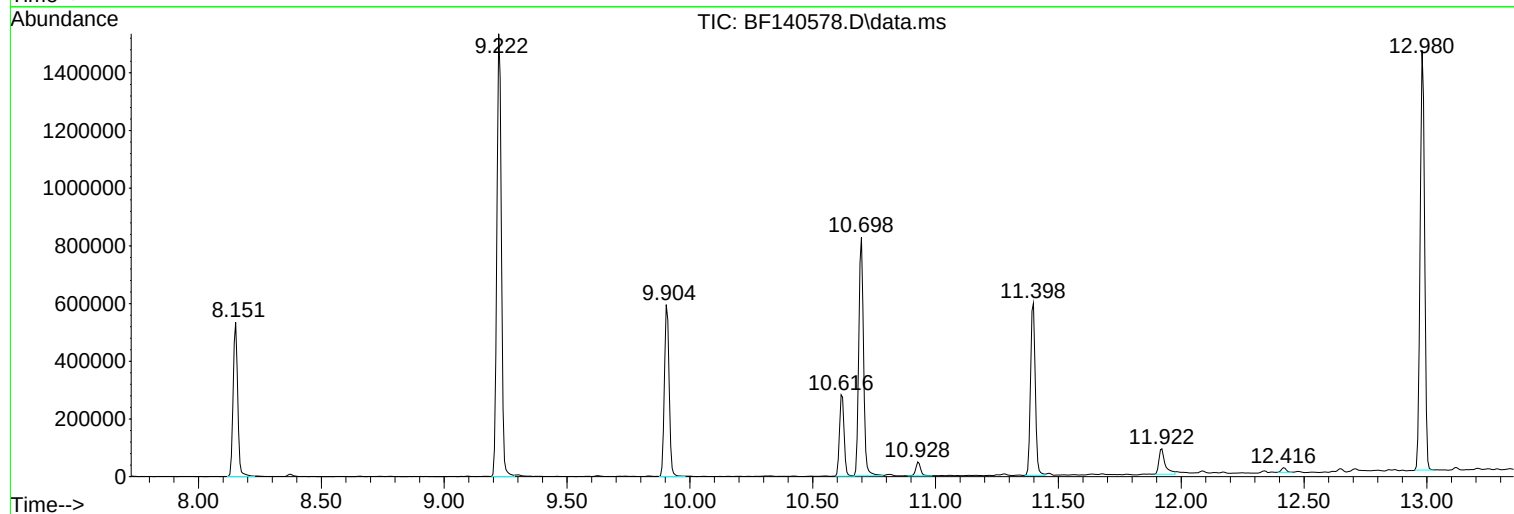
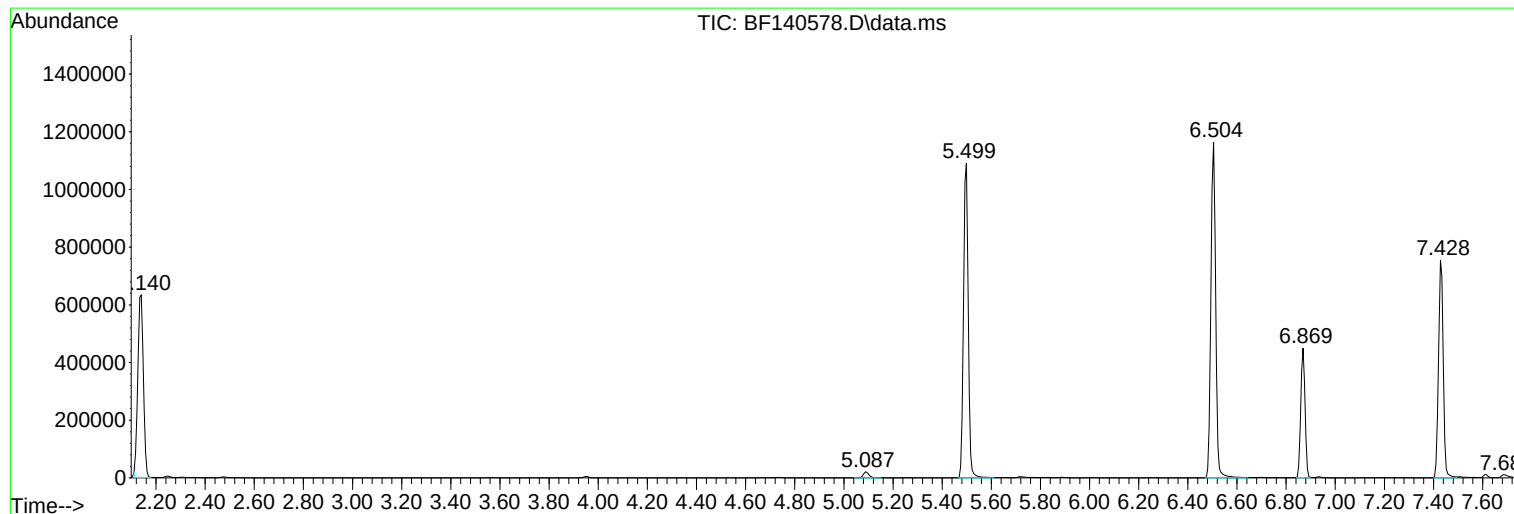
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Data File : BF140578.D
Acq On : 22 Nov 2024 15:32
Operator : RC/JU
Sample : P4860-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-007

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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\BF112224\
Data File : BF140578.D
Acq On : 22 Nov 2024 15:32
Operator : RC/JU
Sample : P4860-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-007

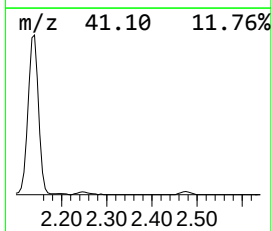
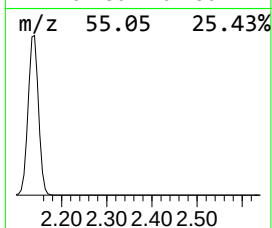
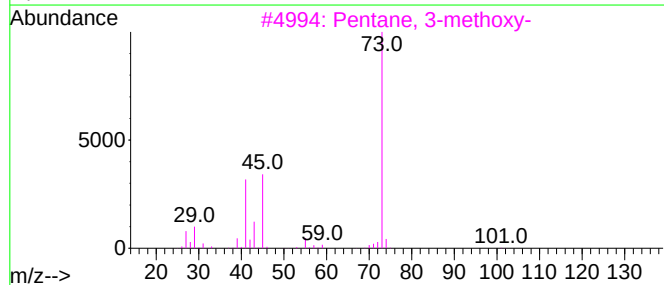
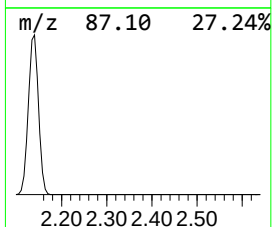
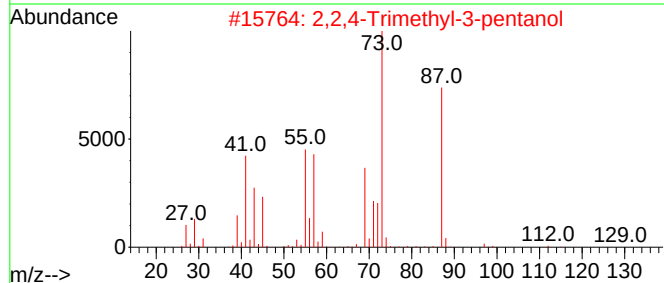
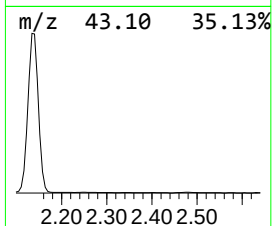
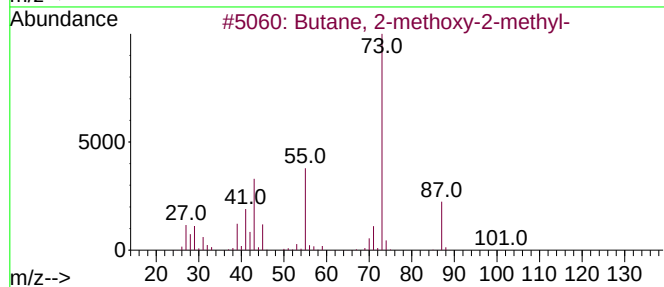
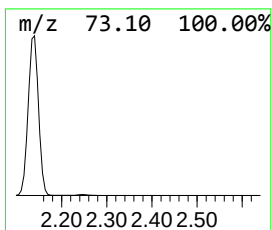
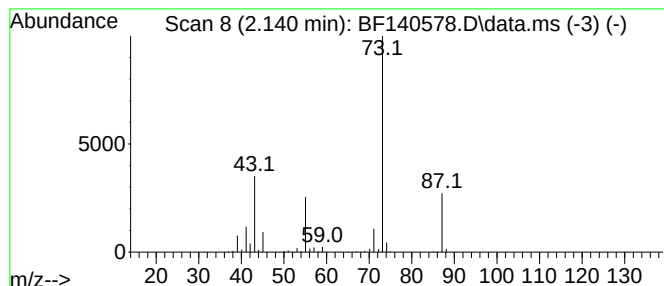
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.140	36.60 ng	997274	1,4-Dichlorobenzene-d4	6.869

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2			2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3			Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
4			Silane, tetramethyl-	88	C4H12Si	000075-76-3	12
5			Borane, dimethoxy-	74	C2H7BO2	004542-61-4	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140578.D
Acq On : 22 Nov 2024 15:32
Operator : RC/JU
Sample : P4860-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-007

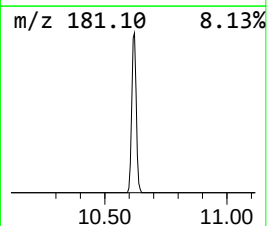
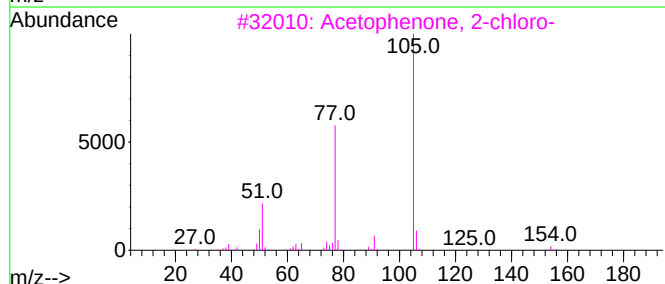
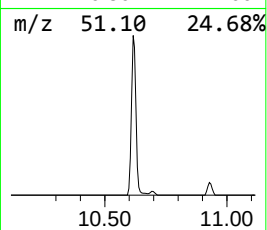
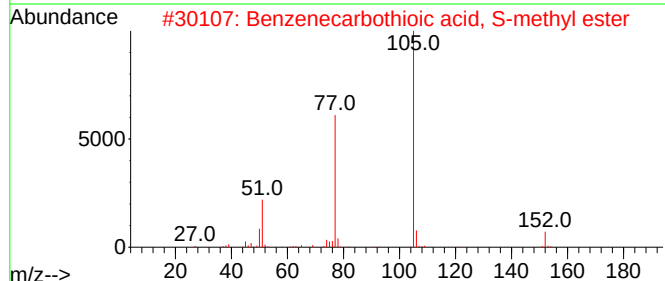
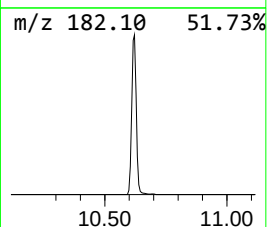
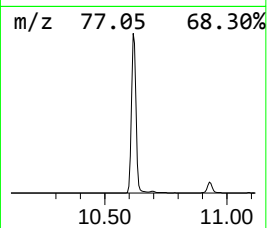
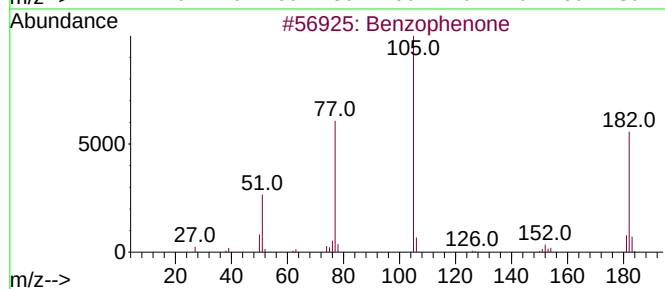
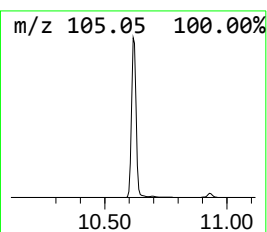
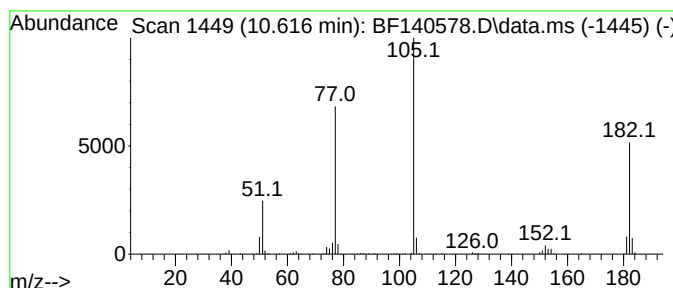
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.616	9.53 ng	368338	Acenaphthene-d10	9.904

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
3			Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4			Benzenepropanenitrile, .beta.-oxo-	145	C9H7NO	000614-16-4	47
5			.alpha.,.alpha.-Dichloroacetophe...	188	C8H6Cl2O	002648-61-5	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140578.D
Acq On : 22 Nov 2024 15:32
Operator : RC/JU
Sample : P4860-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-007

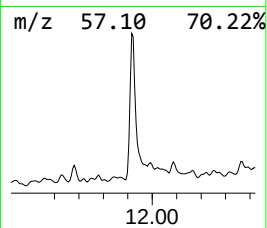
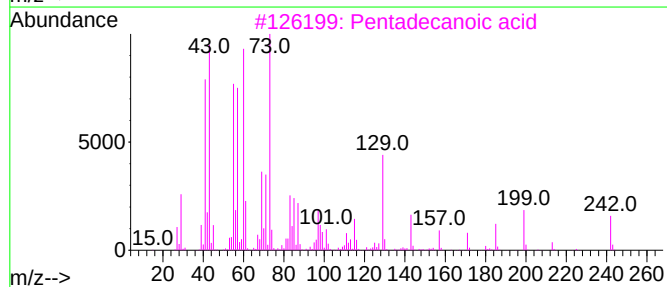
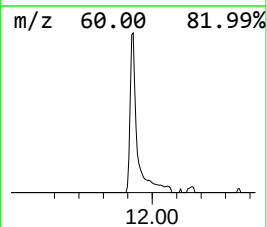
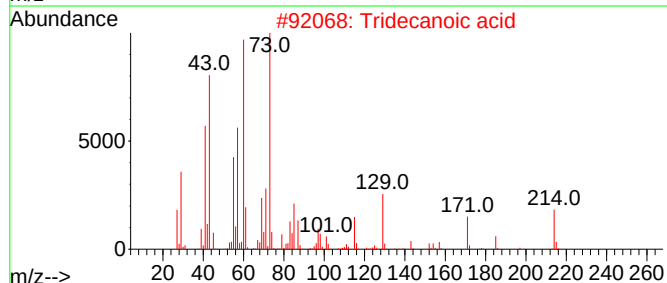
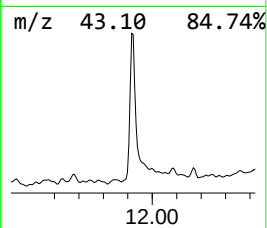
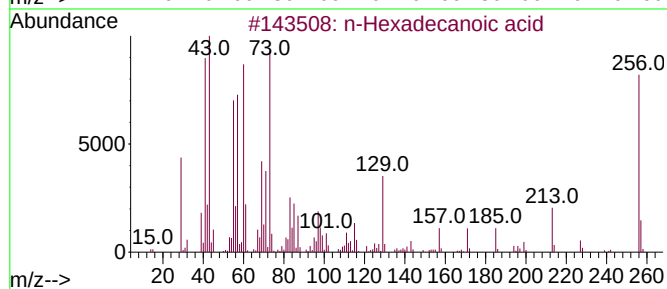
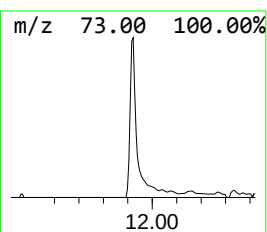
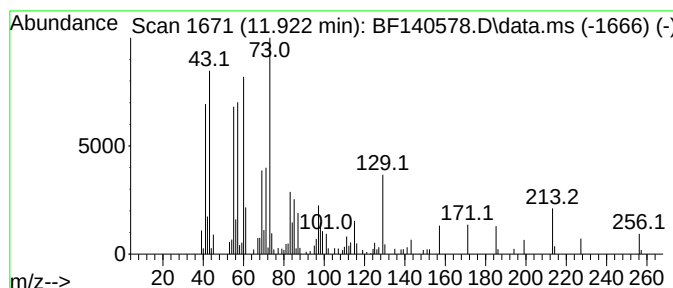
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.922	3.89 ng	156485	Phenanthrene-d10	11.398

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	87
3			Pentadecanoic acid	242	C15H30O2	001002-84-2	87
4			Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5			Estra-1,3,5(10)-trien-17.β-ol	256	C18H24O	002529-64-8	30



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140578.D
Acq On : 22 Nov 2024 15:32
Operator : RC/JU
Sample : P4860-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-007

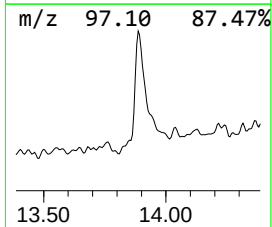
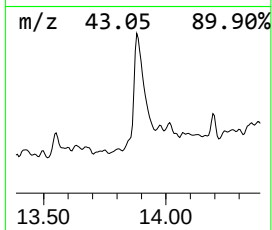
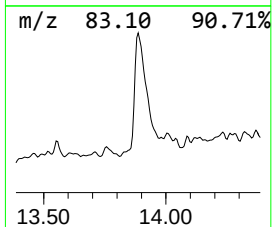
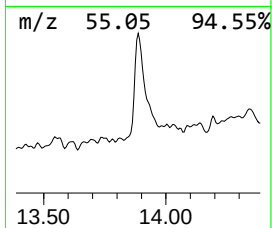
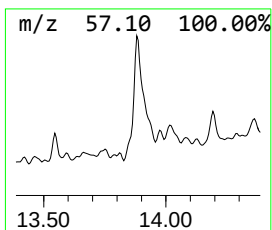
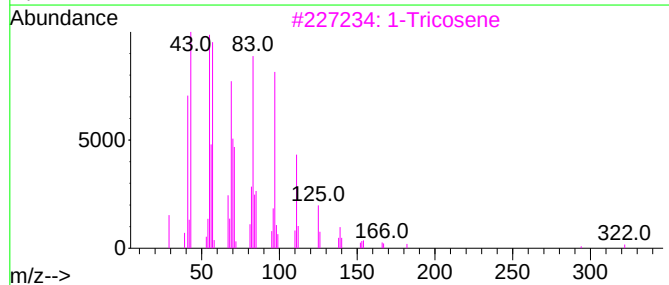
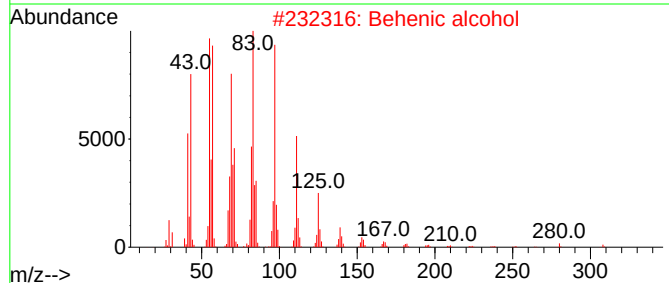
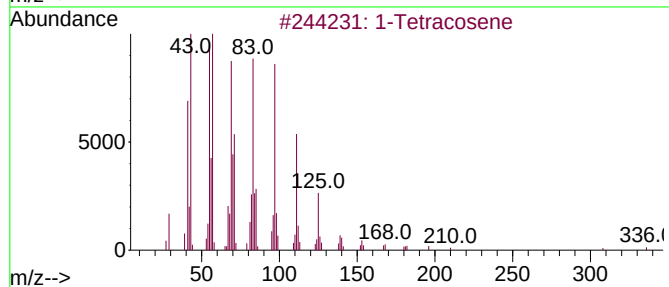
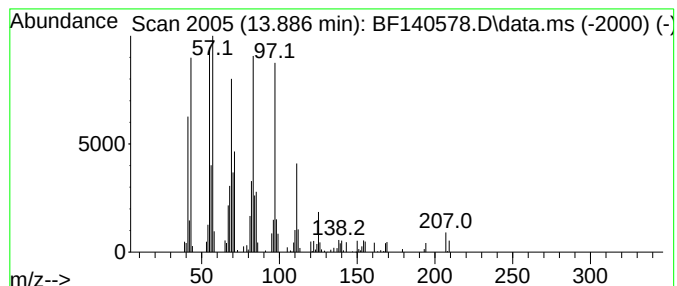
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 1-Tetracosene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.886	4.48 ng	123822	Chrysene-d12	14.045

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Tetracosene		336	C24H48	010192-32-2	94
2	Behenic alcohol		326	C22H46O	000661-19-8	94
3	1-Tricosene		322	C23H46	018835-32-0	94
4	1-Heneicosanol		312	C21H44O	015594-90-8	94
5	1-Hexacosene		364	C26H52	018835-33-1	94



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140578.D
Acq On : 22 Nov 2024 15:32
Operator : RC/JU
Sample : P4860-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-007

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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
Butane, 2-metho...	2.140	36.6	ng	997274	1	6.869	544959	20.0
Benzophenone	10.616	9.5	ng	368338	3	9.904	773003	20.0
n-Hexadecanoic ...	11.922	3.9	ng	156485	4	11.398	805271	20.0
1-Tetracosene	13.886	4.5	ng	123822	5	14.045	552594	20.0

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-006	SDG No.:	P4860
Lab Sample ID:	P4860-09	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	97.5
Sample Wt/Vol:	30.09	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
BF140608.D	1	11/16/24 08:51	11/25/24 17:41	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	UQ	190	340	ug/Kg
108-95-2	Phenol	84.8	U	84.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	85.6	U	85.6	170	ug/Kg
95-57-8	2-Chlorophenol	85.4	U	85.4	170	ug/Kg
95-48-7	2-Methylphenol	82.4	U	82.4	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	93.0	U	93.0	170	ug/Kg
98-86-2	Acetophenone	88.9	U	88.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	81.6	U	81.6	340	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	41.2	U	41.2	81.8	ug/Kg
67-72-1	Hexachloroethane	84.9	U	84.9	170	ug/Kg
98-95-3	Nitrobenzene	92.8	U	92.8	170	ug/Kg
78-59-1	Isophorone	86.5	U	86.5	170	ug/Kg
88-75-5	2-Nitrophenol	96.6	U	96.6	170	ug/Kg
105-67-9	2,4-Dimethylphenol	95.3	U	95.3	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	87.7	U	87.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	77.2	U	77.2	170	ug/Kg
91-20-3	Naphthalene	84.5	U	84.5	170	ug/Kg
106-47-8	4-Chloroaniline	84.5	UQ	84.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	85.2	U	85.2	170	ug/Kg
105-60-2	Caprolactam	88.8	U	88.8	340	ug/Kg
59-50-7	4-Chloro-3-methylphenol	79.2	U	79.2	170	ug/Kg
91-57-6	2-Methylnaphthalene	84.4	U	84.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	UQ	160	340	ug/Kg
88-06-2	2,4,6-Trichlorophenol	73.0	U	73.0	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	75.7	U	75.7	170	ug/Kg
92-52-4	1,1-Biphenyl	89.4	U	89.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	85.2	U	85.2	170	ug/Kg
88-74-4	2-Nitroaniline	97.1	U	97.1	170	ug/Kg
131-11-3	Dimethylphthalate	83.5	U	83.5	170	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-006	SDG No.:	P4860
Lab Sample ID:	P4860-09	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	97.5
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140608.D	1	11/16/24 08:51	11/25/24 17:41	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	88.5	U	88.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	85.1	U	85.1	170	ug/Kg
99-09-2	3-Nitroaniline	91.2	UQ	91.2	170	ug/Kg
83-32-9	Acenaphthene	82.9	U	82.9	170	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	340	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	340	ug/Kg
132-64-9	Dibenzofuran	86.3	U	86.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	88.1	U	88.1	170	ug/Kg
84-66-2	Diethylphthalate	81.9	U	81.9	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	87.5	U	87.5	170	ug/Kg
86-73-7	Fluorene	87.4	U	87.4	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	340	ug/Kg
86-30-6	n-Nitrosodiphenylamine	83.4	U	83.4	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	80.7	U	80.7	170	ug/Kg
118-74-1	Hexachlorobenzene	86.9	U	86.9	170	ug/Kg
1912-24-9	Atrazine	93.5	U	93.5	170	ug/Kg
87-86-5	Pentachlorophenol	79.0	U	79.0	340	ug/Kg
85-01-8	Phenanthrene	85.9	U	85.9	170	ug/Kg
120-12-7	Anthracene	86.3	U	86.3	170	ug/Kg
86-74-8	Carbazole	82.1	U	82.1	170	ug/Kg
84-74-2	Di-n-butylphthalate	86.2	U	86.2	170	ug/Kg
206-44-0	Fluoranthene	83.5	U	83.5	170	ug/Kg
129-00-0	Pyrene	84.9	U	84.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	99.0	U	99.0	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	100	UQ	100	340	ug/Kg
56-55-3	Benzo(a)anthracene	82.5	U	82.5	170	ug/Kg
218-01-9	Chrysene	81.3	U	81.3	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	93.1	U	93.1	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	340	ug/Kg
205-99-2	Benzo(b)fluoranthene	82.9	U	82.9	170	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-006	SDG No.:	P4860
Lab Sample ID:	P4860-09	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	97.5
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140608.D	1	11/16/24 08:51	11/25/24 17:41	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	84.5	U	84.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	95.1	U	95.1	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	79.9	U	79.9	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	83.0	U	83.0	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	81.9	U	81.9	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	88.8	U	88.8	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	76.4	U	76.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	91.0		30 (18) - 130 (112)	61%	SPK: 150
13127-88-3	Phenol-d6	90.5		30 (15) - 130 (107)	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	63.2		30 (18) - 130 (107)	63%	SPK: 100
321-60-8	2-Fluorobiphenyl	66.7		30 (20) - 130 (109)	67%	SPK: 100
118-79-6	2,4,6-Tribromophenol	85.8		30 (10) - 130 (116)	57%	SPK: 150
1718-51-0	Terphenyl-d14	60.5		30 (10) - 130 (105)	61%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	65700	6.869			
1146-65-2	Naphthalene-d8	249000	8.151			
15067-26-2	Acenaphthene-d10	136000	9.904			
1517-22-2	Phenanthrene-d10	254000	11.392			
1719-03-5	Chrysene-d12	176000	14.045			
1520-96-3	Perylene-d12	146000	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000119-61-9	Benzophenone	330	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	220	J		11.9	ug/Kg
001454-84-8	n-Nonadecanol-1	170	J		13.9	ug/Kg
	unknown16.457	78.1	J		16.5	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-006	SDG No.:	P4860
Lab Sample ID:	P4860-09	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	97.5
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140608.D	1	11/16/24 08:51	11/25/24 17:41	PB165029

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\BF112524\
Data File : BF140608.D
Acq On : 25 Nov 2024 17:41
Operator : RC/JU
Sample : P4860-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-006

Quant Time: Nov 26 00:08:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	65730	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	249226	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	135754	20.000	ng	-0.01
64) Phenanthrene-d10	11.392	188	253640	20.000	ng	-0.01
76) Chrysene-d12	14.045	240	176049	20.000	ng	0.00
86) Perylene-d12	15.545	264	146465	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	350615	91.012	ng	0.00
7) Phenol-d6	6.504	99	460783	90.475	ng	-0.01
23) Nitrobenzene-d5	7.428	82	307735	63.158	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	124598	85.817	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	607797	66.708	ng	-0.01
79) Terphenyl-d14	12.980	244	684477	60.541	ng	-0.01

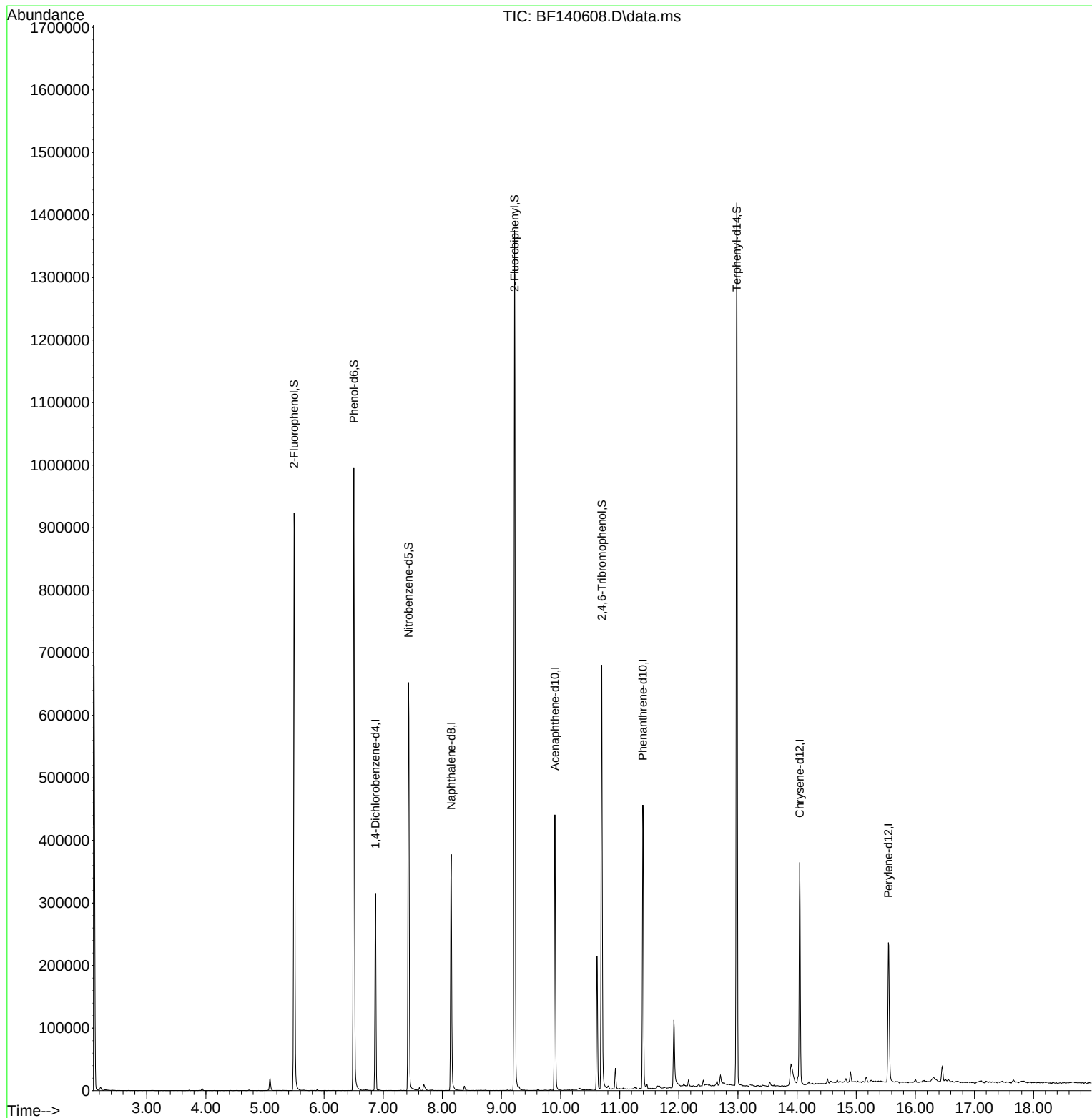
Target Compounds	Qvalue

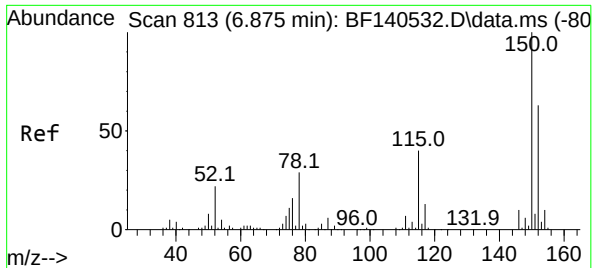
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140608.D
Acq On : 25 Nov 2024 17:41
Operator : RC/JU
Sample : P4860-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-006

Quant Time: Nov 26 00:08:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

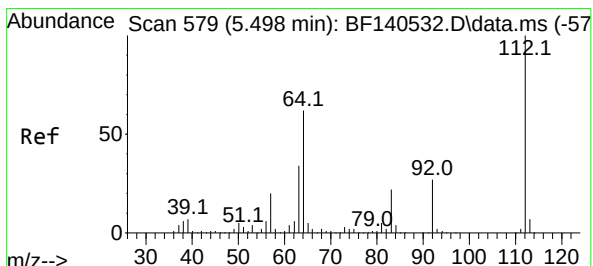
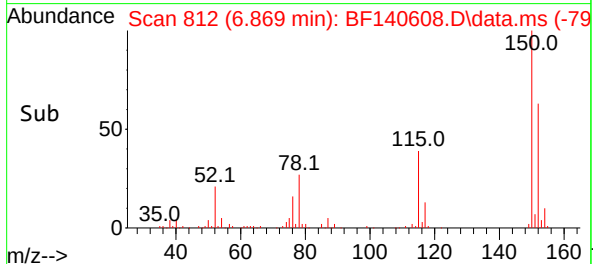
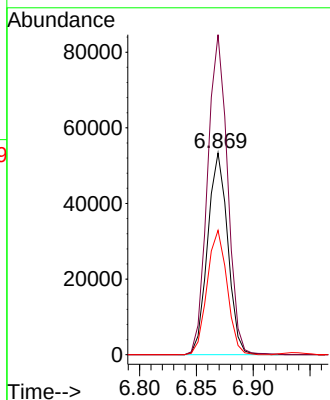
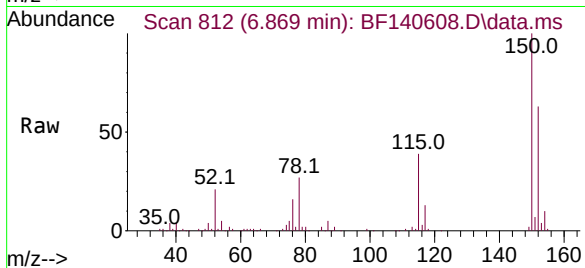




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 813
Delta R.T. -0.006 min
Lab File: BF140608.D
Acq: 25 Nov 2024 17:41

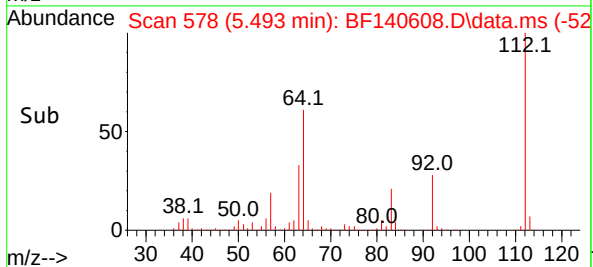
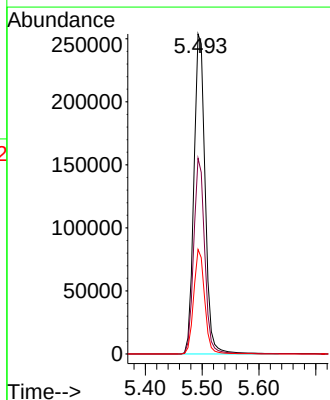
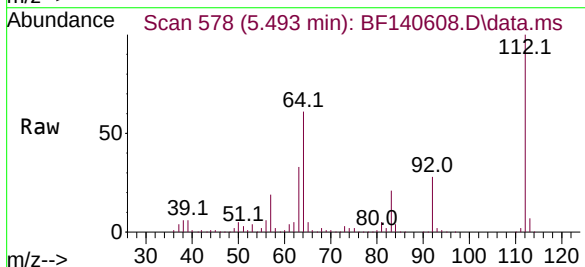
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-006

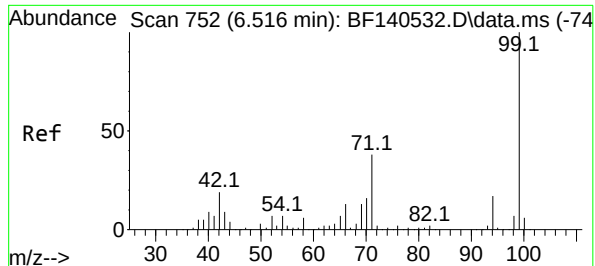
Tgt Ion:152 Resp: 65730
Ion Ratio Lower Upper
152 100
150 158.6 128.5 192.7
115 61.6 50.2 75.4



#5
2-Fluorophenol
Concen: 91.012 ng
RT: 5.493 min Scan# 578
Delta R.T. -0.006 min
Lab File: BF140608.D
Acq: 25 Nov 2024 17:41

Tgt Ion:112 Resp: 350615
Ion Ratio Lower Upper
112 100
64 61.1 49.2 73.8
63 32.7 27.0 40.4

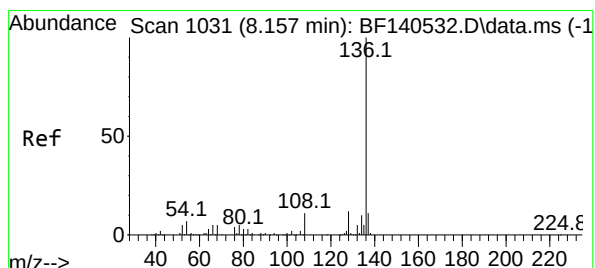
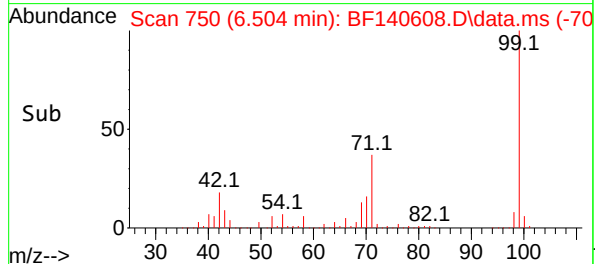
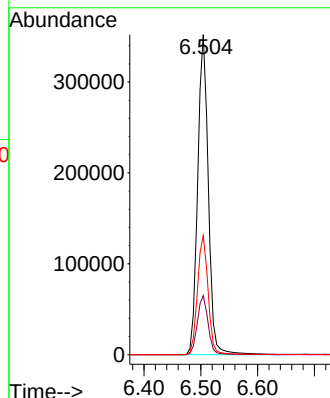
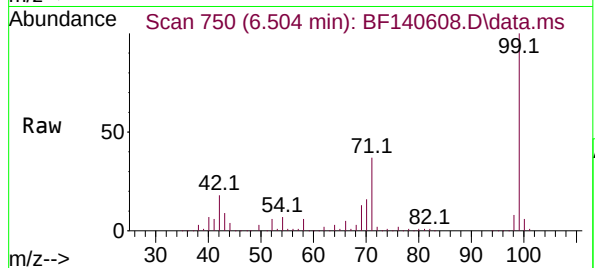




#7
Phenol-d6
Concen: 90.475 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF140608.D
Acq: 25 Nov 2024 17:41

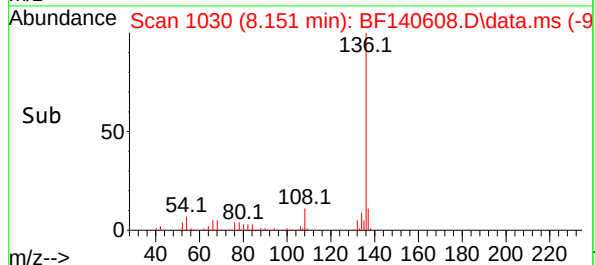
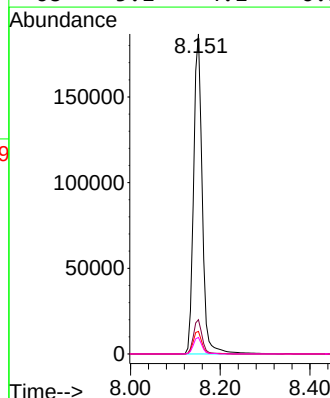
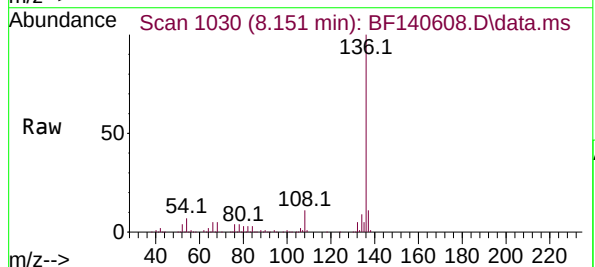
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-006

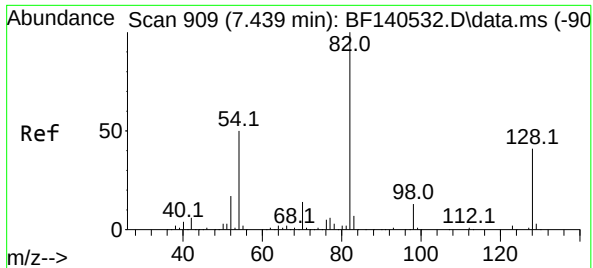
Tgt Ion: 99 Resp: 460783
Ion Ratio Lower Upper
99 100
42 18.5 15.4 23.0
71 37.2 30.6 46.0



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140608.D
Acq: 25 Nov 2024 17:41

Tgt Ion: 136 Resp: 249226
Ion Ratio Lower Upper
136 100
137 10.7 8.6 13.0
54 7.1 5.8 8.8
68 5.1 4.1 6.1





#23

Nitrobenzene-d5

Concen: 63.158 ng

RT: 7.428 min Scan# 90

Delta R.T. -0.012 min

Lab File: BF140608.D

Acq: 25 Nov 2024 17:41

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-006

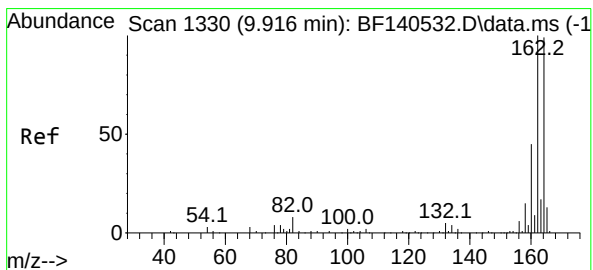
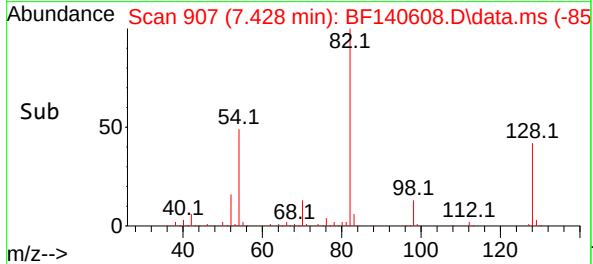
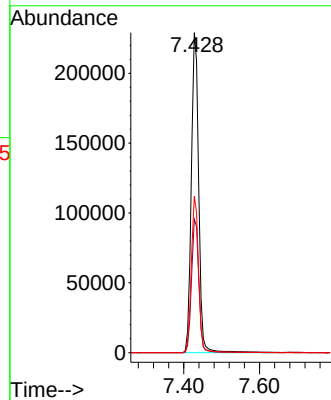
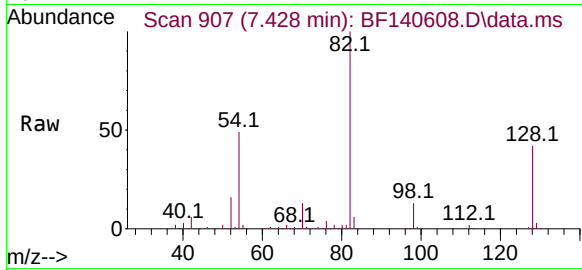
Tgt Ion: 82 Resp: 307735

Ion Ratio Lower Upper

82 100

128 41.7 33.0 49.4

54 49.0 39.5 59.3



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.904 min Scan# 1328

Delta R.T. -0.012 min

Lab File: BF140608.D

Acq: 25 Nov 2024 17:41

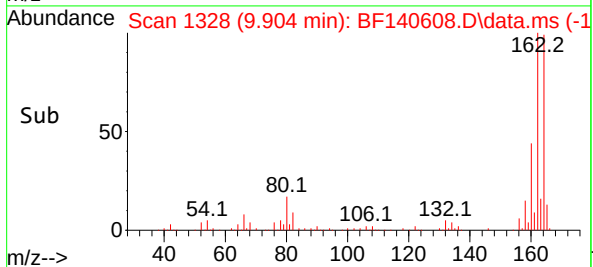
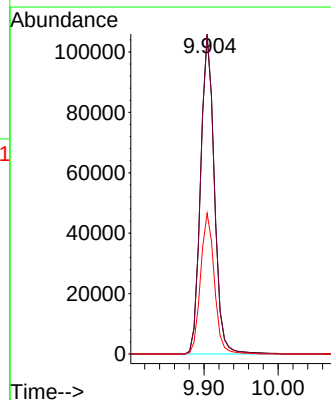
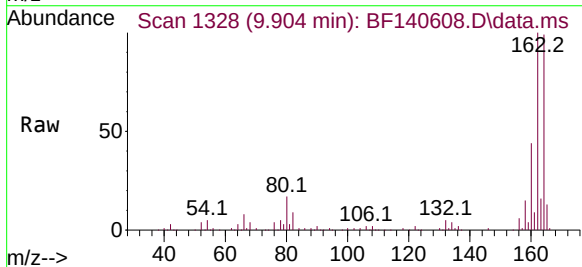
Tgt Ion:164 Resp: 135754

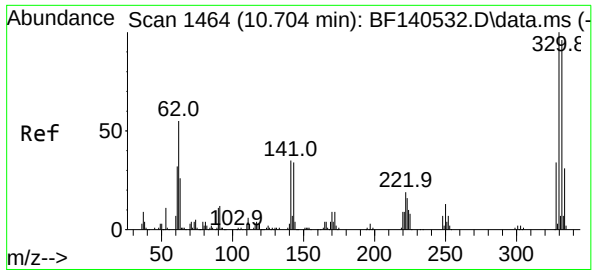
Ion Ratio Lower Upper

164 100

162 100.6 80.6 120.8

160 44.2 36.2 54.4

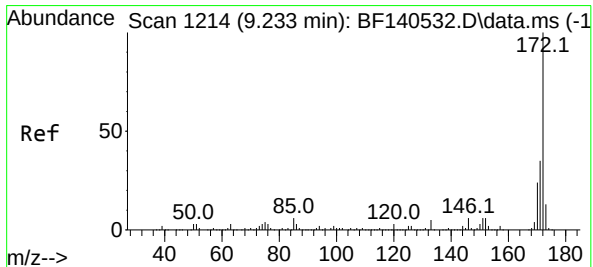
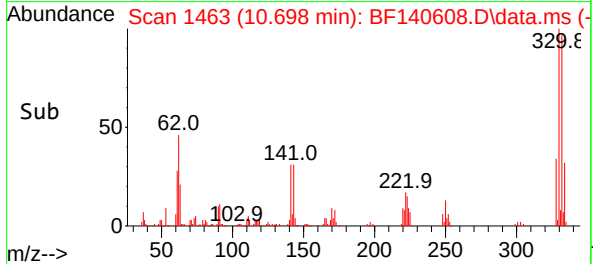
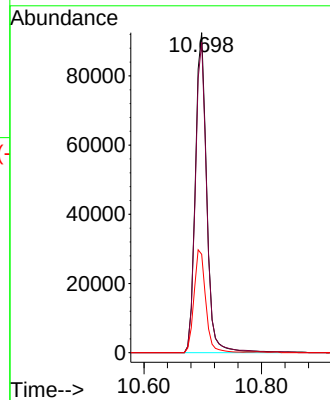
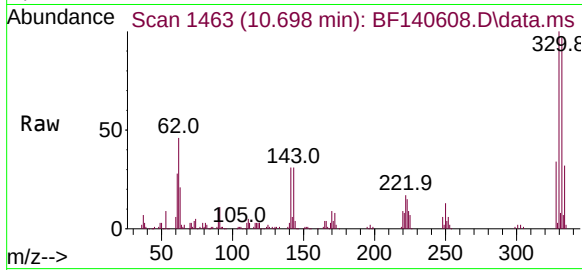




#42
2,4,6-Tribromophenol
Concen: 85.817 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.006 min
Lab File: BF140608.D
Acq: 25 Nov 2024 17:41

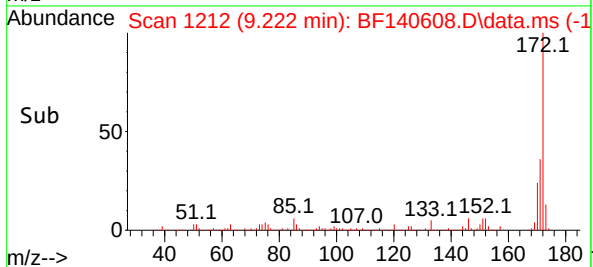
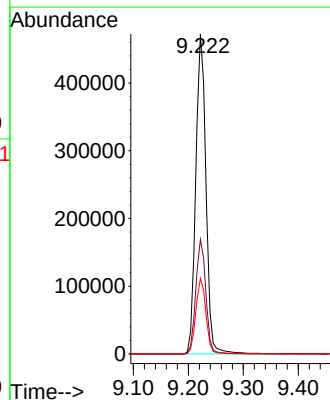
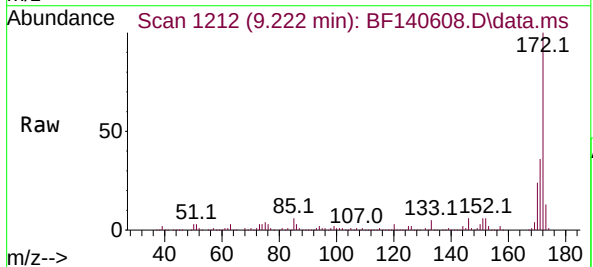
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-006

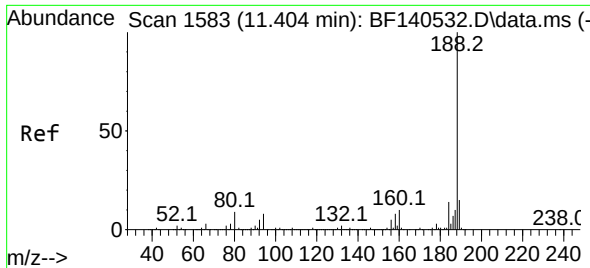
Tgt Ion:330 Resp: 124598
Ion Ratio Lower Upper
330 100
332 97.4 76.9 115.3
141 33.1 26.7 40.1



#45
2-Fluorobiphenyl
Concen: 66.708 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140608.D
Acq: 25 Nov 2024 17:41

Tgt Ion:172 Resp: 607797
Ion Ratio Lower Upper
172 100
171 35.8 28.4 42.6
170 23.6 19.0 28.6

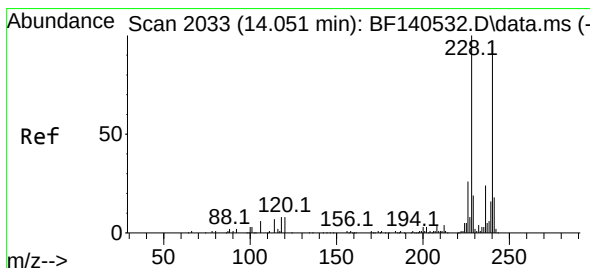
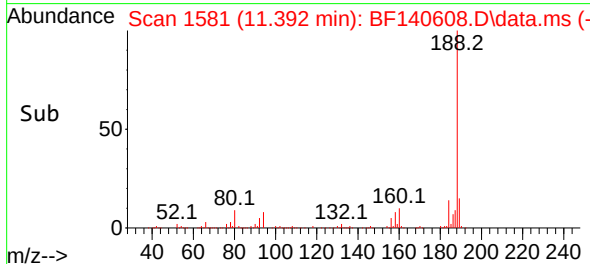
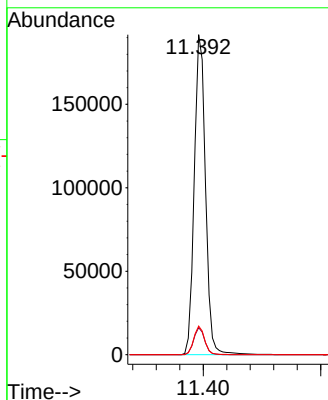
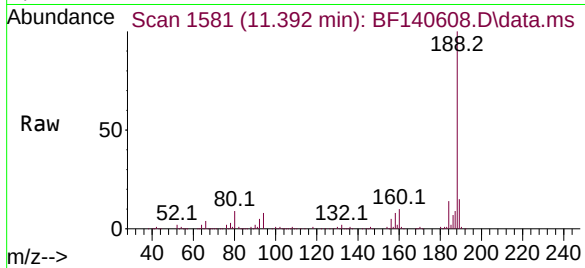




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF140608.D
Acq: 25 Nov 2024 17:41

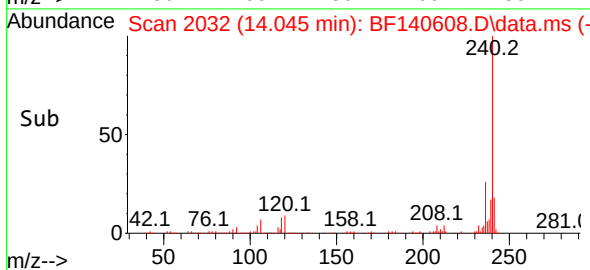
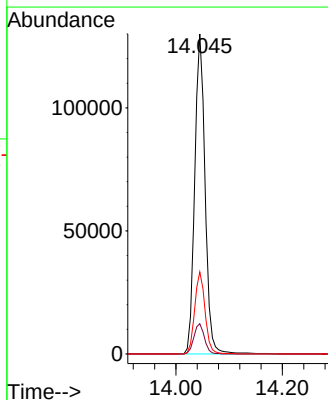
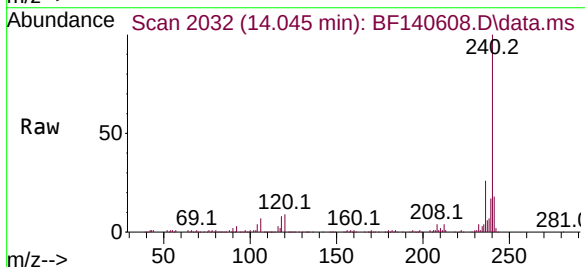
Instrument :
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ClientSampleId :
PH2-BOT-006

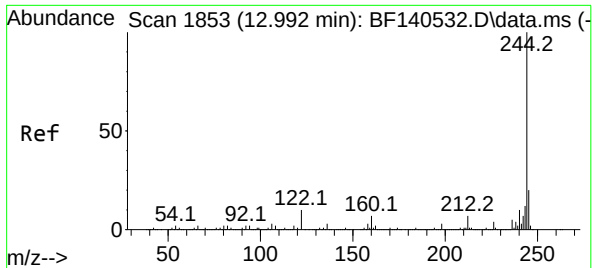
Tgt Ion:188 Resp: 253640
Ion Ratio Lower Upper
188 100
94 8.5 6.4 9.6
80 8.9 6.9 10.3



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140608.D
Acq: 25 Nov 2024 17:41

Tgt Ion:240 Resp: 176049
Ion Ratio Lower Upper
240 100
120 9.5 7.3 10.9
236 25.7 20.6 31.0





#79

Terphenyl-d14

Concen: 60.541 ng

RT: 12.980 min Scan# 1851

Delta R.T. -0.012 min

Lab File: BF140608.D

Acq: 25 Nov 2024 17:41

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-006

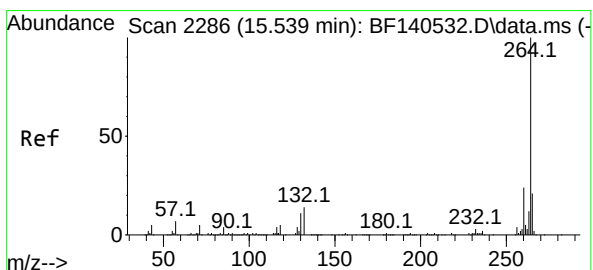
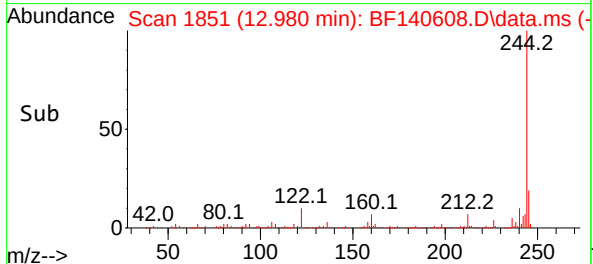
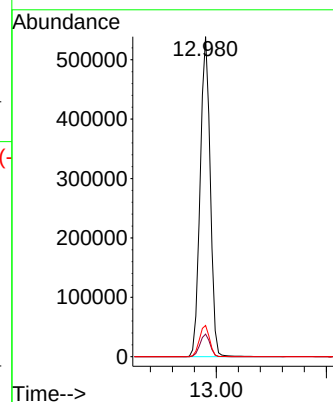
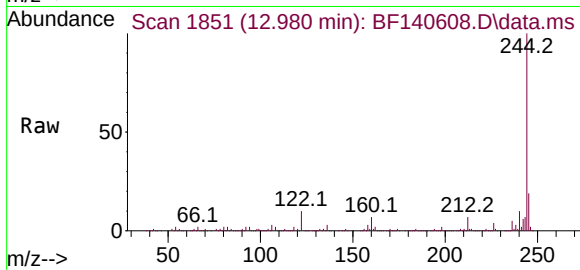
Tgt Ion:244 Resp: 684477

Ion Ratio Lower Upper

244 100

212 7.1 5.8 8.8

122 9.8 8.0 12.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.545 min Scan# 2287

Delta R.T. 0.006 min

Lab File: BF140608.D

Acq: 25 Nov 2024 17:41

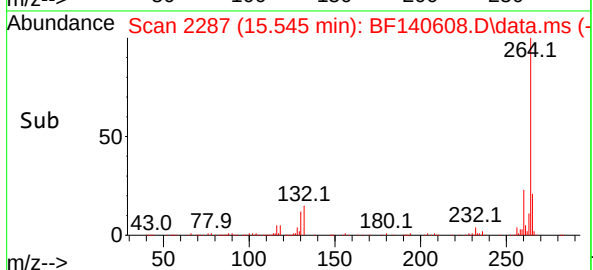
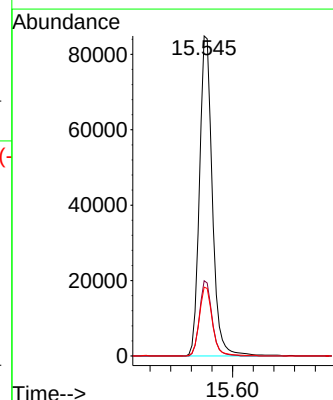
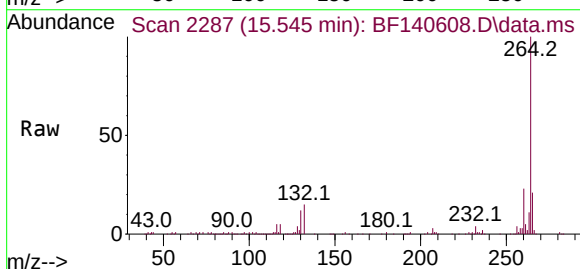
Tgt Ion:264 Resp: 146465

Ion Ratio Lower Upper

264 100

260 23.5 19.0 28.6

265 21.5 16.6 25.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
 Data File : BF140608.D
 Acq On : 25 Nov 2024 17:41
 Operator : RC/JU
 Sample : P4860-09
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PH2-BOT-006

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-BF112124.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140608.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.087	500	509	520	rBV	18912	31211	1.74%	0.270%
2	5.493	573	578	598	rBV	923606	1254820	70.04%	10.850%
3	6.504	744	750	775	rBV	996261	1317890	73.56%	11.395%
4	6.869	807	812	820	rBV	315472	385136	21.50%	3.330%
5	7.428	902	907	918	rBV	652264	858938	47.94%	7.427%
6	7.687	945	951	966	rBV2	9349	20131	1.12%	0.174%
7	8.151	1024	1030	1043	rBV	377420	497479	27.77%	4.301%
8	9.222	1207	1212	1223	rBV	1374884	1738917	97.06%	15.035%
9	9.904	1323	1328	1342	rBV	440591	564535	31.51%	4.881%
10	10.616	1444	1449	1457	rBV	213999	269990	15.07%	2.334%
11	10.698	1457	1463	1478	rVV	677347	944443	52.72%	8.166%
12	10.928	1497	1502	1511	rVB	33028	42964	2.40%	0.371%
13	11.392	1576	1581	1590	rBV	453953	594800	33.20%	5.143%
14	11.916	1665	1670	1690	rBV	107859	188419	10.52%	1.629%
15	12.704	1799	1804	1812	rBV4	16045	31803	1.78%	0.275%
16	12.980	1845	1851	1856	rBV	1411511	1791596	100.00%	15.491%
17	13.898	2000	2007	2022	rBV4	32895	117396	6.55%	1.015%
18	14.045	2027	2032	2039	rVB	352973	471822	26.34%	4.080%
19	14.904	2174	2178	2186	rVB	14964	21163	1.18%	0.183%
20	15.545	2281	2287	2301	rBV	222868	378632	21.13%	3.274%
21	16.457	2436	2442	2447	rBV5	24355	43343	2.42%	0.375%

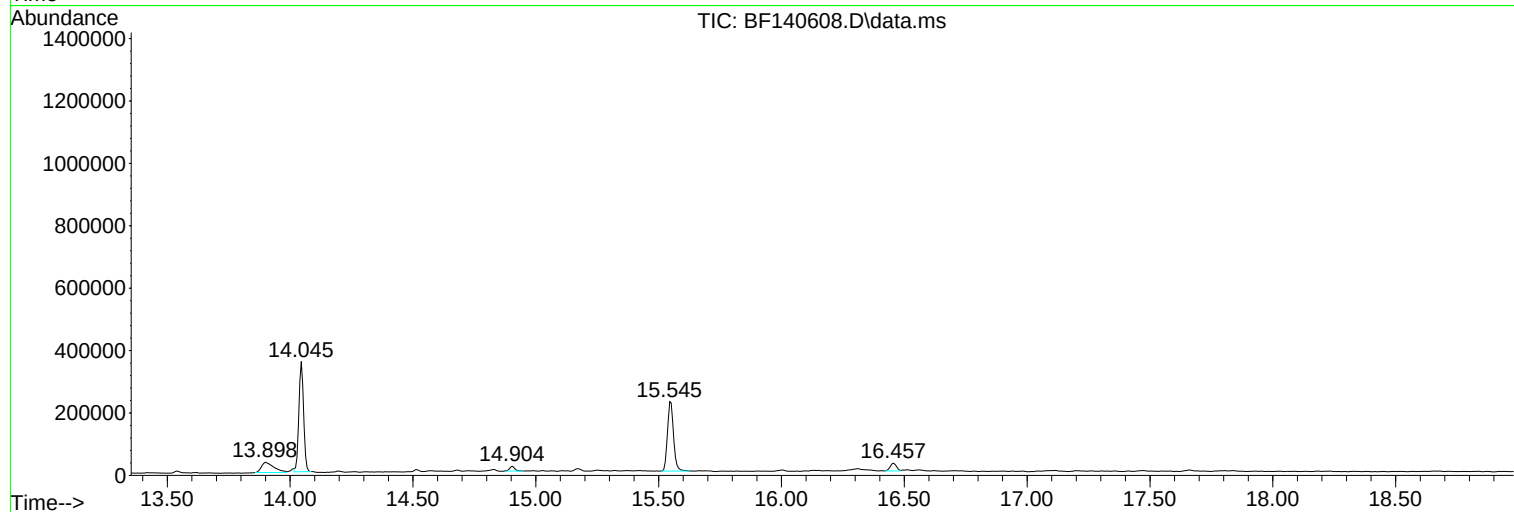
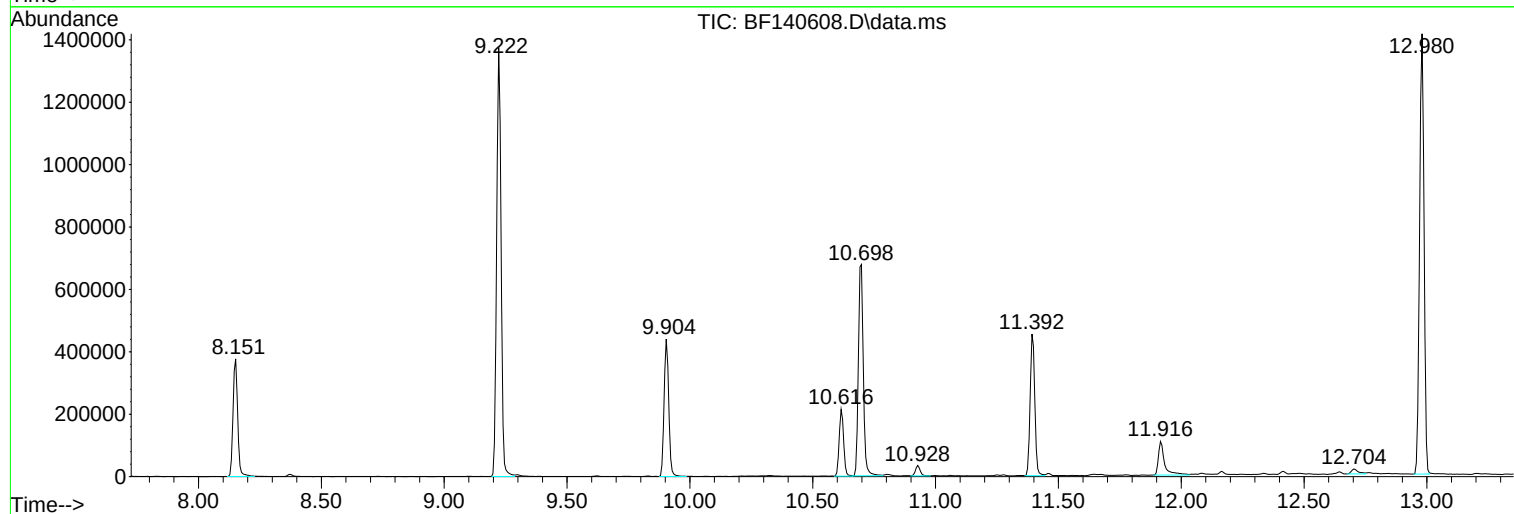
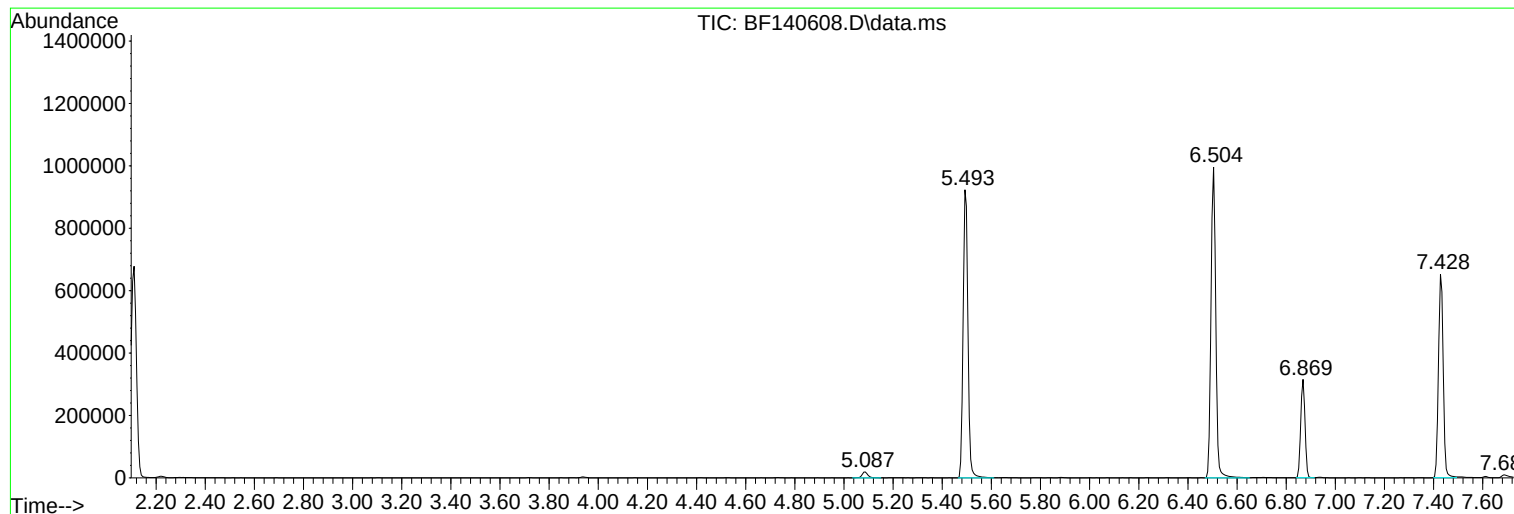
Sum of corrected areas: 11565428

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140608.D
Acq On : 25 Nov 2024 17:41
Operator : RC/JU
Sample : P4860-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-006

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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\BF112524\
Data File : BF140608.D
Acq On : 25 Nov 2024 17:41
Operator : RC/JU
Sample : P4860-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-006

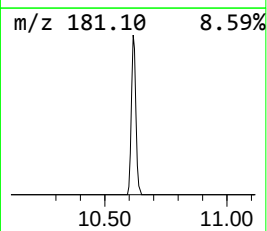
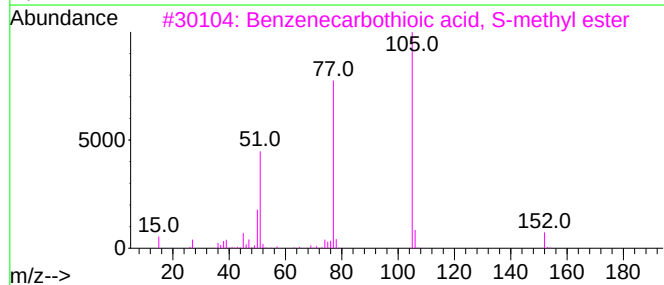
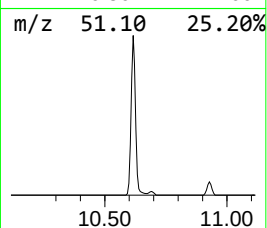
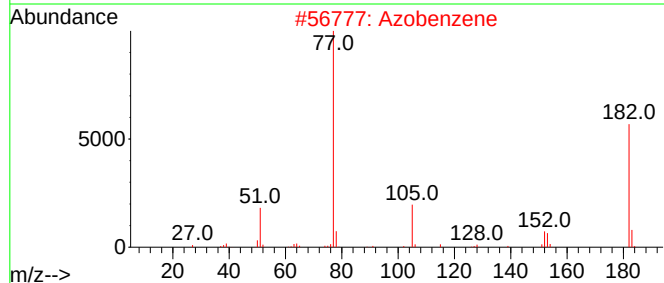
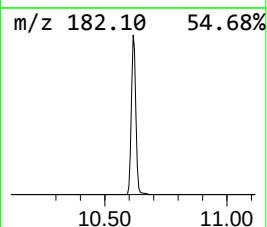
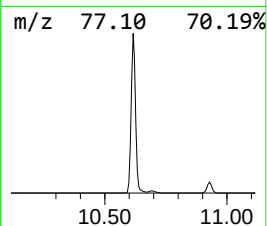
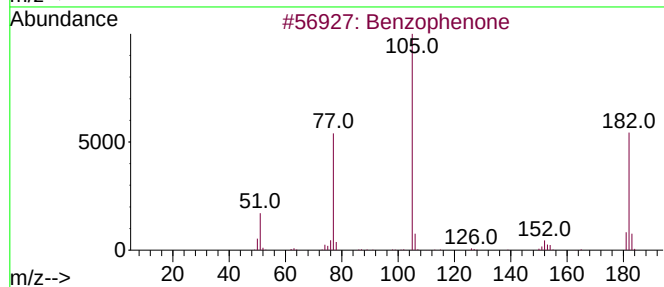
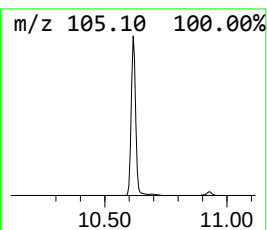
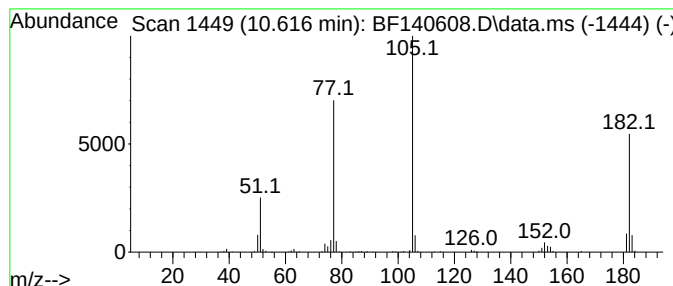
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Benzophenone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.616	9.57 ng	269990	Acenaphthene-d10	9.904

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Azobenzene	182	C12H10N2	000103-33-3	59
3			Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	50
4			N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	49
5			Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140608.D
Acq On : 25 Nov 2024 17:41
Operator : RC/JU
Sample : P4860-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-006

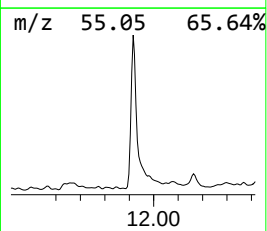
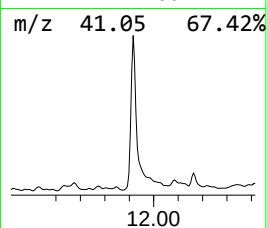
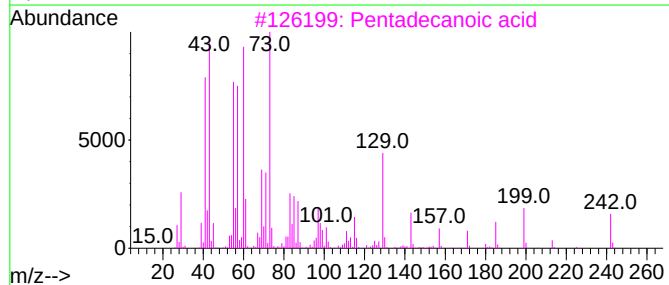
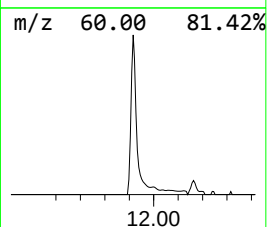
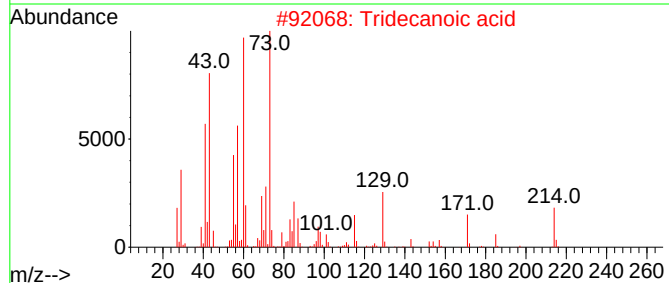
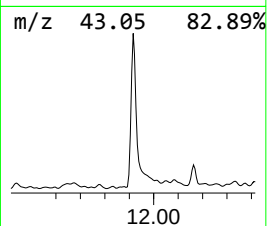
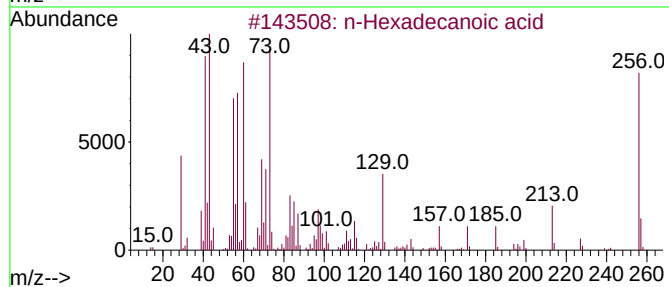
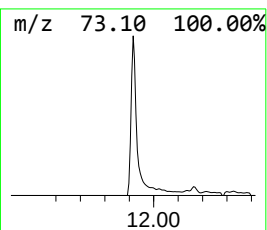
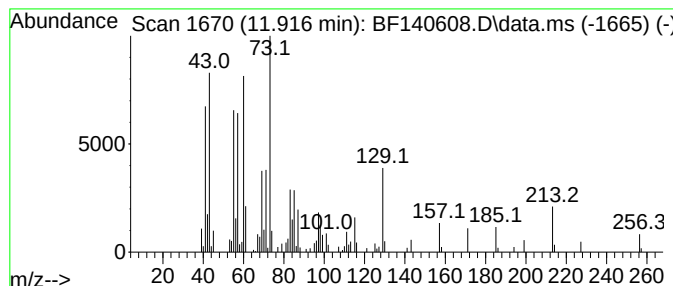
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.916	6.34 ng	188419	Phenanthrene-d10	11.392

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	87
3			Pentadecanoic acid	242	C15H30O2	001002-84-2	87
4			Tetradecanoic acid	228	C14H28O2	000544-63-8	80
5			n-Decanoic acid	172	C10H20O2	000334-48-5	53



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140608.D
Acq On : 25 Nov 2024 17:41
Operator : RC/JU
Sample : P4860-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-006

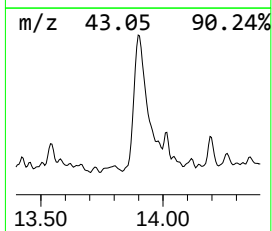
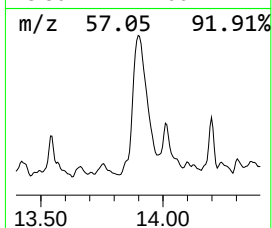
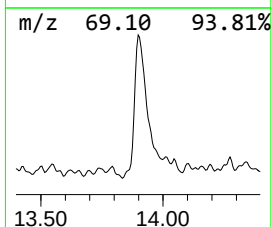
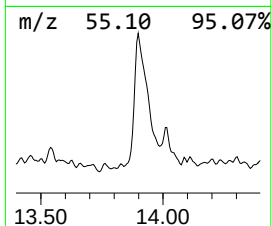
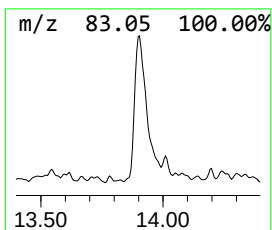
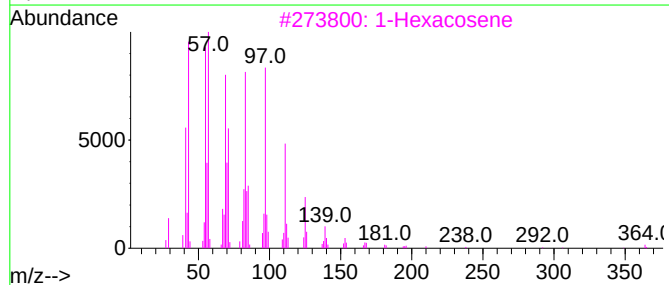
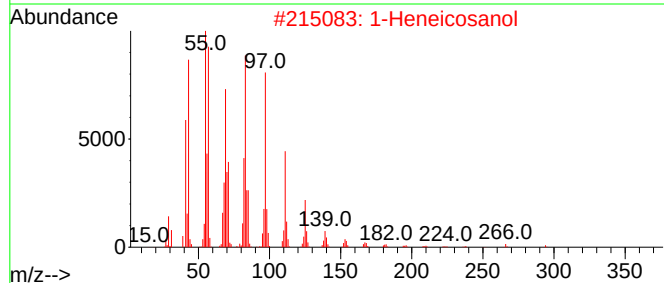
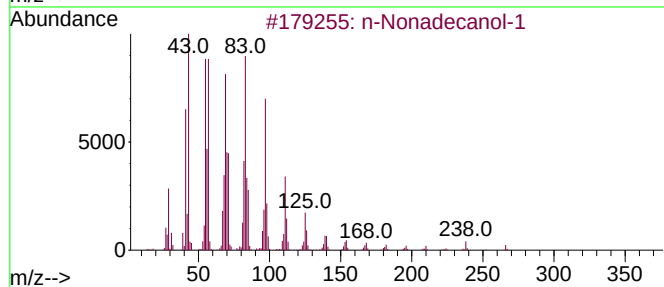
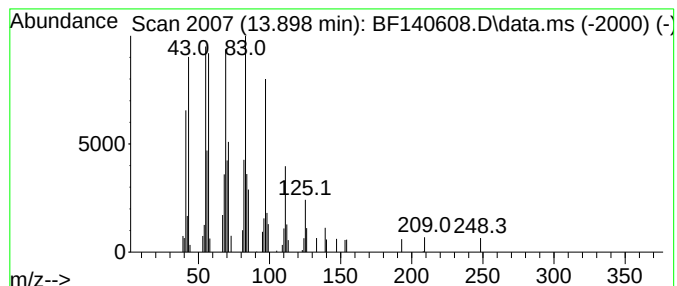
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 n-Nonadecanol-1 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.898	4.98 ng	117396	Chrysene-d12	14.045

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			n-Nonadecanol-1	284	C19H40O	001454-84-8	95
2			1-Heneicosanol	312	C21H44O	015594-90-8	95
3			1-Hexacosene	364	C26H52	018835-33-1	95
4			Pentafluoropropionic acid, tetra...	360	C17H29F5O2	006222-06-6	94
5			Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	93



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140608.D
Acq On : 25 Nov 2024 17:41
Operator : RC/JU
Sample : P4860-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-006

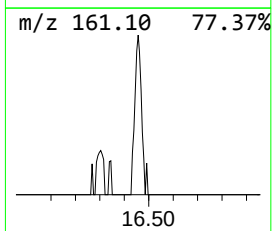
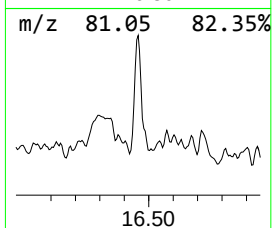
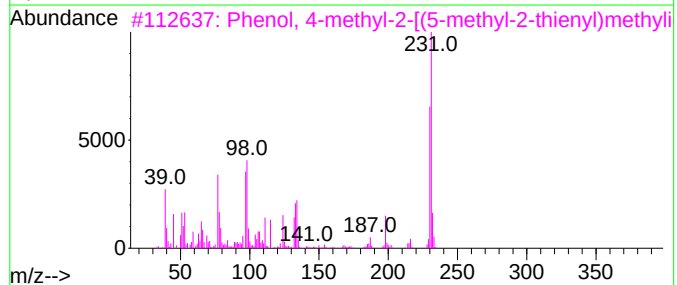
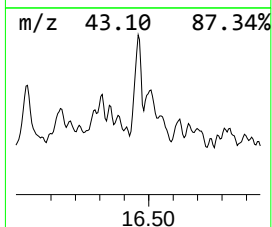
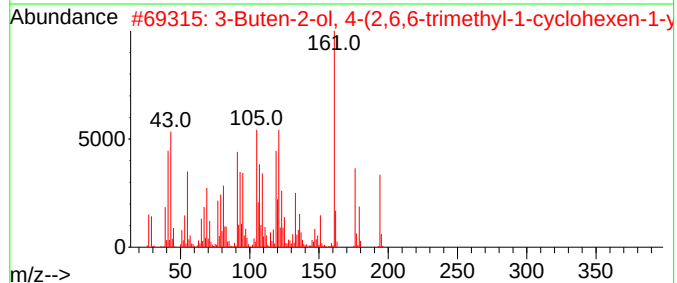
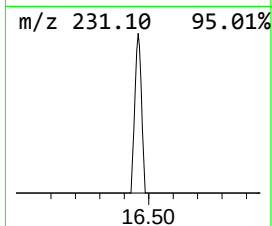
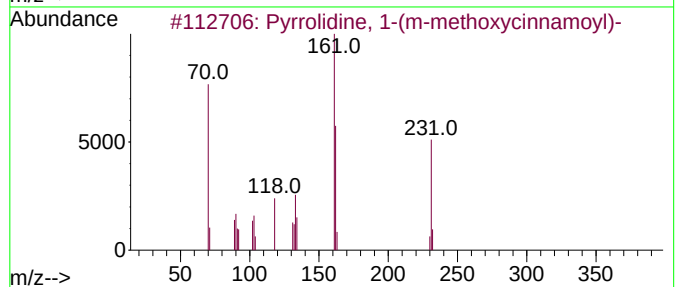
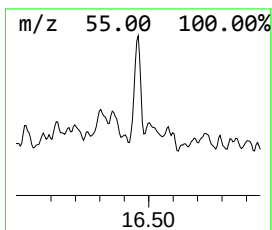
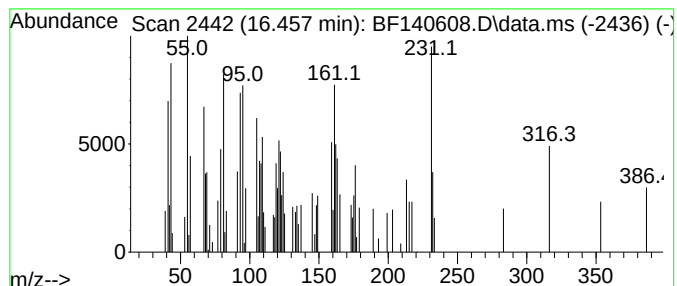
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 unknown16.457 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.457	2.29 ng	43343	Perylene-d12	15.545

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pyrrolidine, 1-(m-methoxycinnamo...	231	C14H17NO2	029647-01-6	35
2			3-Buten-2-ol, 4-(2,6,6-trimethyl...	194	C13H22O	022029-76-1	14
3			Phenol, 4-methyl-2-[(5-methyl-2-...	231	C13H13NOS	315670-71-4	11
4			3-Buten-2-one, 4-(4-methoxyphenyl)-	176	C11H12O2	000943-88-4	11
5			(1-Methoxy-1-methylbut-2-enyl)be...	176	C12H16O	1000211-11-5	11



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140608.D
Acq On : 25 Nov 2024 17:41
Operator : RC/JU
Sample : P4860-09
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-006

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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
Benzophenone	10.616	9.6	ng	269990	3	9.904	564535	20.0
n-Hexadecanoic ...	11.916	6.3	ng	188419	4	11.392	594800	20.0
n-Nonadecanol-1	13.898	5.0	ng	117396	5	14.045	471822	20.0
unknown16.457	16.457	2.3	ng	43343	6	15.545	378632	20.0

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-005	SDG No.:	P4860
Lab Sample ID:	P4860-10	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	97.6
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
BF140641.D	1	11/16/24 08:51	11/26/24 14:55	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	UQ	190	340	ug/Kg
108-95-2	Phenol	84.9	U	84.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	85.7	U	85.7	170	ug/Kg
95-57-8	2-Chlorophenol	85.5	U	85.5	170	ug/Kg
95-48-7	2-Methylphenol	82.5	U	82.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	93.0	U	93.0	170	ug/Kg
98-86-2	Acetophenone	88.9	U	88.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	81.7	U	81.7	340	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	41.2	U	41.2	81.9	ug/Kg
67-72-1	Hexachloroethane	85.0	U	85.0	170	ug/Kg
98-95-3	Nitrobenzene	92.9	U	92.9	170	ug/Kg
78-59-1	Isophorone	86.6	U	86.6	170	ug/Kg
88-75-5	2-Nitrophenol	96.7	U	96.7	170	ug/Kg
105-67-9	2,4-Dimethylphenol	95.4	U	95.4	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	87.8	U	87.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	77.3	U	77.3	170	ug/Kg
91-20-3	Naphthalene	84.5	U	84.5	170	ug/Kg
106-47-8	4-Chloroaniline	84.5	UQ	84.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	85.3	U	85.3	170	ug/Kg
105-60-2	Caprolactam	88.8	U	88.8	340	ug/Kg
59-50-7	4-Chloro-3-methylphenol	79.3	U	79.3	170	ug/Kg
91-57-6	2-Methylnaphthalene	84.4	U	84.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	UQ	160	340	ug/Kg
88-06-2	2,4,6-Trichlorophenol	73.1	U	73.1	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	75.7	U	75.7	170	ug/Kg
92-52-4	1,1-Biphenyl	89.5	U	89.5	170	ug/Kg
91-58-7	2-Chloronaphthalene	85.3	U	85.3	170	ug/Kg
88-74-4	2-Nitroaniline	97.2	U	97.2	170	ug/Kg
131-11-3	Dimethylphthalate	83.6	U	83.6	170	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-005	SDG No.:	P4860
Lab Sample ID:	P4860-10	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	97.6
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
BF140641.D	1	11/16/24 08:51	11/26/24 14:55	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	88.5	U	88.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	85.2	U	85.2	170	ug/Kg
99-09-2	3-Nitroaniline	91.3	UQ	91.3	170	ug/Kg
83-32-9	Acenaphthene	83.0	U	83.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	250	U	250	340	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	340	ug/Kg
132-64-9	Dibenzofuran	86.4	U	86.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	88.2	U	88.2	170	ug/Kg
84-66-2	Diethylphthalate	82.0	U	82.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	87.6	U	87.6	170	ug/Kg
86-73-7	Fluorene	87.5	U	87.5	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	340	ug/Kg
86-30-6	n-Nitrosodiphenylamine	83.5	U	83.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	80.8	U	80.8	170	ug/Kg
118-74-1	Hexachlorobenzene	87.0	U	87.0	170	ug/Kg
1912-24-9	Atrazine	93.6	U	93.6	170	ug/Kg
87-86-5	Pentachlorophenol	79.1	U	79.1	340	ug/Kg
85-01-8	Phenanthrene	86.0	U	86.0	170	ug/Kg
120-12-7	Anthracene	86.4	U	86.4	170	ug/Kg
86-74-8	Carbazole	82.2	U	82.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	86.3	U	86.3	170	ug/Kg
206-44-0	Fluoranthene	83.6	U	83.6	170	ug/Kg
129-00-0	Pyrene	85.0	U	85.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	99.1	U	99.1	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	100	UQ	100	340	ug/Kg
56-55-3	Benzo(a)anthracene	82.6	U	82.6	170	ug/Kg
218-01-9	Chrysene	81.4	U	81.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	93.1	U	93.1	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	340	ug/Kg
205-99-2	Benzo(b)fluoranthene	83.0	U	83.0	170	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-005	SDG No.:	P4860
Lab Sample ID:	P4860-10	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	97.6
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
BF140641.D	1	11/16/24 08:51	11/26/24 14:55	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	84.5	U	84.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	95.2	U	95.2	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	79.9	U	79.9	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	83.1	U	83.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	82.0	U	82.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	88.8	U	88.8	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	76.5	U	76.5	170	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	84.1		30 (18) - 130 (112)	56%	SPK: 150
13127-88-3	Phenol-d6	85.6		30 (15) - 130 (107)	57%	SPK: 150
4165-60-0	Nitrobenzene-d5	59.1		30 (18) - 130 (107)	59%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.2		30 (20) - 130 (109)	65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	74.0		30 (10) - 130 (116)	49%	SPK: 150
1718-51-0	Terphenyl-d14	68.4		30 (10) - 130 (105)	68%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	73400	6.869
1146-65-2	Naphthalene-d8	270000	8.151
15067-26-2	Acenaphthene-d10	140000	9.904
1517-22-2	Phenanthrene-d10	253000	11.398
1719-03-5	Chrysene-d12	141000	14.045
1520-96-3	Perylene-d12	153000	15.539

TENTATIVE IDENTIFIED COMPOUNDS

000994-05-8	Butane, 2-methoxy-2-methyl-	1100	JB	2.12	ug/Kg
000119-61-9	Benzophenone	330	J	10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	170	J	11.9	ug/Kg
006566-19-4	10,18-Bisnorabieta-5,7,9(10),11,13	81.9	J	12.6	ug/Kg
1000406-33-2	Isobutyl tetracosyl ether	280	J	13.9	ug/Kg
000629-94-7	Heneicosane	79.8	J	14.2	ug/Kg
000638-68-6	triacontane	140	J	14.5	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-005	SDG No.:	P4860
Lab Sample ID:	P4860-10	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	97.6
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
BF140641.D	1	11/16/24 08:51	11/26/24 14:55	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
001560-98-1	Octacosane, 2-methyl-	74.7	J		14.8	ug/Kg
000112-95-8	Eicosane	100	J		15.2	ug/Kg
	unknown16.245	230	J		16.2	ug/Kg
015600-08-5	Cholestan-3-one	220	J		16.4	ug/Kg
	unknown16.498	75.7	J		16.5	ug/Kg
	unknown17.439	77.4	J		17.4	ug/Kg
	unknown17.651	70.6	J		17.7	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_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-005

Quant Time: Nov 26 15:24:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	73436	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	269764	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	139709	20.000	ng	-0.01
64) Phenanthrene-d10	11.398	188	252976	20.000	ng	0.00
76) Chrysene-d12	14.045	240	141346	20.000	ng	0.00
86) Perylene-d12	15.539	264	153491	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	362082	84.126	ng	0.00
7) Phenol-d6	6.504	99	486862	85.564	ng	-0.01
23) Nitrobenzene-d5	7.434	82	311652	59.093	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	110521	73.967	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	610897	65.150	ng	-0.01
79) Terphenyl-d14	12.980	244	621212	68.435	ng	-0.01

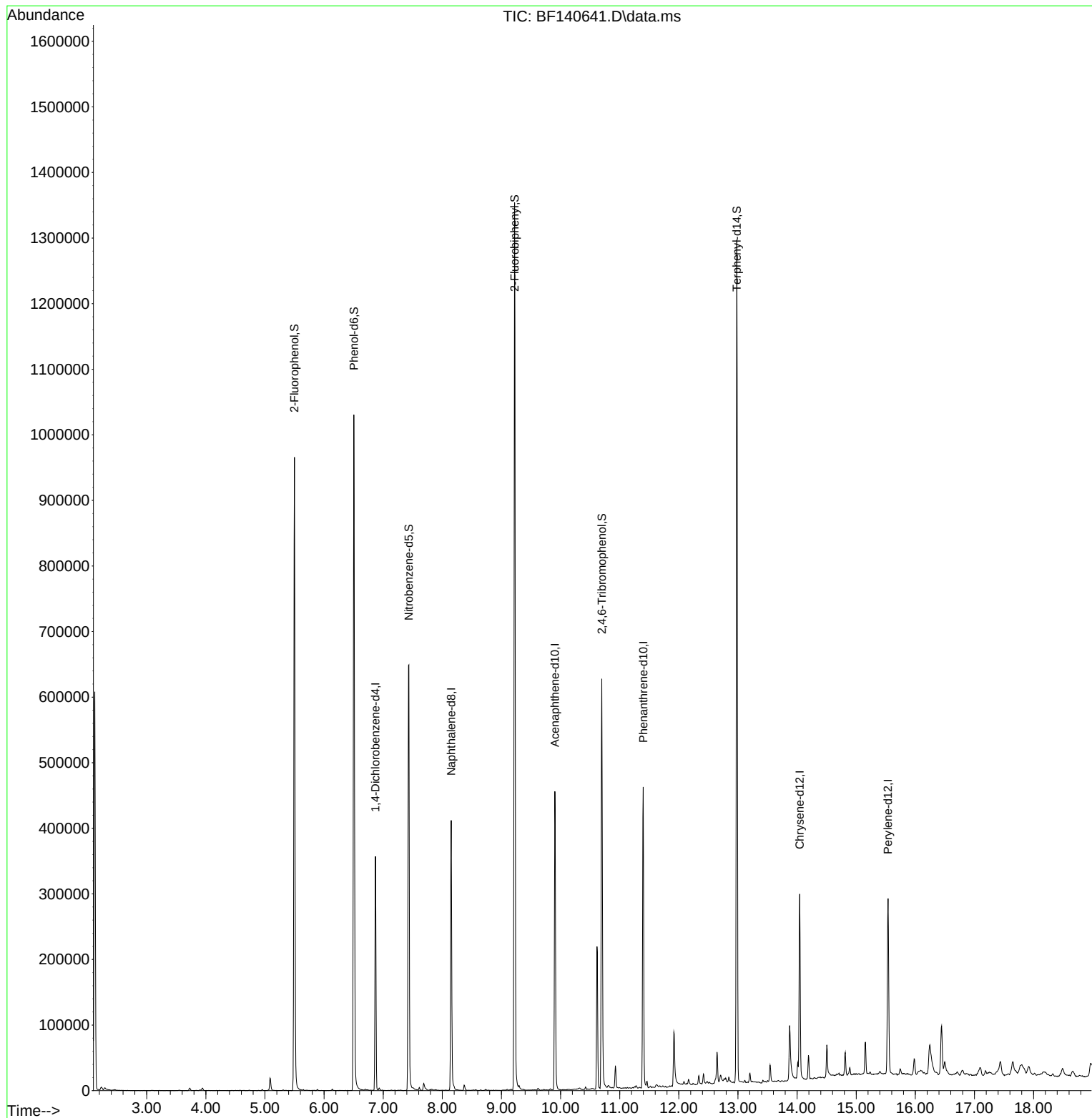
Target Compounds	Qvalue

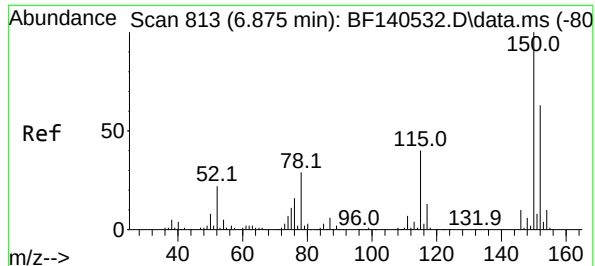
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-005

Quant Time: Nov 26 15:24:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

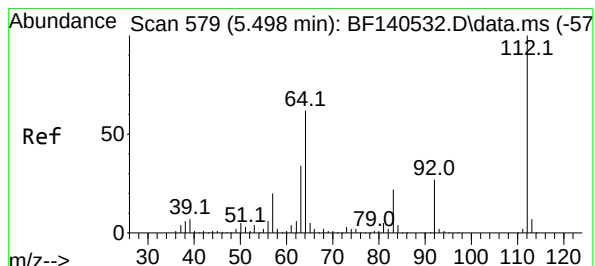
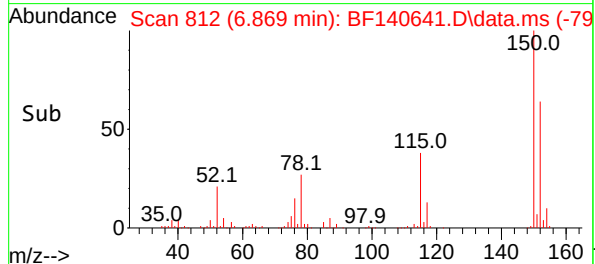
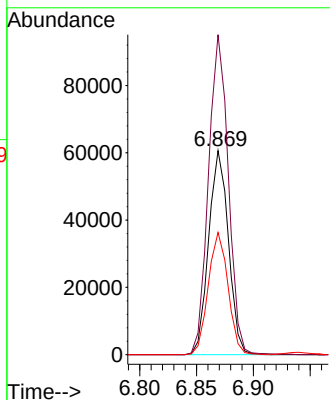
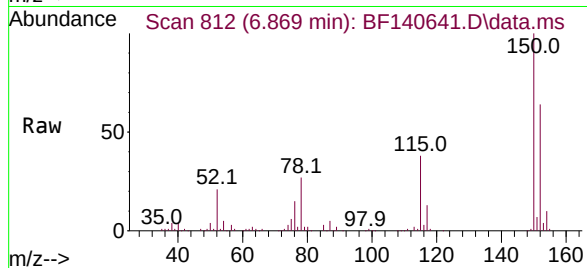




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 813
Delta R.T. -0.006 min
Lab File: BF140641.D
Acq: 26 Nov 2024 14:55

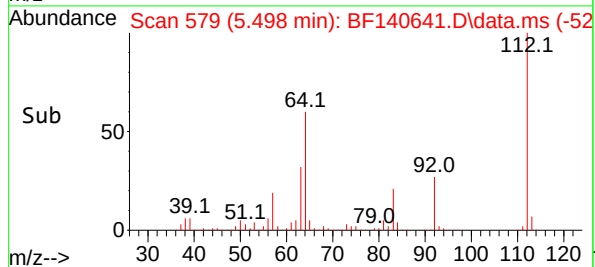
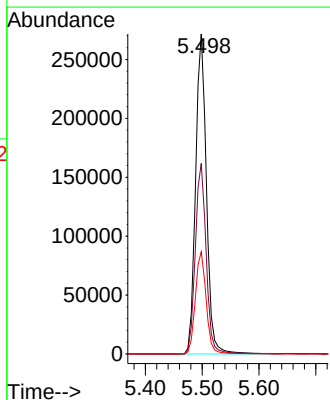
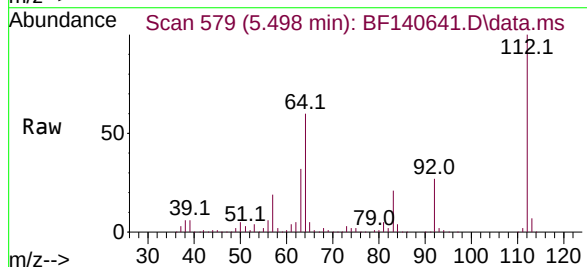
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-005

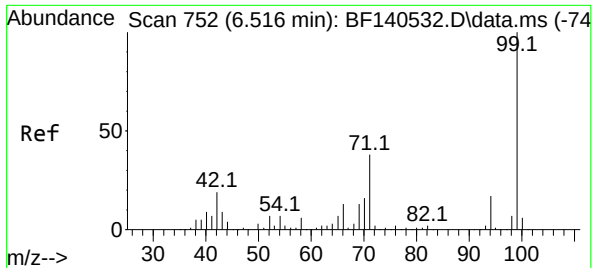
Tgt Ion:152 Resp: 73436
Ion Ratio Lower Upper
152 100
150 156.9 128.5 192.7
115 59.9 50.2 75.4



#5
2-Fluorophenol
Concen: 84.126 ng
RT: 5.498 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF140641.D
Acq: 26 Nov 2024 14:55

Tgt Ion:112 Resp: 362082
Ion Ratio Lower Upper
112 100
64 59.6 49.2 73.8
63 31.9 27.0 40.4

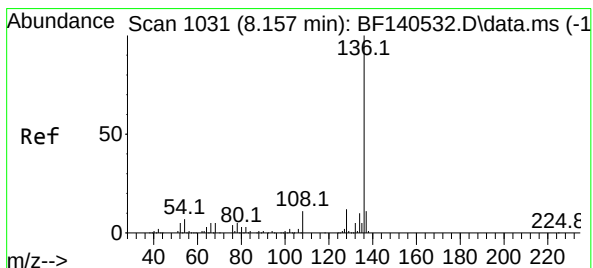
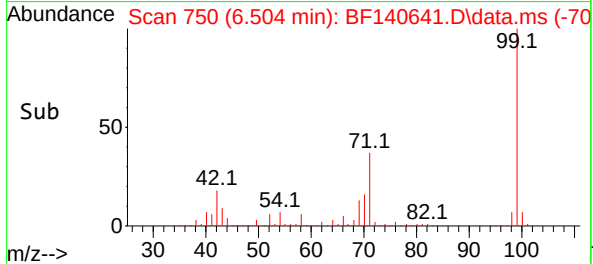
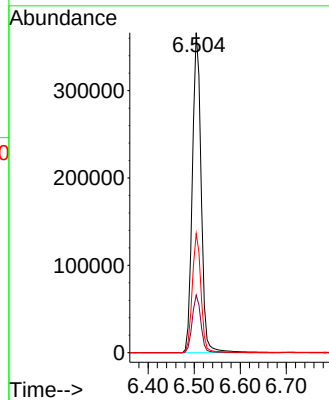
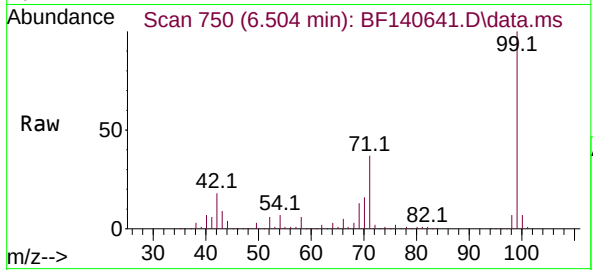




#7
Phenol-d6
Concen: 85.564 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF140641.D
Acq: 26 Nov 2024 14:55

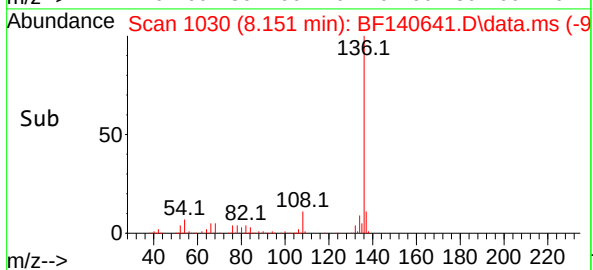
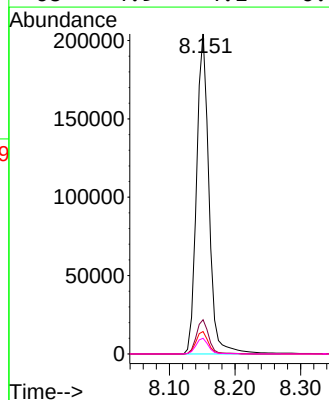
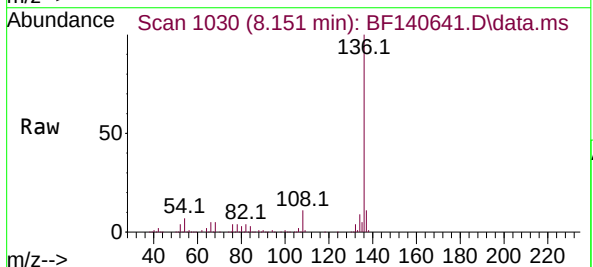
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-005

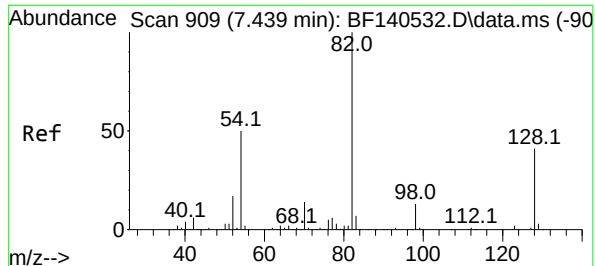
Tgt Ion: 99 Resp: 486862
Ion Ratio Lower Upper
99 100
42 18.0 15.4 23.0
71 37.2 30.6 46.0



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140641.D
Acq: 26 Nov 2024 14:55

Tgt Ion: 136 Resp: 269764
Ion Ratio Lower Upper
136 100
137 10.7 8.6 13.0
54 7.0 5.8 8.8
68 4.9 4.1 6.1





#23

Nitrobenzene-d5

Concen: 59.093 ng

RT: 7.434 min Scan# 90

Delta R.T. -0.006 min

Lab File: BF140641.D

Acq: 26 Nov 2024 14:55

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-005

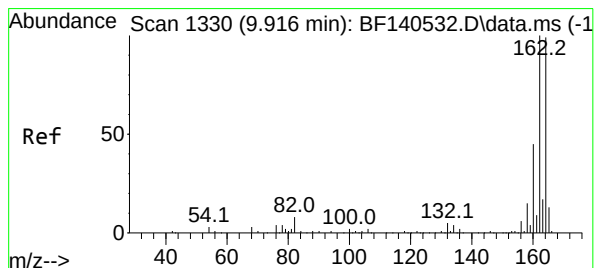
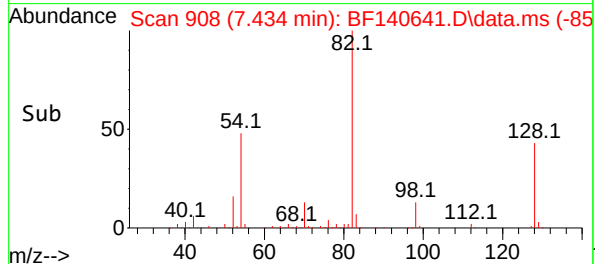
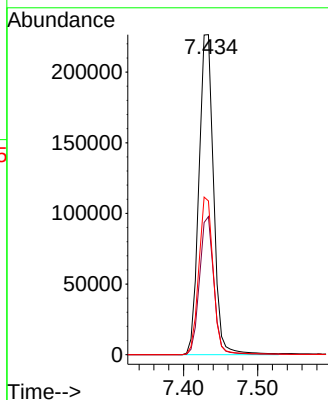
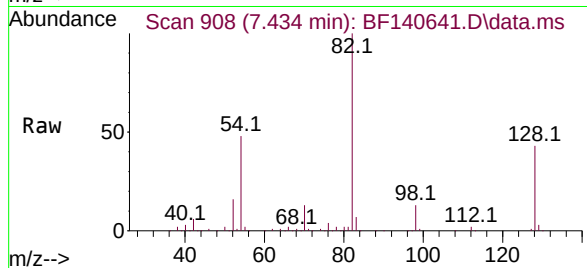
Tgt Ion: 82 Resp: 311652

Ion Ratio Lower Upper

82 100

128 43.1 33.0 49.4

54 48.1 39.5 59.3



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.904 min Scan# 1328

Delta R.T. -0.012 min

Lab File: BF140641.D

Acq: 26 Nov 2024 14:55

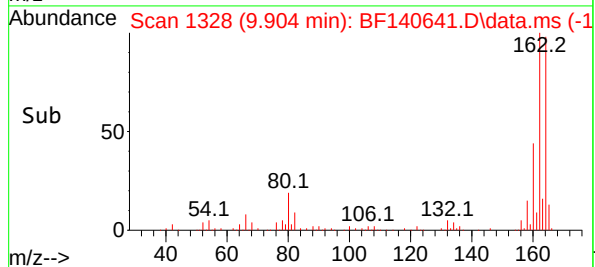
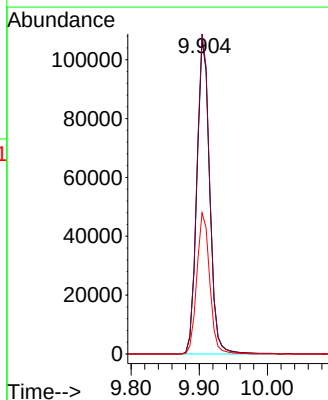
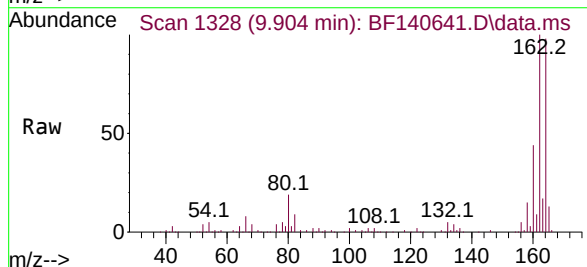
Tgt Ion:164 Resp: 139709

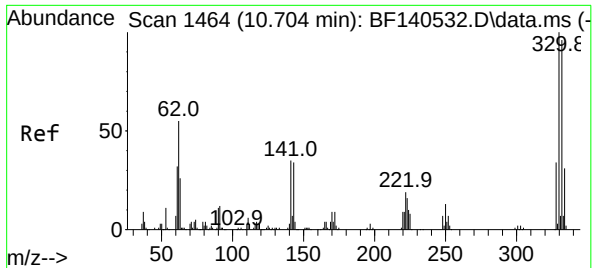
Ion Ratio Lower Upper

164 100

162 101.8 80.6 120.8

160 44.9 36.2 54.4

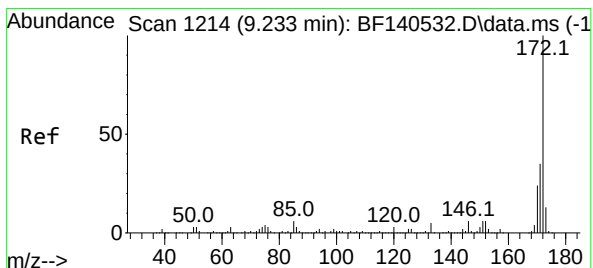
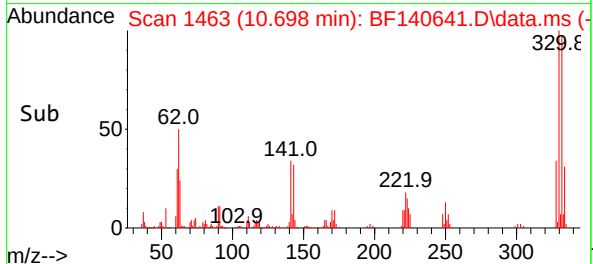
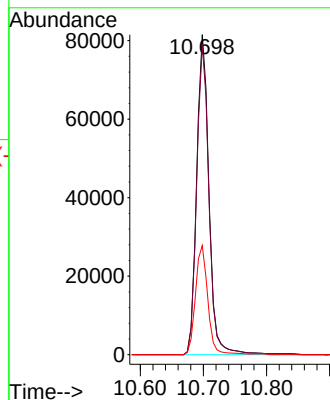
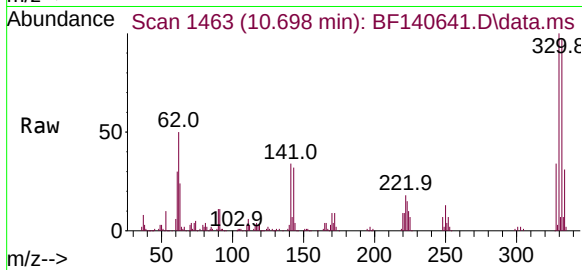




#42
2,4,6-Tribromophenol
Concen: 73.967 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.006 min
Lab File: BF140641.D
Acq: 26 Nov 2024 14:55

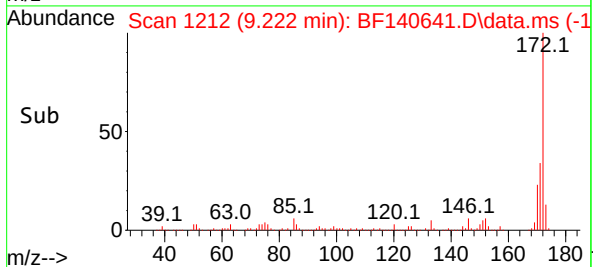
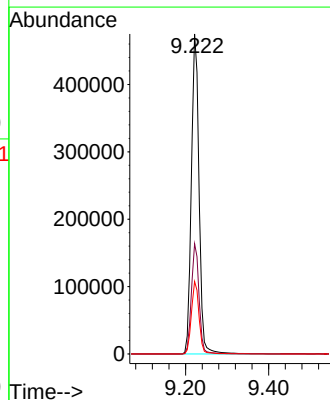
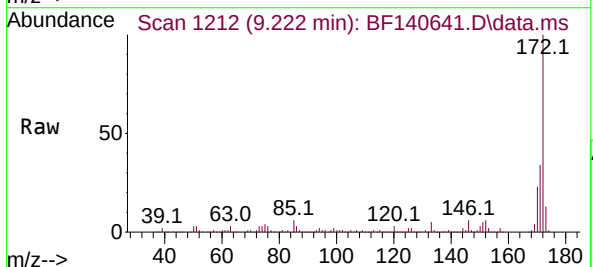
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-005

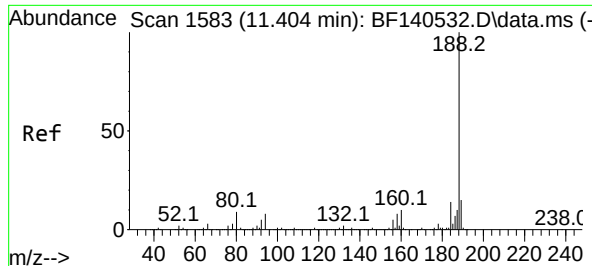
Tgt Ion:330 Resp: 110521
Ion Ratio Lower Upper
330 100
332 96.9 76.9 115.3
141 34.0 26.7 40.1



#45
2-Fluorobiphenyl
Concen: 65.150 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140641.D
Acq: 26 Nov 2024 14:55

Tgt Ion:172 Resp: 610897
Ion Ratio Lower Upper
172 100
171 34.4 28.4 42.6
170 22.6 19.0 28.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.398 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF140641.D

Acq: 26 Nov 2024 14:55

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-005

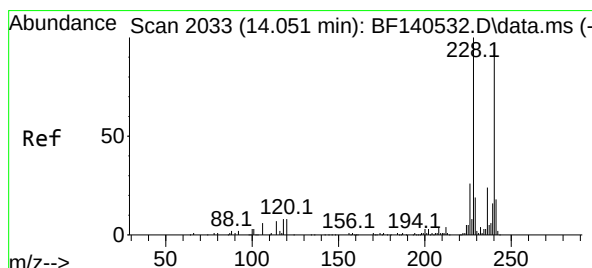
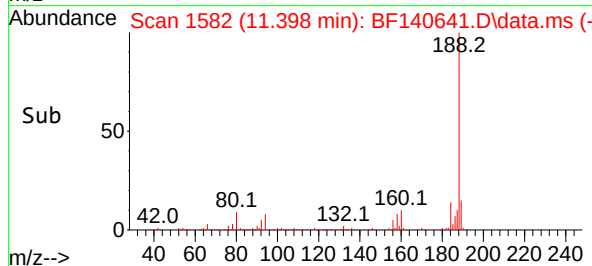
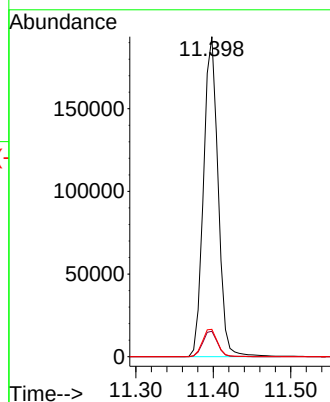
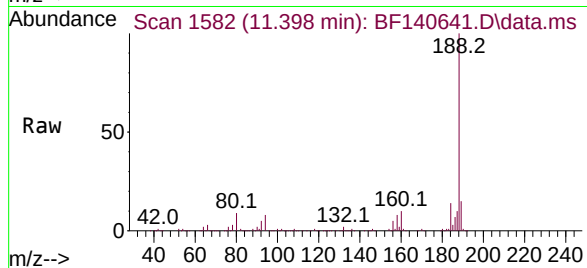
Tgt Ion:188 Resp: 252976

Ion Ratio Lower Upper

188 100

94 8.0 6.4 9.6

80 8.6 6.9 10.3



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.045 min Scan# 2032

Delta R.T. -0.006 min

Lab File: BF140641.D

Acq: 26 Nov 2024 14:55

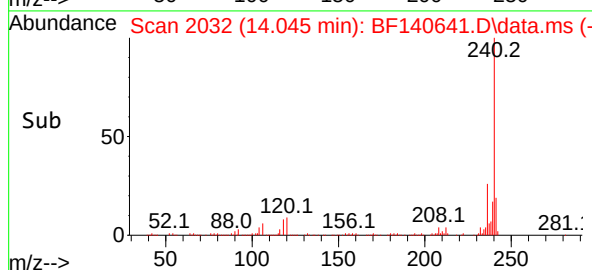
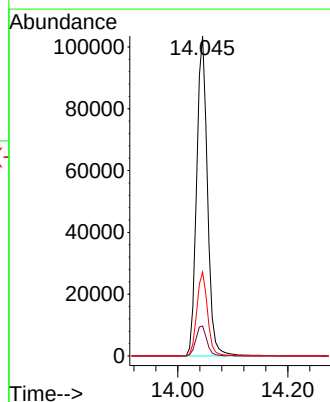
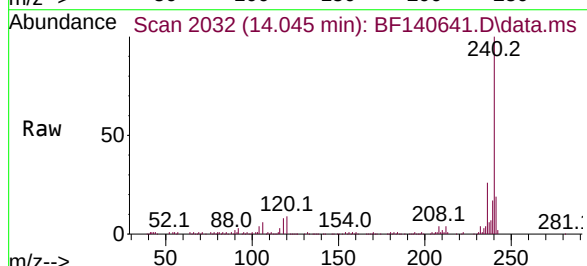
Tgt Ion:240 Resp: 141346

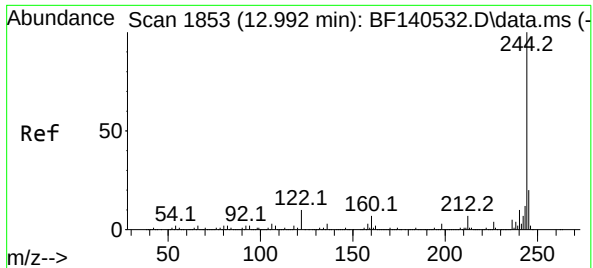
Ion Ratio Lower Upper

240 100

120 9.4 7.3 10.9

236 26.2 20.6 31.0





#79

Terphenyl-d14

Concen: 68.435 ng

RT: 12.980 min Scan# 1851

Delta R.T. -0.012 min

Lab File: BF140641.D

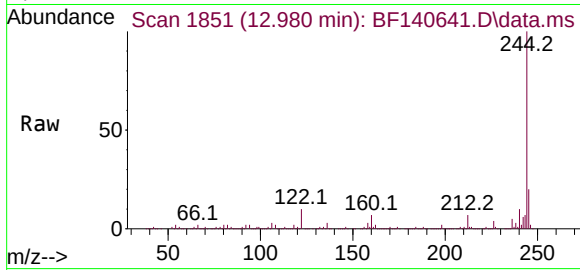
Acq: 26 Nov 2024 14:55

Instrument :

BNA_F

ClientSampleId :

PH2-BOT-005



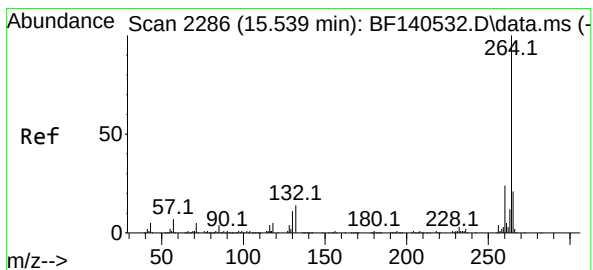
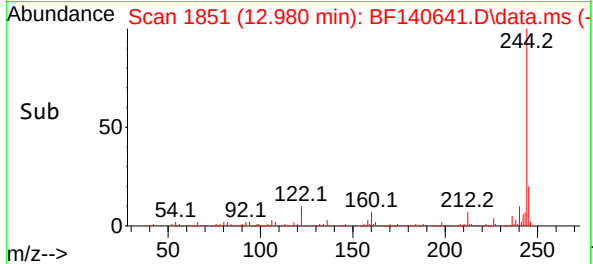
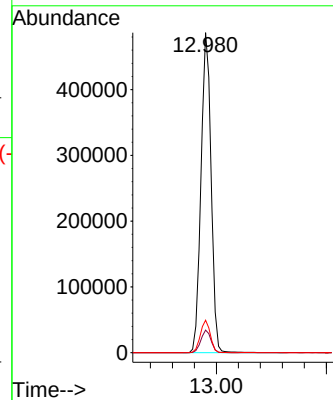
Tgt Ion:244 Resp: 621212

Ion Ratio Lower Upper

244 100

212 7.1 5.8 8.8

122 10.2 8.0 12.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 2286

Delta R.T. -0.000 min

Lab File: BF140641.D

Acq: 26 Nov 2024 14:55

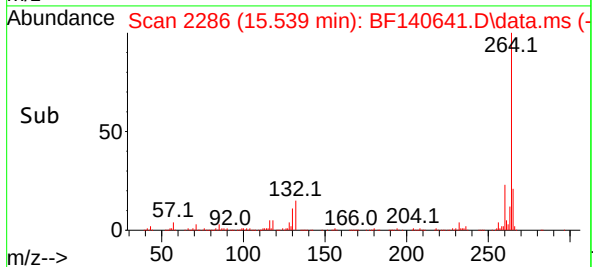
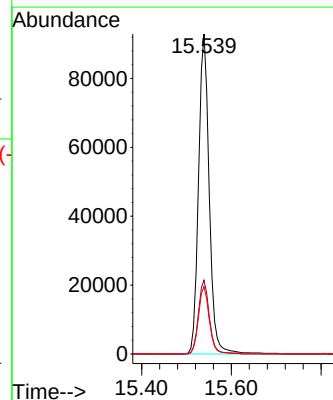
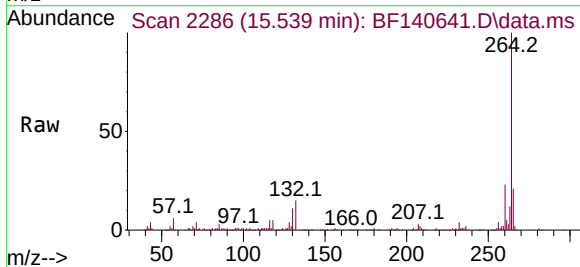
Tgt Ion:264 Resp: 153491

Ion Ratio Lower Upper

264 100

260 23.0 19.0 28.6

265 21.1 16.6 25.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
 Data File : BF140641.D
 Acq On : 26 Nov 2024 14:55
 Operator : RC/JU
 Sample : P4860-10
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PH2-BOT-005

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-BF112124.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140641.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.122	3	5	14	rVB	606370	703888	41.04%	5.408%
2	5.087	500	509	519	rBV	19315	32671	1.90%	0.251%
3	5.498	573	579	594	rBV	965519	1282769	74.80%	9.856%
4	6.504	745	750	774	rBV	1030272	1372157	80.01%	10.543%
5	6.869	807	812	819	rBV	356677	430326	25.09%	3.306%
6	7.434	902	908	919	rBV	648844	887376	51.74%	6.818%
7	7.686	946	951	963	rBV2	10719	22096	1.29%	0.170%
8	8.151	1025	1030	1045	rBV	410981	535824	31.24%	4.117%
9	9.222	1207	1212	1223	rBV	1353393	1715039	100.00%	13.178%
10	9.904	1323	1328	1345	rVB	454879	590370	34.42%	4.536%
11	10.616	1444	1449	1458	rBV	217506	284390	16.58%	2.185%
12	10.698	1458	1463	1478	rVV	624413	837670	48.84%	6.436%
13	10.927	1497	1502	1512	rVB	34059	46679	2.72%	0.359%
14	11.398	1576	1582	1590	rBV	459145	602196	35.11%	4.627%
15	11.916	1666	1670	1684	rBV	82658	147459	8.60%	1.133%
16	12.416	1751	1755	1761	rBV2	15298	22741	1.33%	0.175%
17	12.645	1786	1794	1799	rBV	47372	72175	4.21%	0.555%
18	12.980	1845	1851	1861	rBV	1284783	1631156	95.11%	12.533%
19	13.204	1884	1889	1893	rBV	14086	20043	1.17%	0.154%
20	13.545	1943	1947	1953	rBV	24588	33211	1.94%	0.255%
21	13.874	1998	2003	2018	rBV	82803	161630	9.42%	1.242%
22	14.010	2022	2026	2028	rVV	25533	34821	2.03%	0.268%
23	14.045	2028	2032	2045	rVB	282281	389191	22.69%	2.990%
24	14.192	2053	2057	2062	rVB	35892	45459	2.65%	0.349%
25	14.504	2106	2110	2123	rBV	48562	80254	4.68%	0.617%
26	14.815	2158	2163	2169	rVB	34523	48570	2.83%	0.373%
27	15.157	2216	2221	2226	rVB	47975	65806	3.84%	0.506%
28	15.539	2280	2286	2301	rVB	268191	443348	25.85%	3.406%
29	15.980	2357	2361	2368	rVB	23818	39891	2.33%	0.307%
30	16.245	2399	2406	2423	rBV7	43904	147265	8.59%	1.132%
31	16.445	2433	2440	2445	rBV2	73348	142864	8.33%	1.098%
32	16.498	2446	2449	2464	rVB4	19590	49181	2.87%	0.378%
33	17.439	2605	2609	2620	rVB9	21092	50352	2.94%	0.387%
34	17.651	2641	2645	2658	rVB9	17542	45973	2.68%	0.353%

Sum of corrected areas: 13014841

Instrument :

BNA_F

ClientSampleId :

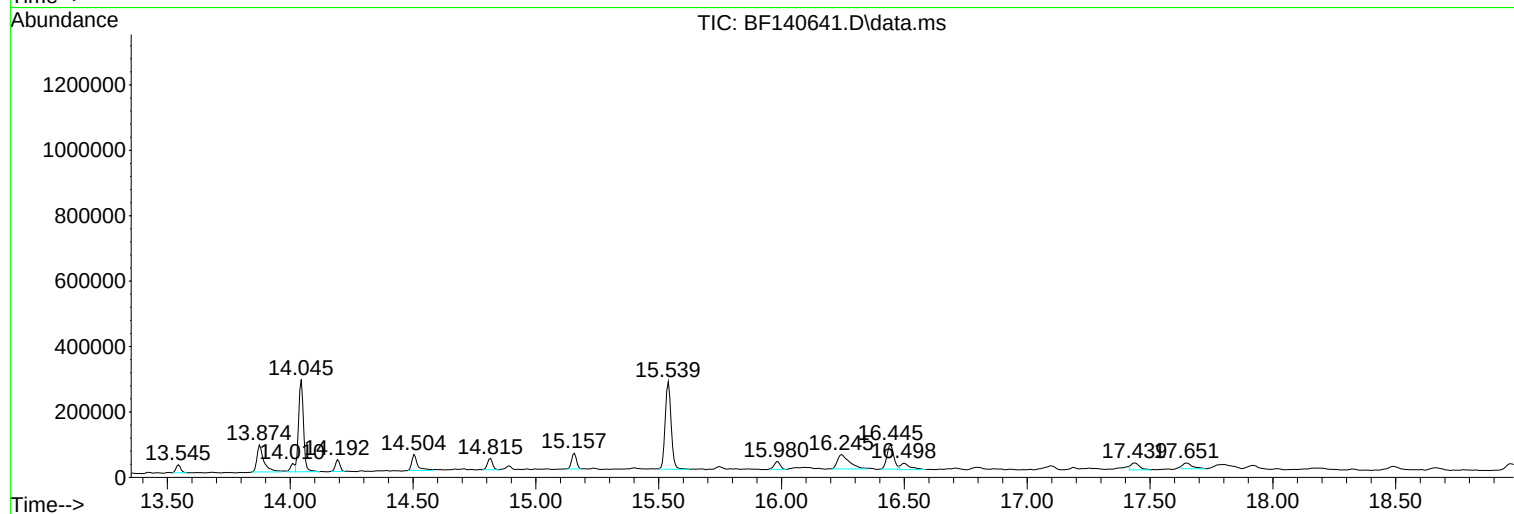
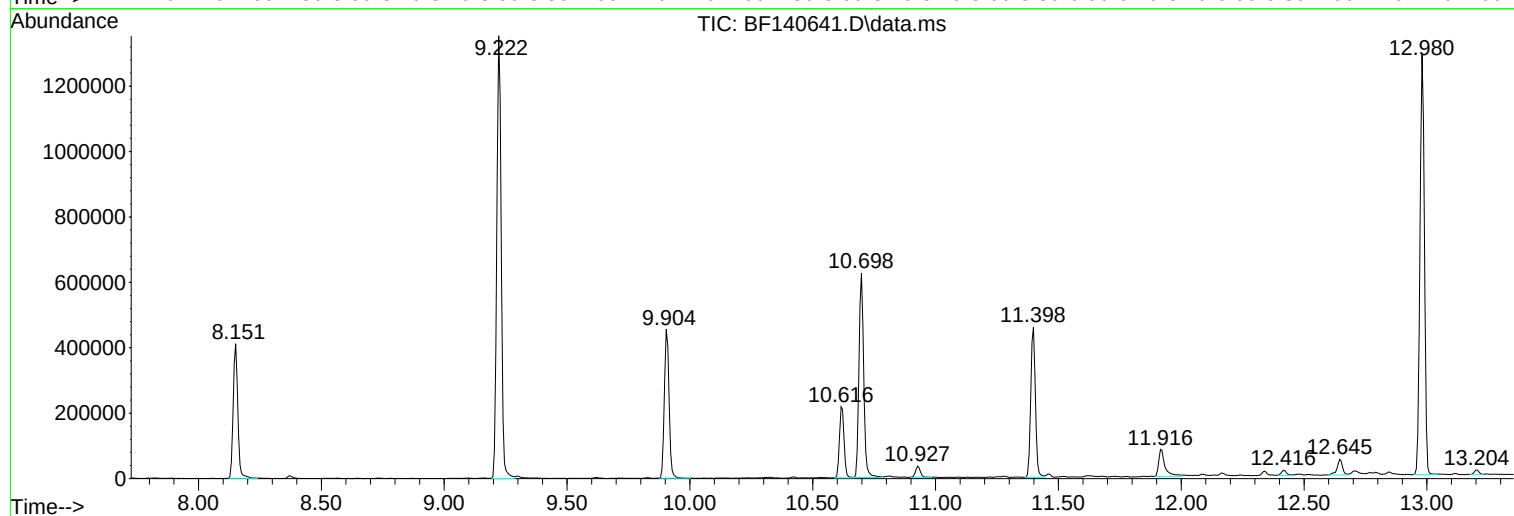
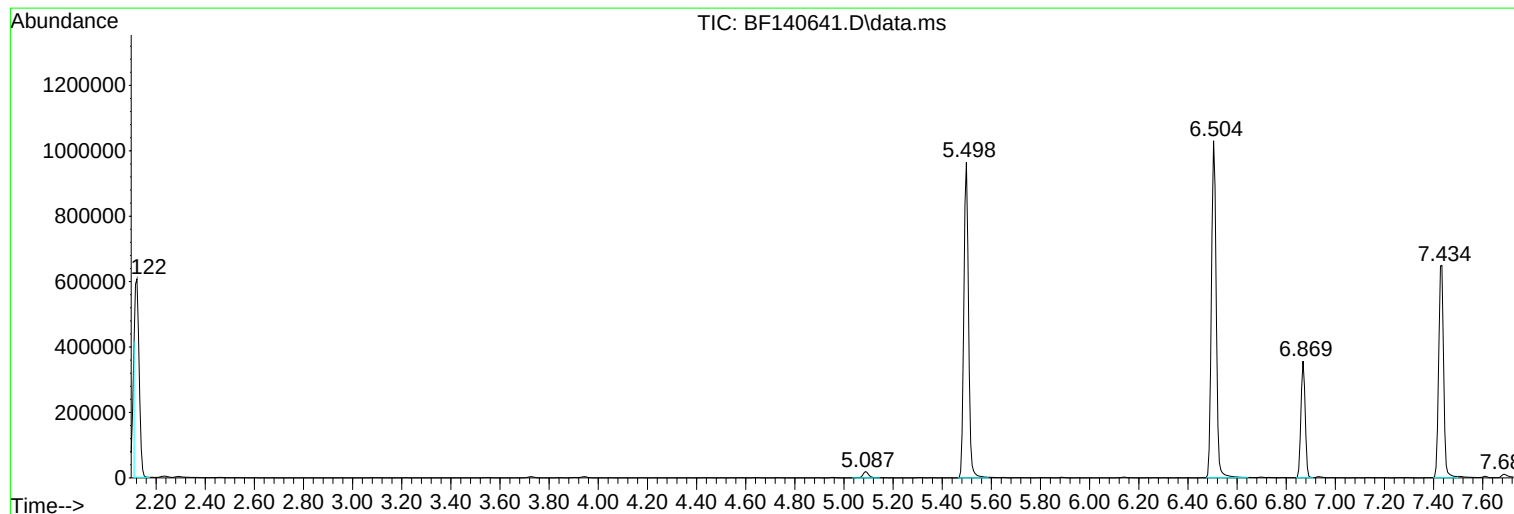
PH2-BOT-005

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-005

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-005

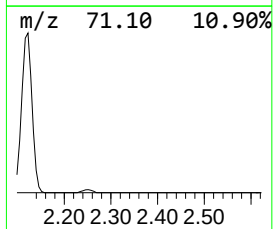
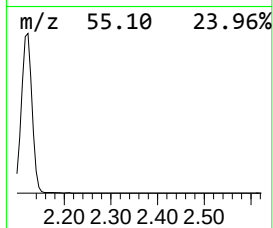
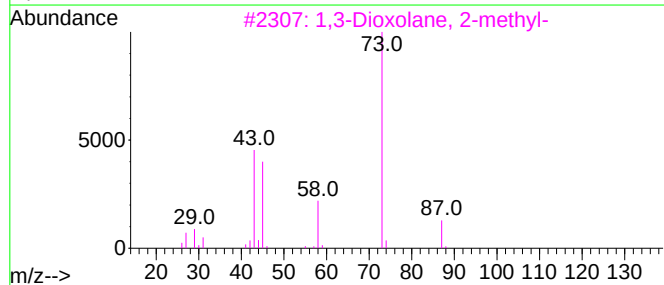
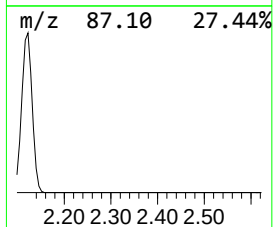
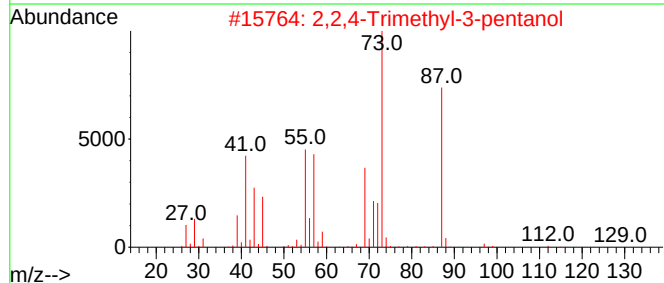
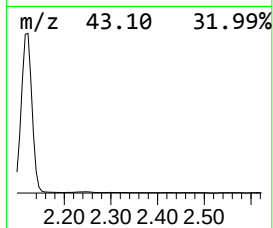
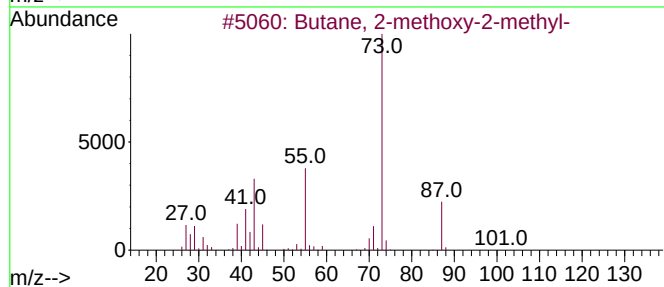
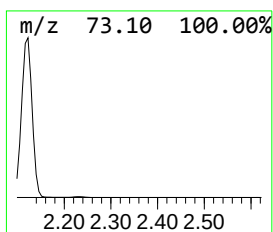
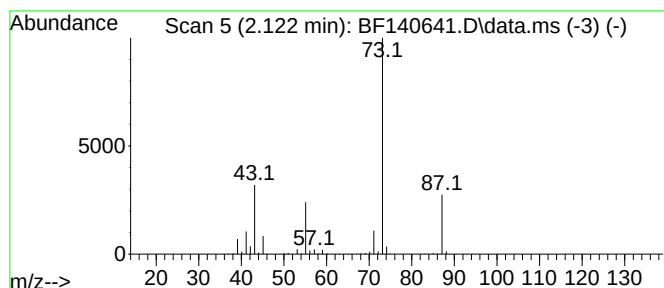
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.122	32.71 ng	703888	1,4-Dichlorobenzene-d4	6.869

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2			2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3			1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4			Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
5			Silane, tetramethyl-	88	C4H12Si	000075-76-3	17



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-005

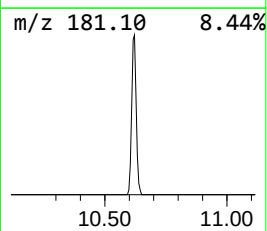
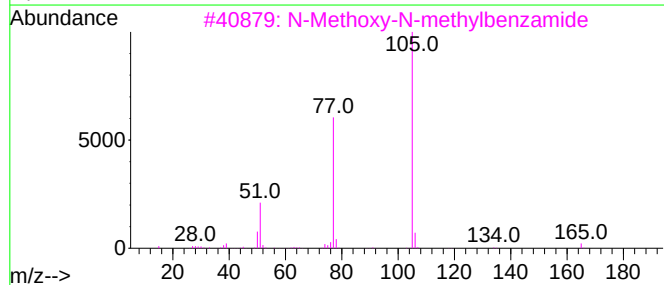
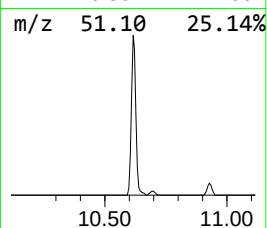
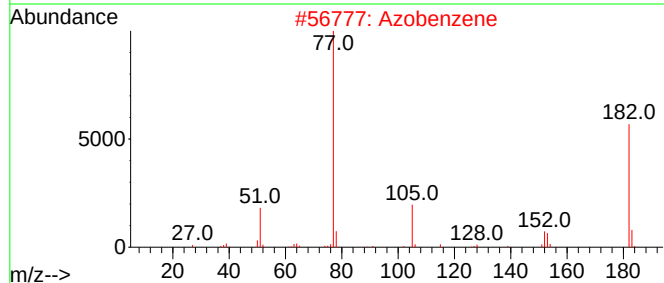
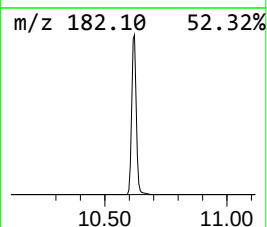
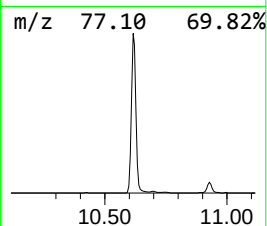
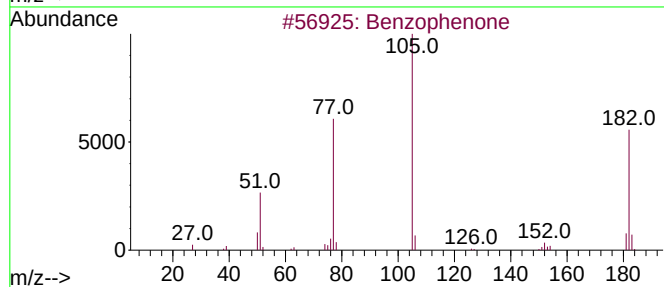
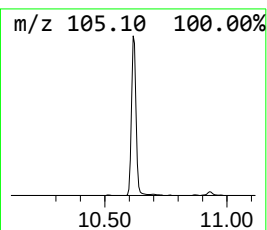
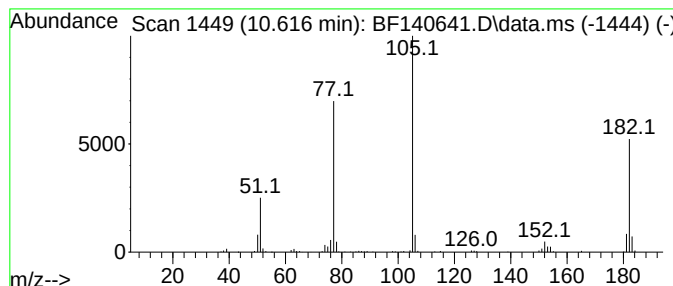
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.616	9.63 ng	284390	Acenaphthene-d10	9.904

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Azobenzene	182	C12H10N2	000103-33-3	59
3			N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	49
4			N-Methylbenzamide, N-trifluoroac...	231	C10H8F3NO2	1000446-91-5	47
5			Vinyl benzoate	148	C9H8O2	000769-78-8	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-005

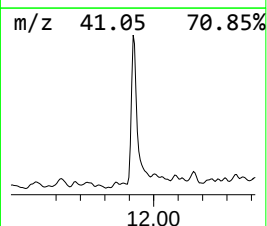
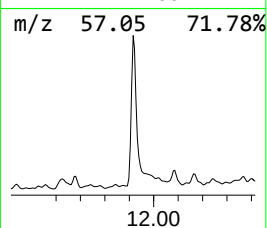
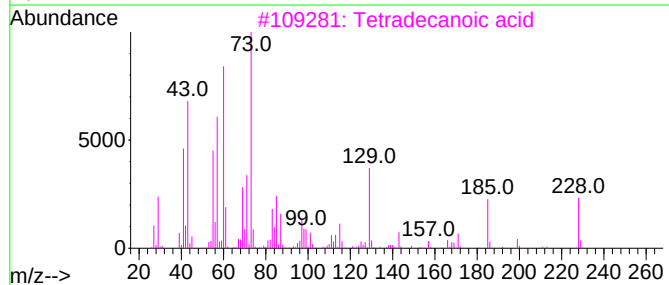
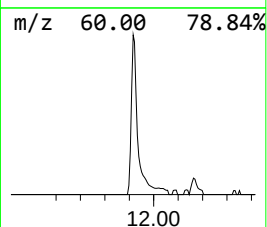
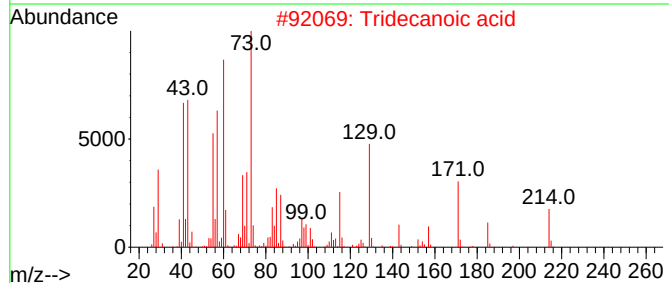
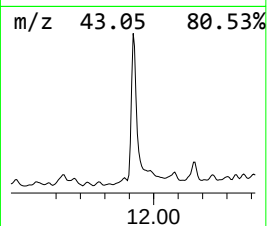
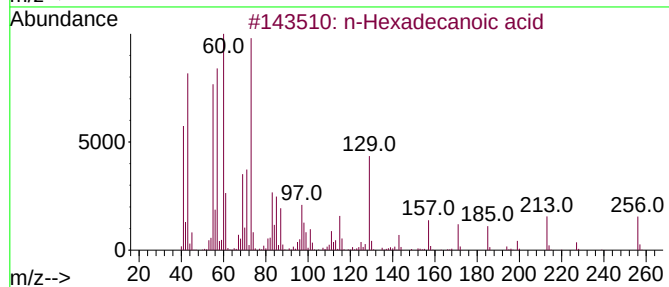
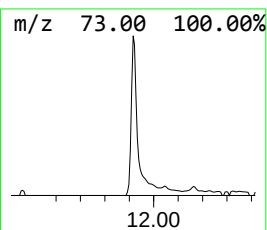
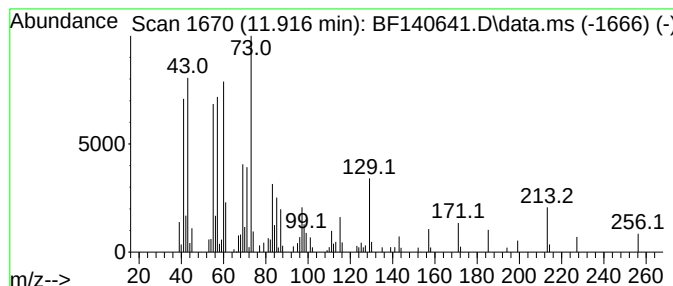
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 n-Hexadecanoic acid Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.916	4.90 ng	147459	Phenanthrene-d10	11.398

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			n-Hexadecanoic acid	256	C16H32O2	000057-10-3	97
2			Tridecanoic acid	214	C13H26O2	000638-53-9	95
3			Tetradecanoic acid	228	C14H28O2	000544-63-8	80
4			Pentadecanoic acid	242	C15H30O2	001002-84-2	74
5			Oxalic acid, dodecyl propyl ester	300	C17H32O4	1000309-26-5	25



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-005

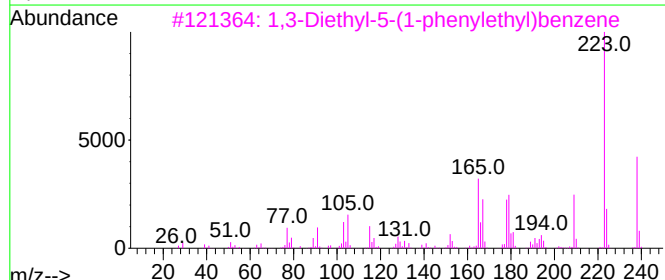
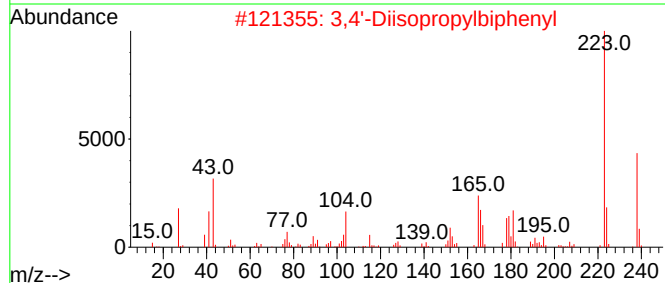
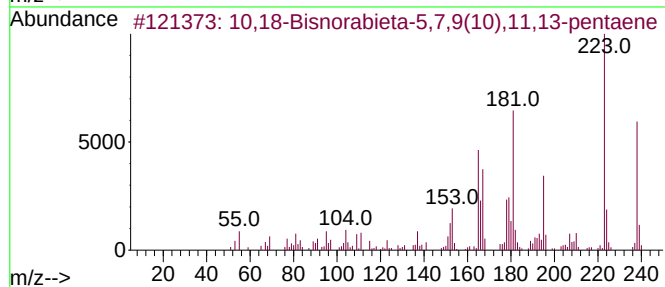
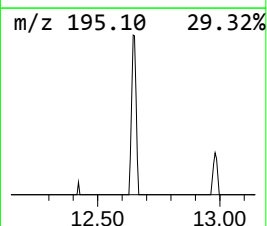
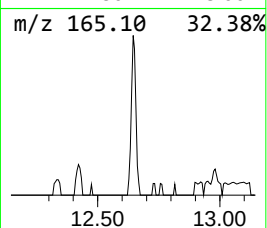
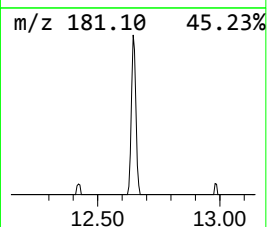
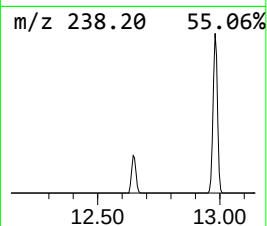
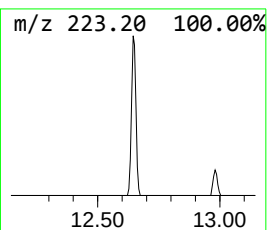
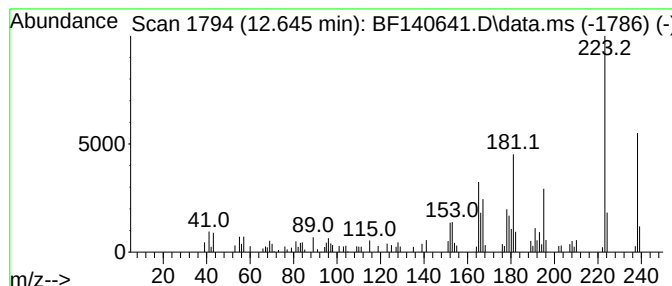
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 10,18-Bisnorabieta-5,7,9(10... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.645	2.40 ng	72175	Phenanthrene-d10	11.398

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	10,18-Bisnorabieta-5,7,9(10),11,...	238	C18H22	006566-19-4	99		
2	3,4'-Diisopropylbiphenyl	238	C18H22	061434-46-6	89		
3	1,3-Diethyl-5-(1-phenylethyl)ben...	238	C18H22	1000482-32-6	72		
4	3-(N,N-Diethylamino)carbazole	238	C16H18N2	054994-31-9	49		
5	4,4'-Diisopropylbiphenyl	238	C18H22	018970-30-4	49		



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-005

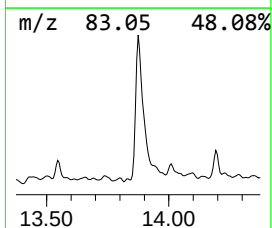
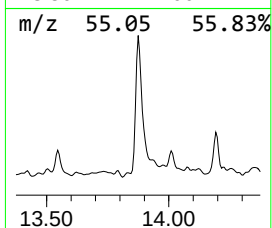
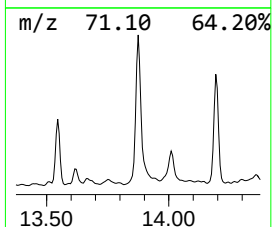
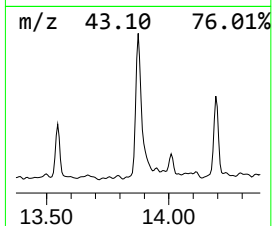
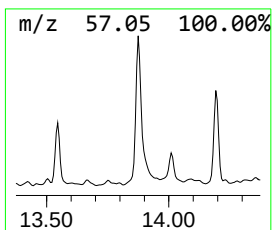
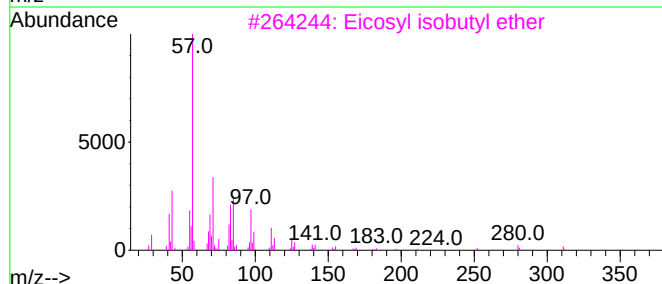
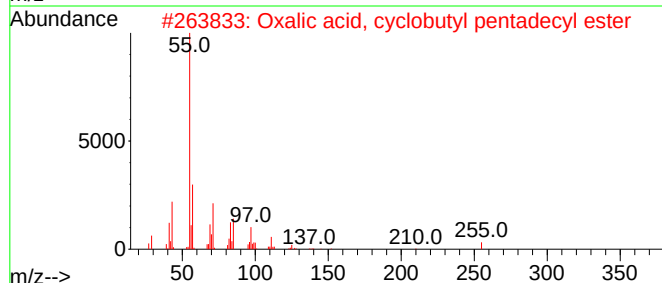
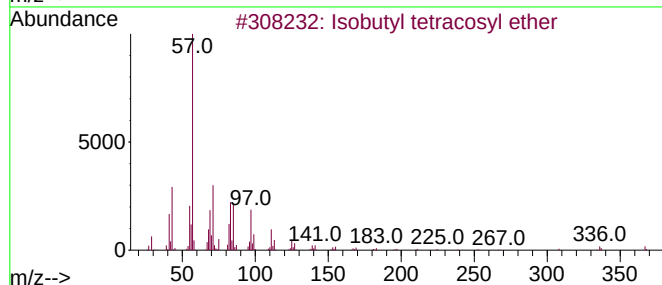
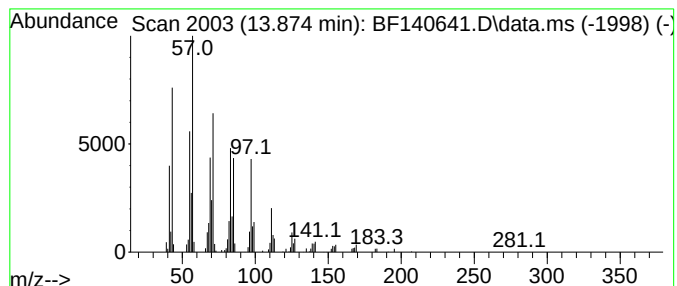
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Isobutyl tetracosyl ether Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.874	8.31 ng	161630	Chrysene-d12	14.045

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Isobutyl tetracosyl ether	410	C28H58O	1000406-33-2	91
2			Oxalic acid, cyclobutyl pentadec...	354	C21H38O4	1010309-70-5	90
3			Eicosyl isobutyl ether	354	C24H50O	1000406-33-0	90
4			1-Decanol, 2-octyl-	270	C18H38O	045235-48-1	83
5			1-Decanol, 2-hexyl-	242	C16H34O	002425-77-6	74



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-005

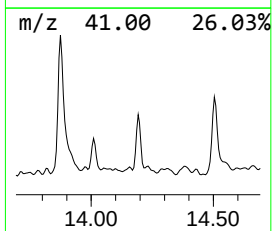
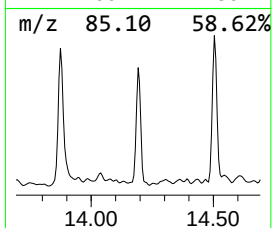
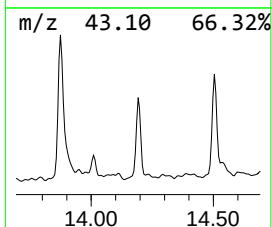
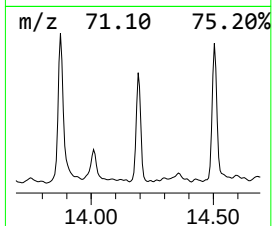
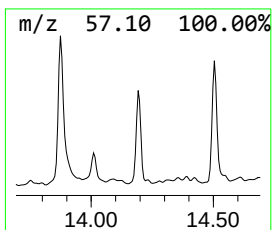
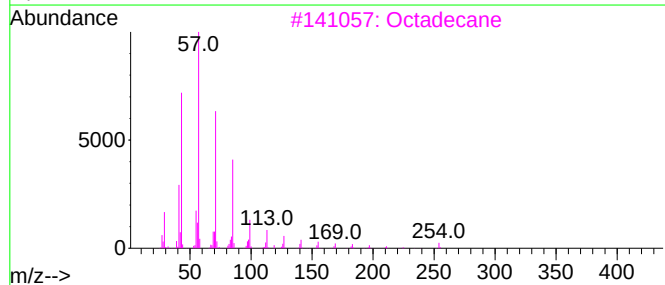
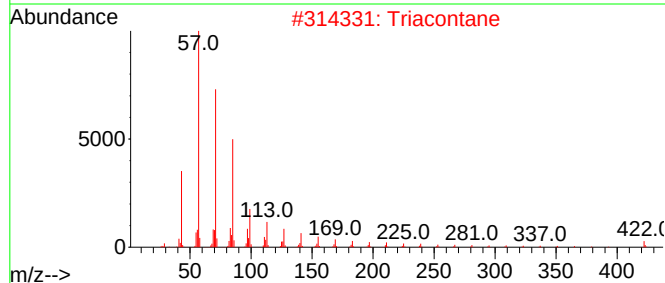
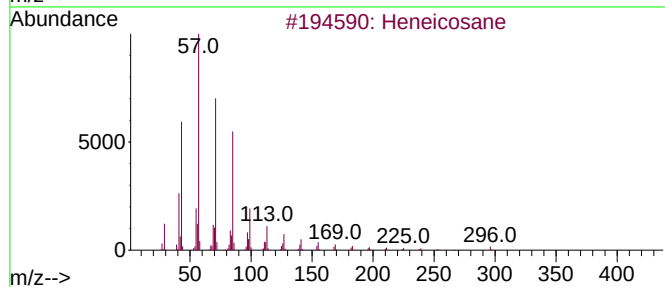
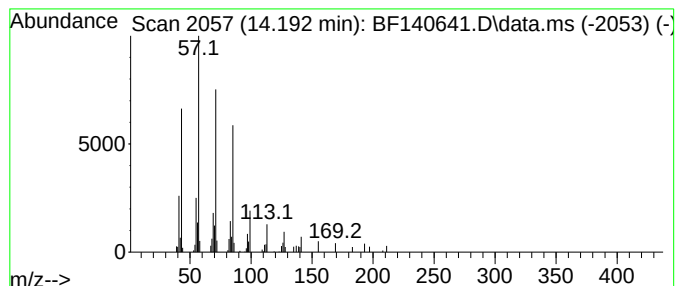
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Heneicosane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.192	2.34 ng	45459	Chrysene-d12	14.045

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Heneicosane	296	C21H44	000629-94-7	91
2		Triacontane	422	C30H62	000638-68-6	91
3		Octadecane	254	C18H38	000593-45-3	91
4		Octacosane	394	C28H58	000630-02-4	90
5		Tridecanol, 2-ethyl-2-methyl-	242	C16H34O	1010115-66-1	90



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
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Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

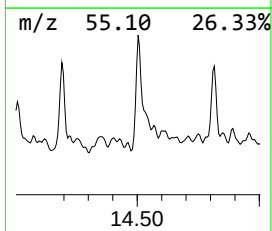
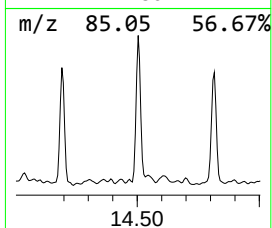
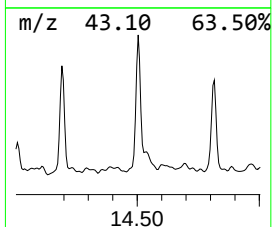
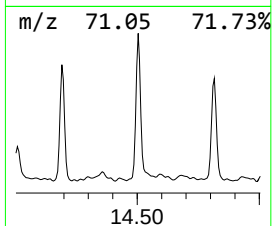
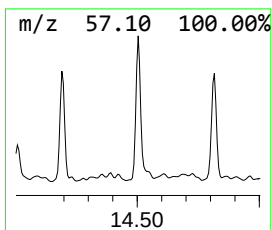
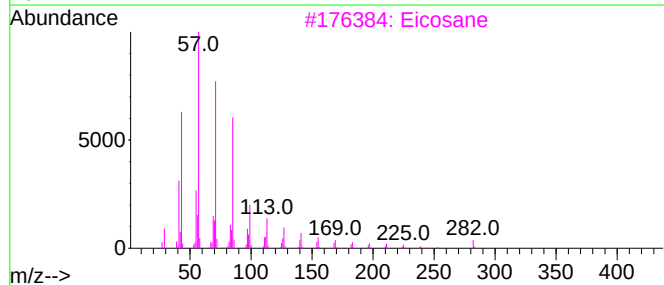
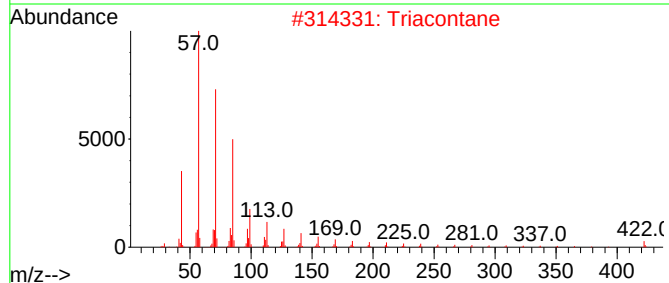
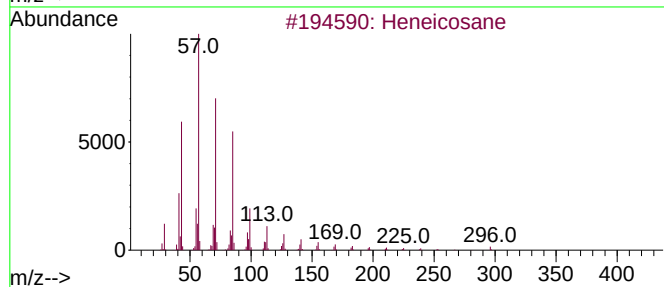
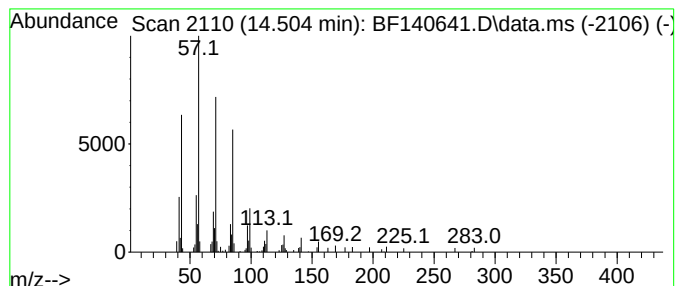
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Triacontane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.	
14.504	4.12 ng	80254	Chrysene-d12	14.045	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	91
2	Triacontane	422	C30H62	000638-68-6	91
3	Eicosane	282	C20H42	000112-95-8	91
4	Octacosane, 2-methyl-	408	C29H60	001560-98-1	91
5	Octacosane	394	C28H58	000630-02-4	90



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
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Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
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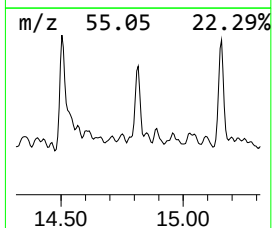
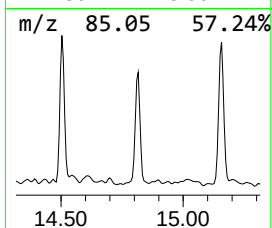
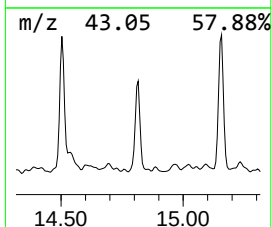
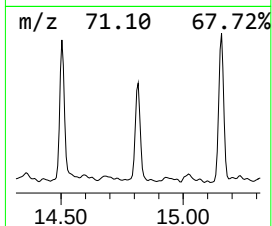
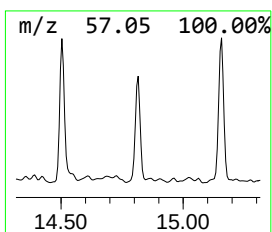
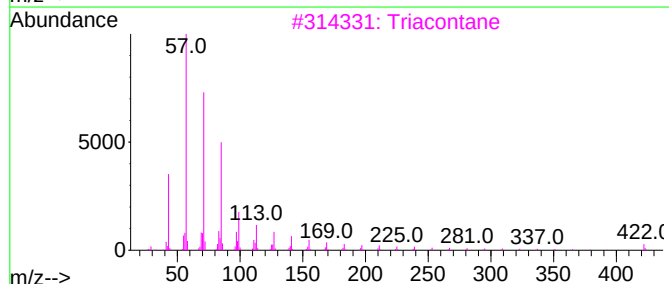
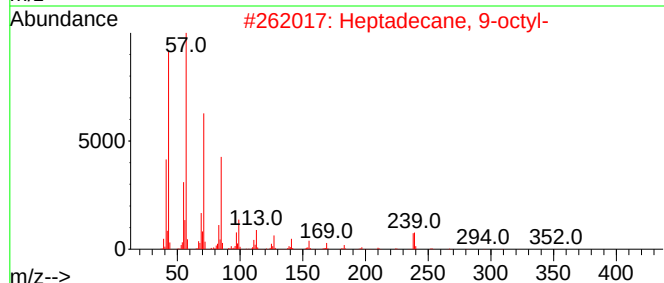
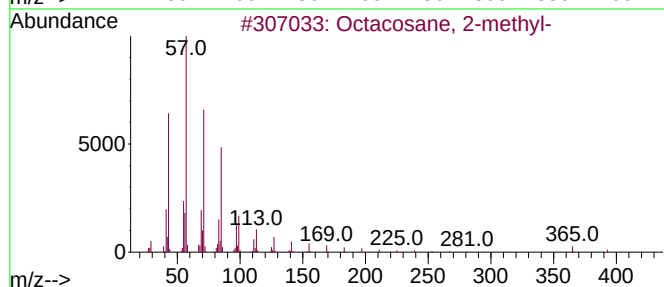
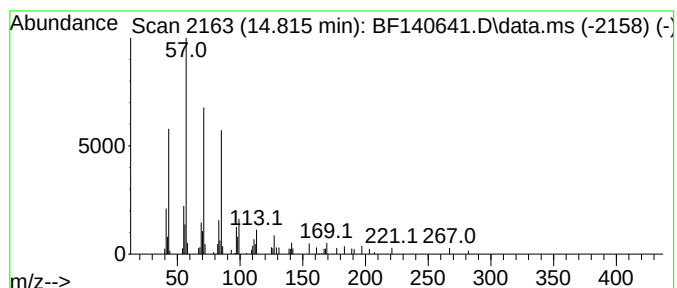
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Octacosane, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.	
14.815	2.19 ng	48570	Perylene-d12	15.539	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane, 2-methyl-	408	C29H60	001560-98-1	91
2	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	91
3	Triacontane	422	C30H62	000638-68-6	91
4	Octacosane	394	C28H58	000630-02-4	91
5	Octadecane	254	C18H38	000593-45-3	91



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

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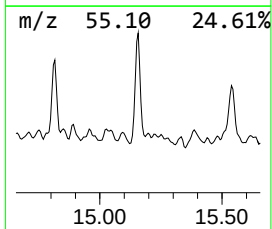
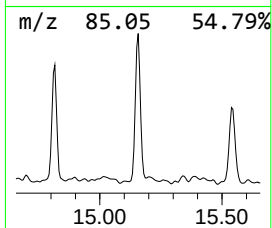
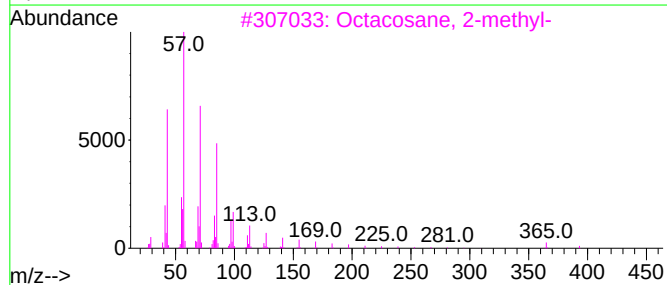
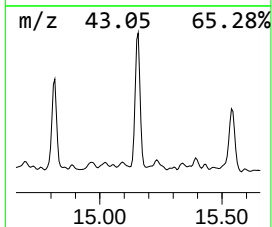
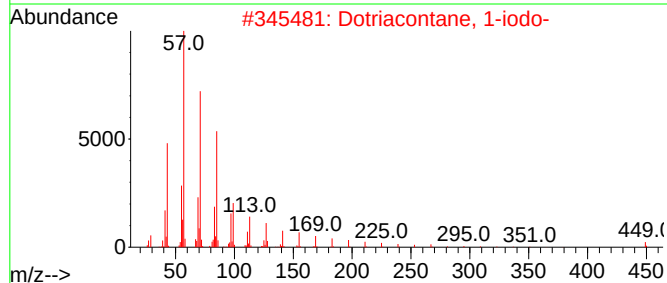
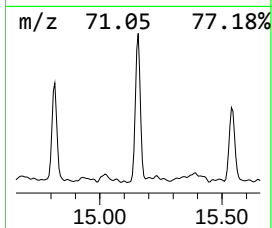
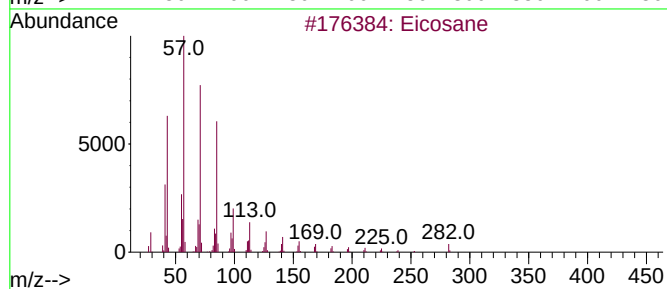
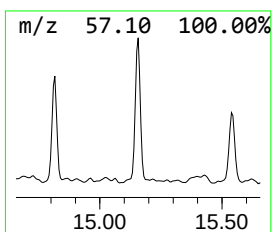
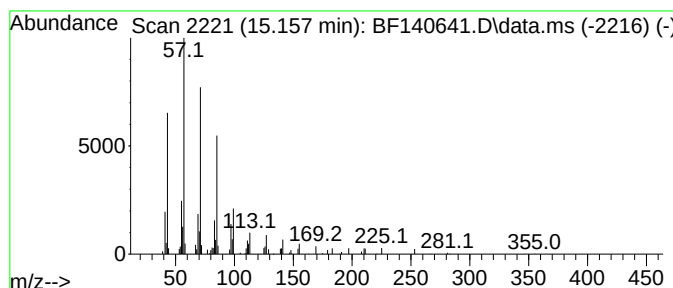
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Eicosane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.157	2.97 ng	65806	Perylene-d12	15.539

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Eicosane	282	C20H42	000112-95-8	91
2			Dotriacontane, 1-iodo-	576	C32H65I	1000406-32-4	91
3			Octacosane, 2-methyl-	408	C29H60	001560-98-1	91
4			Heneicosane	296	C21H44	000629-94-7	91
5			Triacontane	422	C30H62	000638-68-6	91



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
PH2-BOT-005

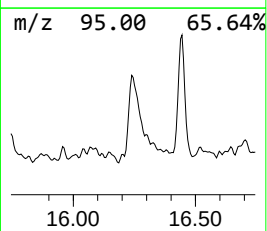
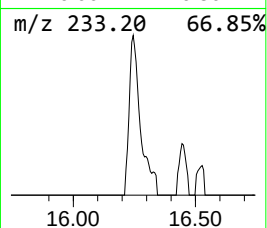
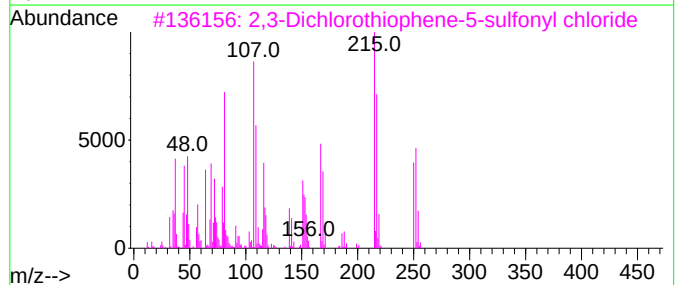
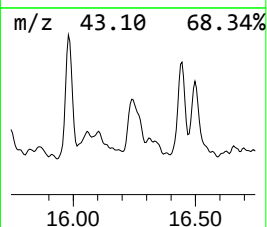
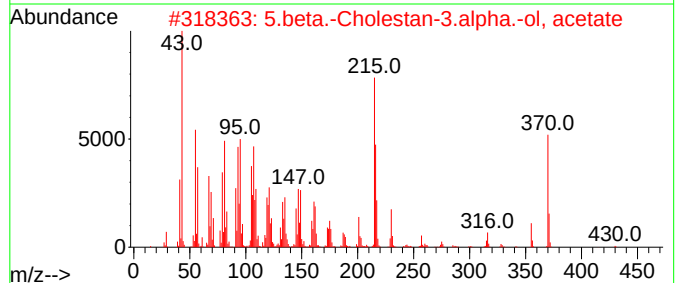
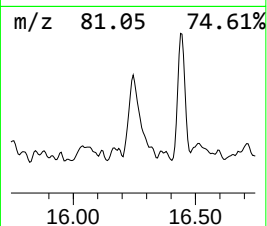
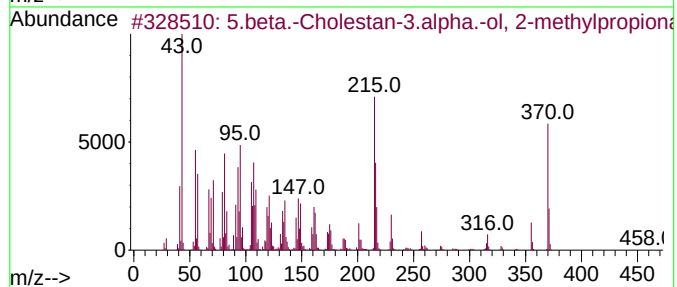
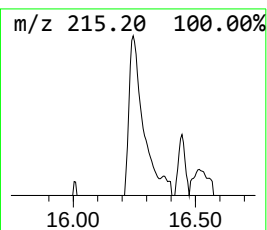
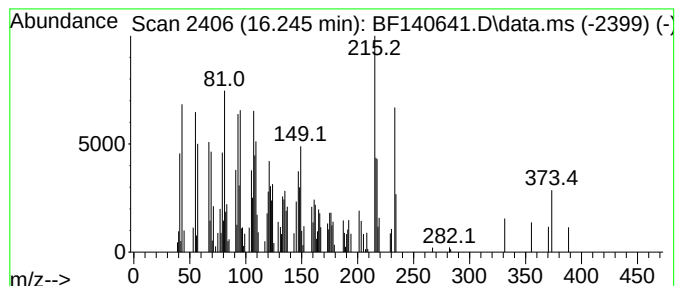
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 unknown16.245 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.245	6.64 ng	147265	Perylene-d12	15.539

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5.beta.-Cholestan-3.alpha.-ol, 2...	458	C31H54O2	1000514-95-7	49	
2	5.beta.-Cholestan-3.alpha.-ol, a...	430	C29H50O2	033157-47-0	38	
3	2,3-Dichlorothiophene-5-sulfonyl...	250	C4HCl3O2S2	126714-85-0	38	
4	Cholestan-3.beta.-yl benzoate	492	C34H52O2	005808-11-7	27	
5	5-(2-Methyloctan-2-yl)-3-(1R,3R-...	332	C22H36O2	070434-92-3	27	



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
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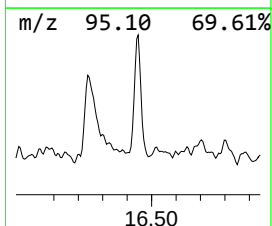
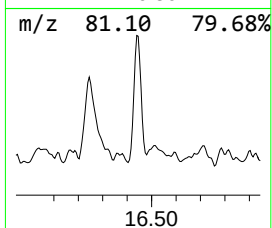
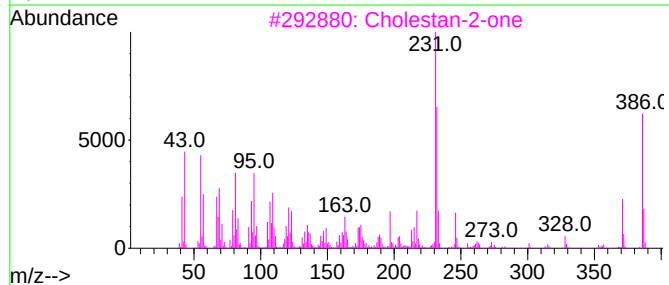
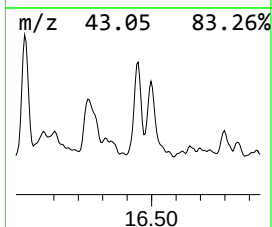
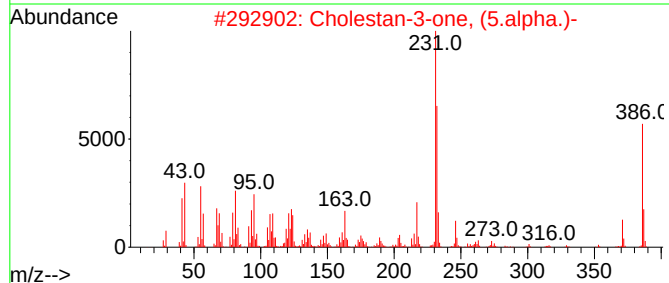
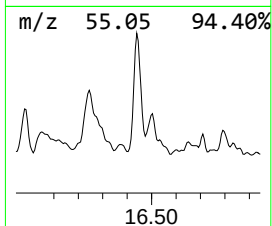
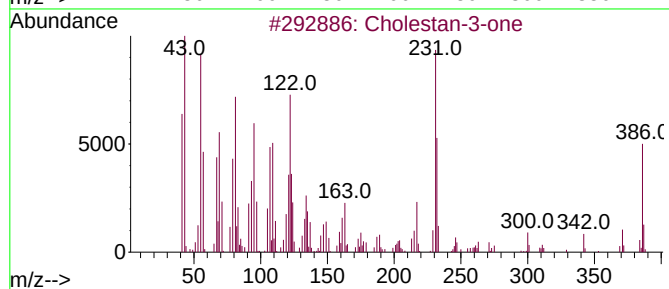
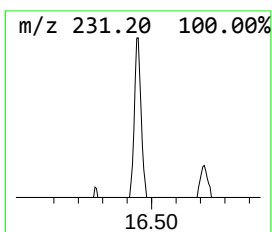
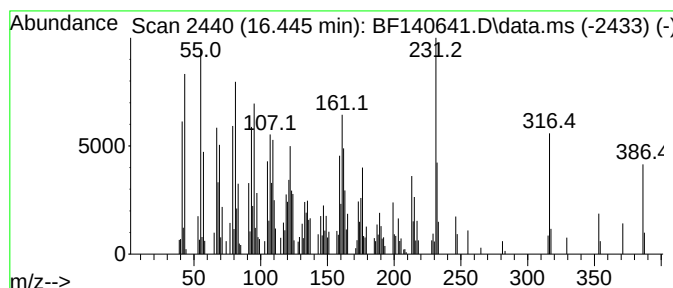
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Cholestan-3-one Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
16.445	6.44 ng	142864	Perylene-d12	15.539	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cholestan-3-one	386	C27H46O	015600-08-5	83
2	Cholestan-3-one, (5.alpha.)-	386	C27H46O	000566-88-1	62
3	Cholestan-2-one	386	C27H46O	1010210-43-4	47
4	Cholestan-3-one, (5.beta.)-	386	C27H46O	000601-53-6	42
5	trans-1-(p-Methoxyphenyl)-1-tetr...	316	C21H32O2	123501-67-7	35



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
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Acq On : 26 Nov 2024 14:55
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Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

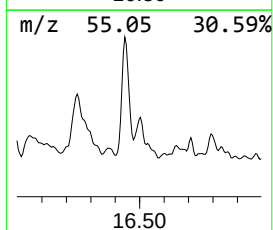
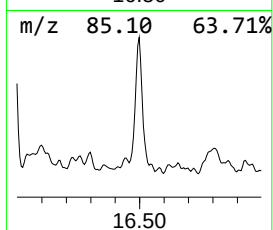
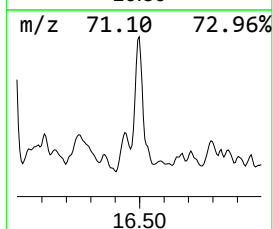
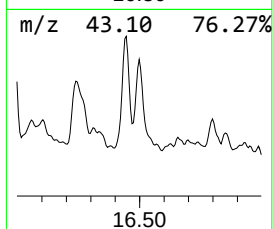
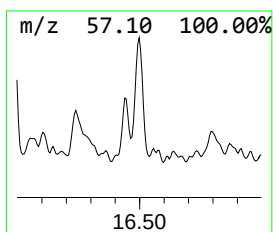
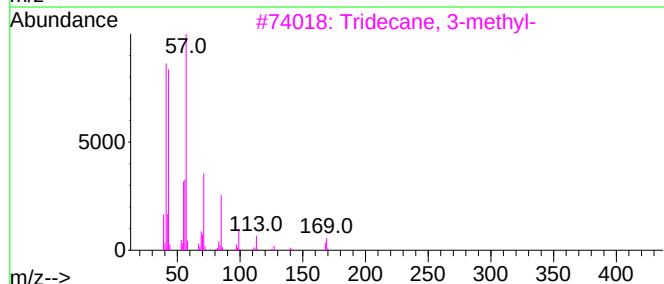
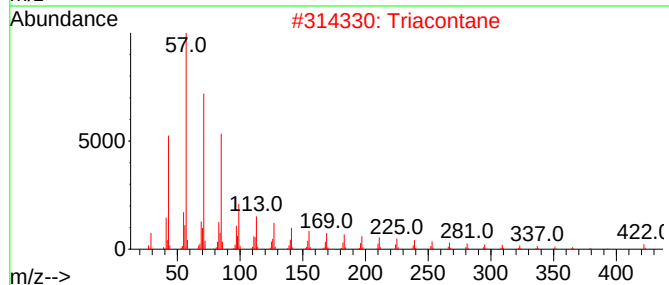
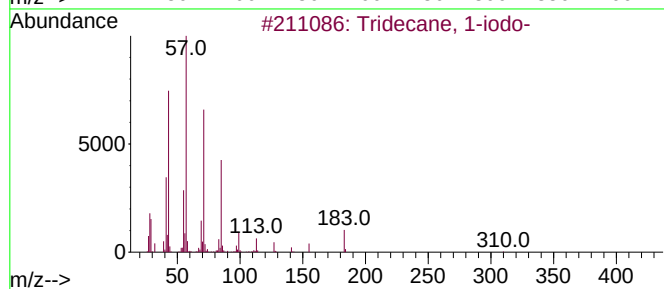
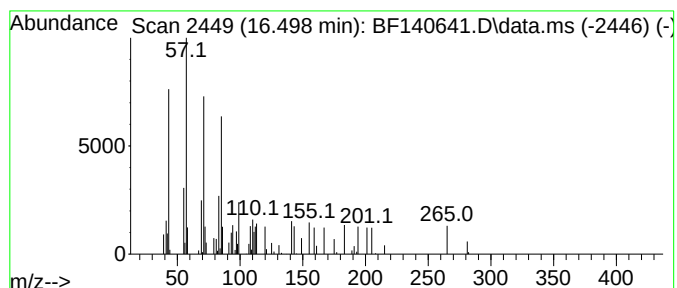
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 12 unknown16.498

Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.498	2.22 ng	49181	Perylene-d12	15.539

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Tridecane, 1-iodo-	310	C13H27I	035599-77-0	47
2		Triacontane	422	C30H62	000638-68-6	47
3		Tridecane, 3-methyl-	198	C14H30	006418-41-3	47
4		Sulfurous acid, 2-propyl undecyl...	278	C14H30O3S	1000309-12-2	47
5		Octacosane	394	C28H58	000630-02-4	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

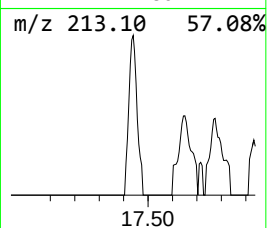
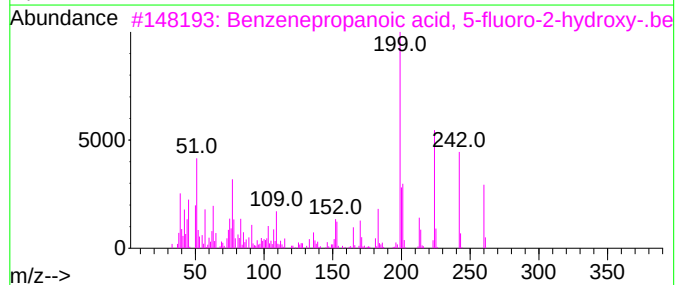
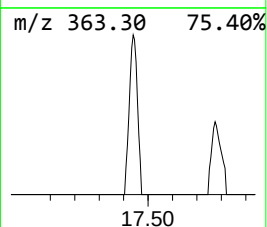
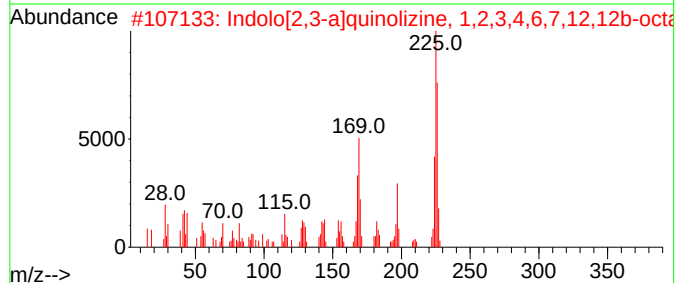
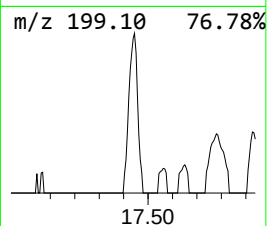
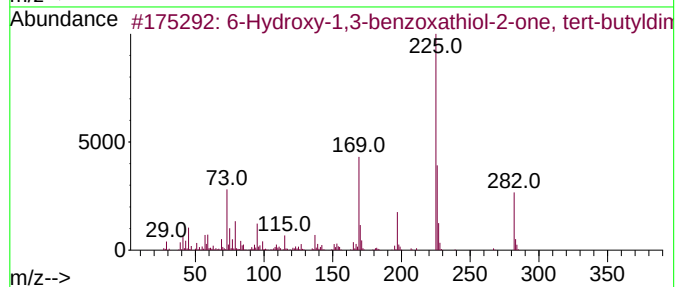
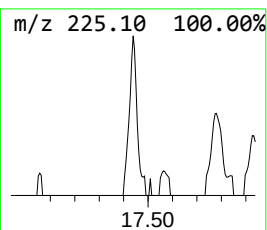
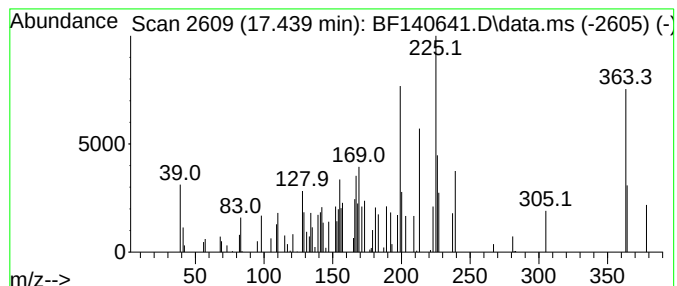
Instrument :
BNA_F
ClientSampleId :
PH2-BOT-005

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number	13	unknown	17.439	Concentration	Rank	11

R.T.	EstConc	Area	Relative to ISTD	R.T.	
17.439	2.27 ng	50352	Perylene-d12	15.539	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6-Hydroxy-1,3-benzoxathiol-2-one...	282	C13H18O3SSi	1010461-98-2	12
2	Indolo[2,3-a]quinolizine, 1,2,3,...	226	C15H18N2	004802-79-3	11
3	Benzenepropanoic acid, 5-fluoro-...	260	C15H13FO3	1000362-84-1	10
4	3-Methoxydiphenylamine	199	C13H13NO	000101-16-6	10
5	6-(2-Chloroethylthio)-N,N,N',N'...	261	C9H16ClN5S	1000102-02-9	10



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-005

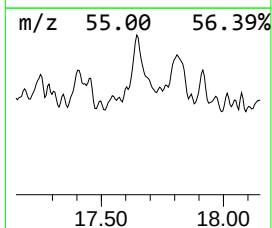
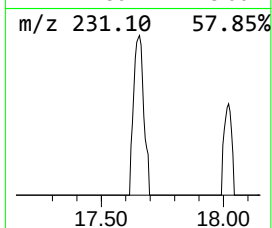
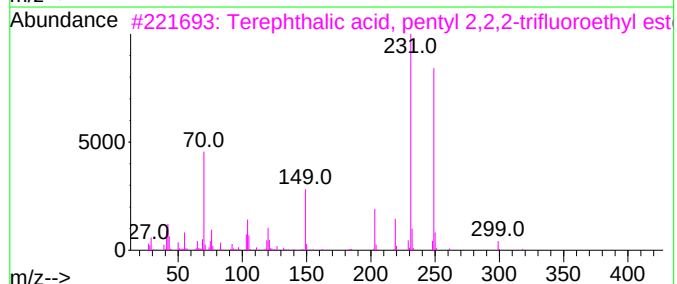
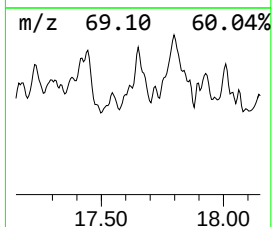
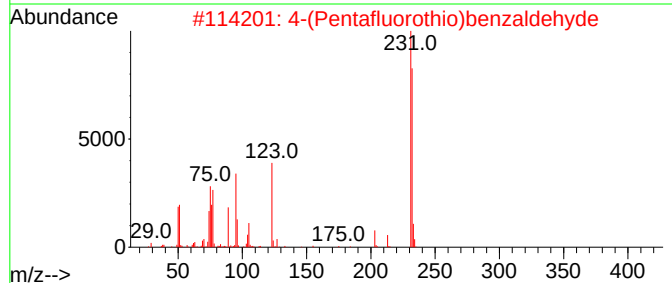
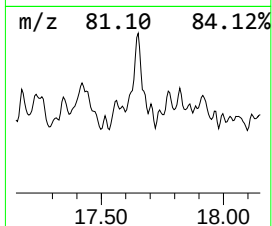
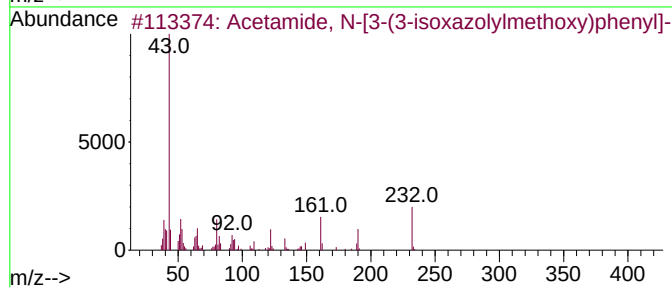
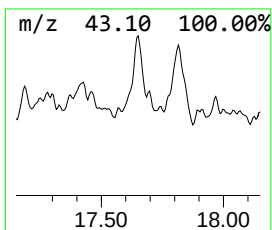
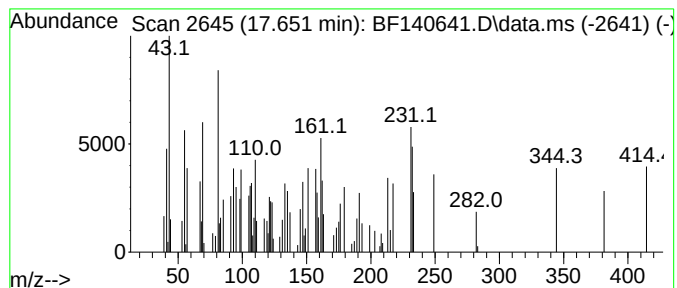
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 unknown17.651 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.651	2.07 ng	45973	Perylene-d12	15.539

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Acetamide, N-[3-(3-isoxazolylmet...	232	C12H12N2O3	1000362-73-8	10
2			4-(Pentafluorothio)benzaldehyde	232	C7H5F5OS	401892-84-0	10
3			Terephthalic acid, pentyl 2,2,2-...	318	C15H17F3O4	1000383-04-0	10
4			4-(4-Chlorophenoxy)benzaldehyde	232	C13H9ClO2	061343-99-5	10
5			Costunolide	232	C15H20O2	000553-21-9	10



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140641.D
Acq On : 26 Nov 2024 14:55
Operator : RC/JU
Sample : P4860-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-005

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Butane, 2-metho...	2.122	32.7	ng	703888	1	6.869	430326	20.0
Benzophenone	10.616	9.6	ng	284390	3	9.904	590370	20.0
n-Hexadecanoic ...	11.916	4.9	ng	147459	4	11.398	602196	20.0
10,18-Bisnorabi...	12.645	2.4	ng	72175	4	11.398	602196	20.0
Isobutyl tetrac...	13.874	8.3	ng	161630	5	14.045	389191	20.0
Heneicosane	14.192	2.3	ng	45459	5	14.045	389191	20.0
triacontane	14.504	4.1	ng	80254	5	14.045	389191	20.0
Octacosane, 2-m...	14.815	2.2	ng	48570	6	15.539	443348	20.0
Eicosane	15.157	3.0	ng	65806	6	15.539	443348	20.0
unknown16.245	16.245	6.6	ng	147265	6	15.539	443348	20.0
Cholestan-3-one	16.445	6.4	ng	142864	6	15.539	443348	20.0
unknown16.498	16.498	2.2	ng	49181	6	15.539	443348	20.0
unknown17.439	17.439	2.3	ng	50352	6	15.539	443348	20.0
unknown17.651	17.651	2.1	ng	45973	6	15.539	443348	20.0



CALIBRATION SUMMARY

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CORN02
 Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860
 Instrument ID: BNA_F Calibration Date(s): 11/13/2024 11/13/2024
 Calibration Time(s): 09:01 12:48

LAB FILE ID:		RRF2.5 = BF140332.D			RRF005 = BF140333.D		RRF010 = BF140334.D	
		RRF020 = BF140335.D			RRF050 = BF140337.D		RRF060 = BF140338.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF050	RRF060	RRF	% RSD
2-Fluorophenol		1.329	1.257	1.223	1.090	1.118	1.171	8.8
Benzaldehyde		1.101	1.087	1.017	0.828	0.783	0.951	14.3
Phenol-d6		1.773	1.691	1.643	1.483	1.507	1.587	8.1
Phenol		1.799	1.793	1.743	1.582	1.597	1.674	7.3
bis(2-Chloroethyl) ether		1.359	1.294	1.306	1.227	1.249	1.268	4.6
2-Chlorophenol		1.397	1.349	1.332	1.176	1.184	1.258	8.5
2-Methylphenol		1.092	1.062	1.072	0.998	1.016	1.035	5.1
2,2-oxybis(1-Chloropropane)		1.906	1.826	1.815	1.666	1.684	1.752	7.0
Acetophenone		0.532	0.508	0.481	0.434	0.441	0.465	9.4
3+4-Methylphenols		1.436	1.427	1.359	1.200	1.198	1.295	10.2
n-Nitroso-di-n-propylamine	1.032	1.029	1.003	0.986	0.883	0.905	0.959	7.3
Nitrobenzene-d5		0.411	0.401	0.399	0.368	0.379	0.384	5.3
Hexachloroethane		0.562	0.543	0.550	0.500	0.506	0.520	6.3
Nitrobenzene		0.423	0.421	0.406	0.390	0.394	0.400	4.6
Isophorone		0.736	0.702	0.692	0.654	0.671	0.680	4.9
2-Nitrophenol		0.175	0.179	0.181	0.175	0.181	0.177	2.0
2,4-Dimethylphenol		0.238	0.236	0.232	0.221	0.227	0.227	3.9
bis(2-Chloroethoxy) methane		0.461	0.442	0.430	0.398	0.404	0.417	6.8
2,4-Dichlorophenol		0.307	0.296	0.287	0.272	0.272	0.281	6.2
Naphthalene		1.160	1.105	1.064	0.950	0.955	1.015	9.6
4-Chloroaniline		0.390	0.386	0.370	0.333	0.340	0.353	8.4
Hexachlorobutadiene		0.220	0.214	0.210	0.188	0.190	0.199	7.7
Caprolactam		0.098	0.093	0.094	0.091	0.095	0.093	3.3
4-Chloro-3-methylphenol		0.331	0.327	0.320	0.299	0.304	0.311	5.1
2-Methylnaphthalene		0.751	0.706	0.683	0.610	0.607	0.651	10.0
Hexachlorocyclopentadiene			0.111	0.143	0.156	0.159	0.142	12.0
2,4,6-Trichlorophenol		0.380	0.374	0.374	0.360	0.352	0.363	3.9
2-Fluorobiphenyl		1.524	1.396	1.351	1.125	1.110	1.244	14.5
2,4,5-Trichlorophenol		0.421	0.417	0.412	0.387	0.390	0.397	5.4
1,1-Biphenyl		1.690	1.571	1.565	1.368	1.343	1.455	10.8
2-Chloronaphthalene		1.279	1.182	1.149	1.064	1.049	1.108	9.2
2-Nitroaniline		0.378	0.365	0.384	0.365	0.366	0.368	2.9
Dimethylphthalate		1.464	1.358	1.371	1.246	1.244	1.304	7.5
Acenaphthylene		1.940	1.802	1.786	1.582	1.552	1.677	10.3

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CORN02
 Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860
 Instrument ID: BNA_F Calibration Date(s): 11/13/2024 11/13/2024
 Calibration Time(s): 09:01 12:48

LAB FILE ID:		RRF2.5 = BF140332.D			RRF005 = BF140333.D		RRF010 = BF140334.D	
		RRF020 = BF140335.D			RRF050 = BF140337.D		RRF060 = BF140338.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF050	RRF060	RRF	% RSD
2,6-Dinitrotoluene		0.317	0.303	0.313	0.291	0.289	0.297	5.6
3-Nitroaniline		0.333	0.327	0.335	0.307	0.298	0.312	6.9
Acenaphthene		1.259	1.204	1.192	1.091	1.079	1.133	7.8
2,4-Dinitrophenol			0.109	0.148	0.178	0.170	0.153	16.3
4-Nitrophenol		0.199	0.217	0.239	0.240	0.237	0.228	6.7
Dibenzofuran		1.904	1.736	1.715	1.502	1.466	1.603	11.9
2,4-Dinitrotoluene		0.414	0.400	0.417	0.387	0.382	0.391	5.8
Diethylphthalate		1.525	1.417	1.398	1.272	1.246	1.333	8.8
4-Chlorophenyl-phenylether		0.739	0.688	0.669	0.583	0.567	0.625	12.0
Fluorene		1.525	1.403	1.365	1.168	1.137	1.267	13.1
4-Nitroaniline		0.335	0.325	0.328	0.316	0.313	0.319	3.9
4,6-Dinitro-2-methylphenol		0.080	0.098	0.113	0.117	0.120	0.108	13.0
n-Nitrosodiphenylamine		0.651	0.630	0.600	0.541	0.541	0.578	8.6
2,4,6-Tribromophenol		0.220	0.211	0.207	0.191	0.189	0.199	6.9
4-Bromophenyl-phenylether		0.227	0.210	0.209	0.191	0.188	0.200	8.1
Hexachlorobenzene		0.251	0.242	0.232	0.209	0.215	0.225	7.5
Atrazine		0.191	0.183	0.135	0.155	0.205	0.175	17.0
Pentachlorophenol		0.097	0.108	0.124	0.131	0.130	0.121	10.9
Phenanthrene		1.096	1.053	0.986	0.868	0.851	0.940	11.3
Anthracene		1.071	1.018	0.966	0.860	0.839	0.921	10.8
Carbazole		1.053	1.009	0.963	0.846	0.834	0.909	11.0
Di-n-butylphthalate		1.214	1.177	1.150	1.036	1.023	1.091	8.4
Fluoranthene		1.256	1.201	1.141	0.962	0.933	1.054	13.9
Pyrene		1.748	1.706	1.643	1.728	1.800	1.711	3.1
Terphenyl-d14		1.226	1.185	1.108	1.139	1.190	1.152	4.3
Butylbenzylphthalate		0.640	0.638	0.654	0.670	0.681	0.657	3.6
3,3-Dichlorobenzidine		0.438	0.431	0.433	0.406	0.416	0.418	3.8
Benzo (a) anthracene		1.451	1.418	1.351	1.229	1.294	1.314	7.3
Chrysene		1.394	1.241	1.235	1.137	1.123	1.199	8.4
Bis (2-ethylhexyl) phthalate		0.886	0.890	0.897	0.858	0.869	0.877	4.1
Di-n-octyl phthalate		1.231	1.217	1.270	1.187	1.241	1.235	2.9
Benzo (b) fluoranthene		1.405	1.352	1.471	1.235	1.233	1.308	7.8
Benzo (k) fluoranthene		1.286	1.241	1.120	0.952	0.935	1.069	14.5
Benzo (a) pyrene		1.100	1.053	1.054	0.970	0.980	1.016	5.4
Indeno (1,2,3-cd) pyrene		1.116	1.150	1.138	1.316	1.354	1.235	8.0

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: CORN02
 Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860
 Instrument ID: BNA_F Calibration Date(s): 11/13/2024 11/13/2024
 Calibration Time(s): 09:01 12:48

LAB FILE ID:								
RRF2.5 = BF140332.D			RRF005 = BF140333.D			RRF010 = BF140334.D		
RRF020 = BF140335.D			RRF050 = BF140337.D			RRF060 = BF140338.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF050	RRF060	RRF	% RSD
Dibenzo (a,h) anthracene		0.941	0.952	0.944	1.074	1.121	1.021	7.3
Benzo (g,h,i) perylene		0.941	0.963	0.954	1.122	1.146	1.044	8.5
1,2,4,5-Tetrachlorobenzene		0.646	0.585	0.583	0.524	0.517	0.553	9.8
1,4-Dioxane		0.582	0.546	0.530	0.495	0.506	0.522	6.5
2,3,4,6-Tetrachlorophenol		0.322	0.328	0.326	0.308	0.302	0.313	4.6

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-BF111324.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Nov 13 14:40:06 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BF140332.D 5 =BF140333.D 10 =BF140334.D 20 =BF140335.D 40 =BF140340.D 50 =BF140337.D 60 =BF140338.D 80 =BF140339.D

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

1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.582	0.546	0.530	0.515	0.495	0.506	0.480	0.522	6.53	
3)	Pyridine	1.430	1.343	1.323	1.316	1.189	1.237	1.147	1.283	7.61	
4)	n-Nitrosodimet...	0.658	0.632	0.651	0.659	0.644	0.671	0.627	0.649	2.39	
5) S	2-Fluorophenol	1.329	1.257	1.223	1.150	1.090	1.118	1.032	1.171	8.84	
6)	Aniline	1.587	1.527	1.495	1.451	1.267	1.270	1.066	1.381	13.42	
7) S	Phenol-d6	1.773	1.691	1.643	1.605	1.483	1.507	1.407	1.587	8.09	
8)	2-Chlorophenol	1.397	1.349	1.332	1.263	1.176	1.184	1.106	1.258	8.49	
9)	Benzaldehyde	1.101	1.087	1.017	0.891	0.828	0.783	0.951	14.32		
10) C	Phenol	1.799	1.793	1.743	1.724	1.582	1.597	1.478	1.674	7.31	
11)	bis(2-Chloroet...	1.359	1.294	1.306	1.263	1.227	1.249	1.179	1.268	4.60	
12)	1,3-Dichlorobe...	1.585	1.475	1.454	1.374	1.291	1.317	1.221	1.388	8.98	
13) C	1,4-Dichlorobe...	1.590	1.534	1.486	1.391	1.306	1.326	1.221	1.408	9.49	
14)	1,2-Dichlorobe...	1.494	1.429	1.398	1.294	1.212	1.214	1.108	1.307	10.63	
15)	Benzyl Alcohol	1.172	1.193	1.199	1.211	1.100	1.108	1.020	1.143	6.10	
16)	2,2'-oxybis(1-...	1.906	1.826	1.815	1.816	1.666	1.684	1.549	1.752	7.01	
17)	2-Methylphenol	1.092	1.062	1.072	1.064	0.998	1.016	0.942	1.035	5.07	
18)	Hexachloroethane	0.562	0.543	0.550	0.514	0.500	0.506	0.468	0.520	6.30	
19) P	n-Nitroso-di-n...	1.032	1.029	1.003	0.986	0.982	0.883	0.905	0.848	0.959	7.30
20)	3+4-Methylphenols	1.436	1.427	1.359	1.351	1.200	1.198	1.091	1.294	10.21	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.532	0.508	0.481	0.450	0.434	0.441	0.411	0.465	9.35	
23) S	Nitrobenzene-d5	0.411	0.401	0.399	0.375	0.368	0.379	0.354	0.384	5.28	
24)	Nitrobenzene	0.423	0.421	0.406	0.393	0.390	0.394	0.371	0.400	4.61	
25)	Isophorone	0.736	0.702	0.692	0.674	0.654	0.671	0.634	0.680	4.87	
26) C	2-Nitrophenol	0.175	0.179	0.181	0.179	0.175	0.181	0.171	0.177	1.99	
27)	2,4-Dimethylph...	0.238	0.236	0.232	0.223	0.221	0.227	0.214	0.227	3.86	
28)	bis(2-Chloroet...	0.461	0.442	0.430	0.407	0.398	0.404	0.379	0.417	6.80	
29) C	2,4-Dichloroph...	0.307	0.296	0.287	0.275	0.272	0.272	0.255	0.281	6.20	
30)	1,2,4-Trichlor...	0.346	0.331	0.325	0.302	0.298	0.301	0.283	0.312	7.15	
31)	Naphthalene	1.160	1.105	1.064	0.982	0.950	0.955	0.886	1.015	9.60	
32)	Benzoic acid	0.162	0.178	0.180	0.212	0.215	0.226	0.226	0.200	13.01	
33)	4-Chloroaniline	0.390	0.386	0.370	0.340	0.333	0.340	0.311	0.353	8.36	
34) C	Hexachlorobuta...	0.220	0.214	0.210	0.193	0.188	0.190	0.178	0.199	7.73	
35)	Caprolactam	0.098	0.093	0.094	0.092	0.091	0.095	0.089	0.093	3.27	
36) C	4-Chloro-3-met...	0.331	0.327	0.320	0.309	0.299	0.304	0.287	0.311	5.14	
37)	2-Methylnaphth...	0.751	0.706	0.683	0.632	0.610	0.607	0.565	0.651	10.01	
38)	1-Methylnaphth...	0.734	0.696	0.673	0.625	0.589	0.592	0.550	0.637	10.39	

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF111324.M

39) I	Acenaphthene-d10	-----ISTD-----								
40)	1,2,4,5-Tetrac...	0.646	0.585	0.583	0.531	0.524	0.517	0.485	0.553	9.85
41) P	Hexachlorocycl...	0.111	0.143	0.139	0.156	0.159	0.145	0.142		12.04
42) S	2,4,6-Tribromo...	0.220	0.211	0.207	0.193	0.191	0.189	0.182	0.199	6.88
43) C	2,4,6-Trichlor...	0.380	0.374	0.374	0.360	0.360	0.352	0.341	0.363	3.87
44)	2,4,5-Trichlor...	0.421	0.417	0.412	0.389	0.387	0.390	0.361	0.397	5.41
45) S	2-Fluorobiphenyl	1.524	1.396	1.351	1.172	1.125	1.110	1.031	1.244	14.50
46)	1,1'-Biphenyl	1.690	1.571	1.565	1.404	1.368	1.343	1.244	1.455	10.80
47)	2-Chloronaphth...	1.279	1.182	1.149	1.065	1.064	1.049	0.971	1.108	9.20
48)	2-Nitroaniline	0.378	0.365	0.384	0.364	0.365	0.366	0.351	0.368	2.91
49)	Acenaphthylene	1.940	1.802	1.786	1.636	1.582	1.552	1.441	1.677	10.29
50)	Dimethylphthalate	1.464	1.358	1.371	1.261	1.246	1.244	1.181	1.304	7.47
51)	2,6-Dinitrotol...	0.317	0.303	0.313	0.297	0.291	0.289	0.268	0.297	5.57
52) C	Acenaphthene	1.259	1.204	1.192	1.096	1.091	1.079	1.006	1.133	7.78
53)	3-Nitroaniline	0.333	0.327	0.335	0.310	0.307	0.298	0.275	0.312	6.92
54) P	2,4-Dinitrophenol	0.109	0.148	0.147	0.178	0.170	0.168	0.153		16.27
55)	Dibenzofuran	1.904	1.736	1.715	1.558	1.502	1.466	1.344	1.603	11.92
56) P	4-Nitrophenol	0.199	0.217	0.239	0.236	0.240	0.237	0.225	0.228	6.67
57)	2,4-Dinitrotol...	0.414	0.400	0.417	0.387	0.387	0.382	0.351	0.391	5.77
58)	Fluorene	1.525	1.403	1.365	1.202	1.168	1.137	1.066	1.267	13.14
59)	2,3,4,6-Tetrac...	0.322	0.328	0.326	0.318	0.308	0.302	0.288	0.313	4.61
60)	Diethylphthalate	1.525	1.417	1.398	1.287	1.272	1.246	1.185	1.333	8.85
61)	4-Chlorophenyl...	0.739	0.688	0.669	0.604	0.583	0.567	0.528	0.625	12.01
62)	4-Nitroaniline	0.335	0.325	0.328	0.319	0.316	0.313	0.297	0.319	3.86
63)	Azobenzene	1.498	1.391	1.380	1.293	1.251	1.244	1.163	1.317	8.55
64) I	Phenanthrene-d10	-----ISTD-----								
65)	4,6-Dinitro-2-...	0.080	0.098	0.113	0.109	0.117	0.120	0.116	0.108	13.00
66) c	n-Nitrosodiphe...	0.651	0.630	0.600	0.559	0.541	0.541	0.522	0.578	8.57
67)	4-Bromophenyl-...	0.227	0.210	0.209	0.194	0.191	0.188	0.180	0.200	8.14
68)	Hexachlorobenzene	0.251	0.242	0.232	0.218	0.209	0.215	0.208	0.225	7.54
69)	Atrazine	0.191	0.183	0.135	0.145	0.155	0.205	0.209	0.175	17.03
70) C	Pentachlorophenol	0.097	0.108	0.124	0.127	0.131	0.130	0.130	0.121	10.87
71)	Phenanthrene	1.096	1.053	0.986	0.903	0.868	0.851	0.820	0.940	11.33
72)	Anthracene	1.071	1.018	0.966	0.889	0.860	0.839	0.803	0.921	10.81
73)	Carbazole	1.053	1.009	0.963	0.876	0.846	0.834	0.783	0.909	11.02
74)	Di-n-butylphth...	1.214	1.177	1.150	1.074	1.036	1.023	0.964	1.091	8.37
75) C	Fluoranthene	1.256	1.201	1.141	1.018	0.962	0.933	0.867	1.054	13.92
76) I	Chrysene-d12	-----ISTD-----								
77)	Benzidine	0.634	0.684	0.653	0.742	0.953	0.939	0.768		18.64
78)	Pyrene	1.748	1.706	1.643	1.679	1.728	1.800	1.672	1.711	3.08
79) S	Terphenyl-d14	1.226	1.185	1.108	1.123	1.139	1.190	1.093	1.152	4.26
80)	Butylbenzylpht...	0.640	0.638	0.654	0.690	0.670	0.681	0.628	0.657	3.56
81)	Benzo(a)anthra...	1.451	1.418	1.351	1.263	1.229	1.294	1.195	1.314	7.31
82)	3,3'-Dichlorob...	0.438	0.431	0.433	0.402	0.406	0.416	0.399	0.418	3.79
83)	Chrysene	1.394	1.241	1.235	1.168	1.137	1.123	1.099	1.199	8.44
84)	Bis(2-ethylhex...	0.886	0.890	0.897	0.927	0.858	0.869	0.813	0.877	4.07
85) c	Di-n-octyl pht...	1.231	1.217	1.270	1.290	1.187	1.241	1.212	1.235	2.86

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

86) I	Perylene-d12	-----ISTD-----									
87)	Indeno(1,2,3-c...	1.116	1.150	1.138	1.258	1.316	1.354	1.317	1.235	8.02	
88)	Benzo(b)fluora...	1.405	1.352	1.471	1.263	1.235	1.233	1.199	1.308	7.82	
89)	Benzo(k)fluora...	1.286	1.241	1.120	1.060	0.952	0.935	0.888	1.069	14.47	
90) C	Benzo(a)pyrene	1.100	1.053	1.054	1.005	0.970	0.980	0.948	1.016	5.40	
91)	Dibenzo(a,h)an...	0.941	0.952	0.944	1.039	1.074	1.121	1.077	1.021	7.30	
92)	Benzo(g,h,i)pe...	0.941	0.963	0.954	1.063	1.122	1.146	1.120	1.044	8.55	

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140332.D
Acq On : 13 Nov 2024 09:01
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Nov 13 14:21:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration

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

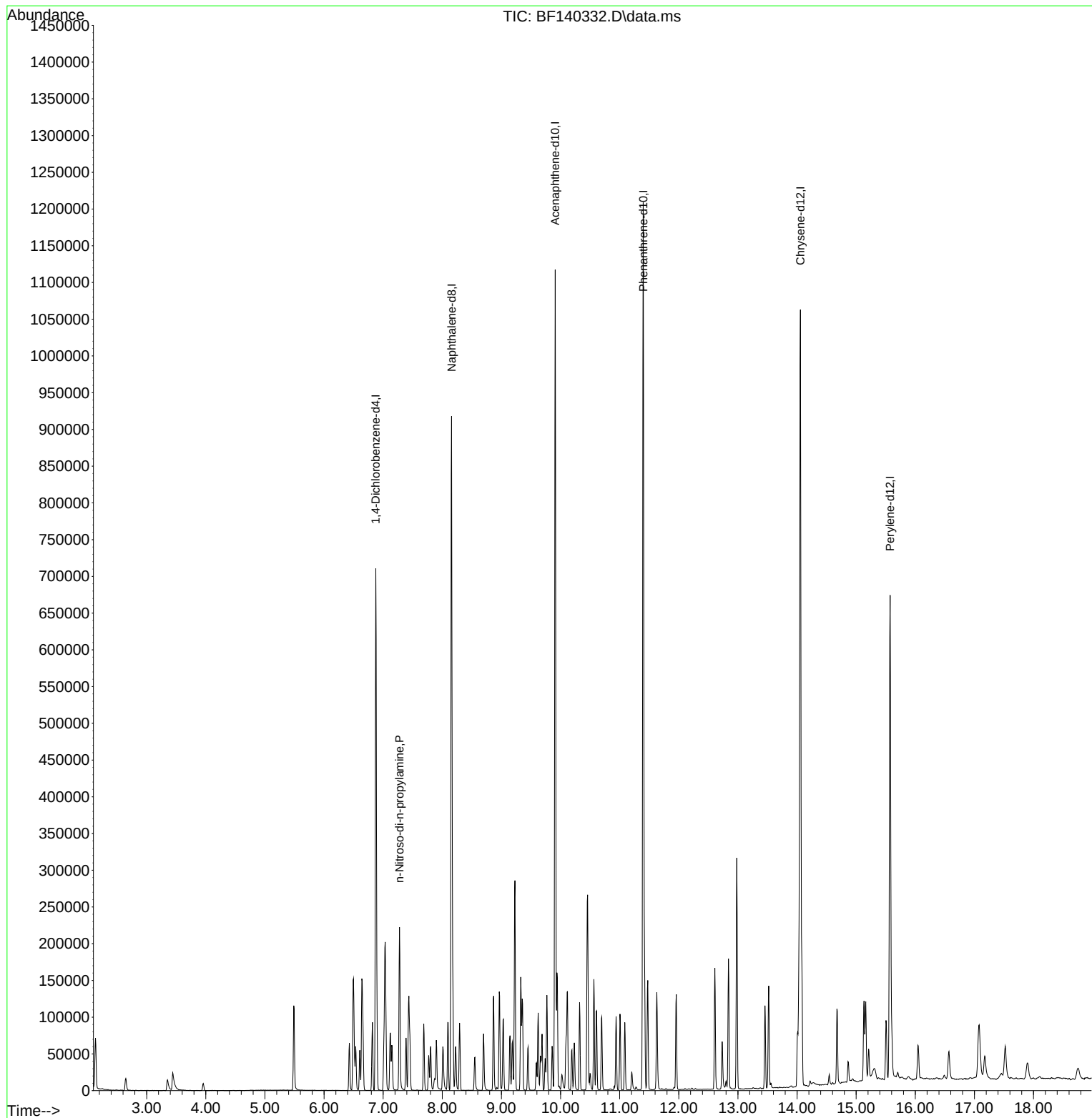
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	147206	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	569357	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	324094	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	631650	20.000	ng	0.00
76) Chrysene-d12	14.057	240	473843	20.000	ng	0.00
86) Perylene-d12	15.574	264	387360	20.000	ng	0.02
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						Qvalue
19) n-Nitroso-di-n-propyla...	7.275	70	18995	2.692	ng	97

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140332.D
Acq On : 13 Nov 2024 09:01
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Nov 13 14:21:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140333.D
 Acq On : 13 Nov 2024 09:27
 Operator : RC/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

Manual Integrations

APPROVED

Reviewed By :Yogesh

Patel

11/14/2024

Supervised By :mohammad

ahmed

11/14/2024

Quant Time: Nov 13 14:22:24 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	147440	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	561082	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	317345	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	615904	20.000	ng	0.00
76) Chrysene-d12	14.051	240	462864	20.000	ng	0.00
86) Perylene-d12	15.563	264	372118	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	98004	11.349	ng	0.00
7) Phenol-d6	6.493	99	130723	11.173	ng	-0.01
23) Nitrobenzene-d5	7.434	82	115292	10.706	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	34890	11.056	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	241751	12.246	ng	0.00
79) Terphenyl-d14	12.980	244	283824	10.644	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.640	88	21442	5.571	ng	95
3) Pyridine	3.422	79	52697	5.569	ng	98
4) n-Nitrosodimethylamine	3.346	42	24263	5.074	ng	# 97
6) Aniline	6.534	93	58498	5.748	ng	98
8) 2-Chlorophenol	6.657	128	51502	5.552	ng	99
9) Benzaldehyde	6.428	77	40600	5.790	ng	100
10) Phenol	6.504	94	66303	5.374	ng	99
11) bis(2-Chloroethyl)ether	6.604	93	50099	5.359	ng	97
12) 1,3-Dichlorobenzene	6.816	146	58435	5.709	ng	99
13) 1,4-Dichlorobenzene	6.893	146	58594	5.646	ng	99
14) 1,2-Dichlorobenzene	7.046	146	55054	5.714	ng	100
15) Benzyl Alcohol	7.010	79	43212	5.126	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.146	45	70257	5.441	ng	100
17) 2-Methylphenol	7.116	107	40243	5.274	ng	97
18) Hexachloroethane	7.387	117	20701	5.396	ng	97
19) n-Nitroso-di-n-propyla...	7.275	70	37919	5.366	ng	97
20) 3+4-Methylphenols	7.275	107	52942	5.548	ng	# 82
22) Acetophenone	7.281	105	74642	5.720	ng	95
24) Nitrobenzene	7.451	77	59394	5.297	ng	99
25) Isophorone	7.687	82	103224	5.409	ng	99
26) 2-Nitrophenol	7.769	139	24576	4.939	ng	99
27) 2,4-Dimethylphenol	7.804	122	33358	5.237	ng	97
28) bis(2-Chloroethoxy)met...	7.898	93	64672	5.526	ng	100
29) 2,4-Dichlorophenol	8.010	162	43077	5.472	ng	98
30) 1,2,4-Trichlorobenzene	8.098	180	48599	5.545	ng	99
31) Naphthalene	8.175	128	162710	5.717	ng	99
32) Benzoic acid	7.869	122	22671m	4.051	ng	
33) 4-Chloroaniline	8.222	127	54728	5.529	ng	99
34) Hexachlorobutadiene	8.293	225	30821	5.519	ng	99
35) Caprolactam	8.551	113	13807	5.217	ng	98
36) 4-Chloro-3-methylphenol	8.698	107	46450	5.324	ng	97
37) 2-Methylnaphthalene	8.869	142	105353	5.773	ng	97
38) 1-Methylnaphthalene	8.963	142	102975	5.762	ng	100
40) 1,2,4,5-Tetrachloroben...	9.034	216	51260	5.841	ng	98
43) 2,4,6-Trichlorophenol	9.145	196	30173	5.239	ng	98
44) 2,4,5-Trichlorophenol	9.181	196	33434	5.310	ng	96

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140333.D
 Acq On : 13 Nov 2024 09:27
 Operator : RC/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Yogesh
 Patel
 11/14/2024

Supervised By :mohammad
 ahmed
 11/14/2024

Quant Time: Nov 13 14:22:24 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	9.328	154	134098	5.808	ng	98
47) 2-Chloronaphthalene	9.351	162	101447	5.768	ng	100
48) 2-Nitroaniline	9.451	65	29995	5.143	ng	100
49) Acenaphthylene	9.769	152	153886	5.783	ng	99
50) Dimethylphthalate	9.622	163	116132	5.614	ng	99
51) 2,6-Dinitrotoluene	9.687	165	25188	5.341	ng	98
52) Acenaphthene	9.939	154	99899	5.559	ng	98
53) 3-Nitroaniline	9.857	138	26407	5.332	ng	94
55) Dibenzofuran	10.116	168	151058	5.937	ng	97
56) 4-Nitrophenol	10.016	139	15801	4.374	ng	98
57) 2,4-Dinitrotoluene	10.092	165	32877	5.297	ng	98
58) Fluorene	10.457	166	121014	6.021	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.234	232	25576	5.149	ng	99
60) Diethylphthalate	10.322	149	120988	5.720	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	58593	5.905	ng	97
62) 4-Nitroaniline	10.463	138	26578	5.249	ng	96
63) Azobenzene	10.610	77	118816	5.685	ng	99
65) 4,6-Dinitro-2-methylph...	10.504	198	12385	3.738	ng	96
66) n-Nitrosodiphenylamine	10.563	169	100287	5.636	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	34999	5.685	ng	96
68) Hexachlorobenzene	11.004	284	38627	5.576	ng	98
69) Atrazine	11.086	200	29460	5.472	ng	97
70) Pentachlorophenol	11.204	266	14987	4.016	ng	97
71) Phenanthrene	11.422	178	168742	5.832	ng	99
72) Anthracene	11.475	178	164923	5.816	ng	98
73) Carbazole	11.628	167	162080	5.789	ng	99
74) Di-n-butylphthalate	11.957	149	186931	5.563	ng	100
75) Fluoranthene	12.610	202	193346	5.956	ng	99
78) Pyrene	12.839	202	202260	5.109	ng	99
80) Butylbenzylphthalate	13.457	149	74075	4.870	ng	96
81) Benzo(a)anthracene	14.039	228	167855	5.518	ng	98
82) 3,3'-Dichlorobenzidine	14.004	252	50636	5.237	ng	98
83) Chrysene	14.074	228	161255	5.810	ng	98
84) Bis(2-ethylhexyl)phtha...	14.027	149	102534	5.051	ng	99
85) Di-n-octyl phthalate	14.663	149	142493	4.984	ng	100
87) Indeno(1,2,3-cd)pyrene	17.057	276	103830	4.517	ng	98
88) Benzo(b)fluoranthene	15.121	252	130731	5.371	ng	99
89) Benzo(k)fluoranthene	15.145	252	119602	6.014	ng	99
90) Benzo(a)pyrene	15.492	252	102364	5.415	ng	99
91) Dibenzo(a,h)anthracene	17.068	278	87528	4.607	ng	99
92) Benzo(g,h,i)perylene	17.504	276	87547	4.507	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140333.D
Acq On : 13 Nov 2024 09:27
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

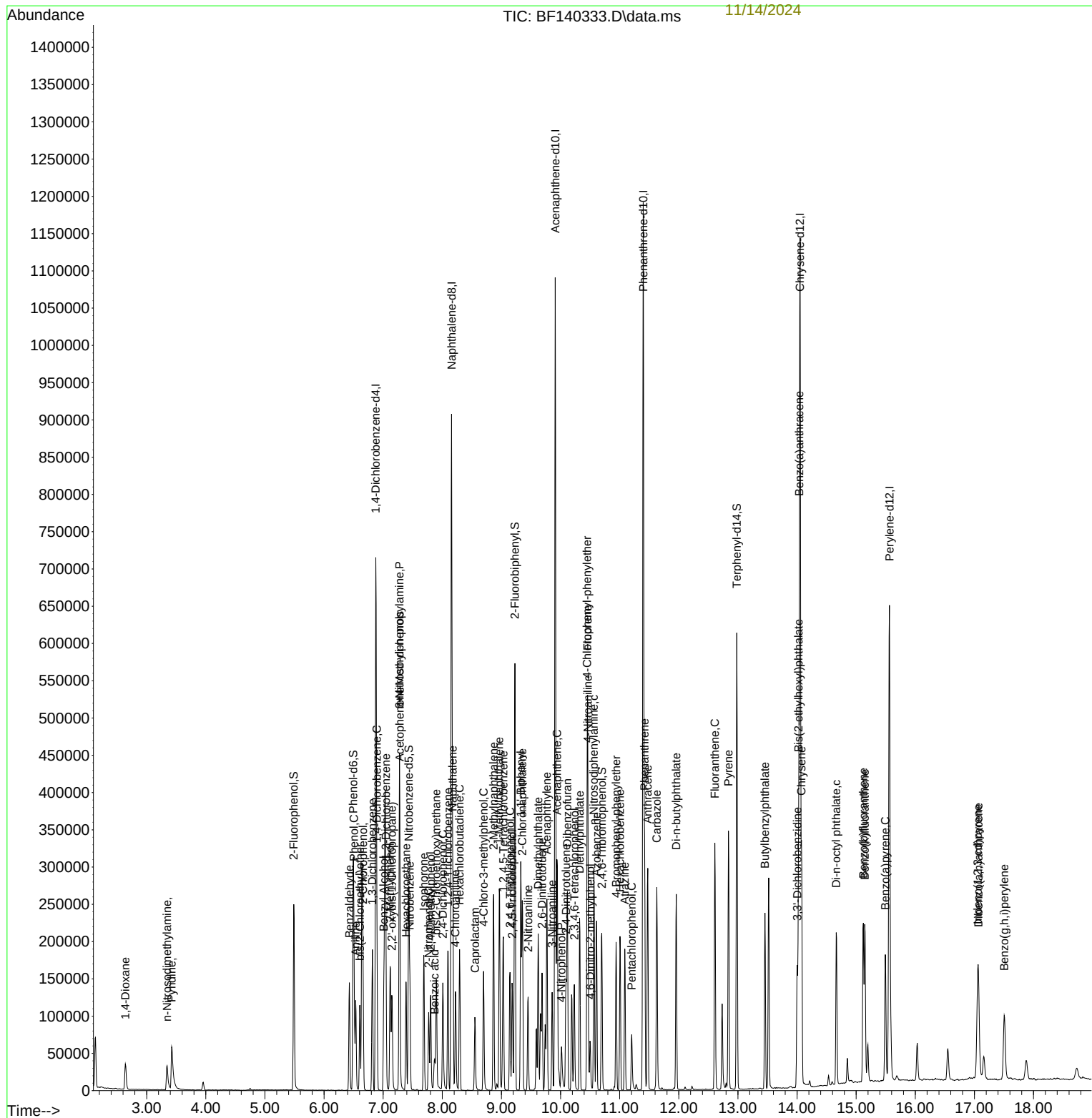
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh
Patel
11/14/2024

Supervised By :mohammad
ahmed
11/14/2024

Quant Time: Nov 13 14:22:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140334.D
 Acq On : 13 Nov 2024 09:53
 Operator : RC/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/14/2024
 Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 14:23:21 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	151757	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	576727	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	332343	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	625922	20.000	ng	0.00
76) Chrysene-d12	14.051	240	456049	20.000	ng	0.00
86) Perylene-d12	15.562	264	358045	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	190834	21.470	ng	0.00
7) Phenol-d6	6.492	99	256677	21.315	ng	-0.01
23) Nitrobenzene-d5	7.434	82	231031	20.872	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	70040	21.193	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	463950	22.441	ng	0.00
79) Terphenyl-d14	12.980	244	540367	20.567	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.640	88	41430	10.458	ng	98
3) Pyridine	3.416	79	101886	10.462	ng	100
4) n-Nitrosodimethylamine	3.346	42	47921	9.736	ng	96
6) Aniline	6.534	93	115851	11.059	ng	99
8) 2-Chlorophenol	6.657	128	102376	10.723	ng	100
9) Benzaldehyde	6.428	77	82498	11.431	ng	99
10) Phenol	6.510	94	136055	10.713	ng	96
11) bis(2-Chloroethyl)ether	6.604	93	98194	10.205	ng	97
12) 1,3-Dichlorobenzene	6.816	146	111939	10.626	ng	99
13) 1,4-Dichlorobenzene	6.892	146	116395	10.897	ng	99
14) 1,2-Dichlorobenzene	7.045	146	108453	10.937	ng	98
15) Benzyl Alcohol	7.010	79	90500	10.431	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	138565	10.425	ng	99
17) 2-Methylphenol	7.122	107	80567	10.258	ng	99
18) Hexachloroethane	7.387	117	41189	10.431	ng	97
19) n-Nitroso-di-n-propyla...	7.275	70	76077	10.460	ng	96
20) 3+4-Methylphenols	7.275	107	108265	11.022	ng	# 89
22) Acetophenone	7.281	105	146536	10.925	ng	97
24) Nitrobenzene	7.451	77	121397	10.534	ng	99
25) Isophorone	7.686	82	202309	10.313	ng	98
26) 2-Nitrophenol	7.769	139	51547	10.079	ng	97
27) 2,4-Dimethylphenol	7.804	122	68066	10.396	ng	100
28) bis(2-Chloroethoxy)met...	7.898	93	127440	10.594	ng	99
29) 2,4-Dichlorophenol	8.010	162	85290	10.540	ng	98
30) 1,2,4-Trichlorobenzene	8.098	180	95485	10.599	ng	99
31) Naphthalene	8.181	128	318527	10.887	ng	99
32) Benzoic acid	7.875	122	51387m	8.934	ng	
33) 4-Chloroaniline	8.222	127	111264	10.936	ng	99
34) Hexachlorobutadiene	8.292	225	61596	10.731	ng	99
35) Caprolactam	8.563	113	26940	9.902	ng	97
36) 4-Chloro-3-methylphenol	8.698	107	94282	10.514	ng	99
37) 2-Methylnaphthalene	8.869	142	203533	10.850	ng	99
38) 1-Methylnaphthalene	8.969	142	200722	10.926	ng	99
40) 1,2,4,5-Tetrachloroben...	9.033	216	97174	10.573	ng	98
41) Hexachlorocyclopentadiene	9.022	237	18405	7.800	ng	98
43) 2,4,6-Trichlorophenol	9.145	196	62134	10.302	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140334.D
 Acq On : 13 Nov 2024 09:53
 Operator : RC/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 14:23:21 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 13 13:11:08 2024

Response via : Initial Calibration

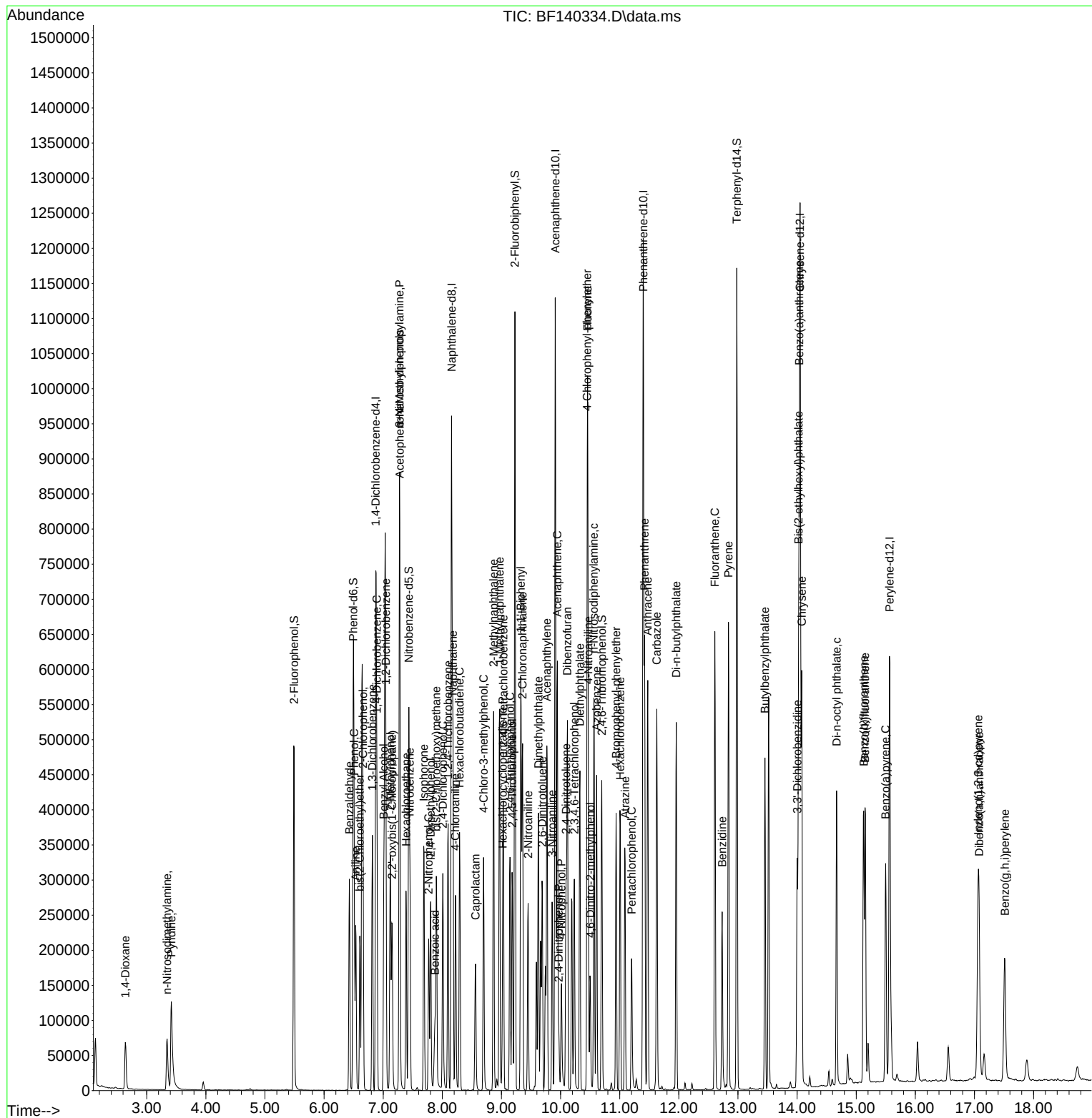
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.181	196	69370	10.520	ng	98
46) 1,1'-Biphenyl	9.328	154	261030	10.796	ng	99
47) 2-Chloronaphthalene	9.357	162	196370	10.662	ng	99
48) 2-Nitroaniline	9.451	65	60634	9.927	ng	99
49) Acenaphthylene	9.769	152	299521	10.749	ng	100
50) Dimethylphthalate	9.628	163	225705	10.419	ng	99
51) 2,6-Dinitrotoluene	9.692	165	50400	10.206	ng	97
52) Acenaphthene	9.945	154	200055	10.629	ng	99
53) 3-Nitroaniline	9.857	138	54319	10.473	ng	99
54) 2,4-Dinitrophenol	9.969	184	18126	7.117	ng	98
55) Dibenzofuran	10.116	168	288411	10.825	ng	98
56) 4-Nitrophenol	10.016	139	36056	9.531	ng	98
57) 2,4-Dinitrotoluene	10.092	165	66496	10.231	ng	98
58) Fluorene	10.457	166	233209	11.080	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.233	232	54566m	10.489	ng	
60) Diethylphthalate	10.328	149	235508	10.632	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	114328	11.002	ng	98
62) 4-Nitroaniline	10.469	138	54026	10.188	ng	98
63) Azobenzene	10.610	77	231165	10.562	ng	99
65) 4,6-Dinitro-2-methylph...	10.504	198	30629	9.095	ng	97
66) n-Nitrosodiphenylamine	10.563	169	197047	10.896	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	65844	10.524	ng	98
68) Hexachlorobenzene	11.010	284	75713	10.755	ng	95
69) Atrazine	11.092	200	57244	10.462	ng	99
70) Pentachlorophenol	11.204	266	33884	8.935	ng	98
71) Phenanthrene	11.422	178	329580	11.209	ng	99
72) Anthracene	11.475	178	318560	11.055	ng	98
73) Carbazole	11.627	167	315859	11.101	ng	99
74) Di-n-butylphthalate	11.957	149	368412	10.788	ng	99
75) Fluoranthene	12.610	202	375846	11.394	ng	99
77) Benzidine	12.733	184	144597	8.261	ng	99
78) Pyrene	12.839	202	388982	9.972	ng	98
80) Butylbenzylphthalate	13.457	149	145394	9.702	ng	98
81) Benzo(a)anthracene	14.039	228	323440	10.791	ng	99
82) 3,3'-Dichlorobenzidine	14.004	252	98211	10.309	ng	99
83) Chrysene	14.080	228	282868	10.343	ng	99
84) Bis(2-ethylhexyl)phtha...	14.027	149	202970	10.147	ng	99
85) Di-n-octyl phthalate	14.668	149	277399	9.847	ng	100
87) Indeno(1,2,3-cd)pyrene	17.062	276	205803	9.305	ng	99
88) Benzo(b)fluoranthene	15.127	252	241957	10.331	ng	99
89) Benzo(k)fluoranthene	15.151	252	222087	11.607	ng	99
90) Benzo(a)pyrene	15.498	252	188533	10.366	ng	98
91) Dibenzo(a,h)anthracene	17.080	278	170496	9.326	ng	100
92) Benzo(g,h,i)perylene	17.515	276	172345	9.221	ng	100

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140335.D
 Acq On : 13 Nov 2024 10:29
 Operator : RC/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC020

Quant Time: Nov 13 14:24:16 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	149945	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	574759	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	321015	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	615627	20.000	ng	0.00
76) Chrysene-d12	14.068	240	437725	20.000	ng	0.02
86) Perylene-d12	15.592	264	335998	20.000	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	366621	41.746	ng	0.00
7) Phenol-d6	6.498	99	492662	41.406	ng	0.00
23) Nitrobenzene-d5	7.434	82	458389	41.554	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	132693	41.567	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	867449	43.439	ng	0.00
79) Terphenyl-d14	12.986	244	969963	38.464	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.634	88	79493	20.309	ng	99
3) Pyridine	3.399	79	198352	20.613	ng	98
4) n-Nitrosodimethylamine	3.340	42	97556	20.059	ng	100
6) Aniline	6.540	93	224200	21.661	ng	96
8) 2-Chlorophenol	6.657	128	199701	21.169	ng	100
9) Benzaldehyde	6.428	77	152483	21.383	ng	99
10) Phenol	6.510	94	261330	20.827	ng	98
11) bis(2-Chloroethyl)ether	6.610	93	195860	20.601	ng	100
12) 1,3-Dichlorobenzene	6.816	146	218012	20.945	ng	99
13) 1,4-Dichlorobenzene	6.892	146	222816	21.112	ng	100
14) 1,2-Dichlorobenzene	7.045	146	209619	21.394	ng	99
15) Benzyl Alcohol	7.010	79	179832	20.978	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.145	45	272081	20.718	ng	99
17) 2-Methylphenol	7.122	107	160794	20.720	ng	99
18) Hexachloroethane	7.387	117	82445	21.130	ng	97
19) n-Nitroso-di-n-propyla...	7.281	70	147880	20.578	ng	99
20) 3+4-Methylphenols	7.275	107	203732	20.992	ng	97
22) Acetophenone	7.281	105	276331	20.672	ng	98
24) Nitrobenzene	7.457	77	233182	20.302	ng	99
25) Isophorone	7.692	82	397520	20.333	ng	100
26) 2-Nitrophenol	7.769	139	104117	20.428	ng	97
27) 2,4-Dimethylphenol	7.804	122	133218	20.416	ng	99
28) bis(2-Chloroethoxy)met...	7.904	93	246864	20.593	ng	100
29) 2,4-Dichlorophenol	8.010	162	165159	20.480	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	187022	20.831	ng	98
31) Naphthalene	8.181	128	611395	20.969	ng	100
32) Benzoic acid	7.898	122	103495	18.055	ng	98
33) 4-Chloroaniline	8.222	127	212489	20.956	ng	99
34) Hexachlorobutadiene	8.292	225	120624	21.087	ng	100
35) Caprolactam	8.575	113	54033	19.929	ng	100
36) 4-Chloro-3-methylphenol	8.698	107	183923	20.581	ng	99
37) 2-Methylnaphthalene	8.869	142	392634	21.001	ng	100
38) 1-Methylnaphthalene	8.969	142	386754	21.125	ng	98
40) 1,2,4,5-Tetrachloroben...	9.034	216	187279	21.097	ng	99
41) Hexachlorocyclopentadiene	9.022	237	45811	20.099	ng	98
43) 2,4,6-Trichlorophenol	9.145	196	120063	20.609	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140335.D
 Acq On : 13 Nov 2024 10:29
 Operator : RC/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC020

Quant Time: Nov 13 14:24:16 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	132413	20.789	ng	98
46) 1,1'-Biphenyl	9.333	154	502252	21.506	ng	99
47) 2-Chloronaphthalene	9.357	162	368985	20.741	ng	99
48) 2-Nitroaniline	9.451	65	123220	20.885	ng	98
49) Acenaphthylene	9.775	152	573335	21.301	ng	99
50) Dimethylphthalate	9.628	163	440050	21.031	ng	100
51) 2,6-Dinitrotoluene	9.692	165	100599	21.089	ng	99
52) Acenaphthene	9.945	154	382783	21.056	ng	100
53) 3-Nitroaniline	9.863	138	107540	21.467	ng	99
54) 2,4-Dinitrophenol	9.969	184	47413	19.274	ng	96
55) Dibenzofuran	10.116	168	550502	21.391	ng	99
56) 4-Nitrophenol	10.016	139	76711	20.993	ng	99
57) 2,4-Dinitrotoluene	10.098	165	133852	21.321	ng	96
58) Fluorene	10.463	166	438095	21.548	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.233	232	104638	20.824	ng	98
60) Diethylphthalate	10.328	149	448855	20.979	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	214868	21.407	ng	100
62) 4-Nitroaniline	10.475	138	105392	20.576	ng	99
63) Azobenzene	10.610	77	443044	20.957	ng	99
65) 4,6-Dinitro-2-methylph...	10.504	198	69851	21.089	ng	99
66) n-Nitrosodiphenylamine	10.569	169	369633	20.780	ng	99
67) 4-Bromophenyl-phenylether	10.945	248	128501	20.881	ng	97
68) Hexachlorobenzene	11.010	284	143099	20.667	ng	98
69) Atrazine	11.092	200	83124	15.446	ng	98
70) Pentachlorophenol	11.204	266	76218	20.435	ng	99
71) Phenanthrene	11.422	178	606738	20.980	ng	100
72) Anthracene	11.475	178	594950	20.991	ng	99
73) Carbazole	11.627	167	592904	21.186	ng	100
74) Di-n-butylphthalate	11.957	149	707973	21.077	ng	100
75) Fluoranthene	12.616	202	702671	21.657	ng	99
77) Benzidine	12.733	184	299422	17.823	ng	100
78) Pyrene	12.845	202	719319	19.212	ng	99
80) Butylbenzylphthalate	13.463	149	286162	19.895	ng	98
81) Benzo(a)anthracene	14.051	228	591480	20.560	ng	99
82) 3,3'-Dichlorobenzidine	14.016	252	189466	20.720	ng	99
83) Chrysene	14.092	228	540430	20.589	ng	99
84) Bis(2-ethylhexyl)phtha...	14.039	149	392830	20.462	ng	99
85) Di-n-octyl phthalate	14.692	149	556097	20.567	ng	99
87) Indeno(1,2,3-cd)pyrene	17.092	276	382218	18.415	ng	99
88) Benzo(b)fluoranthene	15.151	252	494335	22.491	ng	99
89) Benzo(k)fluoranthene	15.180	252	376428	20.964	ng	99
90) Benzo(a)pyrene	15.527	252	354286	20.757	ng	99
91) Dibenzo(a,h)anthracene	17.109	278	317133	18.485	ng	99
92) Benzo(g,h,i)perylene	17.545	276	320648	18.281	ng	99

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Abundance

TIC: BF140335.D\data.ms

Time-->

1,4-Dioxane

n-Nitrosodipropylamine,

2-Fluorophenol,S

3,4-Dichlorobenzonitrile,P

2-Fluorobiphenyl,S

4-Chlorophenylphenylether

Terphenyl-d14,S

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140337.D
 Acq On : 13 Nov 2024 11:21
 Operator : RC/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC050

Quant Time: Nov 13 14:26:04 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	173750	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	645813	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	355715	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	673585	20.000	ng	0.00
76) Chrysene-d12	14.057	240	373903	20.000	ng	0.00
86) Perylene-d12	15.563	264	343764	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	946604	93.020	ng	0.00
7) Phenol-d6	6.510	99	1288691	93.469	ng	0.00
23) Nitrobenzene-d5	7.445	82	1188653	95.898	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	339834	96.071	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	2000974	90.428	ng	0.00
79) Terphenyl-d14	12.992	244	2129859	98.876	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.646	88	215224	47.452	ng	99
3) Pyridine	3.410	79	516550	46.326	ng	99
4) n-Nitrosodimethylamine	3.375	42	279565	49.608	ng	97
6) Aniline	6.545	93	550294	45.882	ng	99
8) 2-Chlorophenol	6.669	128	510922	46.739	ng	98
9) Benzaldehyde	6.434	77	359475	43.503	ng	99
10) Phenol	6.528	94	687077	47.255	ng	95
11) bis(2-Chloroethyl)ether	6.616	93	533018	48.382	ng	98
12) 1,3-Dichlorobenzene	6.822	146	560974	46.511	ng	98
13) 1,4-Dichlorobenzene	6.898	146	567404	46.396	ng	99
14) 1,2-Dichlorobenzene	7.051	146	526417	46.367	ng	99
15) Benzyl Alcohol	7.022	79	477924	48.113	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	723520	47.546	ng	98
17) 2-Methylphenol	7.128	107	433403	48.196	ng	99
18) Hexachloroethane	7.392	117	217240	48.050	ng	99
19) n-Nitroso-di-n-propyla...	7.298	70	383726	46.082	ng	99
20) 3+4-Methylphenols	7.287	107	521407	46.364	ng	92
22) Acetophenone	7.292	105	700174	46.615	ng	98
24) Nitrobenzene	7.463	77	629010	48.740	ng	99
25) Isophorone	7.698	82	1056536	48.095	ng	100
26) 2-Nitrophenol	7.775	139	282885	49.397	ng	96
27) 2,4-Dimethylphenol	7.810	122	356541	48.629	ng	98
28) bis(2-Chloroethoxy)met...	7.910	93	642458	47.695	ng	100
29) 2,4-Dichlorophenol	8.016	162	439530	48.507	ng	98
30) 1,2,4-Trichlorobenzene	8.098	180	481552	47.735	ng	99
31) Naphthalene	8.181	128	1534595	46.842	ng	99
32) Benzoic acid	7.945	122	347409	53.939	ng	98
33) 4-Chloroaniline	8.234	127	538110	47.230	ng	99
34) Hexachlorobutadiene	8.298	225	304280	47.340	ng	98
35) Caprolactam	8.610	113	147323	48.359	ng	99
36) 4-Chloro-3-methylphenol	8.710	107	482944	48.095	ng	99
37) 2-Methylnaphthalene	8.869	142	985640	46.920	ng	100
38) 1-Methylnaphthalene	8.969	142	951332	46.247	ng	100
40) 1,2,4,5-Tetrachloroben...	9.039	216	466149	47.389	ng	99
41) Hexachlorocyclopentadiene	9.022	237	138691	54.914	ng	100
43) 2,4,6-Trichlorophenol	9.145	196	320277	49.613	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140337.D
 Acq On : 13 Nov 2024 11:21
 Operator : RC/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC050

Quant Time: Nov 13 14:26:04 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

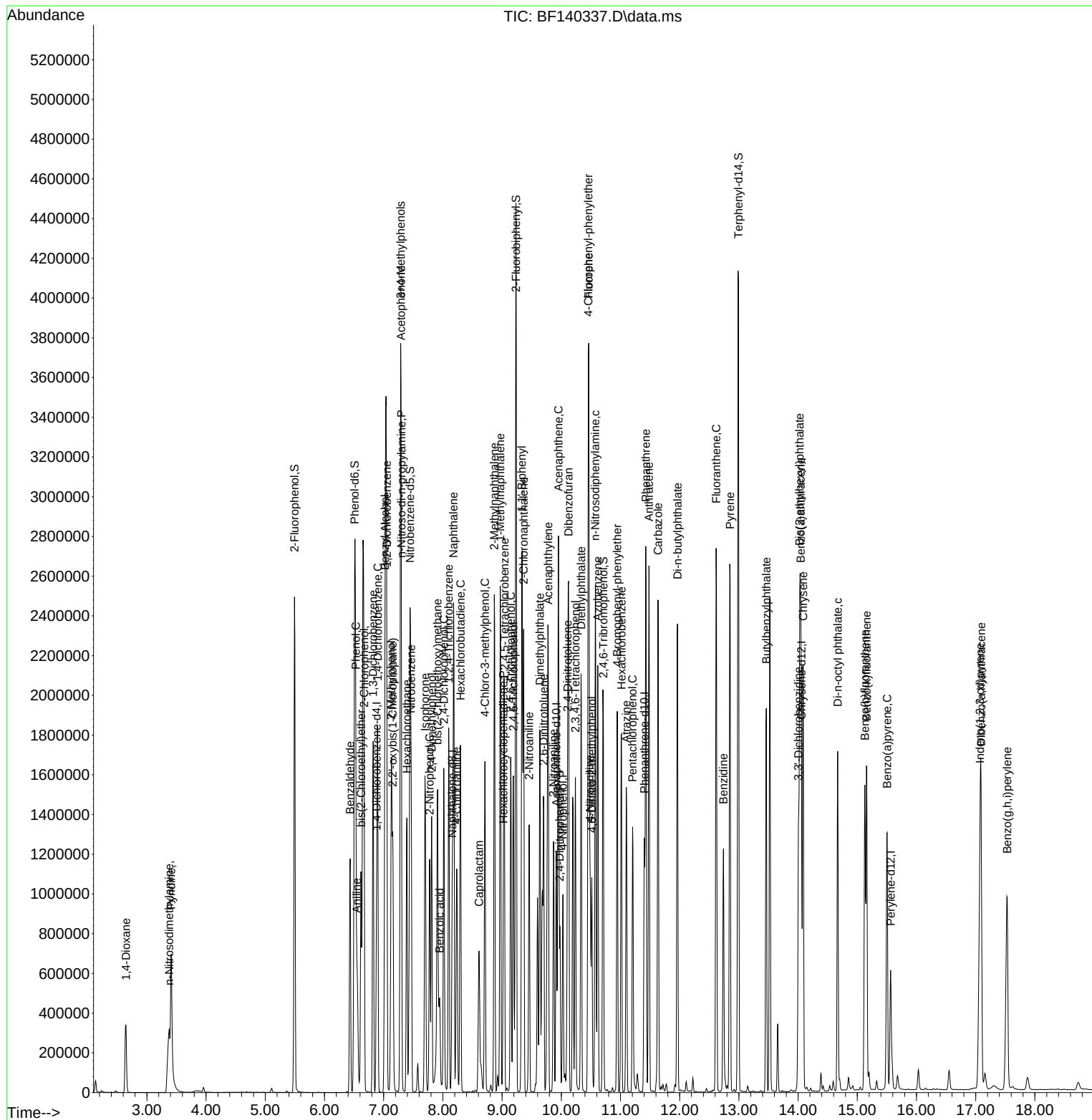
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	344237	48.773	ng	98
46) 1,1'-Biphenyl	9.334	154	1216913	47.025	ng	99
47) 2-Chloronaphthalene	9.363	162	945855	47.981	ng	99
48) 2-Nitroaniline	9.457	65	324847	49.689	ng	98
49) Acenaphthylene	9.781	152	1406468	47.156	ng	100
50) Dimethylphthalate	9.639	163	1108191	47.796	ng	100
51) 2,6-Dinitrotoluene	9.704	165	258909	48.982	ng	99
52) Acenaphthene	9.951	154	970618	48.182	ng	99
53) 3-Nitroaniline	9.869	138	272892	49.160	ng	98
54) 2,4-Dinitrophenol	9.975	184	158026	57.974	ng	97
55) Dibenzofuran	10.122	168	1335552	46.833	ng	100
56) 4-Nitrophenol	10.028	139	213518	52.733	ng	99
57) 2,4-Dinitrotoluene	10.104	165	343847	49.427	ng	97
58) Fluorene	10.463	166	1038836	46.112	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	274144	49.236	ng	99
60) Diethylphthalate	10.333	149	1130922	47.701	ng	99
61) 4-Chlorophenyl-phenyle...	10.457	204	518480	46.617	ng	98
62) 4-Nitroaniline	10.486	138	280913	49.492	ng	99
63) Azobenzene	10.616	77	1112412	47.487	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	197492	54.495	ng	99
66) n-Nitrosodiphenylamine	10.575	169	910897	46.803	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	321760	47.787	ng	99
68) Hexachlorobenzene	11.016	284	351412	46.386	ng	98
69) Atrazine	11.098	200	261515	44.413	ng	99
70) Pentachlorophenol	11.204	266	220904	54.132	ng	99
71) Phenanthrene	11.428	178	1461484	46.188	ng	100
72) Anthracene	11.480	178	1447653	46.682	ng	100
73) Carbazole	11.633	167	1425182	46.543	ng	100
74) Di-n-butylphthalate	11.963	149	1745220	47.487	ng	100
75) Fluoranthene	12.616	202	1620115	45.637	ng	99
77) Benzidine	12.739	184	693785	48.345	ng	99
78) Pyrene	12.851	202	1615345	50.507	ng	99
80) Butylbenzylphthalate	13.463	149	626234	50.971	ng	97
81) Benzo(a)anthracene	14.045	228	1148657	46.743	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	379732	48.617	ng	99
83) Chrysene	14.086	228	1062734	47.398	ng	100
84) Bis(2-ethylhexyl)phtha...	14.027	149	801820	48.894	ng	100
85) Di-n-octyl phthalate	14.668	149	1109314	48.030	ng	99
87) Indeno(1,2,3-cd)pyrene	17.074	276	1130711	53.247	ng	100
88) Benzo(b)fluoranthene	15.127	252	1061367	47.198	ng	100
89) Benzo(k)fluoranthene	15.157	252	818554	44.558	ng	99
90) Benzo(a)pyrene	15.504	252	833765	47.745	ng	99
91) Dibenzo(a,h)anthracene	17.092	278	923159	52.593	ng	99
92) Benzo(g,h,i)perylene	17.533	276	963891	53.714	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140337.D
Acq On : 13 Nov 2024 11:21
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Nov 13 14:26:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140338.D
 Acq On : 13 Nov 2024 11:47
 Operator : RC/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC060

Quant Time: Nov 13 14:26:57 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	169226	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	626974	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	349852	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	653888	20.000	ng	0.00
76) Chrysene-d12	14.057	240	336717	20.000	ng	0.00
86) Perylene-d12	15.568	264	334279	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1135551	114.570	ng	0.00
7) Phenol-d6	6.516	99	1529819	113.924	ng	0.01
23) Nitrobenzene-d5	7.445	82	1426102	118.512	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	397743	114.327	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	2330064	107.065	ng	0.00
79) Terphenyl-d14	12.992	244	2404917	123.975	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.646	88	257092	58.199	ng	99
3) Pyridine	3.416	79	627905	57.818	ng	100
4) n-Nitrosodimethylamine	3.387	42	340452	62.027	ng	97
6) Aniline	6.545	93	644899	55.207	ng	# 84
8) 2-Chlorophenol	6.669	128	601333	56.481	ng	99
9) Benzaldehyde	6.434	77	397310	49.367	ng	99
10) Phenol	6.528	94	810917	57.263	ng	94
11) bis(2-Chloroethyl)ether	6.622	93	633964	59.083	ng	98
12) 1,3-Dichlorobenzene	6.822	146	668862	56.939	ng	99
13) 1,4-Dichlorobenzene	6.898	146	673261	56.523	ng	99
14) 1,2-Dichlorobenzene	7.051	146	616097	55.716	ng	98
15) Benzyl Alcohol	7.022	79	562583	58.150	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	855004	57.688	ng	93
17) 2-Methylphenol	7.134	107	515819	58.895	ng	98
18) Hexachloroethane	7.392	117	256957	58.354	ng	98
19) n-Nitroso-di-n-propyla...	7.298	70	459430	56.648	ng	99
20) 3+4-Methylphenols	7.286	107	608092	55.518	ng	99
22) Acetophenone	7.292	105	829586	56.891	ng	# 98
24) Nitrobenzene	7.469	77	740612	59.113	ng	99
25) Isophorone	7.704	82	1261423	59.147	ng	100
26) 2-Nitrophenol	7.781	139	339960	61.146	ng	99
27) 2,4-Dimethylphenol	7.810	122	426510	59.920	ng	98
28) bis(2-Chloroethoxy)met...	7.910	93	760029	58.119	ng	99
29) 2,4-Dichlorophenol	8.022	162	511715	58.170	ng	99
30) 1,2,4-Trichlorobenzene	8.104	180	566322	57.824	ng	100
31) Naphthalene	8.186	128	1796725	56.491	ng	99
32) Benzoic acid	7.957	122	425502	68.049	ng	97
33) 4-Chloroaniline	8.239	127	639243	57.793	ng	100
34) Hexachlorobutadiene	8.298	225	358172	57.398	ng	100
35) Caprolactam	8.622	113	178777	60.447	ng	95
36) 4-Chloro-3-methylphenol	8.716	107	571401	58.614	ng	100
37) 2-Methylnaphthalene	8.875	142	1141963	55.995	ng	100
38) 1-Methylnaphthalene	8.975	142	1113216	55.742	ng	100
40) 1,2,4,5-Tetrachloroben...	9.039	216	542595	56.085	ng	100
41) Hexachlorocyclopentadiene	9.022	237	166455	67.012	ng	99
43) 2,4,6-Trichlorophenol	9.151	196	369027	58.123	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140338.D
 Acq On : 13 Nov 2024 11:47
 Operator : RC/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC060

Quant Time: Nov 13 14:26:57 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	408838	58.897	ng	99
46) 1,1'-Biphenyl	9.339	154	1409617	55.384	ng	100
47) 2-Chloronaphthalene	9.363	162	1100798	56.777	ng	99
48) 2-Nitroaniline	9.457	65	384307	59.769	ng	96
49) Acenaphthylene	9.780	152	1628948	55.531	ng	99
50) Dimethylphthalate	9.639	163	1305952	57.269	ng	100
51) 2,6-Dinitrotoluene	9.704	165	303778	58.434	ng	99
52) Acenaphthene	9.951	154	1132725	57.171	ng	100
53) 3-Nitroaniline	9.875	138	313217	57.370	ng	100
54) 2,4-Dinitrophenol	9.980	184	178562	66.606	ng	99
55) Dibenzofuran	10.122	168	1538256	54.845	ng	99
56) 4-Nitrophenol	10.033	139	249200	62.577	ng	99
57) 2,4-Dinitrotoluene	10.110	165	401261	58.647	ng	96
58) Fluorene	10.469	166	1193733	53.876	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	317173	57.919	ng	99
60) Diethylphthalate	10.339	149	1308229	56.104	ng	99
61) 4-Chlorophenyl-phenyle...	10.457	204	594806	54.376	ng	99
62) 4-Nitroaniline	10.492	138	328847	58.909	ng	100
63) Azobenzene	10.616	77	1305799	56.677	ng	98
65) 4,6-Dinitro-2-methylph...	10.522	198	234662	66.702	ng	97
66) n-Nitrosodiphenylamine	10.580	169	1061092	56.163	ng	99
67) 4-Bromophenyl-phenylether	10.945	248	369051	56.461	ng	97
68) Hexachlorobenzene	11.016	284	422038	57.387	ng	98
69) Atrazine	11.104	200	402831	70.474	ng	99
70) Pentachlorophenol	11.210	266	255229	64.427	ng	99
71) Phenanthrene	11.427	178	1669857	54.363	ng	99
72) Anthracene	11.480	178	1644863	54.639	ng	99
73) Carbazole	11.633	167	1635888	55.034	ng	99
74) Di-n-butylphthalate	11.963	149	2005925	56.225	ng	100
75) Fluoranthene	12.621	202	1830547	53.118	ng	99
77) Benzidine	12.739	184	963069	74.521	ng	99
78) Pyrene	12.851	202	1817826	63.115	ng	99
80) Butylbenzylphthalate	13.463	149	687900	62.173	ng	98
81) Benzo(a)anthracene	14.045	228	1306865	59.054	ng	99
82) 3,3'-Dichlorobenzidine	14.010	252	419937	59.701	ng	100
83) Chrysene	14.086	228	1134734	56.198	ng	99
84) Bis(2-ethylhexyl)phtha...	14.027	149	877334	59.407	ng	99
85) Di-n-octyl phthalate	14.674	149	1253939	60.287	ng	99
87) Indeno(1,2,3-cd)pyrene	17.080	276	1357877	65.759	ng	100
88) Benzo(b)fluoranthene	15.133	252	1236880	56.564	ng	100
89) Benzo(k)fluoranthene	15.162	252	937366	52.473	ng	98
90) Benzo(a)pyrene	15.509	252	982982	57.887	ng	100
91) Dibenzo(a,h)anthracene	17.098	278	1124071	65.856	ng	99
92) Benzo(g,h,i)perylene	17.539	276	1149411	65.870	ng	98

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

[illegible]

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140339.D
 Acq On : 13 Nov 2024 12:13
 Operator : RC/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 14:36:37 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 13 13:11:08 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	160348	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	586224	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	324351	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	591968	20.000	ng	0.00
76) Chrysene-d12	14.057	240	305715	20.000	ng	0.00
86) Perylene-d12	15.562	264	310894	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1324090	140.989	ng	0.00
7) Phenol-d6	6.522	99	1804257	141.801	ng	0.02
23) Nitrobenzene-d5	7.451	82	1661144	147.640	ng	0.01
42) 2,4,6-Tribromophenol	10.710	330	471699	146.244	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	2675376	132.597	ng	0.00
79) Terphenyl-d14	12.992	244	2674139	151.833	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.651	88	307882	73.555	ng	100
3) Pyridine	3.422	79	735683	71.493	ng	99
4) n-Nitrosodimethylamine	3.398	42	402441	77.381	ng	99
6) Aniline	6.551	93	684015	61.797	ng	# 84
8) 2-Chlorophenol	6.675	128	709152	70.295	ng	99
10) Phenol	6.534	94	947993	70.649	ng	92
11) bis(2-Chloroethyl)ether	6.622	93	756191	74.376	ng	99
12) 1,3-Dichlorobenzene	6.822	146	783204	70.364	ng	98
13) 1,4-Dichlorobenzene	6.898	146	783319	69.404	ng	99
14) 1,2-Dichlorobenzene	7.057	146	710399	67.802	ng	99
15) Benzyl Alcohol	7.028	79	654439	71.389	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	993408	70.738	ng	96
17) 2-Methylphenol	7.133	107	604396	72.829	ng	98
18) Hexachloroethane	7.392	117	300328	71.979	ng	98
19) n-Nitroso-di-n-propyla...	7.304	70	543998	70.790	ng	100
20) 3+4-Methylphenols	7.292	107	699451	67.394	ng	96
22) Acetophenone	7.298	105	963095	70.637	ng	99
24) Nitrobenzene	7.469	77	870976	74.350	ng	99
25) Isophorone	7.704	82	1487295	74.586	ng	100
26) 2-Nitrophenol	7.781	139	401982	77.328	ng	99
27) 2,4-Dimethylphenol	7.816	122	500708	75.234	ng	99
28) bis(2-Chloroethoxy)met...	7.910	93	887655	72.597	ng	100
29) 2,4-Dichlorophenol	8.022	162	597530	72.647	ng	99
30) 1,2,4-Trichlorobenzene	8.104	180	663478	72.454	ng	99
31) Naphthalene	8.186	128	2076967	69.842	ng	99
32) Benzoic acid	7.969	122	529009	90.483	ng	96
33) 4-Chloroaniline	8.245	127	729859	70.572	ng	99
34) Hexachlorobutadiene	8.298	225	417242	71.513	ng	100
35) Caprolactam	8.627	113	208353m	75.344	ng	
36) 4-Chloro-3-methylphenol	8.716	107	672162	73.742	ng	100
37) 2-Methylnaphthalene	8.875	142	1323889	69.428	ng	100
38) 1-Methylnaphthalene	8.975	142	1289276	69.046	ng	99
40) 1,2,4,5-Tetrachloroben...	9.039	216	629856	70.223	ng	100
41) Hexachlorocyclopentadiene	9.022	237	187869	81.579	ng	99
43) 2,4,6-Trichlorophenol	9.151	196	442116	75.110	ng	99
44) 2,4,5-Trichlorophenol	9.198	196	468390	72.781	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140339.D
 Acq On : 13 Nov 2024 12:13
 Operator : RC/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC080

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/14/2024
 Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 14:36:37 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	9.339	154	1613420	68.375	ng	99
47) 2-Chloronaphthalene	9.363	162	1259442	70.067	ng	98
48) 2-Nitroaniline	9.463	65	454975	76.323	ng	98
49) Acenaphthylene	9.780	152	1869941	68.758	ng	99
50) Dimethylphthalate	9.645	163	1532197	72.473	ng	100
51) 2,6-Dinitrotoluene	9.704	165	348019	72.207	ng	93
52) Acenaphthene	9.951	154	1305360	71.065	ng	99
53) 3-Nitroaniline	9.874	138	356185	70.369	ng	98
54) 2,4-Dinitrophenol	9.980	184	217511	87.514	ng	98
55) Dibenzofuran	10.127	168	1743431	67.047	ng	100
56) 4-Nitrophenol	10.033	139	291787	79.032	ng	96
57) 2,4-Dinitrotoluene	10.110	165	454770	71.693	ng	94
58) Fluorene	10.469	166	1382804	67.316	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.245	232	374293	73.723	ng	100
60) Diethylphthalate	10.339	149	1537607	71.126	ng	99
61) 4-Chlorophenyl-phenyle...	10.457	204	685111	67.555	ng	99
62) 4-Nitroaniline	10.498	138	385246	74.437	ng	100
63) Azobenzene	10.621	77	1508804	70.637	ng	99
65) 4,6-Dinitro-2-methylph...	10.522	198	274337	86.136	ng	99
66) n-Nitrosodiphenylamine	10.580	169	1237130	72.330	ng	100
67) 4-Bromophenyl-phenylether	10.951	248	426112	72.010	ng	99
68) Hexachlorobenzene	11.016	284	491825	73.871	ng	99
69) Atrazine	11.110	200	495230	95.702	ng	99
70) Pentachlorophenol	11.210	266	308099	85.908	ng	99
71) Phenanthrene	11.433	178	1941678	69.825	ng	99
72) Anthracene	11.486	178	1901483	69.770	ng	100
73) Carbazole	11.639	167	1853513	68.878	ng	99
74) Di-n-butylphthalate	11.963	149	2283744	70.708	ng	100
75) Fluoranthene	12.621	202	2053832	65.832	ng	99
77) Benzidine	12.739	184	1147944	97.835	ng	99
78) Pyrene	12.851	202	2044224	78.173	ng	99
80) Butylbenzylphthalate	13.462	149	768354	76.487	ng	98
81) Benzo(a)anthracene	14.045	228	1461193	72.724	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	488462	76.486	ng	99
83) Chrysene	14.086	228	1343316	73.275	ng	99
84) Bis(2-ethylhexyl)phtha...	14.027	149	994724	74.186	ng	99
85) Di-n-octyl phthalate	14.668	149	1481946	78.474	ng	99
87) Indeno(1,2,3-cd)pyrene	17.074	276	1638318	85.308	ng	99
88) Benzo(b)fluoranthene	15.127	252	1490709	73.300	ng	100
89) Benzo(k)fluoranthene	15.156	252	1103915	66.445	ng	98
90) Benzo(a)pyrene	15.504	252	1179142	74.662	ng	99
91) Dibenzo(a,h)anthracene	17.098	278	1339293	84.367	ng	99
92) Benzo(g,h,i)perylene	17.539	276	1392525	85.805	ng	99

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

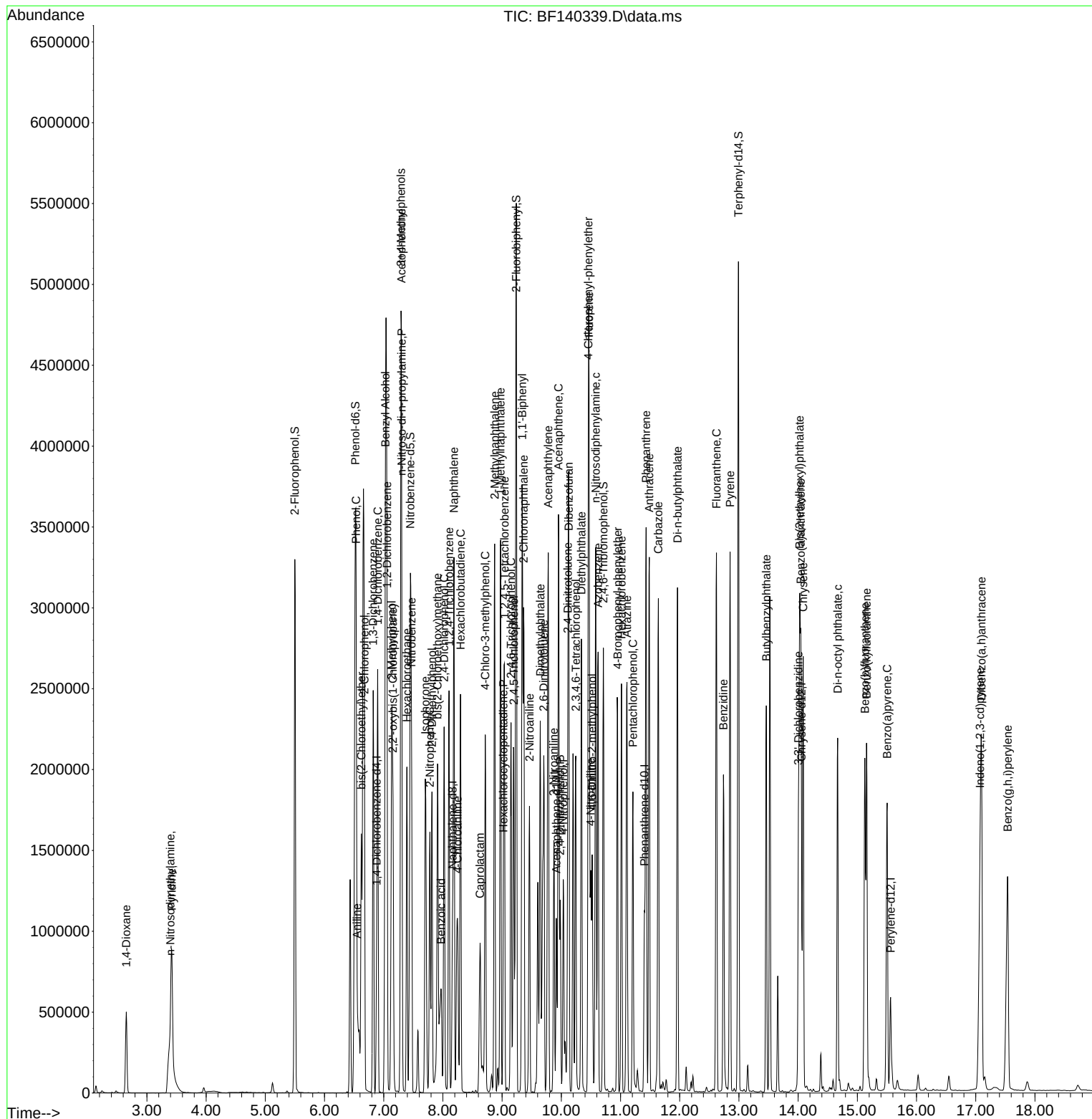
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140339.D
Acq On : 13 Nov 2024 12:13
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 14:36:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 13:11:08 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140340.D
 Acq On : 13 Nov 2024 12:48
 Operator : RC/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICCC040

Quant Time: Nov 13 14:28:55 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	147186	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	589077	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	334544	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	628587	20.000	ng	0.00
76) Chrysene-d12	14.063	240	385940	20.000	ng	0.01
86) Perylene-d12	15.580	264	322417	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	677089	78.544	ng	0.00
7) Phenol-d6	6.504	99	945074	80.918	ng	0.00
23) Nitrobenzene-d5	7.440	82	884247	78.210	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	257655	77.449	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	1568502	75.369	ng	0.00
79) Terphenyl-d14	12.986	244	1733989	77.987	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.634	88	151541	39.442	ng	99
3) Pyridine	3.399	79	387454	41.019	ng	99
4) n-Nitrosodimethylamine	3.352	42	193917	40.620	ng	97
6) Aniline	6.540	93	427252	42.052	ng	100
8) 2-Chlorophenol	6.663	128	371904	40.162	ng	100
9) Benzaldehyde	6.428	77	262348	37.479	ng	99
10) Phenol	6.516	94	507443	41.199	ng	99
11) bis(2-Chloroethyl)ether	6.616	93	371673	39.825	ng	99
12) 1,3-Dichlorobenzene	6.816	146	404387	39.579	ng	99
13) 1,4-Dichlorobenzene	6.893	146	409423	39.520	ng	99
14) 1,2-Dichlorobenzene	7.051	146	380948	39.610	ng	100
15) Benzyl Alcohol	7.016	79	356418	42.357	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	534596	41.471	ng	99
17) 2-Methylphenol	7.128	107	313127	41.105	ng	99
18) Hexachloroethane	7.387	117	151355	39.519	ng	98
19) n-Nitroso-di-n-propyla...	7.287	70	288974	40.966	ng	98
20) 3+4-Methylphenols	7.281	107	397692	41.745	ng	96
22) Acetophenone	7.287	105	529699	38.662	ng	98
24) Nitrobenzene	7.457	77	462701	39.307	ng	99
25) Isophorone	7.698	82	793806	39.616	ng	99
26) 2-Nitrophenol	7.775	139	210859	40.366	ng	99
27) 2,4-Dimethylphenol	7.804	122	262308	39.222	ng	97
28) bis(2-Chloroethoxy)met...	7.904	93	479505	39.027	ng	100
29) 2,4-Dichlorophenol	8.016	162	323936	39.193	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	355366	38.619	ng	100
31) Naphthalene	8.181	128	1157149	38.723	ng	100
32) Benzoic acid	7.928	122	249383	42.449	ng	96
33) 4-Chloroaniline	8.228	127	400271	38.516	ng	100
34) Hexachlorobutadiene	8.292	225	227805	38.855	ng	99
35) Caprolactam	8.598	113	108216	38.943	ng	96
36) 4-Chloro-3-methylphenol	8.704	107	364230	39.766	ng	99
37) 2-Methylnaphthalene	8.869	142	744201	38.839	ng	99
38) 1-Methylnaphthalene	8.969	142	736798	39.267	ng	99
40) 1,2,4,5-Tetrachloroben...	9.034	216	354978	38.371	ng	99
41) Hexachlorocyclopentadiene	9.022	237	93127	39.207	ng	99
43) 2,4,6-Trichlorophenol	9.145	196	240824	39.666	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140340.D
 Acq On : 13 Nov 2024 12:48
 Operator : RC/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICCC040

Quant Time: Nov 13 14:28:55 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 13:11:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.187	196	260135	39.190	ng	99
46) 1,1'-Biphenyl	9.334	154	939571	38.605	ng	99
47) 2-Chloronaphthalene	9.357	162	712904	38.453	ng	99
48) 2-Nitroaniline	9.457	65	243614	39.621	ng	99
49) Acenaphthylene	9.775	152	1094318	39.012	ng	100
50) Dimethylphthalate	9.634	163	843750	38.694	ng	100
51) 2,6-Dinitrotoluene	9.698	165	198967	40.024	ng	99
52) Acenaphthene	9.951	154	733408	38.711	ng	100
53) 3-Nitroaniline	9.869	138	207550	39.755	ng	100
54) 2,4-Dinitrophenol	9.975	184	98545	38.441	ng	98
55) Dibenzofuran	10.122	168	1042453	38.868	ng	100
56) 4-Nitrophenol	10.022	139	157938	41.475	ng	98
57) 2,4-Dinitrotoluene	10.104	165	258886	39.569	ng	98
58) Fluorene	10.463	166	804084	37.951	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	212533	40.586	ng	99
60) Diethylphthalate	10.334	149	861287	38.627	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	403914	38.614	ng	99
62) 4-Nitroaniline	10.481	138	213640	40.022	ng	100
63) Azobenzene	10.616	77	865008	39.263	ng	99
65) 4,6-Dinitro-2-methylph...	10.510	198	136662	40.409	ng	98
66) n-Nitrosodiphenylamine	10.575	169	703286	38.723	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	243728	38.789	ng	100
68) Hexachlorobenzene	11.010	284	273839	38.734	ng	98
69) Atrazine	11.098	200	181993	33.121	ng	99
70) Pentachlorophenol	11.204	266	160120	42.046	ng	98
71) Phenanthrene	11.428	178	1135052	38.440	ng	100
72) Anthracene	11.481	178	1117453	38.613	ng	100
73) Carbazole	11.633	167	1101588	38.551	ng	100
74) Di-n-butylphthalate	11.957	149	1350065	39.365	ng	100
75) Fluoranthene	12.616	202	1279456	38.621	ng	100
77) Benzidine	12.739	184	504166	34.036	ng	99
78) Pyrene	12.845	202	1295809	39.252	ng	100
80) Butylbenzylphthalate	13.463	149	532219	41.968	ng	97
81) Benzo(a)anthracene	14.051	228	975194	38.447	ng	99
82) 3,3'-Dichlorobenzidine	14.010	252	310326	38.491	ng	99
83) Chrysene	14.086	228	901424	38.950	ng	100
84) Bis(2-ethylhexyl)phtha...	14.033	149	715490	42.269	ng	100
85) Di-n-octyl phthalate	14.680	149	995484	41.757	ng	100
87) Indeno(1,2,3-cd)pyrene	17.086	276	811059	40.723	ng	100
88) Benzo(b)fluoranthene	15.139	252	814405	38.614	ng	100
89) Benzo(k)fluoranthene	15.174	252	683609	39.676	ng	99
90) Benzo(a)pyrene	15.516	252	648346	39.585	ng	99
91) Dibenzo(a,h)anthracene	17.104	278	670243	40.712	ng	99
92) Benzo(g,h,i)perylene	17.545	276	685184	40.711	ng	100

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

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

TIC: BF140340.D\data.ms

Abundance

Time-->

1,4-Dioxane

n-Nitrosodiphenylamine

2-Fluorophenol, S

3-Amino-4-phenylphenylamine, P

2-Fluorobiphenyl, S

2-Fluorophenol, S

Phenol, C

Phenol, d6, S

2-Chlorophenol

2,4-Dichlorophenol

1,3-Dichlorobenzene

2,2'-oxybis(1-chloroethane)

Nitrobenzene, d5, S

Hexachlorocyclopentadiene

Isophthalic acid

2-Nitrophenol

2,4-Dichlorobenzene

2,4-Dichlorophenol

Naphthalene

Caprolactam

4-Chloro-3-methylphenol, C

Hexachlorocyclopentadiene

2,4,6-Trichlorophenol

2-Nitroaniline

2,6-Dinitrophenol

2,4-Dinitrophenol

3-Nitrophenol

2,3,4,6-Tetrachlorophenol

Diethylphthalate

4,6-Dinitro-2-methylphenol

4-Nitrophenol

4-Aminophenol

4-Nitrosodiphenylamine, C

2,4,6-Trichlorophenol

Anthracene

Carbazole

Di-n-butylphthalate

Fluoranthene, C

Pyrene

Terphenyl, d14, S

3,3'-Dichlorobiphenyl

Chrysene

Benzo(a)anthracene

Di-n-octyl phthalate, C

Benzo(b)fluoranthene

Benzo(e)pyrene, C

Perylene

Indeno(1,2,3-cd)pyrene

Benzo(g,h,i)perylene

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140341.D
 Acq On : 13 Nov 2024 13:19
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF111324

Quant Time: Nov 13 14:41:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	149980	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	587913	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	333123	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	631059	20.000	ng	0.00
76) Chrysene-d12	14.063	240	366437	20.000	ng	0.01
86) Perylene-d12	15.574	264	319261	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	684092	77.878	ng	0.00
7) Phenol-d6	6.504	99	943149	79.248	ng	0.00
23) Nitrobenzene-d5	7.440	82	885901	78.511	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	260432	78.617	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	1568824	75.707	ng	0.00
79) Terphenyl-d14	12.986	244	1705668	80.797	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.634	88	155026	39.597	ng	99
3) Pyridine	3.405	79	391304	40.655	ng	99
4) n-Nitrosodimethylamine	3.357	42	194133	39.908	ng	98
6) Aniline	6.540	93	429973	41.531	ng	99
8) 2-Chlorophenol	6.663	128	373546	39.588	ng	100
9) Benzaldehyde	6.428	77	266318	37.337	ng	99
10) Phenol	6.516	94	505284	40.259	ng	99
11) bis(2-Chloroethyl)ether	6.616	93	374368	39.367	ng	99
12) 1,3-Dichlorobenzene	6.816	146	407569	39.148	ng	99
13) 1,4-Dichlorobenzene	6.898	146	410968	38.930	ng	100
14) 1,2-Dichlorobenzene	7.051	146	381749	38.953	ng	100
15) Benzyl Alcohol	7.016	79	356665	41.596	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	529417	40.304	ng	100
17) 2-Methylphenol	7.128	107	312261	40.228	ng	99
18) Hexachloroethane	7.387	117	152783	39.149	ng	98
19) n-Nitroso-di-n-propyla...	7.292	70	288082	40.079	ng	99
20) 3+4-Methylphenols	7.281	107	398279	41.028	ng	99
22) Acetophenone	7.287	105	530294	38.782	ng	99
24) Nitrobenzene	7.463	77	461518	39.284	ng	99
25) Isophorone	7.698	82	791096	39.558	ng	100
26) 2-Nitrophenol	7.775	139	212967	40.850	ng	100
27) 2,4-Dimethylphenol	7.804	122	270554	40.536	ng	100
28) bis(2-Chloroethoxy)met...	7.904	93	481393	39.258	ng	99
29) 2,4-Dichlorophenol	8.016	162	326198	39.545	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	356725	38.843	ng	99
31) Naphthalene	8.181	128	1159811	38.889	ng	100
32) Benzoic acid	7.928	122	250402	42.635	ng	97
33) 4-Chloroaniline	8.228	127	404464	38.996	ng	99
34) Hexachlorobutadiene	8.298	225	227054	38.804	ng	99
35) Caprolactam	8.598	113	110611	40.345	ng	99
36) 4-Chloro-3-methylphenol	8.704	107	368906	40.356	ng	100
37) 2-Methylnaphthalene	8.869	142	747189	39.072	ng	100
38) 1-Methylnaphthalene	8.969	142	729079	38.933	ng	100
40) 1,2,4,5-Tetrachloroben...	9.034	216	356102	38.657	ng	100
41) Hexachlorocyclopentadiene	9.022	237	90509	38.267	ng	98
43) 2,4,6-Trichlorophenol	9.145	196	240423	39.769	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140341.D
 Acq On : 13 Nov 2024 13:19
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF111324

Quant Time: Nov 13 14:41:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	254749	38.542	ng	100
46) 1,1'-Biphenyl	9.334	154	946801	39.068	ng	99
47) 2-Chloronaphthalene	9.363	162	711544	38.543	ng	100
48) 2-Nitroaniline	9.457	65	243803	39.821	ng	99
49) Acenaphthylene	9.775	152	1088251	38.962	ng	100
50) Dimethylphthalate	9.634	163	845361	38.933	ng	99
51) 2,6-Dinitrotoluene	9.698	165	197768	39.952	ng	100
52) Acenaphthene	9.951	154	738443	39.143	ng	100
53) 3-Nitroaniline	9.869	138	206946	39.809	ng	99
54) 2,4-Dinitrophenol	9.975	184	102497	40.153	ng	99
55) Dibenzofuran	10.122	168	1049030	39.280	ng	99
56) 4-Nitrophenol	10.022	139	158431	41.782	ng	99
57) 2,4-Dinitrotoluene	10.104	165	262271	40.258	ng	100
58) Fluorene	10.463	166	811348	38.457	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	206672	39.601	ng	99
60) Diethylphthalate	10.333	149	864678	38.945	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	400645	38.465	ng	99
62) 4-Nitroaniline	10.481	138	210281	39.561	ng	99
63) Azobenzene	10.616	77	869821	39.649	ng	99
65) 4,6-Dinitro-2-methylph...	10.510	198	139694	41.144	ng	100
66) n-Nitrosodiphenylamine	10.575	169	709758	38.926	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	246390	39.059	ng	99
68) Hexachlorobenzene	11.010	284	277113	39.043	ng	99
69) Atrazine	11.098	200	180055	32.640	ng	98
70) Pentachlorophenol	11.204	266	159402	41.693	ng	99
71) Phenanthrene	11.428	178	1127194	38.024	ng	99
72) Anthracene	11.480	178	1114551	38.362	ng	100
73) Carbazole	11.633	167	1109519	38.676	ng	100
74) Di-n-butylphthalate	11.957	149	1356287	39.391	ng	100
75) Fluoranthene	12.616	202	1270353	38.196	ng	99
77) Benzidine	12.739	184	546613	38.866	ng	99
78) Pyrene	12.845	202	1274659	40.667	ng	100
80) Butylbenzylphthalate	13.463	149	512452	42.560	ng	98
81) Benzo(a)anthracene	14.051	228	947117	39.327	ng	99
82) 3,3'-Dichlorobenzidine	14.010	252	304604	39.793	ng	99
83) Chrysene	14.086	228	869491	39.569	ng	99
84) Bis(2-ethylhexyl)phtha...	14.033	149	678437	42.213	ng	100
85) Di-n-octyl phthalate	14.680	149	915547	40.448	ng	99
87) Indeno(1,2,3-cd)pyrene	17.080	276	815903	41.371	ng	100
88) Benzo(b)fluoranthene	15.139	252	775920	37.153	ng	99
89) Benzo(k)fluoranthene	15.168	252	693105	40.625	ng	99
90) Benzo(a)pyrene	15.510	252	637970	39.337	ng	100
91) Dibenzo(a,h)anthracene	17.098	278	682579	41.871	ng	100
92) Benzo(g,h,i)perylene	17.539	276	677222	40.635	ng	99

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

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

[illegible]

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140341.D
 Acq On : 13 Nov 2024 13:19
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF111324

Quant Time: Nov 13 14:41:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 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	0.522	0.517	1.0	102	0.00
3	Pyridine	1.283	1.305	-1.7	101	0.00
4	n-Nitrosodimethylamine	0.649	0.647	0.3	100	0.00
5 S	2-Fluorophenol	1.171	1.140	2.6	101	0.00
6	Aniline	1.381	1.433	-3.8	101	0.00
7 S	Phenol-d6	1.587	1.572	0.9	100	0.00
8	2-Chlorophenol	1.258	1.245	1.0	100	0.00
9	Benzaldehyde	0.951	0.888	6.6	102	0.00
10 C	Phenol	1.674	1.685	-0.7	100	0.00
11	bis(2-Chloroethyl)ether	1.268	1.248	1.6	101	0.00
12	1,3-Dichlorobenzene	1.388	1.359	2.1	101	0.00
13 C	1,4-Dichlorobenzene	1.408	1.370	2.7	100	0.00
14	1,2-Dichlorobenzene	1.307	1.273	2.6	100	0.00
15	Benzyl Alcohol	1.143	1.189	-4.0	100	0.00
16	2,2'-oxybis(1-Chloropropane	1.752	1.765	-0.7	99	0.00
17	2-Methylphenol	1.035	1.041	-0.6	100	0.00
18	Hexachloroethane	0.520	0.509	2.1	101	0.00
19 P	n-Nitroso-di-n-propylamine	0.959	0.960	-0.1	100	0.00
20	3+4-Methylphenols	1.294	1.328	-2.6	100	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	100	0.00
22	Acetophenone	0.465	0.451	3.0	100	0.00
23 S	Nitrobenzene-d5	0.384	0.377	1.8	100	0.00
24	Nitrobenzene	0.400	0.393	1.8	100	0.00
25	Isophorone	0.680	0.673	1.0	100	0.00
26 C	2-Nitrophenol	0.177	0.181	-2.3	101	0.00
27	2,4-Dimethylphenol	0.227	0.230	-1.3	103	0.00
28	bis(2-Chloroethoxy)methane	0.417	0.409	1.9	100	0.00
29 C	2,4-Dichlorophenol	0.281	0.277	1.4	101	0.00
30	1,2,4-Trichlorobenzene	0.312	0.303	2.9	100	0.00
31	Naphthalene	1.015	0.986	2.9	100	0.00
32	Benzoic acid	0.200	0.213	-6.5	100	0.00
33	4-Chloroaniline	0.353	0.344	2.5	101	0.00
34 C	Hexachlorobutadiene	0.199	0.193	3.0	100	0.00
35	Caprolactam	0.093	0.094	-1.1	102	0.00
36 C	4-Chloro-3-methylphenol	0.311	0.314	-1.0	101	0.00
37	2-Methylnaphthalene	0.651	0.635	2.5	100	0.00
38	1-Methylnaphthalene	0.637	0.620	2.7	99	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
40	1,2,4,5-Tetrachlorobenzene	0.553	0.534	3.4	100	0.00
41 P	Hexachlorocyclopentadiene	0.142	0.136	4.2	97	0.00
42 S	2,4,6-Tribromophenol	0.199	0.195	2.0	101	0.00
43 C	2,4,6-Trichlorophenol	0.363	0.361	0.6	100	0.00
44	2,4,5-Trichlorophenol	0.397	0.382	3.8	98	0.00
45 S	2-Fluorobiphenyl	1.244	1.177	5.4	100	0.00
46	1,1'-Biphenyl	1.455	1.421	2.3	101	0.00
47	2-Chloronaphthalene	1.108	1.068	3.6	100	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140341.D
 Acq On : 13 Nov 2024 13:19
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF111324

Quant Time: Nov 13 14:41:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 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	0.368	0.366	0.5	100	0.00
49	Acenaphthylene	1.677	1.633	2.6	99	0.00
50	Dimethylphthalate	1.304	1.269	2.7	100	0.00
51	2,6-Dinitrotoluene	0.297	0.297	0.0	99	0.00
52 C	Acenaphthene	1.133	1.108	2.2	101	0.00
53	3-Nitroaniline	0.312	0.311	0.3	100	0.00
54 P	2,4-Dinitrophenol	0.153	0.154	-0.7	104	0.00
55	Dibenzofuran	1.603	1.575	1.7	101	0.00
56 P	4-Nitrophenol	0.228	0.238	-4.4	100	0.00
57	2,4-Dinitrotoluene	0.391	0.394	-0.8	101	0.00
58	Fluorene	1.267	1.218	3.9	101	0.00
59	2,3,4,6-Tetrachlorophenol	0.313	0.310	1.0	97	0.00
60	Diethylphthalate	1.333	1.298	2.6	100	0.00
61	4-Chlorophenyl-phenylether	0.625	0.601	3.8	99	0.00
62	4-Nitroaniline	0.319	0.316	0.9	98	0.00
63	Azobenzene	1.317	1.306	0.8	101	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
65	4,6-Dinitro-2-methylphenol	0.108	0.111	-2.8	102	0.00
66 c	n-Nitrosodiphenylamine	0.578	0.562	2.8	101	0.00
67	4-Bromophenyl-phenylether	0.200	0.195	2.5	101	0.00
68	Hexachlorobenzene	0.225	0.220	2.2	101	0.00
69	Atrazine	0.175	0.143	18.3	99	0.00
70 C	Pentachlorophenol	0.121	0.126	-4.1	100	0.00
71	Phenanthrene	0.940	0.893	5.0	99	0.00
72	Anthracene	0.921	0.883	4.1	100	0.00
73	Carbazole	0.909	0.879	3.3	101	0.00
74	Di-n-butylphthalate	1.091	1.075	1.5	100	0.00
75 C	Fluoranthene	1.054	1.007	4.5	99	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	95	0.01
77	Benzidine	0.768	0.746	2.9	108	0.00
78	Pyrene	1.711	1.739	-1.6	98	0.00
79 S	Terphenyl-d14	1.152	1.164	-1.0	98	0.00
80	Butylbenzylphthalate	0.657	0.699	-6.4	96	0.00
81	Benzo(a)anthracene	1.314	1.292	1.7	97	0.01
82	3,3'-Dichlorobenzidine	0.418	0.416	0.5	98	0.01
83	Chrysene	1.199	1.186	1.1	96	0.00
84	Bis(2-ethylhexyl)phthalate	0.877	0.926	-5.6	95	0.01
85 c	Di-n-octyl phthalate	1.235	1.249	-1.1	92	0.02
86 I	Perylene-d12	1.000	1.000	0.0	99	0.02
87	Indeno(1,2,3-cd)pyrene	1.235	1.278	-3.5	101	0.02
88	Benzo(b)fluoranthene	1.308	1.215	7.1	95	0.02
89	Benzo(k)fluoranthene	1.069	1.085	-1.5	101	0.02
90 C	Benzo(a)pyrene	1.016	0.999	1.7	98	0.02
91	Dibenzo(a,h)anthracene	1.021	1.069	-4.7	102	0.02
92	Benzo(g,h,i)perylene	1.044	1.061	-1.6	99	0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140341.D
Acq On : 13 Nov 2024 13:19
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF111324

Quant Time: Nov 13 14:41:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
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_F\Data\BF111324\
 Data File : BF140341.D
 Acq On : 13 Nov 2024 13:19
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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	102	0.00
2	1,4-Dioxane	40.000	39.597	1.0	102	0.00
3	Pyridine	40.000	40.655	-1.6	101	0.00
4	n-Nitrosodimethylamine	40.000	39.908	0.2	100	0.00
5 S	2-Fluorophenol	80.000	77.878	2.7	101	0.00
6	Aniline	40.000	41.531	-3.8	101	0.00
7 S	Phenol-d6	80.000	79.248	0.9	100	0.00
8	2-Chlorophenol	40.000	39.588	1.0	100	0.00
9	Benzaldehyde	40.000	37.337	6.7	102	0.00
10 C	Phenol	40.000	40.259	-0.6	100	0.00
11	bis(2-Chloroethyl)ether	40.000	39.367	1.6	101	0.00
12	1,3-Dichlorobenzene	40.000	39.148	2.1	101	0.00
13 C	1,4-Dichlorobenzene	40.000	38.930	2.7	100	0.00
14	1,2-Dichlorobenzene	40.000	38.953	2.6	100	0.00
15	Benzyl Alcohol	40.000	41.596	-4.0	100	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	40.304	-0.8	99	0.00
17	2-Methylphenol	40.000	40.228	-0.6	100	0.00
18	Hexachloroethane	40.000	39.149	2.1	101	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	40.079	-0.2	100	0.00
20	3+4-Methylphenols	40.000	41.028	-2.6	100	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	100	0.00
22	Acetophenone	40.000	38.782	3.0	100	0.00
23 S	Nitrobenzene-d5	80.000	78.511	1.9	100	0.00
24	Nitrobenzene	40.000	39.284	1.8	100	0.00
25	Isophorone	40.000	39.558	1.1	100	0.00
26 C	2-Nitrophenol	40.000	40.850	-2.1	101	0.00
27	2,4-Dimethylphenol	40.000	40.536	-1.3	103	0.00
28	bis(2-Chloroethoxy)methane	40.000	39.258	1.9	100	0.00
29 C	2,4-Dichlorophenol	40.000	39.545	1.1	101	0.00
30	1,2,4-Trichlorobenzene	40.000	38.843	2.9	100	0.00
31	Naphthalene	40.000	38.889	2.8	100	0.00
32	Benzoic acid	40.000	42.635	-6.6	100	0.00
33	4-Chloroaniline	40.000	38.996	2.5	101	0.00
34 C	Hexachlorobutadiene	40.000	38.804	3.0	100	0.00
35	Caprolactam	40.000	40.345	-0.9	102	0.00
36 C	4-Chloro-3-methylphenol	40.000	40.356	-0.9	101	0.00
37	2-Methylnaphthalene	40.000	39.072	2.3	100	0.00
38	1-Methylnaphthalene	40.000	38.933	2.7	99	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	100	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	38.657	3.4	100	0.00
41 P	Hexachlorocyclopentadiene	40.000	38.267	4.3	97	0.00
42 S	2,4,6-Tribromophenol	80.000	78.617	1.7	101	0.00
43 C	2,4,6-Trichlorophenol	40.000	39.769	0.6	100	0.00
44	2,4,5-Trichlorophenol	40.000	38.542	3.6	98	0.00
45 S	2-Fluorobiphenyl	80.000	75.707	5.4	100	0.00
46	1,1'-Biphenyl	40.000	39.068	2.3	101	0.00
47	2-Chloronaphthalene	40.000	38.543	3.6	100	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
 Data File : BF140341.D
 Acq On : 13 Nov 2024 13:19
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF111324

Quant Time: Nov 13 14:41:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 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	39.821	0.4	100	0.00
49	Acenaphthylene	40.000	38.962	2.6	99	0.00
50	Dimethylphthalate	40.000	38.933	2.7	100	0.00
51	2,6-Dinitrotoluene	40.000	39.952	0.1	99	0.00
52 C	Acenaphthene	40.000	39.143	2.1	101	0.00
53	3-Nitroaniline	40.000	39.809	0.5	100	0.00
54 P	2,4-Dinitrophenol	40.000	40.153	-0.4	104	0.00
55	Dibenzofuran	40.000	39.280	1.8	101	0.00
56 P	4-Nitrophenol	40.000	41.782	-4.5	100	0.00
57	2,4-Dinitrotoluene	40.000	40.258	-0.6	101	0.00
58	Fluorene	40.000	38.457	3.9	101	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	39.601	1.0	97	0.00
60	Diethylphthalate	40.000	38.945	2.6	100	0.00
61	4-Chlorophenyl-phenylether	40.000	38.465	3.8	99	0.00
62	4-Nitroaniline	40.000	39.561	1.1	98	0.00
63	Azobenzene	40.000	39.649	0.9	101	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	100	0.00
65	4,6-Dinitro-2-methylphenol	40.000	41.144	-2.9	102	0.00
66 c	n-Nitrosodiphenylamine	40.000	38.926	2.7	101	0.00
67	4-Bromophenyl-phenylether	40.000	39.059	2.4	101	0.00
68	Hexachlorobenzene	40.000	39.043	2.4	101	0.00
69	Atrazine	40.000	32.640	18.4	99	0.00
70 C	Pentachlorophenol	40.000	41.693	-4.2	100	0.00
71	Phenanthrene	40.000	38.024	4.9	99	0.00
72	Anthracene	40.000	38.362	4.1	100	0.00
73	Carbazole	40.000	38.676	3.3	101	0.00
74	Di-n-butylphthalate	40.000	39.391	1.5	100	0.00
75 C	Fluoranthene	40.000	38.196	4.5	99	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	95	0.01
77	Benzydine	40.000	38.866	2.8	108	0.00
78	Pyrene	40.000	40.667	-1.7	98	0.00
79 S	Terphenyl-d14	80.000	80.797	-1.0	98	0.00
80	Butylbenzylphthalate	40.000	42.560	-6.4	96	0.00
81	Benzo(a)anthracene	40.000	39.327	1.7	97	0.01
82	3,3'-Dichlorobenzidine	40.000	39.793	0.5	98	0.01
83	Chrysene	40.000	39.569	1.1	96	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	42.213	-5.5	95	0.01
85 c	Di-n-octyl phthalate	40.000	40.448	-1.1	92	0.02
86 I	Perylene-d12	20.000	20.000	0.0	99	0.02
87	Indeno(1,2,3-cd)pyrene	40.000	41.371	-3.4	101	0.02
88	Benzo(b)fluoranthene	40.000	37.153	7.1	95	0.02
89	Benzo(k)fluoranthene	40.000	40.625	-1.6	101	0.02
90 C	Benzo(a)pyrene	40.000	39.337	1.7	98	0.02
91	Dibenzo(a,h)anthracene	40.000	41.871	-4.7	102	0.02
92	Benzo(g,h,i)perylene	40.000	40.635	-1.6	99	0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140341.D
Acq On : 13 Nov 2024 13:19
Operator : RC/JU
Sample : SSTDICV040
Misc :
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Instrument :
BNA_F
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Quant Time: Nov 13 14:41:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
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: CORN02
 Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860
 Instrument ID: BNA_F Calibration Date(s): 11/21/2024 11/21/2024
 Calibration Time(s): 11:13 14:18

LAB FILE ID:		RRF2.5 = BF140528.D			RRF005 = BF140529.D		RRF010 = BF140530.D	
		RRF020 = BF140531.D			RRF040 = BF140532.D		RRF050 = BF140533.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.261	1.233	1.202	1.174	1.117	1.172	5.4
Benzaldehyde			1.007	0.970	0.738	0.752	0.820	19.6
Phenol-d6		1.729	1.617	1.559	1.602	1.465	1.550	7.1
Phenol		1.723	1.648	1.620	1.667	1.514	1.583	7.0
bis(2-Chloroethyl) ether		1.292	1.242	1.214	1.246	1.146	1.211	4.6
2-Chlorophenol		1.385	1.328	1.278	1.283	1.201	1.261	6.5
2-Methylphenol		1.121	1.034	1.033	1.042	0.956	1.010	6.7
2,2-oxybis(1-Chloropropane)		1.650	1.480	1.434	1.463	1.335	1.431	8.4
Acetophenone		0.536	0.511	0.494	0.481	0.463	0.488	5.7
3+4-Methylphenols		1.495	1.362	1.305	1.347	1.211	1.298	9.0
n-Nitroso-di-n-propylamine	0.972	1.002	0.949	0.916	0.946	0.856	0.916	6.8
Nitrobenzene-d5		0.409	0.403	0.395	0.392	0.377	0.391	3.2
Hexachloroethane		0.598	0.545	0.549	0.537	0.514	0.536	6.2
Nitrobenzene		0.439	0.409	0.409	0.401	0.388	0.404	4.3
Isophorone		0.694	0.654	0.657	0.662	0.629	0.652	3.4
2-Nitrophenol		0.178	0.172	0.185	0.180	0.178	0.179	2.2
2,4-Dimethylphenol		0.221	0.214	0.213	0.224	0.204	0.214	3.4
bis(2-Chloroethoxy) methane		0.428	0.408	0.403	0.397	0.378	0.397	4.4
2,4-Dichlorophenol		0.301	0.291	0.290	0.282	0.277	0.284	3.8
Naphthalene		1.116	1.075	1.062	1.013	0.993	1.030	5.3
4-Chloroaniline		0.308	0.318	0.309	0.325	0.303	0.308	3.7
Hexachlorobutadiene		0.227	0.225	0.219	0.212	0.209	0.215	4.2
Caprolactam		0.091	0.091	0.091	0.090	0.085	0.088	4.0
4-Chloro-3-methylphenol		0.348	0.318	0.317	0.327	0.307	0.318	5.0
2-Methylnaphthalene		0.724	0.680	0.669	0.650	0.623	0.654	6.1
Hexachlorocyclopentadiene			0.055	0.090	0.114	0.121	0.107	27.8
2,4,6-Trichlorophenol		0.384	0.358	0.375	0.366	0.364	0.367	2.5
2-Fluorobiphenyl		1.550	1.402	1.423	1.291	1.255	1.342	8.9
2,4,5-Trichlorophenol		0.402	0.396	0.410	0.404	0.390	0.399	1.8
1,1-Biphenyl		1.666	1.530	1.563	1.447	1.427	1.493	6.5
2-Chloronaphthalene		1.251	1.145	1.162	1.106	1.082	1.131	5.4
2-Nitroaniline		0.367	0.351	0.379	0.367	0.363	0.363	2.5
Dimethylphthalate		1.455	1.329	1.346	1.299	1.267	1.317	5.3
Acenaphthylene		1.890	1.765	1.808	1.662	1.628	1.710	6.6

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CORN02
 Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860
 Instrument ID: BNA_F Calibration Date(s): 11/21/2024 11/21/2024
 Calibration Time(s): 11:13 14:18

LAB FILE ID:		RRF2.5 = BF140528.D			RRF005 = BF140529.D		RRF010 = BF140530.D	
		RRF020 = BF140531.D			RRF040 = BF140532.D		RRF050 = BF140533.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.314	0.299	0.307	0.301	0.291	0.299	3.2
3-Nitroaniline		0.307	0.297	0.309	0.300	0.289	0.292	5.7
Acenaphthene		1.182	1.110	1.134	1.063	1.052	1.086	5.3
2,4-Dinitrophenol			0.057	0.089	0.140	0.145	0.122	32.7
4-Nitrophenol			0.160	0.195	0.207	0.212	0.199	10.3
Dibenzofuran		1.898	1.739	1.739	1.622	1.559	1.657	8.5
2,4-Dinitrotoluene		0.403	0.403	0.416	0.404	0.386	0.397	3.2
Diethylphthalate		1.495	1.375	1.393	1.311	1.292	1.338	6.7
4-Chlorophenyl-phenylether		0.739	0.682	0.685	0.639	0.619	0.653	7.9
Fluorene		1.509	1.409	1.399	1.295	1.263	1.330	8.4
4-Nitroaniline		0.307	0.301	0.315	0.312	0.310	0.306	2.7
4,6-Dinitro-2-methylphenol			0.073	0.090	0.110	0.110	0.102	16.7
n-Nitrosodiphenylamine		0.632	0.618	0.597	0.578	0.577	0.591	4.4
2,4,6-Tribromophenol		0.222	0.209	0.220	0.216	0.210	0.214	2.5
4-Bromophenyl-phenylether		0.218	0.215	0.206	0.200	0.200	0.206	3.8
Hexachlorobenzene		0.257	0.240	0.239	0.233	0.232	0.238	3.7
Atrazine		0.181	0.171	0.131	0.140	0.147	0.166	16.4
Pentachlorophenol			0.071	0.090	0.116	0.115	0.105	19.2
Phenanthrene		1.074	1.020	0.970	0.944	0.925	0.961	6.9
Anthracene		1.038	0.994	0.958	0.925	0.905	0.940	6.5
Carbazole		1.004	0.949	0.930	0.889	0.876	0.905	6.7
Di-n-butylphthalate		1.144	1.075	1.074	1.023	1.021	1.044	5.6
Fluoranthene		1.186	1.111	1.114	1.014	0.999	1.044	9.1
Pyrene		1.905	1.801	1.897	1.853	1.791	1.849	2.8
Terphenyl-d14		1.351	1.254	1.308	1.283	1.228	1.284	3.3
Butylbenzylphthalate		0.676	0.644	0.694	0.679	0.655	0.666	3.0
3,3-Dichlorobenzidine		0.375	0.383	0.393	0.413	0.406	0.397	4.0
Benzo (a) anthracene		1.409	1.319	1.379	1.286	1.295	1.324	4.3
Chrysene		1.354	1.263	1.218	1.201	1.137	1.211	6.5
Bis (2-ethylhexyl) phthalate		0.904	0.828	0.862	0.833	0.824	0.841	4.0
Di-n-octyl phthalate		1.198	1.133	1.147	1.132	1.147	1.150	2.3
Benzo (b) fluoranthene		1.347	1.256	1.380	1.186	1.248	1.256	6.4
Benzo (k) fluoranthene		1.243	1.236	1.059	1.101	1.022	1.099	9.3
Benzo (a) pyrene		1.062	1.050	1.063	1.007	0.998	1.021	3.8
Indeno (1,2,3-cd) pyrene		1.209	1.283	1.299	1.304	1.306	1.303	4.5

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: CORN02
 Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860
 Instrument ID: BNA_F Calibration Date(s): 11/21/2024 11/21/2024
 Calibration Time(s): 11:13 14:18

LAB FILE ID:		RRF2.5 = BF140528.D		RRF005 = BF140529.D		RRF010 = BF140530.D		
		RRF020 = BF140531.D		RRF040 = BF140532.D		RRF050 = BF140533.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo (a,h) anthracene		1.015	1.038	1.063	1.068	1.075	1.067	3.9
Benzo (g,h,i) perylene		1.033	1.090	1.078	1.085	1.094	1.089	3.5
1,2,4,5-Tetrachlorobenzene		0.635	0.604	0.606	0.563	0.561	0.586	5.0
1,4-Dioxane		0.501	0.502	0.576	0.489	0.452	0.493	8.5
2,3,4,6-Tetrachlorophenol		0.307	0.296	0.308	0.312	0.305	0.306	1.7

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-BF112124.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Thu Nov 21 15:23:48 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BF140528.D 5 =BF140529.D 10 =BF140530.D 20 =BF140531.D 40 =BF140532.D 50 =BF140533.D 60 =BF140534.D 80 =BF140535.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.501	0.502	0.576	0.489	0.452	0.454	0.477	0.493		8.46
3)	Pyridine	0.981	1.019	1.121	1.192	1.062	1.087	1.128	1.084		6.54
4)	n-Nitrosodimet...	0.616	0.611	0.661	0.648	0.632	0.632	0.660	0.637		3.15
5) S	2-Fluorophenol	1.261	1.233	1.202	1.174	1.117	1.127	1.091	1.172		5.40
6)	Aniline	1.159	1.195	1.133	1.251	1.042	1.020	0.835	1.091		12.73
7) S	Phenol-d6	1.729	1.617	1.559	1.602	1.465	1.470	1.407	1.550		7.14
8)	2-Chlorophenol	1.385	1.328	1.278	1.283	1.201	1.208	1.145	1.261		6.51
9)	Benzaldehyde		1.007	0.970	0.738	0.752	0.635		0.820		19.55
10) C	Phenol	1.723	1.648	1.620	1.667	1.514	1.490	1.417	1.583		6.98
11)	bis(2-Chloroet...	1.292	1.242	1.214	1.246	1.146	1.200	1.138	1.211		4.56
12)	1,3-Dichlorobe...	1.600	1.493	1.433	1.399	1.345	1.361	1.288	1.417		7.31
13) C	1,4-Dichlorobe...	1.613	1.501	1.456	1.428	1.358	1.372	1.314	1.435		7.04
14)	1,2-Dichlorobe...	1.503	1.434	1.375	1.355	1.268	1.266	1.210	1.344		7.71
15)	Benzyl Alcohol	1.234	1.174	1.161	1.224	1.113	1.090	1.048	1.149		5.98
16)	2,2'-oxybis(1-...	1.650	1.480	1.434	1.463	1.335	1.377	1.276	1.431		8.43
17)	2-Methylphenol	1.121	1.034	1.033	1.042	0.956	0.959	0.922	1.009		6.74
18)	Hexachloroethane	0.598	0.545	0.549	0.537	0.514	0.510	0.499	0.536		6.17
19) P	n-Nitroso-di-n...	0.972	1.002	0.949	0.916	0.946	0.856	0.857	0.829	0.916	6.82
20)	3+4-Methylphenols	1.495	1.362	1.305	1.347	1.211	1.209	1.154	1.298		8.98
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.536	0.511	0.494	0.481	0.463	0.460	0.468	0.488		5.75
23) S	Nitrobenzene-d5	0.409	0.403	0.395	0.392	0.377	0.377	0.383	0.391		3.21
24)	Nitrobenzene	0.439	0.409	0.409	0.401	0.388	0.391	0.392	0.404		4.35
25)	Isophorone	0.694	0.654	0.657	0.662	0.629	0.634	0.635	0.652		3.44
26) C	2-Nitrophenol	0.178	0.172	0.185	0.180	0.178	0.180	0.180	0.179		2.17
27)	2,4-Dimethylph...	0.221	0.214	0.213	0.224	0.204	0.207	0.218	0.214		3.40
28)	bis(2-Chloroet...	0.428	0.408	0.403	0.397	0.378	0.384	0.383	0.397		4.37
29) C	2,4-Dichloroph...	0.301	0.291	0.290	0.282	0.277	0.274	0.271	0.284		3.82
30)	1,2,4-Trichlor...	0.342	0.338	0.332	0.317	0.317	0.312	0.312	0.324		3.91
31)	Naphthalene	1.116	1.075	1.062	1.013	0.993	0.983	0.970	1.030		5.32
32)	Benzoic acid		0.101	0.126	0.177	0.185	0.192	0.202	0.164		24.72
33)	4-Chloroaniline	0.308	0.318	0.309	0.325	0.303	0.308	0.289	0.308		3.71
34) C	Hexachlorobuta...	0.227	0.225	0.219	0.212	0.209	0.207	0.204	0.215		4.15
35)	Caprolactam	0.091	0.091	0.091	0.090	0.085	0.085	0.083	0.088		3.99
36) C	4-Chloro-3-met...	0.348	0.318	0.317	0.327	0.307	0.307	0.301	0.318		4.95
37)	2-Methylnaphth...	0.724	0.680	0.669	0.650	0.623	0.620	0.615	0.654		6.09
38)	1-Methylnaphth...	0.707	0.665	0.659	0.638	0.611	0.608	0.601	0.641		5.98

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF112124.M

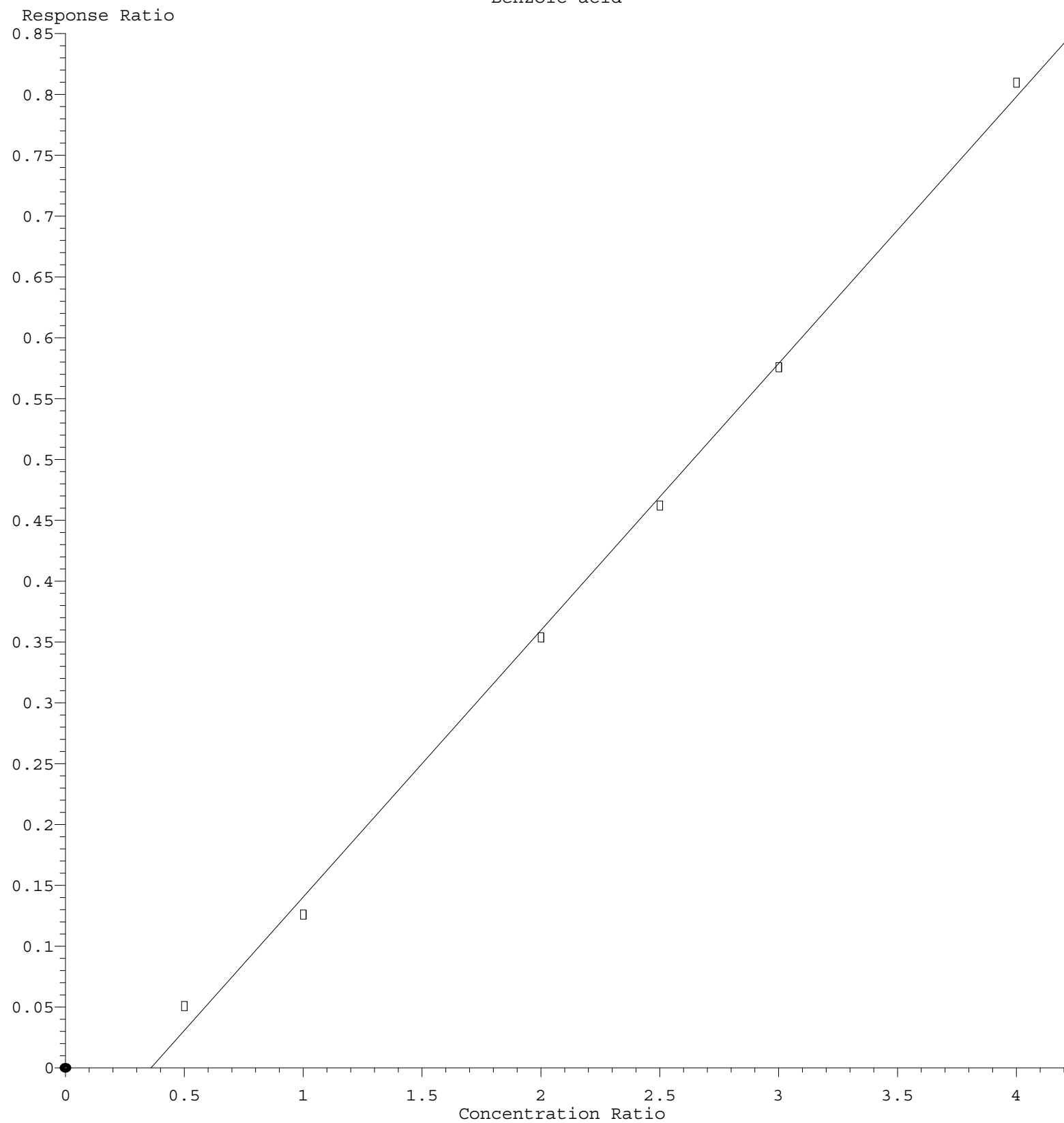
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.635	0.604	0.606	0.563	0.561	0.565	0.565	0.586	5.02	
41) P	Hexachlorocycl...	0.055	0.090	0.114	0.121	0.129	0.133	0.107	27.80		
42) S	2,4,6-Tribromo...	0.222	0.209	0.220	0.216	0.210	0.210	0.211	0.214	2.52	
43) C	2,4,6-Trichlor...	0.384	0.358	0.375	0.366	0.364	0.360	0.365	0.367	2.45	
44)	2,4,5-Trichlor...	0.402	0.396	0.410	0.404	0.390	0.397	0.392	0.399	1.80	
45) S	2-Fluorobiphenyl	1.550	1.402	1.423	1.291	1.255	1.240	1.235	1.342	8.90	
46)	1,1'-Biphenyl	1.666	1.530	1.563	1.447	1.427	1.418	1.403	1.493	6.50	
47)	2-Chloronaphth...	1.251	1.145	1.162	1.106	1.082	1.084	1.091	1.131	5.39	
48)	2-Nitroaniline	0.367	0.351	0.379	0.367	0.363	0.357	0.359	0.363	2.50	
49)	Acenaphthylene	1.890	1.765	1.808	1.662	1.628	1.623	1.590	1.710	6.58	
50)	Dimethylphthalate	1.455	1.329	1.346	1.299	1.267	1.270	1.254	1.317	5.28	
51)	2,6-Dinitrotol...	0.314	0.299	0.307	0.301	0.291	0.293	0.286	0.299	3.24	
52) C	Acenaphthene	1.182	1.110	1.134	1.063	1.052	1.037	1.026	1.086	5.29	
53)	3-Nitroaniline	0.307	0.297	0.309	0.300	0.289	0.281	0.262	0.292	5.71	
54) P	2,4-Dinitrophenol	0.057	0.089	0.140	0.145	0.150	0.154	0.122	32.70		
55)	Dibenzofuran	1.898	1.739	1.739	1.622	1.559	1.531	1.509	1.657	8.53	
56) P	4-Nitrophenol	0.160	0.195	0.207	0.212	0.214	0.208	0.199	10.31		
57)	2,4-Dinitrotol...	0.403	0.403	0.416	0.404	0.386	0.389	0.379	0.397	3.24	
58)	Fluorene	1.509	1.409	1.399	1.295	1.263	1.224	1.210	1.330	8.37	
59)	2,3,4,6-Tetrac...	0.307	0.296	0.308	0.312	0.305	0.305	0.312	0.306	1.72	
60)	Diethylphthalate	1.495	1.375	1.393	1.311	1.292	1.268	1.234	1.338	6.66	
61)	4-Chlorophenyl...	0.739	0.682	0.685	0.639	0.619	0.605	0.599	0.653	7.90	
62)	4-Nitroaniline	0.307	0.301	0.315	0.312	0.310	0.309	0.291	0.306	2.67	
63)	Azobenzene	1.406	1.320	1.320	1.235	1.205	1.206	1.179	1.267	6.55	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.073	0.090	0.110	0.110	0.117	0.113	0.102	16.74		
66) c	n-Nitrosodiphe...	0.632	0.618	0.597	0.578	0.577	0.580	0.558	0.591	4.39	
67)	4-Bromophenyl-...	0.218	0.215	0.206	0.200	0.200	0.205	0.198	0.206	3.79	
68)	Hexachlorobenzene	0.257	0.240	0.239	0.233	0.232	0.236	0.232	0.238	3.65	
69)	Atrazine	0.181	0.171	0.131	0.140	0.147	0.196	0.198	0.166	16.37	
70) C	Pentachlorophenol	0.071	0.090	0.116	0.115	0.121	0.118	0.105	19.24		
71)	Phenanthrene	1.074	1.020	0.970	0.944	0.925	0.916	0.881	0.961	6.87	
72)	Anthracene	1.038	0.994	0.958	0.925	0.905	0.904	0.859	0.940	6.47	
73)	Carbazole	1.004	0.949	0.930	0.889	0.876	0.862	0.821	0.905	6.75	
74)	Di-n-butylphth...	1.144	1.075	1.074	1.023	1.021	1.007	0.967	1.044	5.56	
75) C	Fluoranthene	1.186	1.111	1.114	1.014	0.999	0.962	0.921	1.044	9.11	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.268	0.422	0.296	0.575	0.734	1.025	0.751	0.581	47.31	
78)	Pyrene	1.905	1.801	1.897	1.853	1.791	1.898	1.799	1.849	2.79	
79) S	Terphenyl-d14	1.351	1.254	1.308	1.283	1.228	1.313	1.254	1.284	3.31	
80)	Butylbenzylpht...	0.676	0.644	0.694	0.679	0.655	0.674	0.641	0.666	2.96	
81)	Benzo(a)anthra...	1.409	1.319	1.379	1.286	1.295	1.338	1.242	1.324	4.30	
82)	3,3'-Dichlorob...	0.375	0.383	0.393	0.413	0.406	0.419	0.394	0.397	4.03	
83)	Chrysene	1.354	1.263	1.218	1.201	1.137	1.173	1.128	1.211	6.50	
84)	Bis(2-ethylhex...	0.904	0.828	0.862	0.833	0.824	0.841	0.797	0.841	4.00	
85) c	Di-n-octyl pht...	1.198	1.133	1.147	1.132	1.147	1.169	1.121	1.150	2.29	

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF112124.M

86) I	Perylene-d12	-----ISTD-----									
87)	Indeno(1,2,3-c...	1.209	1.283	1.299	1.304	1.306	1.409	1.313	1.303	4.51	
88)	Benzo(b)fluora...	1.347	1.256	1.380	1.186	1.248	1.207	1.168	1.256	6.41	
89)	Benzo(k)fluora...	1.243	1.236	1.059	1.101	1.022	1.055	0.980	1.099	9.34	
90) C	Benzo(a)pyrene	1.062	1.050	1.063	1.007	0.998	1.014	0.957	1.021	3.81	
91)	Dibenzo(a,h)an...	1.015	1.038	1.063	1.068	1.075	1.149	1.064	1.067	3.90	
92)	Benzo(g,h,i)pe...	1.033	1.090	1.078	1.085	1.094	1.161	1.083	1.089	3.48	

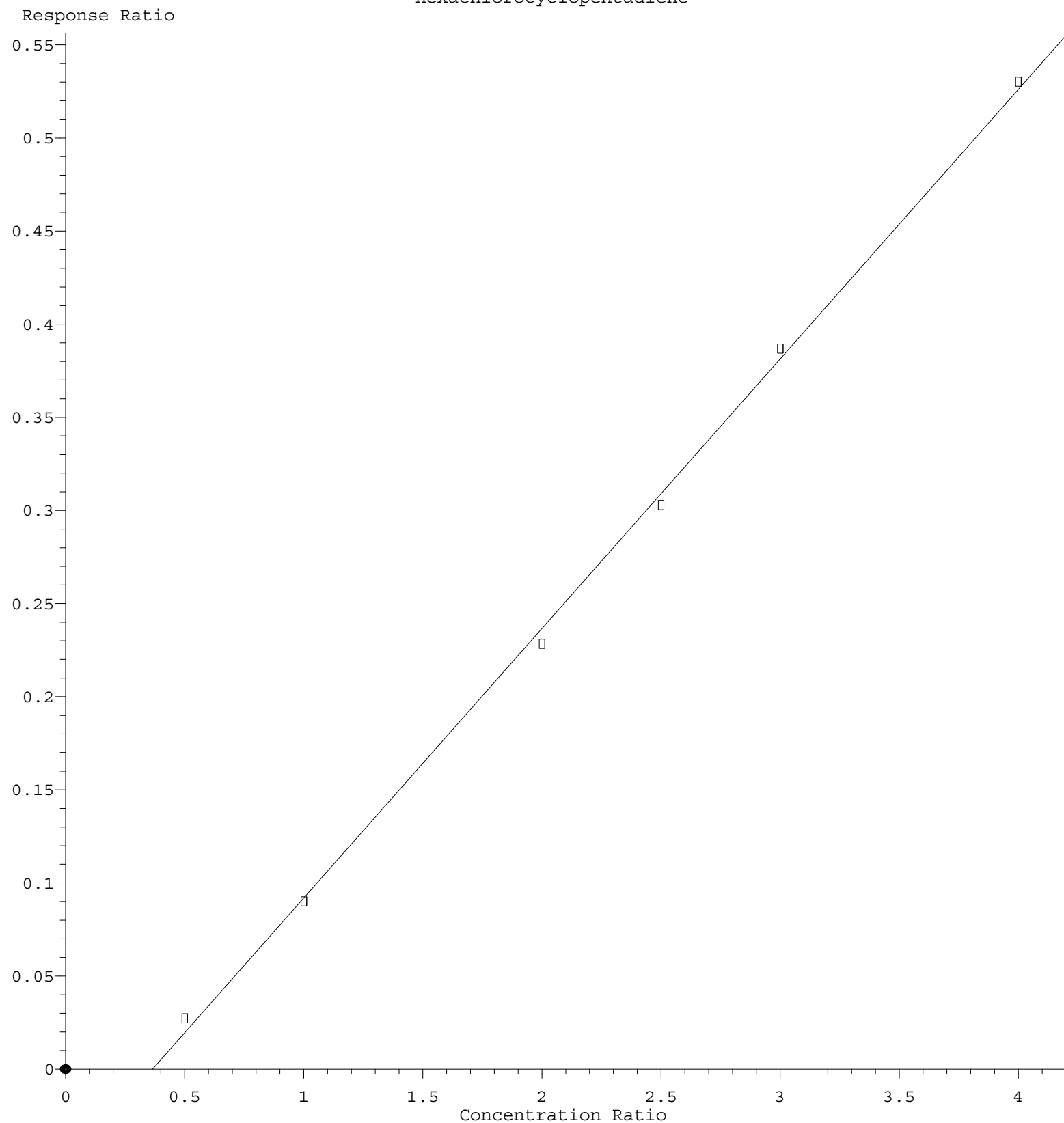
(#) = Out of Range

Benzoic acid



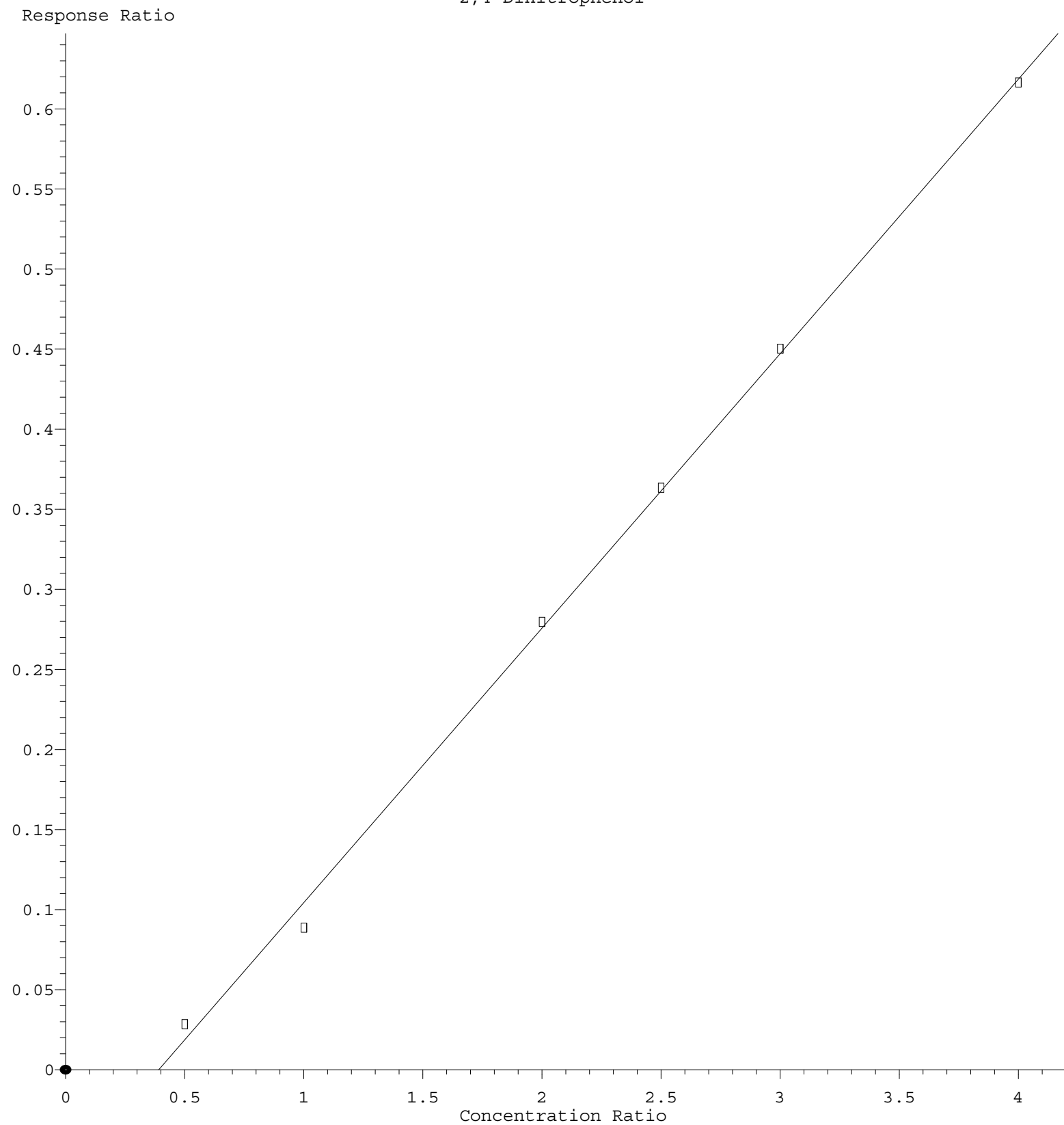
Response = $2.193 \times 10^{-1} \times \text{Amt} - 7.887 \times 10^{-2}$
 Coef of Det (r^2) = 0.997922 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF112124.M
 Calibration Table Last Updated: Thu Nov 21 15:23:48 2024

Hexachlorocyclopentadiene



Response = $1.448 \times 10^{-1} \times \text{Amt} - 5.280 \times 10^{-2}$
Coef of Det (r^2) = 0.998763 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF112124.M
Calibration Table Last Updated: Thu Nov 21 15:23:48 2024

2,4-Dinitrophenol



$$\text{Response} = 1.715\text{e-}001 * \text{Amt} - 6.708\text{e-}002$$

Coef of Det (r^2) = 0.998475 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF112124.M

Calibration Table Last Updated: Thu Nov 21 15:23:48 2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140528.D
Acq On : 21 Nov 2024 11:13
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Nov 21 15:08:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration

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

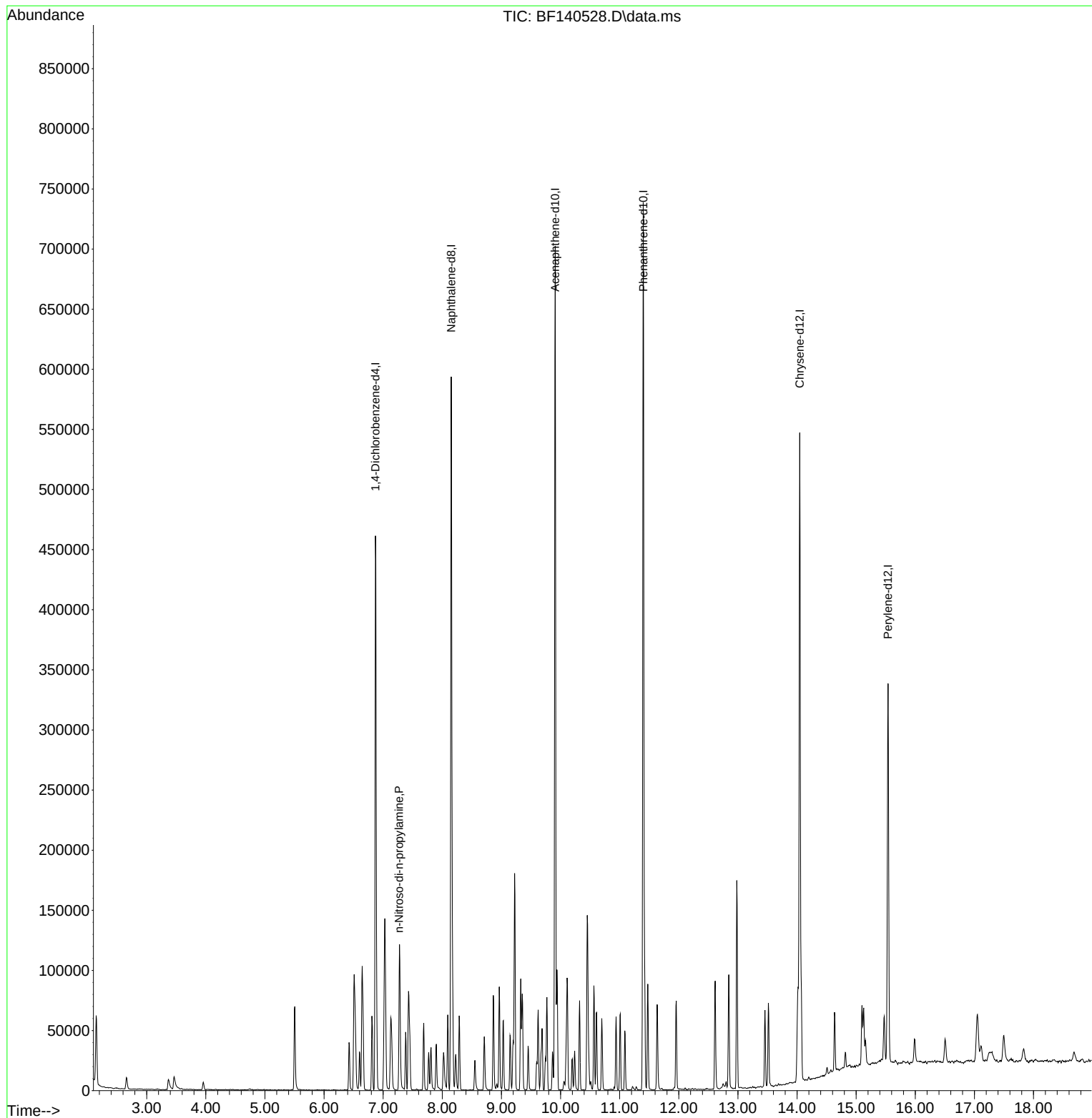
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	98970	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	372671	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	211504	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	393771	20.000	ng	0.00
76) Chrysene-d12	14.045	240	232997	20.000	ng	0.00
86) Perylene-d12	15.539	264	178104	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						Qvalue
19) n-Nitroso-di-n-propyla...	7.269	70	12029	2.654	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140528.D
Acq On : 21 Nov 2024 11:13
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Nov 21 15:08:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
 Data File : BF140529.D
 Acq On : 21 Nov 2024 11:39
 Operator : RC/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

Quant Time: Nov 21 15:09:49 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:50:10 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	104134	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	395935	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	219293	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	428851	20.000	ng	0.00
76) Chrysene-d12	14.045	240	270381	20.000	ng	0.00
86) Perylene-d12	15.533	264	205006	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.499	112	65659	10.758	ng	0.00
7) Phenol-d6	6.504	99	90026	11.158	ng	-0.01
23) Nitrobenzene-d5	7.428	82	80941	10.457	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	24342	10.379	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	170000	11.550	ng	-0.01
79) Terphenyl-d14	12.980	244	182707	10.522	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.646	88	13033	5.079	ng	99
3) Pyridine	3.440	79	25544	4.524	ng	98
4) n-Nitrosodimethylamine	3.358	42	16043	4.835	ng	# 98
6) Aniline	6.534	93	30162	5.311	ng	# 85
8) 2-Chlorophenol	6.657	128	36046	5.490	ng	99
10) Phenol	6.522	94	44852	5.443	ng	94
11) bis(2-Chloroethyl)ether	6.604	93	33630	5.333	ng	99
12) 1,3-Dichlorobenzene	6.810	146	41643	5.644	ng	97
13) 1,4-Dichlorobenzene	6.887	146	42002	5.622	ng	98
14) 1,2-Dichlorobenzene	7.040	146	39138	5.591	ng	97
15) Benzyl Alcohol	7.010	79	32114	5.367	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.146	45	42946	5.765	ng	79
17) 2-Methylphenol	7.128	107	29188	5.553	ng	96
18) Hexachloroethane	7.381	117	15560	5.577	ng	97
19) n-Nitroso-di-n-propyla...	7.275	70	26085	5.470	ng	99
20) 3+4-Methylphenols	7.281	107	38915	5.760	ng	97
22) Acetophenone	7.275	105	53017	5.492	ng	95
24) Nitrobenzene	7.451	77	43460	5.432	ng	99
25) Isophorone	7.687	82	68701	5.321	ng	100
26) 2-Nitrophenol	7.769	139	17600	4.964	ng	100
27) 2,4-Dimethylphenol	7.804	122	21843	5.149	ng	97
28) bis(2-Chloroethoxy)met...	7.898	93	42337	5.383	ng	99
29) 2,4-Dichlorophenol	8.022	162	29819	5.305	ng	95
30) 1,2,4-Trichlorobenzene	8.092	180	33886	5.280	ng	99
31) Naphthalene	8.175	128	110501	5.418	ng	99
33) 4-Chloroaniline	8.228	127	30440	4.985	ng	97
34) Hexachlorobutadiene	8.287	225	22446	5.280	ng	99
35) Caprolactam	8.557	113	8985	5.165	ng	99
36) 4-Chloro-3-methylphenol	8.710	107	34404	5.467	ng	99
37) 2-Methylnaphthalene	8.863	142	71706	5.536	ng	100
38) 1-Methylnaphthalene	8.963	142	69955	5.510	ng	99
40) 1,2,4,5-Tetrachloroben...	9.034	216	34836	5.426	ng	99
43) 2,4,6-Trichlorophenol	9.145	196	21046	5.224	ng	99
44) 2,4,5-Trichlorophenol	9.192	196	22061	5.046	ng	99
46) 1,1'-Biphenyl	9.328	154	91336	5.579	ng	99
47) 2-Chloronaphthalene	9.351	162	68559	5.526	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
 Data File : BF140529.D
 Acq On : 21 Nov 2024 11:39
 Operator : RC/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

Quant Time: Nov 21 15:09:49 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:50:10 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Nitroaniline	9.451	65	20109	5.050	ng	99
49) Acenaphthylene	9.769	152	103605	5.527	ng	99
50) Dimethylphthalate	9.622	163	79770	5.523	ng	98
51) 2,6-Dinitrotoluene	9.687	165	17217	5.256	ng	99
52) Acenaphthene	9.939	154	64777	5.337	ng	97
53) 3-Nitroaniline	9.863	138	16842	5.257	ng	98
55) Dibenzofuran	10.116	168	104044	5.727	ng	96
57) 2,4-Dinitrotoluene	10.098	165	22110	5.079	ng	98
58) Fluorene	10.457	166	82732	5.674	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	16825	5.007	ng	# 96
60) Diethylphthalate	10.322	149	81981	5.587	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	40537	5.665	ng	95
62) 4-Nitroaniline	10.469	138	16848	5.014	ng	98
63) Azobenzene	10.604	77	77108	5.549	ng	96
66) n-Nitrosodiphenylamine	10.563	169	67794	5.346	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	23355	5.288	ng	99
68) Hexachlorobenzene	11.010	284	27532	5.384	ng	99
69) Atrazine	11.086	200	19452	5.452	ng	99
71) Phenanthrene	11.422	178	115121	5.584	ng	98
72) Anthracene	11.475	178	111316	5.520	ng	100
73) Carbazole	11.633	167	107643	5.549	ng	98
74) Di-n-butylphthalate	11.957	149	122687	5.478	ng	99
75) Fluoranthene	12.616	202	127194	5.683	ng	100
77) Benzidine	12.745	184	18105	2.303	ng	99
78) Pyrene	12.845	202	128760	5.150	ng	98
80) Butylbenzylphthalate	13.457	149	45690	5.073	ng	99
81) Benzo(a)anthracene	14.033	228	95229	5.321	ng	99
82) 3,3'-Dichlorobenzidine	13.998	252	25321	4.712	ng	97
83) Chrysene	14.069	228	91528	5.593	ng	97
84) Bis(2-ethylhexyl)phtha...	14.016	149	61082	5.371	ng	100
85) Di-n-octyl phthalate	14.633	149	80990	5.211	ng	99
87) Indeno(1,2,3-cd)pyrene	17.033	276	61952	4.637	ng	97
88) Benzo(b)fluoranthene	15.098	252	69048	5.362	ng	98
89) Benzo(k)fluoranthene	15.127	252	63717	5.655	ng	96
90) Benzo(a)pyrene	15.469	252	54423	5.198	ng	97
91) Dibenzo(a,h)anthracene	17.051	278	52029	4.755	ng	99
92) Benzo(g,h,i)perylene	17.492	276	52919	4.740	ng	97

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

[illegible]

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
 Data File : BF140530.D
 Acq On : 21 Nov 2024 12:05
 Operator : RC/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/22/2024
 Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 21 15:10:46 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:50:10 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	101758	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	377828	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	213774	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	399362	20.000	ng	0.00
76) Chrysene-d12	14.045	240	256196	20.000	ng	0.00
86) Perylene-d12	15.533	264	194024	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	125454	21.035	ng	0.00
7) Phenol-d6	6.504	99	164515	20.866	ng	-0.01
23) Nitrobenzene-d5	7.428	82	152410	20.633	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	44626	19.519	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	299817	20.896	ng	0.00
79) Terphenyl-d14	12.980	244	321362	19.532	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.646	88	25524	10.179	ng	99
3) Pyridine	3.428	79	51851	9.398	ng	96
4) n-Nitrosodimethylamine	3.357	42	31093	9.589	ng	99
6) Aniline	6.534	93	60808	10.957	ng	# 79
8) 2-Chlorophenol	6.657	128	67572	10.531	ng	98
9) Benzaldehyde	6.422	77	51225	12.273	ng	99
10) Phenol	6.522	94	83830	10.411	ng	94
11) bis(2-Chloroethyl)ether	6.604	93	63186	10.255	ng	99
12) 1,3-Dichlorobenzene	6.810	146	75941	10.533	ng	99
13) 1,4-Dichlorobenzene	6.887	146	76389	10.464	ng	99
14) 1,2-Dichlorobenzene	7.040	146	72962	10.666	ng	100
15) Benzyl Alcohol	7.010	79	59748	10.218	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.145	45	75295	10.344	ng	79
17) 2-Methylphenol	7.128	107	52599	10.241	ng	94
18) Hexachloroethane	7.381	117	27715	10.165	ng	98
19) n-Nitroso-di-n-propyla...	7.275	70	48309	10.367	ng	98
20) 3+4-Methylphenols	7.281	107	69290	10.496	ng	98
22) Acetophenone	7.275	105	96618	10.489	ng	97
24) Nitrobenzene	7.451	77	77259	10.120	ng	99
25) Isophorone	7.687	82	123528	10.026	ng	99
26) 2-Nitrophenol	7.769	139	32564	9.625	ng	98
27) 2,4-Dimethylphenol	7.804	122	40421	9.986	ng	99
28) bis(2-Chloroethoxy)met...	7.898	93	77116	10.274	ng	99
29) 2,4-Dichlorophenol	8.016	162	55037	10.261	ng	99
30) 1,2,4-Trichlorobenzene	8.092	180	63769	10.413	ng	98
31) Naphthalene	8.175	128	203054	10.434	ng	99
32) Benzoic acid	7.887	122	19174m	11.820	ng	
33) 4-Chloroaniline	8.222	127	60102	10.315	ng	99
34) Hexachlorobutadiene	8.287	225	42479	10.472	ng	98
35) Caprolactam	8.563	113	17126	10.317	ng	96
36) 4-Chloro-3-methylphenol	8.704	107	60104	10.008	ng	99
37) 2-Methylnaphthalene	8.863	142	128393	10.387	ng	100
38) 1-Methylnaphthalene	8.963	142	125672	10.372	ng	99
40) 1,2,4,5-Tetrachloroben...	9.034	216	64508	10.308	ng	99
41) Hexachlorocyclopentadiene	9.016	237	5836	11.063	ng	98
43) 2,4,6-Trichlorophenol	9.145	196	38279	9.748	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
 Data File : BF140530.D
 Acq On : 21 Nov 2024 12:05
 Operator : RC/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 21 15:10:46 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Nov 21 14:50:10 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	42321	9.930	ng	99
46) 1,1'-Biphenyl	9.328	154	163500	10.244	ng	99
47) 2-Chloronaphthalene	9.351	162	122350	10.117	ng	99
48) 2-Nitroaniline	9.451	65	37481	9.655	ng	98
49) Acenaphthylene	9.769	152	188676	10.326	ng	99
50) Dimethylphthalate	9.622	163	142079	10.092	ng	100
51) 2,6-Dinitrotoluene	9.692	165	31999	10.021	ng	94
52) Acenaphthene	9.939	154	118691	10.031	ng	99
53) 3-Nitroaniline	9.863	138	31781	10.177	ng	96
54) 2,4-Dinitrophenol	9.981	184	6086	11.143	ng	98
55) Dibenzofuran	10.116	168	185902	10.497	ng	99
56) 4-Nitrophenol	10.039	139	17052	8.006	ng	96
57) 2,4-Dinitrotoluene	10.098	165	43030	10.140	ng	95
58) Fluorene	10.457	166	150592	10.594	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	31672	9.670	ng	98
60) Diethylphthalate	10.322	149	146994	10.276	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	72915	10.452	ng	97
62) 4-Nitroaniline	10.469	138	32193	9.829	ng	96
63) Azobenzene	10.610	77	141049	10.412	ng	98
65) 4,6-Dinitro-2-methylph...	10.510	198	14572	7.140	ng	93
66) n-Nitrosodiphenylamine	10.563	169	123384	10.447	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	42955	10.444	ng	98
68) Hexachlorobenzene	11.010	284	47993	10.078	ng	97
69) Atrazine	11.092	200	34193	10.292	ng	100
70) Pentachlorophenol	11.210	266	14110	6.732	ng	97
71) Phenanthrene	11.422	178	203602	10.606	ng	99
72) Anthracene	11.475	178	198430	10.567	ng	100
73) Carbazole	11.633	167	189597	10.495	ng	100
74) Di-n-butylphthalate	11.957	149	214564	10.288	ng	99
75) Fluoranthene	12.616	202	221773	10.640	ng	99
77) Benzidine	12.739	184	54022	7.252	ng	100
78) Pyrene	12.845	202	230747	9.741	ng	98
80) Butylbenzylphthalate	13.457	149	82557	9.674	ng	100
81) Benzo(a)anthracene	14.033	228	168988	9.964	ng	99
82) 3,3'-Dichlorobenzidine	13.998	252	49053	9.634	ng	100
83) Chrysene	14.069	228	161811	10.435	ng	99
84) Bis(2-ethylhexyl)phtha...	14.016	149	106093	9.846	ng	100
85) Di-n-octyl phthalate	14.633	149	145085	9.852	ng	100
87) Indeno(1,2,3-cd)pyrene	17.033	276	124455	9.843	ng	99
88) Benzo(b)fluoranthene	15.098	252	121884	10.001	ng	99
89) Benzo(k)fluoranthene	15.127	252	119878	11.241	ng	100
90) Benzo(a)pyrene	15.468	252	101824	10.276	ng	97
91) Dibenzo(a,h)anthracene	17.051	278	100656	9.720	ng	99
92) Benzo(g,h,i)perylene	17.492	276	105771	10.010	ng	99

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

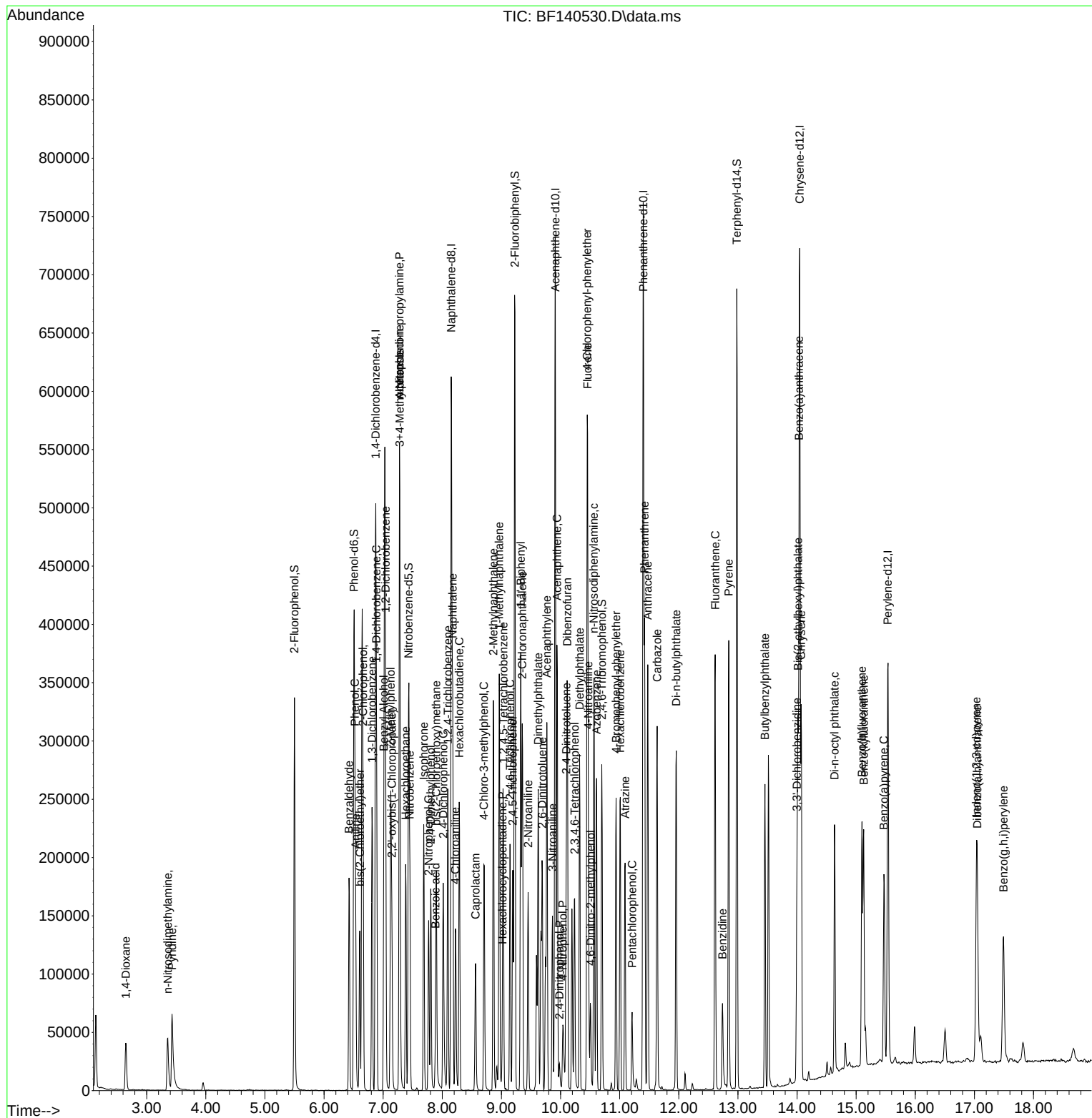
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140530.D
Acq On : 21 Nov 2024 12:05
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 21 15:10:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
 Data File : BF140531.D
 Acq On : 21 Nov 2024 12:32
 Operator : RC/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/22/2024
 Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 21 15:11:39 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:50:10 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	99570	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	364692	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	198805	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	382041	20.000	ng	0.00
76) Chrysene-d12	14.051	240	225903	20.000	ng	0.00
86) Perylene-d12	15.533	264	173612	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.499	112	239365	41.017	ng	0.00
7) Phenol-d6	6.510	99	310375	40.230	ng	0.00
23) Nitrobenzene-d5	7.434	82	288201	40.422	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	87426	41.118	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	565607	42.389	ng	0.00
79) Terphenyl-d14	12.986	244	590771	40.721	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.646	88	57318	23.361	ng	98
3) Pyridine	3.422	79	111651	20.682	ng	98
4) n-Nitrosodimethylamine	3.357	42	65851	20.754	ng	95
6) Aniline	6.534	93	112828	20.778	ng	88
8) 2-Chlorophenol	6.663	128	127220	20.263	ng	96
9) Benzaldehyde	6.422	77	96584	23.648	ng	97
10) Phenol	6.522	94	161262	20.467	ng	94
11) bis(2-Chloroethyl)ether	6.604	93	120837	20.042	ng	100
12) 1,3-Dichlorobenzene	6.816	146	142704	20.228	ng	99
13) 1,4-Dichlorobenzene	6.893	146	144955	20.293	ng	100
14) 1,2-Dichlorobenzene	7.045	146	136939	20.459	ng	99
15) Benzyl Alcohol	7.010	79	115602	20.205	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.146	45	142742	20.040	ng	81
17) 2-Methylphenol	7.128	107	102895	20.473	ng	94
18) Hexachloroethane	7.381	117	54624	20.475	ng	97
19) n-Nitroso-di-n-propyla...	7.281	70	91173	19.996	ng	97
20) 3+4-Methylphenols	7.281	107	129954	20.117	ng	94
22) Acetophenone	7.281	105	180222	20.270	ng	100
24) Nitrobenzene	7.451	77	148986	20.218	ng	100
25) Isophorone	7.687	82	239713	20.158	ng	98
26) 2-Nitrophenol	7.769	139	67593	20.699	ng	100
27) 2,4-Dimethylphenol	7.804	122	77504	19.836	ng	99
28) bis(2-Chloroethoxy)met...	7.898	93	146899	20.277	ng	100
29) 2,4-Dichlorophenol	8.016	162	105906	20.456	ng	98
30) 1,2,4-Trichlorobenzene	8.092	180	120949	20.461	ng	100
31) Naphthalene	8.175	128	387236	20.614	ng	99
32) Benzoic acid	7.904	122	45935	18.678	ng	99
33) 4-Chloroaniline	8.222	127	112719	20.042	ng	100
34) Hexachlorobutadiene	8.287	225	79980	20.427	ng	99
35) Caprolactam	8.581	113	33020	20.609	ng	94
36) 4-Chloro-3-methylphenol	8.710	107	115782	19.974	ng	98
37) 2-Methylnaphthalene	8.863	142	243949	20.446	ng	99
38) 1-Methylnaphthalene	8.963	142	240502	20.564	ng	98
40) 1,2,4,5-Tetrachloroben...	9.034	216	120444	20.695	ng	100
41) Hexachlorocyclopentadiene	9.016	237	17909	19.734	ng	98
43) 2,4,6-Trichlorophenol	9.145	196	74538	20.410	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
 Data File : BF140531.D
 Acq On : 21 Nov 2024 12:32
 Operator : RC/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 21 15:11:39 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Nov 21 14:50:10 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	81588	20.585	ng	98
46) 1,1'-Biphenyl	9.328	154	310749	20.936	ng	100
47) 2-Chloronaphthalene	9.357	162	231066	20.545	ng	99
48) 2-Nitroaniline	9.451	65	75343	20.871	ng	99
49) Acenaphthylene	9.769	152	359483	21.155	ng	100
50) Dimethylphthalate	9.628	163	267629	20.440	ng	99
51) 2,6-Dinitrotoluene	9.692	165	61076	20.568	ng	97
52) Acenaphthene	9.945	154	225540m	20.497	ng	
53) 3-Nitroaniline	9.863	138	61362	21.128	ng	96
54) 2,4-Dinitrophenol	9.975	184	17628	18.164	ng	98
55) Dibenzofuran	10.116	168	345729	20.992	ng	100
56) 4-Nitrophenol	10.034	139	38787	19.582	ng	97
57) 2,4-Dinitrotoluene	10.098	165	82706	20.957	ng	96
58) Fluorene	10.457	166	278115	21.038	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	61142	20.072	ng	98
60) Diethylphthalate	10.328	149	276859	20.812	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	136189	20.992	ng	98
62) 4-Nitroaniline	10.475	138	62610	20.555	ng	99
63) Azobenzene	10.610	77	262444	20.833	ng	99
65) 4,6-Dinitro-2-methylph...	10.510	198	34412	17.627	ng	97
66) n-Nitrosodiphenylamine	10.569	169	228075	20.187	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	78863	20.044	ng	98
68) Hexachlorobenzene	11.010	284	91363	20.055	ng	97
69) Atrazine	11.092	200	50070	15.754	ng	99
70) Pentachlorophenol	11.210	266	34309	17.111	ng	97
71) Phenanthrene	11.428	178	370424	20.171	ng	99
72) Anthracene	11.475	178	366152	20.383	ng	100
73) Carbazole	11.633	167	355423	20.567	ng	99
74) Di-n-butylphthalate	11.957	149	410317	20.566	ng	99
75) Fluoranthene	12.616	202	425403	21.335	ng	99
77) Benzidine	12.739	184	66895	10.185	ng	99
78) Pyrene	12.845	202	428479	20.514	ng	99
80) Butylbenzylphthalate	13.457	149	156775	20.835	ng	96
81) Benzo(a)anthracene	14.039	228	311416	20.825	ng	99
82) 3,3'-Dichlorobenzidine	13.998	252	88858	19.791	ng	98
83) Chrysene	14.074	228	275068	20.117	ng	100
84) Bis(2-ethylhexyl)phtha...	14.016	149	194626	20.484	ng	100
85) Di-n-octyl phthalate	14.633	149	259088	19.953	ng	100
87) Indeno(1,2,3-cd)pyrene	17.039	276	225489	19.930	ng	100
88) Benzo(b)fluoranthene	15.098	252	239653	21.977	ng	99
89) Benzo(k)fluoranthene	15.127	252	183799	19.261	ng	99
90) Benzo(a)pyrene	15.474	252	184528	20.812	ng	98
91) Dibenzo(a,h)anthracene	17.051	278	184632	19.926	ng	99
92) Benzo(g,h,i)perylene	17.492	276	187164	19.795	ng	98

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

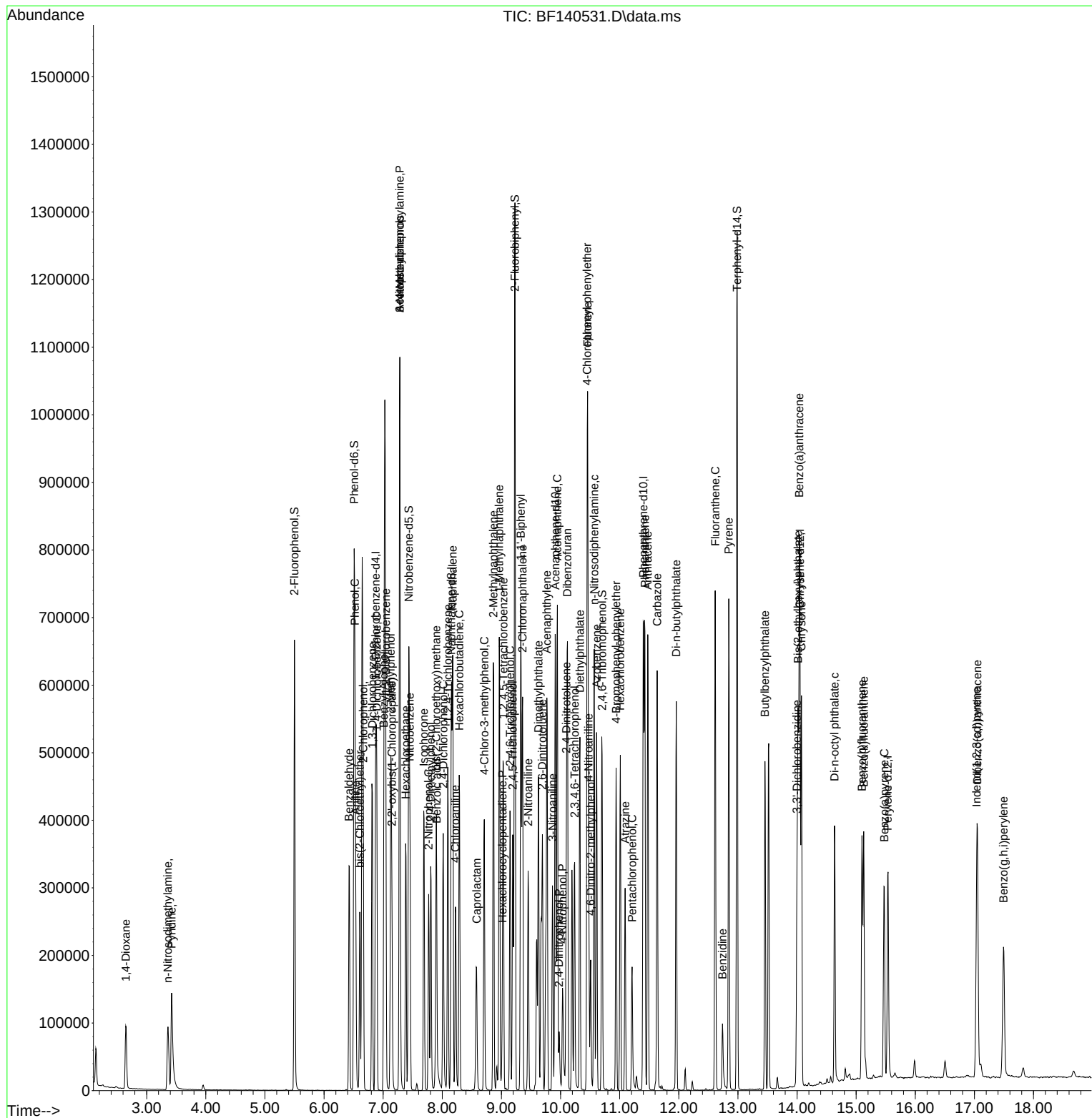
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140531.D
Acq On : 21 Nov 2024 12:32
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 21 15:11:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
 Data File : BF140532.D
 Acq On : 21 Nov 2024 12:58
 Operator : RC/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICCC040

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/22/2024
 Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 21 15:12:33 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:50:10 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	107516	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	413408	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	234407	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	437466	20.000	ng	0.00
76) Chrysene-d12	14.051	240	239343	20.000	ng	0.00
86) Perylene-d12	15.539	264	211422	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	504816	80.111	ng	0.00
7) Phenol-d6	6.516	99	688812	82.684	ng	0.00
23) Nitrobenzene-d5	7.439	82	648845	80.281	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	202517	80.781	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	1210929	76.969	ng	0.00
79) Terphenyl-d14	12.992	244	1228064	79.896	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.652	88	105183	39.700	ng	100
3) Pyridine	3.422	79	256255	43.959	ng	100
4) n-Nitrosodimethylamine	3.381	42	139435	40.698	ng	100
6) Aniline	6.540	93	268994	45.875	ng	100
8) 2-Chlorophenol	6.663	128	275937	40.702	ng	100
9) Benzaldehyde	6.428	77	158653	35.975	ng	100
10) Phenol	6.528	94	358490	42.137	ng	100
11) bis(2-Chloroethyl)ether	6.610	93	267847	41.142	ng	100
12) 1,3-Dichlorobenzene	6.816	146	300744	39.480	ng	100
13) 1,4-Dichlorobenzene	6.892	146	307112	39.817	ng	100
14) 1,2-Dichlorobenzene	7.045	146	291347	40.311	ng	100
15) Benzyl Alcohol	7.016	79	263144	42.594	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.145	45	314582	40.901	ng	100
17) 2-Methylphenol	7.134	107	223977	41.272	ng	100
18) Hexachloroethane	7.387	117	115481	40.087	ng	100
19) n-Nitroso-di-n-propyla...	7.287	70	203356	41.304	ng	100
20) 3+4-Methylphenols	7.287	107	289597	41.517	ng	100
22) Acetophenone	7.287	105	397747	39.464	ng	100
24) Nitrobenzene	7.457	77	331927	39.736	ng	100
25) Isophorone	7.698	82	546985	40.576	ng	100
26) 2-Nitrophenol	7.775	139	149133	40.287	ng	100
27) 2,4-Dimethylphenol	7.810	122	185514	41.885	ng	100
28) bis(2-Chloroethoxy)met...	7.904	93	328053	39.946	ng	100
29) 2,4-Dichlorophenol	8.016	162	233140	39.725	ng	100
30) 1,2,4-Trichlorobenzene	8.098	180	261862	39.078	ng	100
31) Naphthalene	8.181	128	837233	39.318	ng	100
32) Benzoic acid	7.939	122	146245	39.450	ng	100
33) 4-Chloroaniline	8.228	127	268662	42.139	ng	100
34) Hexachlorobutadiene	8.292	225	175198	39.473	ng	100
35) Caprolactam	8.604	113	74771	41.168	ng	100
36) 4-Chloro-3-methylphenol	8.716	107	270395	41.150	ng	100
37) 2-Methylnaphthalene	8.869	142	537039	39.707	ng	100
38) 1-Methylnaphthalene	8.969	142	527387	39.781	ng	100
40) 1,2,4,5-Tetrachloroben...	9.033	216	263939	38.462	ng	100
41) Hexachlorocyclopentadiene	9.016	237	53531	38.833	ng	100
43) 2,4,6-Trichlorophenol	9.151	196	171374	39.799	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
 Data File : BF140532.D
 Acq On : 21 Nov 2024 12:58
 Operator : RC/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICCC040

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/22/2024
 Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 21 15:12:33 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:50:10 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	189287	40.504	ng	100
46) 1,1'-Biphenyl	9.333	154	678172	38.750	ng	100
47) 2-Chloronaphthalene	9.357	162	518320	39.086	ng	100
48) 2-Nitroaniline	9.457	65	172005	40.410	ng	100
49) Acenaphthylene	9.775	152	779390	38.899	ng	100
50) Dimethylphthalate	9.633	163	608948	39.445	ng	100
51) 2,6-Dinitrotoluene	9.698	165	140922	40.249	ng	100
52) Acenaphthene	9.945	154	498119m	38.394	ng	
53) 3-Nitroaniline	9.869	138	140859	41.134	ng	100
54) 2,4-Dinitrophenol	9.980	184	65546	40.435	ng	100
55) Dibenzofuran	10.122	168	760308	39.153	ng	100
56) 4-Nitrophenol	10.039	139	97133	41.591	ng	100
57) 2,4-Dinitrotoluene	10.104	165	189213	40.662	ng	100
58) Fluorene	10.463	166	607198	38.956	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	146383	40.757	ng	100
60) Diethylphthalate	10.333	149	614490	39.176	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	299662	39.175	ng	100
62) 4-Nitroaniline	10.486	138	146354	40.750	ng	100
63) Azobenzene	10.616	77	579042	38.983	ng	100
65) 4,6-Dinitro-2-methylph...	10.516	198	96120	42.998	ng	100
66) n-Nitrosodiphenylamine	10.575	169	505450	39.070	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	174746	38.787	ng	100
68) Hexachlorobenzene	11.016	284	204123	39.129	ng	100
69) Atrazine	11.098	200	122413	33.635	ng	100
70) Pentachlorophenol	11.210	266	101542	44.226	ng	100
71) Phenanthrene	11.427	178	826269	39.293	ng	100
72) Anthracene	11.480	178	808988	39.329	ng	100
73) Carbazole	11.639	167	778112	39.322	ng	100
74) Di-n-butylphthalate	11.957	149	895236	39.186	ng	100
75) Fluoranthene	12.621	202	886900	38.845	ng	100
77) Benzidine	12.739	184	275047	39.525	ng	100
78) Pyrene	12.851	202	887193	40.090	ng	100
80) Butylbenzylphthalate	13.463	149	324879	40.751	ng	100
81) Benzo(a)anthracene	14.039	228	615808	38.868	ng	100
82) 3,3'-Dichlorobenzidine	13.998	252	197667	41.554	ng	100
83) Chrysene	14.080	228	575079	39.696	ng	100
84) Bis(2-ethylhexyl)phtha...	14.015	149	398677	39.604	ng	100
85) Di-n-octyl phthalate	14.633	149	541933	39.393	ng	100
87) Indeno(1,2,3-cd)pyrene	17.051	276	551596	40.034	ng	100
88) Benzo(b)fluoranthene	15.104	252	501607	37.772	ng	100
89) Benzo(k)fluoranthene	15.133	252	465620	40.067	ng	100
90) Benzo(a)pyrene	15.474	252	425894	39.444	ng	100
91) Dibenzo(a,h)anthracene	17.062	278	451597	40.022	ng	100
92) Benzo(g,h,i)perylene	17.509	276	458972	39.861	ng	100

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

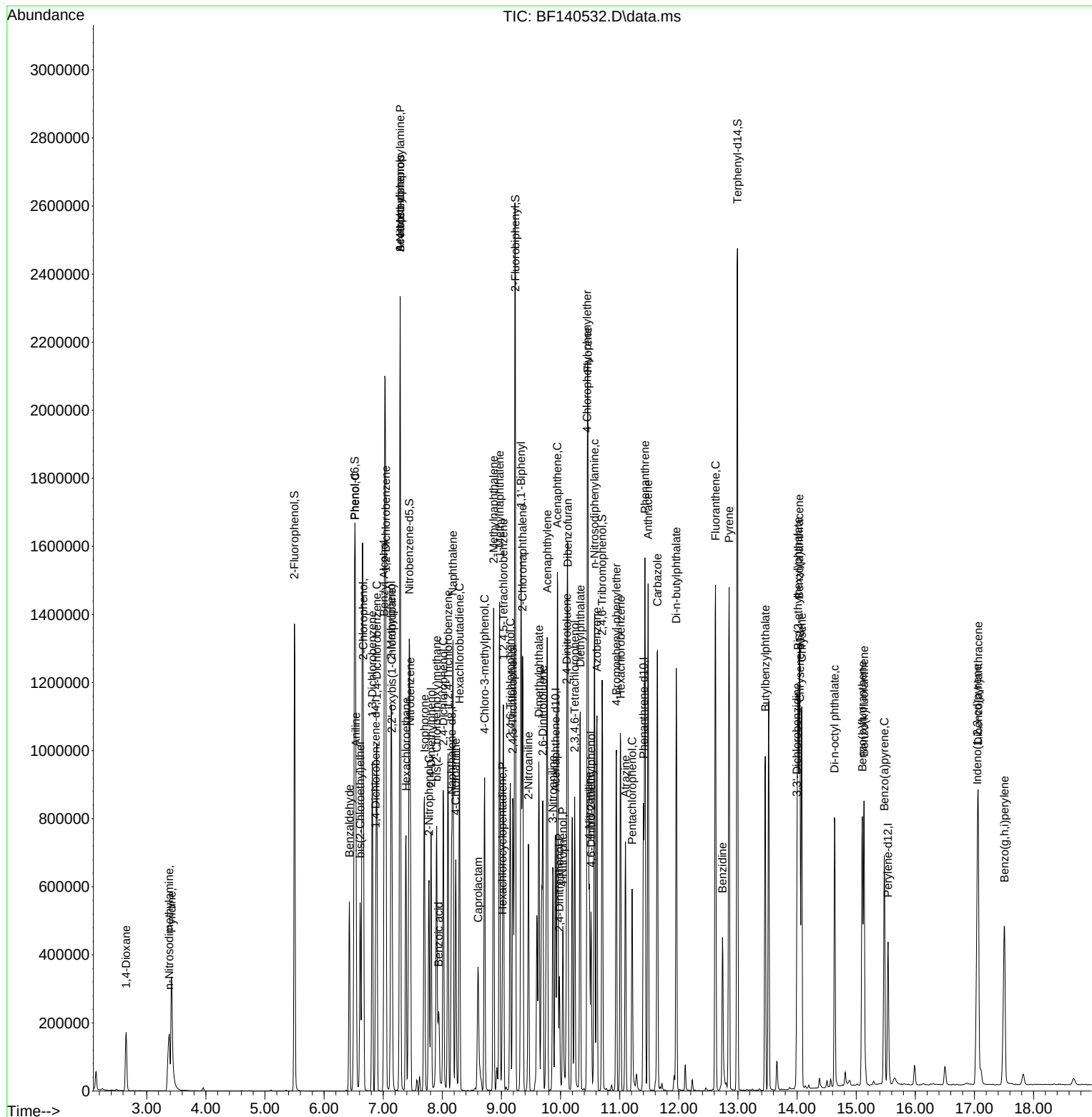
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Data File : BF140532.D
Acq On : 21 Nov 2024 12:58
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 21 15:12:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
 Data File : BF140533.D
 Acq On : 21 Nov 2024 13:25
 Operator : RC/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC050

Quant Time: Nov 21 15:13:26 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:50:10 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	117539	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	425301	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	233869	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	432727	20.000	ng	0.00
76) Chrysene-d12	14.057	240	241266	20.000	ng	0.00
86) Perylene-d12	15.545	264	219139	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	656695	95.327	ng	0.00
7) Phenol-d6	6.522	99	860924	94.531	ng	0.00
23) Nitrobenzene-d5	7.445	82	801144	96.352	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	245159	98.015	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	1467020	93.462	ng	0.00
79) Terphenyl-d14	12.992	244	1481875	95.640	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.646	88	132951	45.902	ng	99
3) Pyridine	3.416	79	312094	48.973	ng	97
4) n-Nitrosodimethylamine	3.387	42	185759	49.595	ng	99
6) Aniline	6.545	93	306198	47.767	ng	99
8) 2-Chlorophenol	6.669	128	352950	47.623	ng	97
9) Benzaldehyde	6.428	77	220959	45.830	ng	100
10) Phenol	6.534	94	444859	47.830	ng	98
11) bis(2-Chloroethyl)ether	6.616	93	336892	47.335	ng	100
12) 1,3-Dichlorobenzene	6.816	146	395334	47.472	ng	99
13) 1,4-Dichlorobenzene	6.892	146	399191	47.341	ng	100
14) 1,2-Dichlorobenzene	7.045	146	372552	47.151	ng	98
15) Benzyl Alcohol	7.022	79	327081	48.428	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	392372	46.665	ng	93
17) 2-Methylphenol	7.134	107	280882	47.344	ng	98
18) Hexachloroethane	7.386	117	151045	47.961	ng	99
19) n-Nitroso-di-n-propyla...	7.292	70	251453	46.718	ng	99
20) 3+4-Methylphenols	7.292	107	355860	46.666	ng	95
22) Acetophenone	7.286	105	492194	47.469	ng	98
24) Nitrobenzene	7.463	77	412860	48.043	ng	99
25) Isophorone	7.698	82	668649	48.214	ng	100
26) 2-Nitrophenol	7.775	139	189056	49.644	ng	99
27) 2,4-Dimethylphenol	7.816	122	217017	47.628	ng	99
28) bis(2-Chloroethoxy)met...	7.904	93	402409	47.630	ng	100
29) 2,4-Dichlorophenol	8.022	162	295023	48.863	ng	98
30) 1,2,4-Trichlorobenzene	8.098	180	336812	48.858	ng	98
31) Naphthalene	8.181	128	1055423	48.178	ng	100
32) Benzoic acid	7.957	122	196545	49.333	ng	99
33) 4-Chloroaniline	8.233	127	322212	49.125	ng	99
34) Hexachlorobutadiene	8.292	225	221707	48.555	ng	99
35) Caprolactam	8.616	113	90596	48.486	ng	99
36) 4-Chloro-3-methylphenol	8.716	107	326418	48.287	ng	99
37) 2-Methylnaphthalene	8.869	142	662592	47.620	ng	100
38) 1-Methylnaphthalene	8.969	142	649248	47.603	ng	99
40) 1,2,4,5-Tetrachloroben...	9.033	216	328190	47.935	ng	99
41) Hexachlorocyclopentadiene	9.016	237	70831	49.123	ng	97
43) 2,4,6-Trichlorophenol	9.151	196	212974	49.574	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
 Data File : BF140533.D
 Acq On : 21 Nov 2024 13:25
 Operator : RC/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC050

Quant Time: Nov 21 15:13:26 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:50:10 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	227840	48.866	ng	98
46) 1,1'-Biphenyl	9.333	154	834139	47.772	ng	99
47) 2-Chloronaphthalene	9.363	162	632459	47.803	ng	99
48) 2-Nitroaniline	9.457	65	212420	50.020	ng	98
49) Acenaphthylene	9.775	152	951784	47.612	ng	99
50) Dimethylphthalate	9.639	163	740559	48.081	ng	99
51) 2,6-Dinitrotoluene	9.704	165	169989	48.663	ng	96
52) Acenaphthene	9.951	154	615149	47.524	ng	99
53) 3-Nitroaniline	9.875	138	169234	49.534	ng	96
54) 2,4-Dinitrophenol	9.980	184	84985	50.205	ng	99
55) Dibenzofuran	10.122	168	911771	47.061	ng	99
56) 4-Nitrophenol	10.045	139	124021	53.227	ng	98
57) 2,4-Dinitrotoluene	10.110	165	225762	48.629	ng	98
58) Fluorene	10.463	166	738453	47.486	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	178549	49.828	ng	97
60) Diethylphthalate	10.333	149	755358	48.268	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	361856	47.414	ng	100
62) 4-Nitroaniline	10.492	138	180999	50.512	ng	99
63) Azobenzene	10.616	77	704370	47.529	ng	99
65) 4,6-Dinitro-2-methylph...	10.522	198	119290	53.947	ng	99
66) n-Nitrosodiphenylamine	10.574	169	623715	48.740	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	216523	48.587	ng	97
68) Hexachlorobenzene	11.016	284	251498	48.739	ng	100
69) Atrazine	11.098	200	159048	44.180	ng	99
70) Pentachlorophenol	11.210	266	124128	54.656	ng	99
71) Phenanthrene	11.427	178	1000897	48.118	ng	100
72) Anthracene	11.480	178	978923	48.111	ng	100
73) Carbazole	11.639	167	948090	48.436	ng	99
74) Di-n-butylphthalate	11.957	149	1105032	48.899	ng	100
75) Fluoranthene	12.621	202	1080641	47.849	ng	100
77) Benzidine	12.745	184	442856	63.133	ng	100
78) Pyrene	12.851	202	1080149	48.420	ng	100
80) Butylbenzylphthalate	13.463	149	394867	49.136	ng	99
81) Benzo(a)anthracene	14.045	228	780853	48.892	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	244892	51.072	ng	99
83) Chrysene	14.080	228	685847	46.964	ng	100
84) Bis(2-ethylhexyl)phtha...	14.021	149	497161	48.994	ng	100
85) Di-n-octyl phthalate	14.645	149	692020	49.901	ng	100
87) Indeno(1,2,3-cd)pyrene	17.062	276	715720	50.117	ng	100
88) Benzo(b)fluoranthene	15.109	252	683919	49.687	ng	100
89) Benzo(k)fluoranthene	15.139	252	559704	46.467	ng	100
90) Benzo(a)pyrene	15.486	252	546539	48.835	ng	99
91) Dibenzo(a,h)anthracene	17.074	278	588742	50.339	ng	99
92) Benzo(g,h,i)perylene	17.521	276	599158	50.203	ng	99

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

[illegible]

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
 Data File : BF140534.D
 Acq On : 21 Nov 2024 13:51
 Operator : RC/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC060

Quant Time: Nov 21 15:14:21 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:50:10 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	126992	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	460987	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	252108	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	449876	20.000	ng	0.00
76) Chrysene-d12	14.051	240	226512	20.000	ng	0.00
86) Perylene-d12	15.539	264	216239	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	858529	115.348	ng	0.00
7) Phenol-d6	6.522	99	1119751	113.799	ng	0.00
23) Nitrobenzene-d5	7.445	82	1043537	115.789	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	317506	117.756	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	1875064	110.815	ng	0.00
79) Terphenyl-d14	12.992	244	1783980	122.638	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.651	88	172855	55.237	ng	100
3) Pyridine	3.422	79	414269	60.167	ng	97
4) n-Nitrosodimethylamine	3.398	42	240667	59.472	ng	99
6) Aniline	6.545	93	388609	56.111	ng	# 75
8) 2-Chlorophenol	6.669	128	460365	57.492	ng	99
9) Benzaldehyde	6.428	77	242020	46.462	ng	98
10) Phenol	6.539	94	567815	56.506	ng	97
11) bis(2-Chloroethyl)ether	6.616	93	457231	59.461	ng	99
12) 1,3-Dichlorobenzene	6.816	146	518683	57.647	ng	99
13) 1,4-Dichlorobenzene	6.892	146	522883	57.394	ng	99
14) 1,2-Dichlorobenzene	7.051	146	482402	56.509	ng	99
15) Benzyl Alcohol	7.022	79	415427	56.931	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.151	45	524697	57.758	ng	98
17) 2-Methylphenol	7.139	107	365400	57.006	ng	97
18) Hexachloroethane	7.386	117	194336	57.114	ng	100
19) n-Nitroso-di-n-propyla...	7.298	70	326639	56.169	ng	98
20) 3+4-Methylphenols	7.292	107	460654	55.912	ng	95
22) Acetophenone	7.292	105	636564	56.641	ng	98
24) Nitrobenzene	7.463	77	540526	58.030	ng	100
25) Isophorone	7.698	82	876972	58.340	ng	99
26) 2-Nitrophenol	7.775	139	249133	60.355	ng	100
27) 2,4-Dimethylphenol	7.816	122	285825	57.873	ng	98
28) bis(2-Chloroethoxy)met...	7.904	93	531210	58.008	ng	100
29) 2,4-Dichlorophenol	8.022	162	379082	57.925	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	431792	57.787	ng	100
31) Naphthalene	8.181	128	1359743	57.265	ng	99
32) Benzoic acid	7.969	122	265434	59.698	ng	99
33) 4-Chloroaniline	8.233	127	425356	59.831	ng	99
34) Hexachlorobutadiene	8.292	225	286614	57.911	ng	98
35) Caprolactam	8.622	113	117351	57.943	ng	99
36) 4-Chloro-3-methylphenol	8.722	107	424528	57.938	ng	99
37) 2-Methylnaphthalene	8.869	142	857509	56.857	ng	100
38) 1-Methylnaphthalene	8.969	142	841528	56.925	ng	99
40) 1,2,4,5-Tetrachloroben...	9.033	216	427164	57.878	ng	99
41) Hexachlorocyclopentadiene	9.016	237	97536	60.727	ng	98
43) 2,4,6-Trichlorophenol	9.151	196	272399	58.819	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
 Data File : BF140534.D
 Acq On : 21 Nov 2024 13:51
 Operator : RC/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC060

Quant Time: Nov 21 15:14:21 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:50:10 2024
 Response via : Initial Calibration

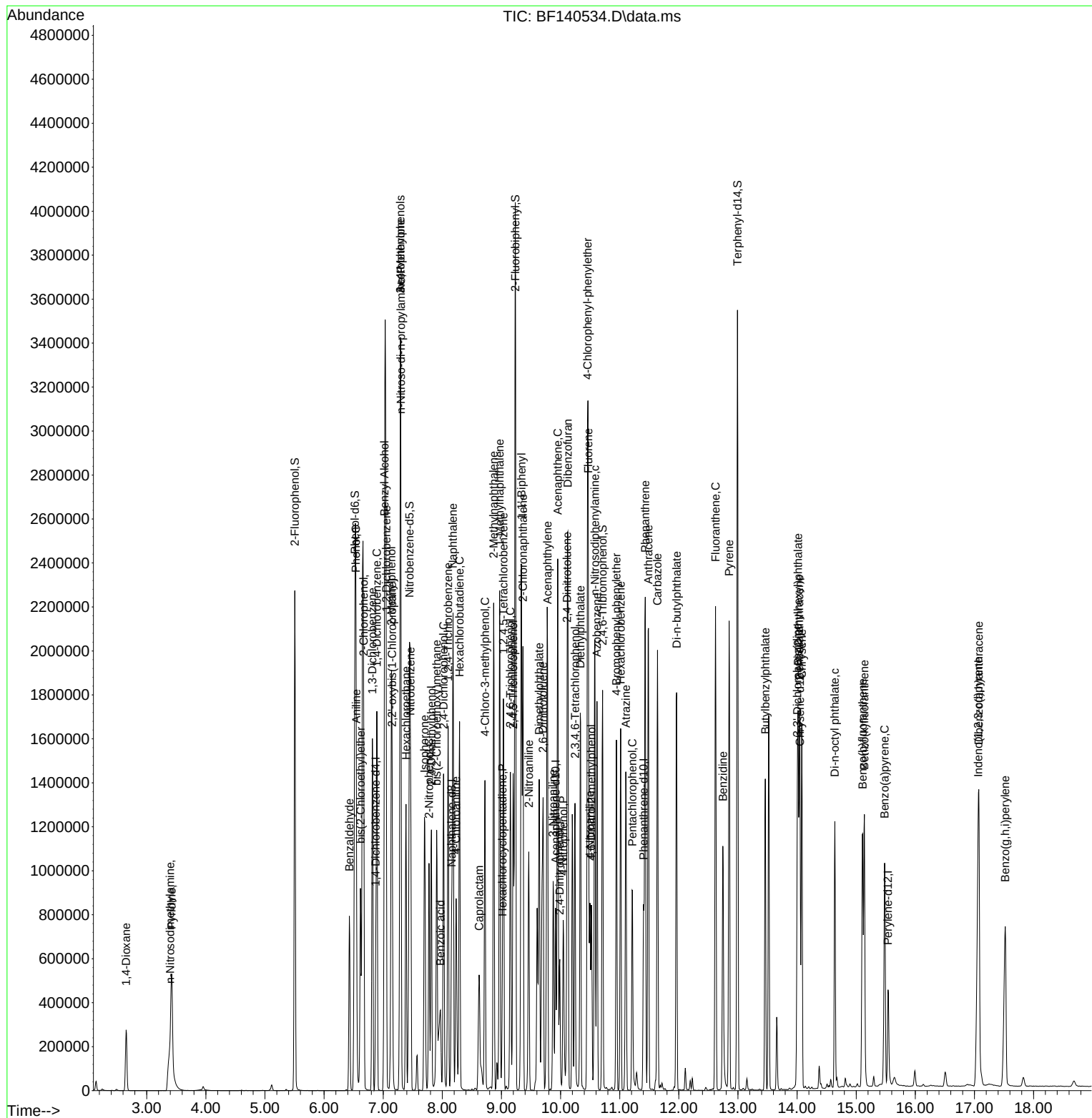
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	300029	59.694	ng	98
46) 1,1'-Biphenyl	9.339	154	1072474	56.978	ng	99
47) 2-Chloronaphthalene	9.363	162	819966	57.492	ng	99
48) 2-Nitroaniline	9.463	65	269813	58.938	ng	96
49) Acenaphthylene	9.780	152	1227568	56.965	ng	99
50) Dimethylphthalate	9.639	163	960589	57.854	ng	100
51) 2,6-Dinitrotoluene	9.704	165	221428	58.802	ng	99
52) Acenaphthene	9.951	154	784102	56.194	ng	100
53) 3-Nitroaniline	9.875	138	212165	57.607	ng	99
54) 2,4-Dinitrophenol	9.986	184	113495	60.328	ng	97
55) Dibenzofuran	10.122	168	1158263	55.459	ng	98
56) 4-Nitrophenol	10.045	139	161782	64.410	ng	96
57) 2,4-Dinitrotoluene	10.110	165	293950	58.735	ng	98
58) Fluorene	10.469	166	925678	55.218	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.245	232	230786	59.746	ng	97
60) Diethylphthalate	10.333	149	959366	56.869	ng	100
61) 4-Chlorophenyl-phenyle...	10.457	204	457757	55.641	ng	99
62) 4-Nitroaniline	10.498	138	233877	60.547	ng	98
63) Azobenzene	10.616	77	912145	57.097	ng	99
65) 4,6-Dinitro-2-methylph...	10.522	198	158199	68.815	ng	98
66) n-Nitrosodiphenylamine	10.580	169	783428	58.887	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	276260	59.628	ng	98
68) Hexachlorobenzene	11.016	284	317935	59.265	ng	99
69) Atrazine	11.104	200	264529	70.679	ng	100
70) Pentachlorophenol	11.216	266	162925	69.004	ng	99
71) Phenanthrene	11.433	178	1236004	57.156	ng	100
72) Anthracene	11.486	178	1220392	57.692	ng	99
73) Carbazole	11.639	167	1163411	57.171	ng	99
74) Di-n-butylphthalate	11.963	149	1359134	57.851	ng	100
75) Fluoranthene	12.621	202	1298953	55.323	ng	99
77) Benzidine	12.745	184	696576	105.771	ng	100
78) Pyrene	12.851	202	1289961	61.591	ng	100
80) Butylbenzylphthalate	13.463	149	458296	60.743	ng	98
81) Benzo(a)anthracene	14.039	228	909243	60.640	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	284725	63.247	ng	99
83) Chrysene	14.080	228	797151	58.142	ng	100
84) Bis(2-ethylhexyl)phtha...	14.015	149	571450	59.983	ng	100
85) Di-n-octyl phthalate	14.639	149	794359	61.012	ng	100
87) Indeno(1,2,3-cd)pyrene	17.062	276	914265	64.878	ng	98
88) Benzo(b)fluoranthene	15.109	252	782997	57.648	ng	99
89) Benzo(k)fluoranthene	15.139	252	684548	57.594	ng	100
90) Benzo(a)pyrene	15.480	252	657502	59.538	ng	99
91) Dibenzo(a,h)anthracene	17.074	278	745614	64.606	ng	99
92) Benzo(g,h,i)perylene	17.521	276	753452	63.978	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140534.D
Acq On : 21 Nov 2024 13:51
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Nov 21 15:14:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 14:50:10 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
 Data File : BF140535.D
 Acq On : 21 Nov 2024 14:18
 Operator : RC/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC080

Quant Time: Nov 21 15:15:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:50:10 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	111872	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	386311	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	207499	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	377113	20.000	ng	0.00
76) Chrysene-d12	14.057	240	187912	20.000	ng	0.00
86) Perylene-d12	15.539	264	185457	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	976816	148.979	ng	0.01
7) Phenol-d6	6.528	99	1259345	145.284	ng	0.01
23) Nitrobenzene-d5	7.451	82	1184453	156.830	ng	0.01
42) 2,4,6-Tribromophenol	10.710	330	350473	157.926	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	2050501	147.236	ng	0.00
79) Terphenyl-d14	12.992	244	1884646	156.171	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.663	88	213294	77.371	ng	100
3) Pyridine	3.434	79	504657	83.201	ng	98
4) n-Nitrosodimethylamine	3.416	42	295436	82.873	ng	99
6) Aniline	6.551	93	373764	61.261	ng	# 66
8) 2-Chlorophenol	6.675	128	512168	72.606	ng	97
10) Phenol	6.545	94	633910	71.609	ng	99
11) bis(2-Chloroethyl)ether	6.622	93	509142	75.160	ng	100
12) 1,3-Dichlorobenzene	6.822	146	576538	72.737	ng	99
13) 1,4-Dichlorobenzene	6.893	146	587901	73.253	ng	98
14) 1,2-Dichlorobenzene	7.051	146	541244	71.971	ng	99
15) Benzyl Alcohol	7.028	79	469135	72.980	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.151	45	571163	71.370	ng	89
17) 2-Methylphenol	7.140	107	412367	73.028	ng	97
18) Hexachloroethane	7.387	117	223281	74.489	ng	98
19) n-Nitroso-di-n-propyla...	7.304	70	370745	72.370	ng	97
20) 3+4-Methylphenols	7.298	107	516442	71.155	ng	91
22) Acetophenone	7.292	105	722622	76.727	ng	# 98
24) Nitrobenzene	7.469	77	605207	77.534	ng	98
25) Isophorone	7.704	82	981772	77.937	ng	100
26) 2-Nitrophenol	7.775	139	277762	80.298	ng	98
27) 2,4-Dimethylphenol	7.816	122	336239	81.241	ng	100
28) bis(2-Chloroethoxy)met...	7.904	93	591884	77.128	ng	100
29) 2,4-Dichlorophenol	8.022	162	418686	76.344	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	482134	76.997	ng	99
31) Naphthalene	8.181	128	1498520	75.309	ng	100
32) Benzoic acid	7.981	122	312770	81.021	ng	99
33) 4-Chloroaniline	8.239	127	446235	74.901	ng	99
34) Hexachlorobutadiene	8.292	225	315951	76.179	ng	99
35) Caprolactam	8.634	113	127641	75.207	ng	99
36) 4-Chloro-3-methylphenol	8.728	107	465184	75.759	ng	100
37) 2-Methylnaphthalene	8.869	142	949611	75.136	ng	100
38) 1-Methylnaphthalene	8.969	142	928964	74.987	ng	100
40) 1,2,4,5-Tetrachloroben...	9.039	216	468632	77.147	ng	100
41) Hexachlorocyclopentadiene	9.022	237	110015	80.520	ng	99
43) 2,4,6-Trichlorophenol	9.157	196	302826	79.446	ng	99
44) 2,4,5-Trichlorophenol	9.204	196	325549	78.696	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
 Data File : BF140535.D
 Acq On : 21 Nov 2024 14:18
 Operator : RC/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC080

Quant Time: Nov 21 15:15:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 14:50:10 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	9.339	154	1164092	75.141	ng	98
47) 2-Chloronaphthalene	9.363	162	905645	77.151	ng	100
48) 2-Nitroaniline	9.463	65	297813	79.040	ng	99
49) Acenaphthylene	9.781	152	1319777	74.411	ng	99
50) Dimethylphthalate	9.645	163	1041011	76.177	ng	100
51) 2,6-Dinitrotoluene	9.710	165	237697	76.693	ng	96
52) Acenaphthene	9.951	154	851353	74.130	ng	99
53) 3-Nitroaniline	9.881	138	217122	71.627	ng	95
54) 2,4-Dinitrophenol	9.986	184	127923	79.725	ng	98
55) Dibenzofuran	10.122	168	1252581	72.868	ng	98
56) 4-Nitrophenol	10.051	139	172406	83.396	ng	97
57) 2,4-Dinitrotoluene	10.116	165	314478	76.346	ng	96
58) Fluorene	10.469	166	1004537	72.805	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.245	232	258582	81.333	ng	97
60) Diethylphthalate	10.339	149	1023948	73.747	ng	99
61) 4-Chlorophenyl-phenyle...	10.457	204	496862	73.378	ng	98
62) 4-Nitroaniline	10.504	138	241223	75.874	ng	99
63) Azobenzene	10.616	77	978891	74.448	ng	99
65) 4,6-Dinitro-2-methylph...	10.528	198	170169	88.305	ng	98
66) n-Nitrosodiphenylamine	10.581	169	842038	75.504	ng	99
67) 4-Bromophenyl-phenylether	10.945	248	298430	76.842	ng	98
68) Hexachlorobenzene	11.016	284	349669	77.757	ng	98
69) Atrazine	11.110	200	298744	95.222	ng	99
70) Pentachlorophenol	11.216	266	177717	89.792	ng	99
71) Phenanthrene	11.433	178	1329366	73.334	ng	100
72) Anthracene	11.486	178	1295331	73.050	ng	100
73) Carbazole	11.639	167	1238730	72.617	ng	100
74) Di-n-butylphthalate	11.963	149	1458047	74.036	ng	100
75) Fluoranthene	12.622	202	1389485	70.598	ng	99
77) Benzidine	12.745	184	564372	103.300	ng	100
78) Pyrene	12.851	202	1352459	77.840	ng	100
80) Butylbenzylphthalate	13.463	149	481834	76.981	ng	99
81) Benzo(a)anthracene	14.045	228	933395	75.038	ng	99
82) 3,3'-Dichlorobenzidine	14.004	252	295857	79.219	ng	99
83) Chrysene	14.080	228	847578	74.518	ng	100
84) Bis(2-ethylhexyl)phtha...	14.016	149	598926	75.781	ng	100
85) Di-n-octyl phthalate	14.639	149	842600	78.011	ng	100
87) Indeno(1,2,3-cd)pyrene	17.062	276	973960	80.586	ng	100
88) Benzo(b)fluoranthene	15.104	252	866416	74.378	ng	99
89) Benzo(k)fluoranthene	15.139	252	726636	71.283	ng	100
90) Benzo(a)pyrene	15.480	252	710060	74.969	ng	99
91) Dibenzo(a,h)anthracene	17.074	278	789090	79.722	ng	99
92) Benzo(g,h,i)perylene	17.521	276	803570	79.559	ng	99

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

[illegible]

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
 Data File : BF140536.D
 Acq On : 21 Nov 2024 15:07
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

ICVBF112124

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 21 16:11:44 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Nov 21 15:23:48 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	106835	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	417612	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	239418	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	448820	20.000	ng	0.00
76) Chrysene-d12	14.057	240	266538	20.000	ng	0.00
86) Perylene-d12	15.551	264	215076	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	494717	79.009	ng	0.00
7) Phenol-d6	6.516	99	674309	81.459	ng	0.00
23) Nitrobenzene-d5	7.439	82	644226	78.907	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	204020	79.677	ng	0.00
45) 2-Fluorobiphenyl	9.227	172	1227501	76.390	ng	0.00
79) Terphenyl-d14	12.992	244	1291669	75.460	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.640	88	102768	39.036	ng	99
3) Pyridine	3.410	79	258925	44.701	ng	99
4) n-Nitrosodimethylamine	3.369	42	140208	41.184	ng	98
6) Aniline	6.539	93	274234	47.067	ng	91
8) 2-Chlorophenol	6.663	128	270746	40.191	ng	98
9) Benzaldehyde	6.428	77	161873	36.939	ng	99
10) Phenol	6.528	94	346860	41.030	ng	98
11) bis(2-Chloroethyl)ether	6.610	93	257441	39.796	ng	99
12) 1,3-Dichlorobenzene	6.816	146	300749	39.732	ng	99
13) 1,4-Dichlorobenzene	6.892	146	304030	39.668	ng	100
14) 1,2-Dichlorobenzene	7.045	146	283001	39.406	ng	98
15) Benzyl Alcohol	7.016	79	257787	41.993	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.145	45	314742	41.183	ng	93
17) 2-Methylphenol	7.133	107	224359	41.606	ng	98
18) Hexachloroethane	7.381	117	114809	40.108	ng	98
19) n-Nitroso-di-n-propyla...	7.286	70	205658	42.038	ng	99
20) 3+4-Methylphenols	7.286	107	287897	41.536	ng	98
22) Acetophenone	7.281	105	396692	38.963	ng	99
24) Nitrobenzene	7.457	77	330161	39.127	ng	99
25) Isophorone	7.692	82	549222	40.332	ng	99
26) 2-Nitrophenol	7.769	139	150969	40.372	ng	98
27) 2,4-Dimethylphenol	7.810	122	177031	39.568	ng	99
28) bis(2-Chloroethoxy)met...	7.898	93	331321	39.938	ng	100
29) 2,4-Dichlorophenol	8.016	162	236857	39.952	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	263327	38.901	ng	99
31) Naphthalene	8.175	128	842187	39.152	ng	99
32) Benzoic acid	7.939	122	156794	41.429	ng	98
33) 4-Chloroaniline	8.228	127	280483	43.551	ng	99
34) Hexachlorobutadiene	8.292	225	176676	39.406	ng	99
35) Caprolactam	8.604	113	74088	40.381	ng	94
36) 4-Chloro-3-methylphenol	8.716	107	266862	40.203	ng	99
37) 2-Methylnaphthalene	8.869	142	546332	39.987	ng	99
38) 1-Methylnaphthalene	8.969	142	531502	39.688	ng	99
40) 1,2,4,5-Tetrachloroben...	9.033	216	272114	38.824	ng	100
41) Hexachlorocyclopentadiene	9.016	237	52730	37.711	ng	97
43) 2,4,6-Trichlorophenol	9.151	196	173239	39.390	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
 Data File : BF140536.D
 Acq On : 21 Nov 2024 15:07
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

ICVBF112124

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/22/2024

Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 21 16:11:44 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Nov 21 15:23:48 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	192368	40.302	ng	99
46) 1,1'-Biphenyl	9.333	154	693007	38.769	ng	100
47) 2-Chloronaphthalene	9.357	162	530895	39.197	ng	100
48) 2-Nitroaniline	9.457	65	174060	40.037	ng	99
49) Acenaphthylene	9.774	152	795061	38.850	ng	99
50) Dimethylphthalate	9.633	163	624268	39.591	ng	99
51) 2,6-Dinitrotoluene	9.698	165	140739	39.356	ng	100
52) Acenaphthene	9.945	154	501631m	38.578	ng	
53) 3-Nitroaniline	9.874	138	143055	40.901	ng	96
54) 2,4-Dinitrophenol	9.980	184	58542	36.341	ng	99
55) Dibenzofuran	10.122	168	766460	38.644	ng	99
56) 4-Nitrophenol	10.039	139	100812	42.263	ng	99
57) 2,4-Dinitrotoluene	10.104	165	194980	41.025	ng	98
58) Fluorene	10.463	166	622708	39.115	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	153327	41.797	ng	97
60) Diethylphthalate	10.333	149	626046	39.078	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	308891	39.536	ng	99
62) 4-Nitroaniline	10.486	138	148087	40.369	ng	99
63) Azobenzene	10.616	77	597687	39.396	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	94340	41.134	ng	99
66) n-Nitrosodiphenylamine	10.574	169	513960	38.723	ng	99
67) 4-Bromophenyl-phenylether	10.945	248	180160	38.977	ng	99
68) Hexachlorobenzene	11.016	284	208589	38.974	ng	99
69) Atrazine	11.098	200	129353	34.643	ng	99
70) Pentachlorophenol	11.210	266	100767	42.779	ng	98
71) Phenanthrene	11.427	178	838392	38.861	ng	99
72) Anthracene	11.480	178	819442	38.829	ng	100
73) Carbazole	11.639	167	795975	39.207	ng	100
74) Di-n-butylphthalate	11.963	149	932026	39.765	ng	99
75) Fluoranthene	12.621	202	937019	40.002	ng	100
77) Benzidine	12.745	184	304946	39.351	ng	99
78) Pyrene	12.851	202	941890	38.219	ng	99
80) Butylbenzylphthalate	13.463	149	359930	40.542	ng	97
81) Benzo(a)anthracene	14.045	228	700865	39.723	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	217249	41.011	ng	99
83) Chrysene	14.080	228	635750	39.406	ng	99
84) Bis(2-ethylhexyl)phtha...	14.021	149	468853	41.823	ng	99
85) Di-n-octyl phthalate	14.645	149	673561	43.965	ng	99
87) Indeno(1,2,3-cd)pyrene	17.062	276	546567	38.995	ng	99
88) Benzo(b)fluoranthene	15.109	252	551853	40.850	ng	100
89) Benzo(k)fluoranthene	15.145	252	474176	40.110	ng	100
90) Benzo(a)pyrene	15.486	252	439811	40.041	ng	99
91) Dibenzo(a,h)anthracene	17.074	278	459746	40.052	ng	100
92) Benzo(g,h,i)perylene	17.521	276	463747	39.591	ng	99

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

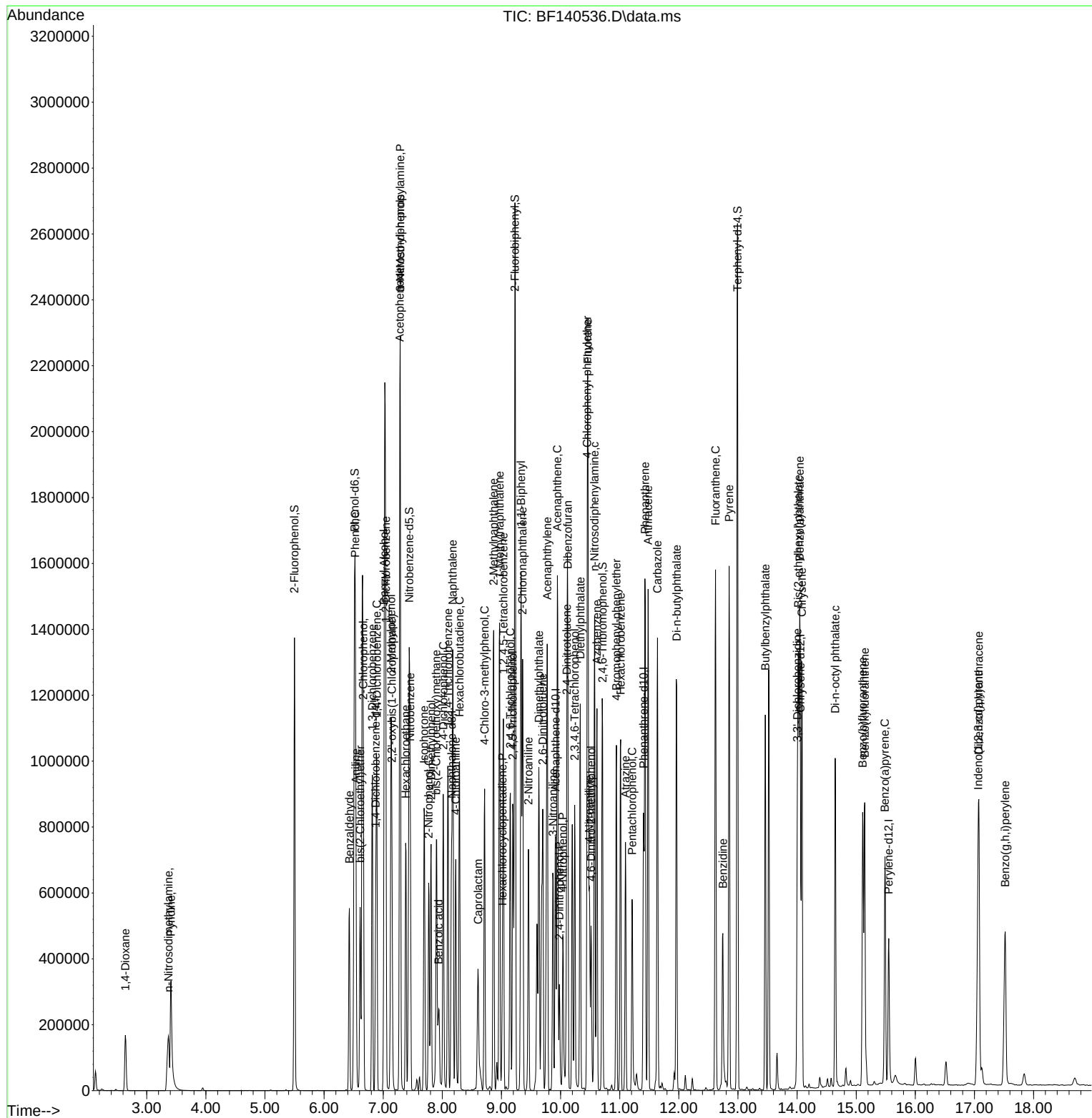
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\  
Data File : BF140536.D  
Acq On    : 21 Nov 2024   15:07  
Operator  : RC/JU  
Sample    : SSTDICV040  
Misc      :  
ALS Vial  : 11    Sample Multiplier: 1
```

Instrument :
BNA_F
ClientSampleId :
ICVBF112124

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 21 16:11:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 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	99	0.00
2	1,4-Dioxane	0.493	0.481	2.4	98	-0.01
3	Pyridine	1.084	1.212	-11.8	101	-0.01
4	n-Nitrosodimethylamine	0.637	0.656	-3.0	101	-0.01
5 S	2-Fluorophenol	1.172	1.158	1.2	98	0.00
6	Aniline	1.091	1.283	-17.6	102	0.00
7 S	Phenol-d6	1.550	1.578	-1.8	98	0.00
8	2-Chlorophenol	1.261	1.267	-0.5	98	0.00
9	Benzaldehyde	0.820	0.758	7.6	102	0.00
10 C	Phenol	1.583	1.623	-2.5	97	0.00
11	bis(2-Chloroethyl)ether	1.211	1.205	0.5	96	0.00
12	1,3-Dichlorobenzene	1.417	1.408	0.6	100	0.00
13 C	1,4-Dichlorobenzene	1.435	1.423	0.8	99	0.00
14	1,2-Dichlorobenzene	1.344	1.324	1.5	97	0.00
15	Benzyl Alcohol	1.149	1.206	-5.0	98	0.00
16	2,2'-oxybis(1-Chloropropane	1.431	1.473	-2.9	100	0.00
17	2-Methylphenol	1.009	1.050	-4.1	100	0.00
18	Hexachloroethane	0.536	0.537	-0.2	99	0.00
19 P	n-Nitroso-di-n-propylamine	0.916	0.963	-5.1	101	0.00
20	3+4-Methylphenols	1.298	1.347	-3.8	99	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	101	0.00
22	Acetophenone	0.488	0.475	2.7	100	0.00
23 S	Nitrobenzene-d5	0.391	0.386	1.3	99	0.00
24	Nitrobenzene	0.404	0.395	2.2	99	0.00
25	Isophorone	0.652	0.658	-0.9	100	0.00
26 C	2-Nitrophenol	0.179	0.181	-1.1	101	0.00
27	2,4-Dimethylphenol	0.214	0.212	0.9	95	0.00
28	bis(2-Chloroethoxy)methane	0.397	0.397	0.0	101	0.00
29 C	2,4-Dichlorophenol	0.284	0.284	0.0	102	0.00
30	1,2,4-Trichlorobenzene	0.324	0.315	2.8	101	0.00
31	Naphthalene	1.030	1.008	2.1	101	0.00
32	Benzoic acid	0.164	0.188	-14.6	107	0.00
33	4-Chloroaniline	0.308	0.336	-9.1	104	0.00
34 C	Hexachlorobutadiene	0.215	0.212	1.4	101	0.00
35	Caprolactam	0.088	0.089	-1.1	99	0.00
36 C	4-Chloro-3-methylphenol	0.318	0.320	-0.6	99	0.00
37	2-Methylnaphthalene	0.654	0.654	0.0	102	0.00
38	1-Methylnaphthalene	0.641	0.636	0.8	101	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00
40	1,2,4,5-Tetrachlorobenzene	0.586	0.568	3.1	103	0.00
41 P	Hexachlorocyclopentadiene	0.107	0.110	-2.8	99	0.00
42 S	2,4,6-Tribromophenol	0.214	0.213	0.5	101	0.00
43 C	2,4,6-Trichlorophenol	0.367	0.362	1.4	101	0.00
44	2,4,5-Trichlorophenol	0.399	0.402	-0.8	102	0.00
45 S	2-Fluorobiphenyl	1.342	1.282	4.5	101	0.00
46	1,1'-Biphenyl	1.493	1.447	3.1	102	0.00
47	2-Chloronaphthalene	1.131	1.109	1.9	102	0.00

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Quant Time: Nov 21 16:11:44 2024
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
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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	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	2-Nitroaniline	0.363	0.364	-0.3	101	0.00
49	Acenaphthylene	1.710	1.660	2.9	102	0.00
50	Dimethylphthalate	1.317	1.304	1.0	103	0.00
51	2,6-Dinitrotoluene	0.299	0.294	1.7	100	0.00
52 C	Acenaphthene	1.086	1.048	3.5	101	0.00
53	3-Nitroaniline	0.292	0.299	-2.4	102	0.00
54 P	2,4-Dinitrophenol	0.122	0.122	0.0	89	0.00
55	Dibenzofuran	1.657	1.601	3.4	101	0.00
56 P	4-Nitrophenol	0.199	0.211	-6.0	104	0.00
57	2,4-Dinitrotoluene	0.397	0.407	-2.5	103	0.00
58	Fluorene	1.330	1.300	2.3	103	0.00
59	2,3,4,6-Tetrachlorophenol	0.306	0.320	-4.6	105	0.00
60	Diethylphthalate	1.338	1.307	2.3	102	0.00
61	4-Chlorophenyl-phenylether	0.653	0.645	1.2	103	0.00
62	4-Nitroaniline	0.306	0.309	-1.0	101	0.00
63	Azobenzene	1.267	1.248	1.5	103	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	103	0.00
65	4,6-Dinitro-2-methylphenol	0.102	0.105	-2.9	98	0.00
66 c	n-Nitrosodiphenylamine	0.591	0.573	3.0	102	0.00
67	4-Bromophenyl-phenylether	0.206	0.201	2.4	103	0.00
68	Hexachlorobenzene	0.238	0.232	2.5	102	0.00
69	Atrazine	0.166	0.144	13.3	106	0.00
70 C	Pentachlorophenol	0.105	0.112	-6.7	99	0.00
71	Phenanthrene	0.961	0.934	2.8	101	0.00
72	Anthracene	0.940	0.913	2.9	101	0.00
73	Carbazole	0.905	0.887	2.0	102	0.00
74	Di-n-butylphthalate	1.044	1.038	0.6	104	0.00
75 C	Fluoranthene	1.044	1.044	0.0	106	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	111	0.00
77	Benzydine	0.581	0.572	1.5	111	0.00
78	Pyrene	1.849	1.767	4.4	106	0.00
79 S	Terphenyl-d14	1.284	1.212	5.6	105	0.00
80	Butylbenzylphthalate	0.666	0.675	-1.4	111	0.00
81	Benzo(a)anthracene	1.324	1.315	0.7	114	0.00
82	3,3'-Dichlorobenzidine	0.397	0.408	-2.8	110	0.00
83	Chrysene	1.211	1.193	1.5	111	0.00
84	Bis(2-ethylhexyl)phthalate	0.841	0.880	-4.6	118	0.00
85 c	Di-n-octyl phthalate	1.150	1.264	-9.9	124	0.01
86 I	Perylene-d12	1.000	1.000	0.0	102	0.01
87	Indeno(1,2,3-cd)pyrene	1.303	1.271	2.5	99	0.01
88	Benzo(b)fluoranthene	1.256	1.283	-2.1	110	0.00
89	Benzo(k)fluoranthene	1.099	1.102	-0.3	102	0.01
90 C	Benzo(a)pyrene	1.021	1.022	-0.1	103	0.01
91	Dibenzo(a,h)anthracene	1.067	1.069	-0.2	102	0.01
92	Benzo(g,h,i)perylene	1.089	1.078	1.0	101	0.01

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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	AvgRF	CCRF	%Dev Area	% Dev(min)

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
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 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	99	0.00
2	1,4-Dioxane	40.000	39.036	2.4	98	-0.01
3	Pyridine	40.000	44.701	-11.8	101	-0.01
4	n-Nitrosodimethylamine	40.000	41.184	-3.0	101	-0.01
5 S	2-Fluorophenol	80.000	79.009	1.2	98	0.00
6	Aniline	40.000	47.067	-17.7	102	0.00
7 S	Phenol-d6	80.000	81.459	-1.8	98	0.00
8	2-Chlorophenol	40.000	40.191	-0.5	98	0.00
9	Benzaldehyde	40.000	36.939	7.7	102	0.00
10 C	Phenol	40.000	41.030	-2.6	97	0.00
11	bis(2-Chloroethyl)ether	40.000	39.796	0.5	96	0.00
12	1,3-Dichlorobenzene	40.000	39.732	0.7	100	0.00
13 C	1,4-Dichlorobenzene	40.000	39.668	0.8	99	0.00
14	1,2-Dichlorobenzene	40.000	39.406	1.5	97	0.00
15	Benzyl Alcohol	40.000	41.993	-5.0	98	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	41.183	-3.0	100	0.00
17	2-Methylphenol	40.000	41.606	-4.0	100	0.00
18	Hexachloroethane	40.000	40.108	-0.3	99	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	42.038	-5.1	101	0.00
20	3+4-Methylphenols	40.000	41.536	-3.8	99	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	101	0.00
22	Acetophenone	40.000	38.963	2.6	100	0.00
23 S	Nitrobenzene-d5	80.000	78.907	1.4	99	0.00
24	Nitrobenzene	40.000	39.127	2.2	99	0.00
25	Isophorone	40.000	40.332	-0.8	100	0.00
26 C	2-Nitrophenol	40.000	40.372	-0.9	101	0.00
27	2,4-Dimethylphenol	40.000	39.568	1.1	95	0.00
28	bis(2-Chloroethoxy)methane	40.000	39.938	0.2	101	0.00
29 C	2,4-Dichlorophenol	40.000	39.952	0.1	102	0.00
30	1,2,4-Trichlorobenzene	40.000	38.901	2.7	101	0.00
31	Naphthalene	40.000	39.152	2.1	101	0.00
32	Benzoic acid	40.000	41.429	-3.6	107	0.00
33	4-Chloroaniline	40.000	43.551	-8.9	104	0.00
34 C	Hexachlorobutadiene	40.000	39.406	1.5	101	0.00
35	Caprolactam	40.000	40.381	-1.0	99	0.00
36 C	4-Chloro-3-methylphenol	40.000	40.203	-0.5	99	0.00
37	2-Methylnaphthalene	40.000	39.987	0.0	102	0.00
38	1-Methylnaphthalene	40.000	39.688	0.8	101	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	102	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	38.824	2.9	103	0.00
41 P	Hexachlorocyclopentadiene	40.000	37.711	5.7	99	0.00
42 S	2,4,6-Tribromophenol	80.000	79.677	0.4	101	0.00
43 C	2,4,6-Trichlorophenol	40.000	39.390	1.5	101	0.00
44	2,4,5-Trichlorophenol	40.000	40.302	-0.8	102	0.00
45 S	2-Fluorobiphenyl	80.000	76.390	4.5	101	0.00
46	1,1'-Biphenyl	40.000	38.769	3.1	102	0.00
47	2-Chloronaphthalene	40.000	39.197	2.0	102	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
 Data File : BF140536.D
 Acq On : 21 Nov 2024 15:07
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF112124

Quant Time: Nov 21 16:11:44 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 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	40.037	-0.1	101	0.00
49	Acenaphthylene	40.000	38.850	2.9	102	0.00
50	Dimethylphthalate	40.000	39.591	1.0	103	0.00
51	2,6-Dinitrotoluene	40.000	39.356	1.6	100	0.00
52 C	Acenaphthene	40.000	38.578	3.6	101	0.00
53	3-Nitroaniline	40.000	40.901	-2.3	102	0.00
54 P	2,4-Dinitrophenol	40.000	36.341	9.1	89	0.00
55	Dibenzofuran	40.000	38.644	3.4	101	0.00
56 P	4-Nitrophenol	40.000	42.263	-5.7	104	0.00
57	2,4-Dinitrotoluene	40.000	41.025	-2.6	103	0.00
58	Fluorene	40.000	39.115	2.2	103	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	41.797	-4.5	105	0.00
60	Diethylphthalate	40.000	39.078	2.3	102	0.00
61	4-Chlorophenyl-phenylether	40.000	39.536	1.2	103	0.00
62	4-Nitroaniline	40.000	40.369	-0.9	101	0.00
63	Azobenzene	40.000	39.396	1.5	103	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	103	0.00
65	4,6-Dinitro-2-methylphenol	40.000	41.134	-2.8	98	0.00
66 c	n-Nitrosodiphenylamine	40.000	38.723	3.2	102	0.00
67	4-Bromophenyl-phenylether	40.000	38.977	2.6	103	0.00
68	Hexachlorobenzene	40.000	38.974	2.6	102	0.00
69	Atrazine	40.000	34.643	13.4	106	0.00
70 C	Pentachlorophenol	40.000	42.779	-6.9	99	0.00
71	Phenanthrene	40.000	38.861	2.8	101	0.00
72	Anthracene	40.000	38.829	2.9	101	0.00
73	Carbazole	40.000	39.207	2.0	102	0.00
74	Di-n-butylphthalate	40.000	39.765	0.6	104	0.00
75 C	Fluoranthene	40.000	40.002	-0.0	106	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	111	0.00
77	Benzydine	40.000	39.351	1.6	111	0.00
78	Pyrene	40.000	38.219	4.5	106	0.00
79 S	Terphenyl-d14	80.000	75.460	5.7	105	0.00
80	Butylbenzylphthalate	40.000	40.542	-1.4	111	0.00
81	Benzo(a)anthracene	40.000	39.723	0.7	114	0.00
82	3,3'-Dichlorobenzidine	40.000	41.011	-2.5	110	0.00
83	Chrysene	40.000	39.406	1.5	111	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	41.823	-4.6	118	0.00
85 c	Di-n-octyl phthalate	40.000	43.965	-9.9	124	0.01
86 I	Perylene-d12	20.000	20.000	0.0	102	0.01
87	Indeno(1,2,3-cd)pyrene	40.000	38.995	2.5	99	0.01
88	Benzo(b)fluoranthene	40.000	40.850	-2.1	110	0.00
89	Benzo(k)fluoranthene	40.000	40.110	-0.3	102	0.01
90 C	Benzo(a)pyrene	40.000	40.041	-0.1	103	0.01
91	Dibenzo(a,h)anthracene	40.000	40.052	-0.1	102	0.01
92	Benzo(g,h,i)perylene	40.000	39.591	1.0	101	0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140536.D
Acq On : 21 Nov 2024 15:07
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF112124

Quant Time: Nov 21 16:11:44 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
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: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: BNA_F Calibration Date/Time: 11/18/2024 10:13

Lab File ID: BF140443.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.171	1.135		-3.1	
Benzaldehyde	0.951	0.765		-19.6	
Phenol-d6	1.587	1.499		-5.5	
Phenol	1.674	1.571		-6.2	20.0
bis(2-Chloroethyl)ether	1.268	1.213		-4.3	
2-Chlorophenol	1.258	1.220		-3.0	
2-Methylphenol	1.035	0.990		-4.3	
2,2-oxybis(1-Chloropropane)	1.752	1.612		-8.0	
Acetophenone	0.465	0.452		-2.8	
3+4-Methylphenols	1.295	1.212		-6.4	
n-Nitroso-di-n-propylamine	0.959	0.871	0.050	-9.2	
Nitrobenzene-d5	0.384	0.377		-1.8	
Hexachloroethane	0.520	0.516		-0.8	
Nitrobenzene	0.400	0.391		-2.3	
Isophorone	0.680	0.648		-4.7	
2-Nitrophenol	0.177	0.180		1.7	20.0
2,4-Dimethylphenol	0.227	0.223		-1.8	
bis(2-Chloroethoxy)methane	0.417	0.404		-3.1	
2,4-Dichlorophenol	0.281	0.280		-0.4	20.0
Naphthalene	1.015	0.999		-1.6	
4-Chloroaniline	0.353	0.324		-8.2	
Hexachlorobutadiene	0.199	0.203		2.0	20.0
Caprolactam	0.093	0.088		-5.4	
4-Chloro-3-methylphenol	0.311	0.303		-2.6	20.0
2-Methylnaphthalene	0.651	0.642		-1.4	
Hexachlorocyclopentadiene	0.142	0.127	0.050	-10.6	
2,4,6-Trichlorophenol	0.363	0.369		1.7	20.0
2-Fluorobiphenyl	1.244	1.230		-1.1	
2,4,5-Trichlorophenol	0.397	0.391		-1.5	
1,1-Biphenyl	1.455	1.449		-0.4	
2-Chloronaphthalene	1.108	1.094		-1.3	
2-Nitroaniline	0.368	0.354		-3.8	
Dimethylphthalate	1.304	1.279		-1.9	
Acenaphthylene	1.677	1.643		-2.0	
2,6-Dinitrotoluene	0.297	0.294		-1.0	
3-Nitroaniline	0.312	0.300		-3.8	
Acenaphthene	1.133	1.124		-0.8	20.0
2,4-Dinitrophenol	0.153	0.141	0.050	-7.8	
4-Nitrophenol	0.228	0.200	0.050	-12.7	



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: BNA_F Calibration Date/Time: 11/18/2024 10:13

Lab File ID: BF140443.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.603	1.577		-1.6	
2,4-Dinitrotoluene	0.391	0.386		-1.3	
Diethylphthalate	1.333	1.292		-3.1	
4-Chlorophenyl-phenylether	0.625	0.630		0.8	
Fluorene	1.267	1.233		-2.7	
4-Nitroaniline	0.319	0.299		-6.3	
4,6-Dinitro-2-methylphenol	0.108	0.114		5.6	
n-Nitrosodiphenylamine	0.578	0.582		0.7	20.0
2,4,6-Tribromophenol	0.199	0.197		-1.0	
4-Bromophenyl-phenylether	0.200	0.202		1.0	
Hexachlorobenzene	0.225	0.230		2.2	
Atrazine	0.175	0.151		-13.7	
Pentachlorophenol	0.121	0.114		-5.8	20.0
Phenanthrene	0.940	0.912		-3.0	
Anthracene	0.921	0.909		-1.3	
Carbazole	0.909	0.879		-3.3	
Di-n-butylphthalate	1.091	1.076		-1.4	
Fluoranthene	1.054	0.995		-5.6	20.0
Pyrene	1.711	1.930		12.8	
Terphenyl-d14	1.152	1.302		13.0	
Butylbenzylphthalate	0.657	0.725		10.4	
3,3-Dichlorobenzidine	0.418	0.399		-4.5	
Benzo (a) anthracene	1.314	1.317		0.2	
Chrysene	1.199	1.195		-0.3	
Bis(2-ethylhexyl)phthalate	0.877	0.911		3.9	
Di-n-octyl phthalate	1.235	1.195		-3.2	20.0
Benzo (b) fluoranthene	1.308	1.228		-6.1	
Benzo (k) fluoranthene	1.069	0.973		-9.0	
Benzo (a) pyrene	1.016	1.011		-0.5	20.0
Indeno (1,2,3-cd) pyrene	1.235	1.378		11.6	
Dibenzo (a,h) anthracene	1.021	1.147		12.3	
Benzo (g,h,i) perylene	1.044	1.170		12.1	
1,2,4,5-Tetrachlorobenzene	0.553	0.560		1.3	
1,4-Dioxane	0.522	0.509		-2.5	20.0
2,3,4,6-Tetrachlorophenol	0.313	0.303		-3.2	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
 Data File : BF140443.D
 Acq On : 18 Nov 2024 10:13
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :mohammad ahmed 11/19/2024

Quant Time: Nov 18 11:37:02 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 13 14:40:06 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	140634	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	521097	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	286394	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	525142	20.000	ng	0.00
76) Chrysene-d12	14.074	240	270046	20.000	ng	0.02
86) Perylene-d12	15.604	264	249102	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	638319	77.496	ng	0.01
7) Phenol-d6	6.516	99	843012	75.542	ng	0.01
23) Nitrobenzene-d5	7.439	82	785385	78.528	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	225738	79.263	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	1408678	79.070	ng	0.00
79) Terphenyl-d14	12.986	244	1406133	90.383	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.628	88	143292	39.032	ng	96
3) Pyridine	3.399	79	348471	38.611	ng	100
4) n-Nitrosodimethylamine	3.352	42	168851	37.018	ng	99
6) Aniline	6.540	93	363861	37.481	ng	# 64
8) 2-Chlorophenol	6.669	128	343150	38.783	ng	97
9) Benzaldehyde	6.428	77	215292	32.189	ng	98
10) Phenol	6.528	94	441884	37.548	ng	86
11) bis(2-Chloroethyl)ether	6.610	93	341224	38.266	ng	99
12) 1,3-Dichlorobenzene	6.816	146	379613	38.886	ng	98
13) 1,4-Dichlorobenzene	6.892	146	386525	39.048	ng	100
14) 1,2-Dichlorobenzene	7.045	146	364040	39.615	ng	99
15) Benzyl Alcohol	7.016	79	310961	38.676	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.145	45	453386	36.810	ng	69
17) 2-Methylphenol	7.134	107	278345	38.242	ng	96
18) Hexachloroethane	7.387	117	145087	39.647	ng	98
19) n-Nitroso-di-n-propyla...	7.287	70	244923	36.339	ng	99
20) 3+4-Methylphenols	7.287	107	340790	37.439	ng	91
22) Acetophenone	7.281	105	470620	38.831	ng	99
24) Nitrobenzene	7.457	77	407121	39.097	ng	99
25) Isophorone	7.692	82	675586	38.114	ng	99
26) 2-Nitrophenol	7.775	139	187633	40.605	ng	99
27) 2,4-Dimethylphenol	7.810	122	232626m	39.322	ng	
28) bis(2-Chloroethoxy)met...	7.904	93	421232	38.756	ng	100
29) 2,4-Dichlorophenol	8.022	162	291413	39.858	ng	98
30) 1,2,4-Trichlorobenzene	8.098	180	324307	39.841	ng	100
31) Naphthalene	8.181	128	1041653	39.405	ng	100
32) Benzoic acid	7.934	122	208320	40.018	ng	97
33) 4-Chloroaniline	8.228	127	337655	36.729	ng	98
34) Hexachlorobutadiene	8.292	225	211977	40.872	ng	100
35) Caprolactam	8.598	113	91546	37.673	ng	95
36) 4-Chloro-3-methylphenol	8.710	107	315617	38.954	ng	100
37) 2-Methylnaphthalene	8.869	142	669201	39.481	ng	99
38) 1-Methylnaphthalene	8.969	142	645996	38.919	ng	100
40) 1,2,4,5-Tetrachloroben...	9.034	216	320662	40.489	ng	100
41) Hexachlorocyclopentadiene	9.016	237	72545	35.676	ng	100
43) 2,4,6-Trichlorophenol	9.151	196	211418	40.677	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
 Data File : BF140443.D
 Acq On : 18 Nov 2024 10:13
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/19/2024

Supervised By :mohammad ahmed 11/19/2024

Quant Time: Nov 18 11:37:02 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 13 14:40:06 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	224161	39.448	ng	98
46) 1,1'-Biphenyl	9.334	154	829809	39.827	ng	100
47) 2-Chloronaphthalene	9.357	162	626357	39.465	ng	98
48) 2-Nitroaniline	9.457	65	202579	38.487	ng	100
49) Acenaphthylene	9.775	152	941266	39.198	ng	100
50) Dimethylphthalate	9.633	163	732412	39.235	ng	99
51) 2,6-Dinitrotoluene	9.698	165	168580	39.613	ng	98
52) Acenaphthene	9.945	154	643806	39.694	ng	100
53) 3-Nitroaniline	9.869	138	172098	38.507	ng	99
54) 2,4-Dinitrophenol	9.981	184	80840	36.836	ng	95
55) Dibenzofuran	10.122	168	903341	39.344	ng	100
56) 4-Nitrophenol	10.039	139	114271	35.053	ng	98
57) 2,4-Dinitrotoluene	10.104	165	221225	39.498	ng	100
58) Fluorene	10.463	166	706184	38.934	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	173421	38.651	ng	99
60) Diethylphthalate	10.333	149	739883	38.761	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	360602	40.270	ng	98
62) 4-Nitroaniline	10.480	138	171365	37.500	ng	99
63) Azobenzene	10.616	77	728065	38.603	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	119536	42.308	ng	94
66) n-Nitrosodiphenylamine	10.575	169	611089	40.274	ng	100
67) 4-Bromophenyl-phenylether	10.945	248	211737	40.336	ng	99
68) Hexachlorobenzene	11.010	284	241253	40.847	ng	100
69) Atrazine	11.098	200	158192	34.460	ng	99
70) Pentachlorophenol	11.210	266	119881	37.680	ng	99
71) Phenanthrene	11.427	178	957984	38.834	ng	100
72) Anthracene	11.480	178	954854	39.494	ng	99
73) Carbazole	11.633	167	923126	38.669	ng	100
74) Di-n-butylphthalate	11.957	149	1129667	39.427	ng	100
75) Fluoranthene	12.616	202	1044851	37.753	ng	100
77) Benzidine	12.739	184	326503	31.502	ng	99
78) Pyrene	12.851	202	1042297	45.123	ng	100
80) Butylbenzylphthalate	13.463	149	391627	44.135	ng	98
81) Benzo(a)anthracene	14.063	228	711153	40.069	ng	99
82) 3,3'-Dichlorobenzidine	14.021	252	215430	38.189	ng	99
83) Chrysene	14.098	228	645188	39.842	ng	98
84) Bis(2-ethylhexyl)phtha...	14.039	149	492062	41.545	ng	99
85) Di-n-octyl phthalate	14.698	149	645377	38.689	ng	99
87) Indeno(1,2,3-cd)pyrene	17.121	276	686446	44.610	ng	100
88) Benzo(b)fluoranthene	15.163	252	611733	37.541	ng	99
89) Benzo(k)fluoranthene	15.192	252	484925	36.428	ng	99
90) Benzo(a)pyrene	15.539	252	503863	39.818	ng	99
91) Dibenzo(a,h)anthracene	17.139	278	571350	44.920	ng	100
92) Benzo(g,h,i)perylene	17.580	276	582904	44.827	ng	100

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

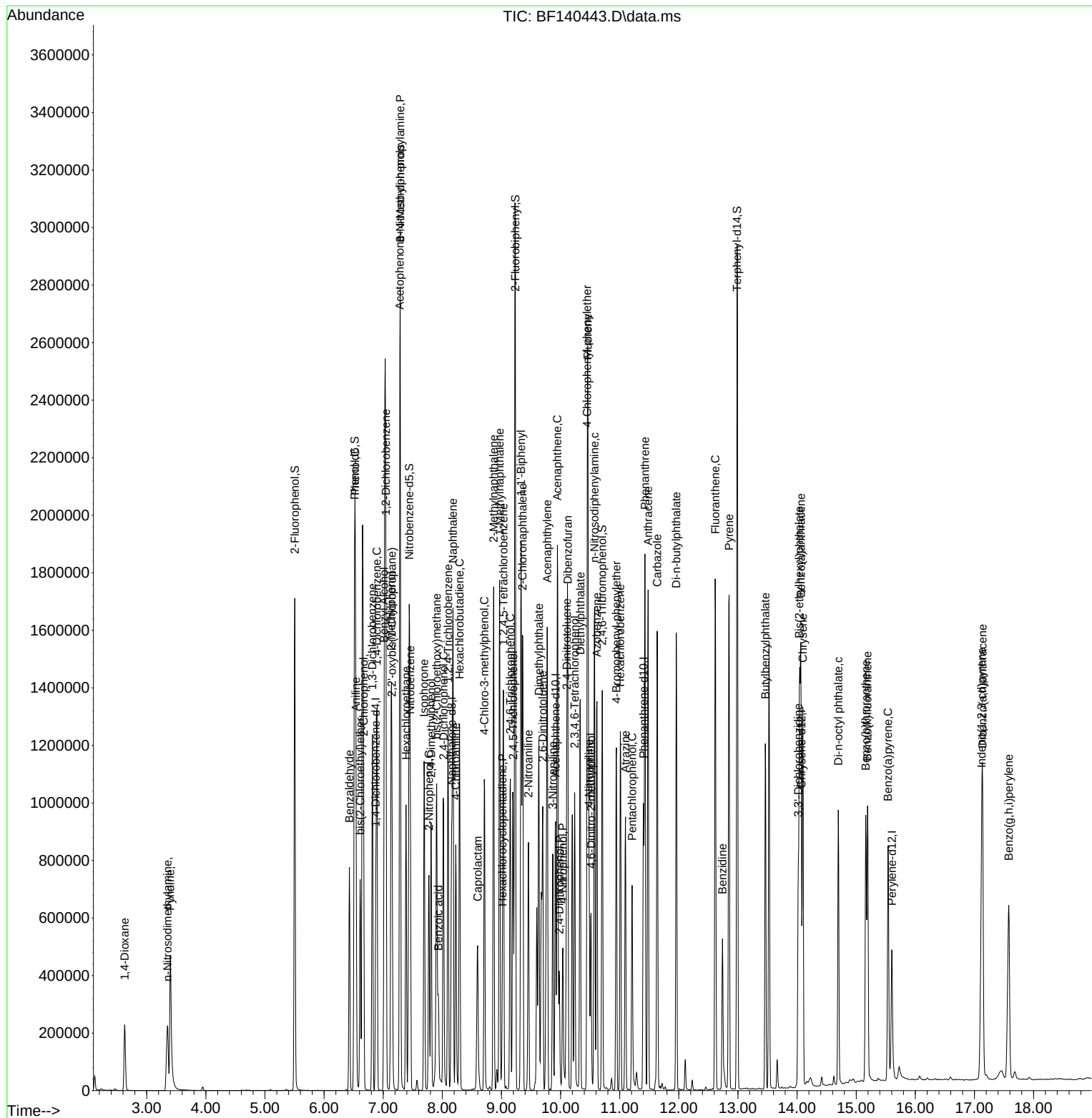
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140443.D
Acq On : 18 Nov 2024 10:13
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :mohammad ahmed 11/19/2024

Quant Time: Nov 18 11:37:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
 Data File : BF140443.D
 Acq On : 18 Nov 2024 10:13
 Operator : RC/JU
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Instrument :
 BNA_F
 LabSampleId :
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Quant Time: Nov 18 11:37:02 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 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	96	0.00
2	1,4-Dioxane	0.522	0.509	2.5	95	0.00
3	Pyridine	1.283	1.239	3.4	90	0.00
4	n-Nitrosodimethylamine	0.649	0.600	7.6	87	0.00
5 S	2-Fluorophenol	1.171	1.135	3.1	94	0.01
6	Aniline	1.381	1.294	6.3	85	0.00
7 S	Phenol-d6	1.587	1.499	5.5	89	0.01
8	2-Chlorophenol	1.258	1.220	3.0	92	0.00
9	Benzaldehyde	0.951	0.765	19.6	82	0.00
10 C	Phenol	1.674	1.571	6.2	87	0.00
11	bis(2-Chloroethyl)ether	1.268	1.213	4.3	92	0.00
12	1,3-Dichlorobenzene	1.388	1.350	2.7	94	0.00
13 C	1,4-Dichlorobenzene	1.408	1.374	2.4	94	0.00
14	1,2-Dichlorobenzene	1.307	1.294	1.0	96	0.00
15	Benzyl Alcohol	1.143	1.106	3.2	87	0.00
16	2,2'-oxybis(1-Chloropropane	1.752	1.612	8.0	85	0.00
17	2-Methylphenol	1.035	0.990	4.3	89	0.00
18	Hexachloroethane	0.520	0.516	0.8	96	0.00
19 P	n-Nitroso-di-n-propylamine	0.959	0.871	9.2	85	0.00
20	3+4-Methylphenols	1.294	1.212	6.3	86	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	88	0.00
22	Acetophenone	0.465	0.452	2.8	89	0.00
23 S	Nitrobenzene-d5	0.384	0.377	1.8	89	0.00
24	Nitrobenzene	0.400	0.391	2.3	88	0.00
25	Isophorone	0.680	0.648	4.7	85	0.00
26 C	2-Nitrophenol	0.177	0.180	-1.7	89	0.00
27	2,4-Dimethylphenol	0.227	0.223	1.8	89	0.00
28	bis(2-Chloroethoxy)methane	0.417	0.404	3.1	88	0.00
29 C	2,4-Dichlorophenol	0.281	0.280	0.4	90	0.00
30	1,2,4-Trichlorobenzene	0.312	0.311	0.3	91	0.00
31	Naphthalene	1.015	0.999	1.6	90	0.00
32	Benzoic acid	0.200	0.200	0.0	84	0.00
33	4-Chloroaniline	0.353	0.324	8.2	84	0.00
34 C	Hexachlorobutadiene	0.199	0.203	-2.0	93	0.00
35	Caprolactam	0.093	0.088	5.4	85	0.00
36 C	4-Chloro-3-methylphenol	0.311	0.303	2.6	87	0.00
37	2-Methylnaphthalene	0.651	0.642	1.4	90	0.00
38	1-Methylnaphthalene	0.637	0.620	2.7	88	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	86	0.00
40	1,2,4,5-Tetrachlorobenzene	0.553	0.560	-1.3	90	0.00
41 P	Hexachlorocyclopentadiene	0.142	0.127	10.6	78	0.00
42 S	2,4,6-Tribromophenol	0.199	0.197	1.0	88	0.00
43 C	2,4,6-Trichlorophenol	0.363	0.369	-1.7	88	0.00
44	2,4,5-Trichlorophenol	0.397	0.391	1.5	86	0.01
45 S	2-Fluorobiphenyl	1.244	1.230	1.1	90	0.00
46	1,1'-Biphenyl	1.455	1.449	0.4	88	0.00
47	2-Chloronaphthalene	1.108	1.094	1.3	88	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
 Data File : BF140443.D
 Acq On : 18 Nov 2024 10:13
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 18 11:37:02 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 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	0.368	0.354	3.8	83	0.00
49	Acenaphthylene	1.677	1.643	2.0	86	0.00
50	Dimethylphthalate	1.304	1.279	1.9	87	0.00
51	2,6-Dinitrotoluene	0.297	0.294	1.0	85	0.00
52 C	Acenaphthene	1.133	1.124	0.8	88	0.00
53	3-Nitroaniline	0.312	0.300	3.8	83	0.00
54 P	2,4-Dinitrophenol	0.153	0.141	7.8	82	0.00
55	Dibenzofuran	1.603	1.577	1.6	87	0.00
56 P	4-Nitrophenol	0.228	0.199	12.7	72	0.02
57	2,4-Dinitrotoluene	0.391	0.386	1.3	85	0.00
58	Fluorene	1.267	1.233	2.7	88	0.00
59	2,3,4,6-Tetrachlorophenol	0.313	0.303	3.2	82	0.00
60	Diethylphthalate	1.333	1.292	3.1	86	0.00
61	4-Chlorophenyl-phenylether	0.625	0.630	-0.8	89	0.00
62	4-Nitroaniline	0.319	0.299	6.3	80	0.00
63	Azobenzene	1.317	1.271	3.5	84	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	84	0.00
65	4,6-Dinitro-2-methylphenol	0.108	0.114	-5.6	87	0.00
66 c	n-Nitrosodiphenylamine	0.578	0.582	-0.7	87	0.00
67	4-Bromophenyl-phenylether	0.200	0.202	-1.0	87	0.00
68	Hexachlorobenzene	0.225	0.230	-2.2	88	0.00
69	Atrazine	0.175	0.151	13.7	87	0.00
70 C	Pentachlorophenol	0.121	0.114	5.8	75	0.00
71	Phenanthrene	0.940	0.912	3.0	84	0.00
72	Anthracene	0.921	0.909	1.3	85	0.00
73	Carbazole	0.909	0.879	3.3	84	0.00
74	Di-n-butylphthalate	1.091	1.076	1.4	84	0.00
75 C	Fluoranthene	1.054	0.995	5.6	82	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	70	0.02
77	Benzidine	0.768	0.605	21.2	65	0.00
78	Pyrene	1.711	1.930	-12.8	80	0.00
79 S	Terphenyl-d14	1.152	1.302	-13.0	81	0.00
80	Butylbenzylphthalate	0.657	0.725	-10.4	74	0.00
81	Benzo(a)anthracene	1.314	1.317	-0.2	73	0.02
82	3,3'-Dichlorobenzidine	0.418	0.399	4.5	69	0.02
83	Chrysene	1.199	1.195	0.3	72	0.02
84	Bis(2-ethylhexyl)phthalate	0.877	0.911	-3.9	69	0.02
85 c	Di-n-octyl phthalate	1.235	1.195	3.2	65	0.04
86 I	Perylene-d12	1.000	1.000	0.0	77	0.05
87	Indeno(1,2,3-cd)pyrene	1.235	1.378	-11.6	85	0.06
88	Benzo(b)fluoranthene	1.308	1.228	6.1	75	0.05
89	Benzo(k)fluoranthene	1.069	0.973	9.0	71	0.04
90 C	Benzo(a)pyrene	1.016	1.011	0.5	78	0.05
91	Dibenzo(a,h)anthracene	1.021	1.147	-12.3	85	0.06
92	Benzo(g,h,i)perylene	1.044	1.170	-12.1	85	0.06

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140443.D
Acq On : 18 Nov 2024 10:13
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 18 11:37:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
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_F\Data\BF111824\
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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	96	0.00
2	1,4-Dioxane	40.000	39.032	2.4	95	0.00
3	Pyridine	40.000	38.611	3.5	90	0.00
4	n-Nitrosodimethylamine	40.000	37.018	7.5	87	0.00
5 S	2-Fluorophenol	80.000	77.496	3.1	94	0.01
6	Aniline	40.000	37.481	6.3	85	0.00
7 S	Phenol-d6	80.000	75.542	5.6	89	0.01
8	2-Chlorophenol	40.000	38.783	3.0	92	0.00
9	Benzaldehyde	40.000	32.189	19.5	82	0.00
10 C	Phenol	40.000	37.548	6.1	87	0.00
11	bis(2-Chloroethyl)ether	40.000	38.266	4.3	92	0.00
12	1,3-Dichlorobenzene	40.000	38.886	2.8	94	0.00
13 C	1,4-Dichlorobenzene	40.000	39.048	2.4	94	0.00
14	1,2-Dichlorobenzene	40.000	39.615	1.0	96	0.00
15	Benzyl Alcohol	40.000	38.676	3.3	87	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	36.810	8.0	85	0.00
17	2-Methylphenol	40.000	38.242	4.4	89	0.00
18	Hexachloroethane	40.000	39.647	0.9	96	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	36.339	9.2	85	0.00
20	3+4-Methylphenols	40.000	37.439	6.4	86	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	88	0.00
22	Acetophenone	40.000	38.831	2.9	89	0.00
23 S	Nitrobenzene-d5	80.000	78.528	1.8	89	0.00
24	Nitrobenzene	40.000	39.097	2.3	88	0.00
25	Isophorone	40.000	38.114	4.7	85	0.00
26 C	2-Nitrophenol	40.000	40.605	-1.5	89	0.00
27	2,4-Dimethylphenol	40.000	39.322	1.7	89	0.00
28	bis(2-Chloroethoxy)methane	40.000	38.756	3.1	88	0.00
29 C	2,4-Dichlorophenol	40.000	39.858	0.4	90	0.00
30	1,2,4-Trichlorobenzene	40.000	39.841	0.4	91	0.00
31	Naphthalene	40.000	39.405	1.5	90	0.00
32	Benzoic acid	40.000	40.018	-0.0	84	0.00
33	4-Chloroaniline	40.000	36.729	8.2	84	0.00
34 C	Hexachlorobutadiene	40.000	40.872	-2.2	93	0.00
35	Caprolactam	40.000	37.673	5.8	85	0.00
36 C	4-Chloro-3-methylphenol	40.000	38.954	2.6	87	0.00
37	2-Methylnaphthalene	40.000	39.481	1.3	90	0.00
38	1-Methylnaphthalene	40.000	38.919	2.7	88	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	86	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	40.489	-1.2	90	0.00
41 P	Hexachlorocyclopentadiene	40.000	35.676	10.8	78	0.00
42 S	2,4,6-Tribromophenol	80.000	79.263	0.9	88	0.00
43 C	2,4,6-Trichlorophenol	40.000	40.677	-1.7	88	0.00
44	2,4,5-Trichlorophenol	40.000	39.448	1.4	86	0.01
45 S	2-Fluorobiphenyl	80.000	79.070	1.2	90	0.00
46	1,1'-Biphenyl	40.000	39.827	0.4	88	0.00
47	2-Chloronaphthalene	40.000	39.465	1.3	88	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
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 Misc :
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Quant Time: Nov 18 11:37:02 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 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	38.487	3.8	83	0.00
49	Acenaphthylene	40.000	39.198	2.0	86	0.00
50	Dimethylphthalate	40.000	39.235	1.9	87	0.00
51	2,6-Dinitrotoluene	40.000	39.613	1.0	85	0.00
52 C	Acenaphthene	40.000	39.694	0.8	88	0.00
53	3-Nitroaniline	40.000	38.507	3.7	83	0.00
54 P	2,4-Dinitrophenol	40.000	36.836	7.9	82	0.00
55	Dibenzofuran	40.000	39.344	1.6	87	0.00
56 P	4-Nitrophenol	40.000	35.053	12.4	72	0.02
57	2,4-Dinitrotoluene	40.000	39.498	1.3	85	0.00
58	Fluorene	40.000	38.934	2.7	88	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	38.651	3.4	82	0.00
60	Diethylphthalate	40.000	38.761	3.1	86	0.00
61	4-Chlorophenyl-phenylether	40.000	40.270	-0.7	89	0.00
62	4-Nitroaniline	40.000	37.500	6.3	80	0.00
63	Azobenzene	40.000	38.603	3.5	84	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	84	0.00
65	4,6-Dinitro-2-methylphenol	40.000	42.308	-5.8	87	0.00
66 c	n-Nitrosodiphenylamine	40.000	40.274	-0.7	87	0.00
67	4-Bromophenyl-phenylether	40.000	40.336	-0.8	87	0.00
68	Hexachlorobenzene	40.000	40.847	-2.1	88	0.00
69	Atrazine	40.000	34.460	13.8	87	0.00
70 C	Pentachlorophenol	40.000	37.680	5.8	75	0.00
71	Phenanthrene	40.000	38.834	2.9	84	0.00
72	Anthracene	40.000	39.494	1.3	85	0.00
73	Carbazole	40.000	38.669	3.3	84	0.00
74	Di-n-butylphthalate	40.000	39.427	1.4	84	0.00
75 C	Fluoranthene	40.000	37.753	5.6	82	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	70	0.02
77	Benzydine	40.000	31.502	21.2	65	0.00
78	Pyrene	40.000	45.123	-12.8	80	0.00
79 S	Terphenyl-d14	80.000	90.383	-13.0	81	0.00
80	Butylbenzylphthalate	40.000	44.135	-10.3	74	0.00
81	Benzo(a)anthracene	40.000	40.069	-0.2	73	0.02
82	3,3'-Dichlorobenzidine	40.000	38.189	4.5	69	0.02
83	Chrysene	40.000	39.842	0.4	72	0.02
84	Bis(2-ethylhexyl)phthalate	40.000	41.545	-3.9	69	0.02
85 c	Di-n-octyl phthalate	40.000	38.689	3.3	65	0.04
86 I	Perylene-d12	20.000	20.000	0.0	77	0.05
87	Indeno(1,2,3-cd)pyrene	40.000	44.610	-11.5	85	0.06
88	Benzo(b)fluoranthene	40.000	37.541	6.1	75	0.05
89	Benzo(k)fluoranthene	40.000	36.428	8.9	71	0.04
90 C	Benzo(a)pyrene	40.000	39.818	0.5	78	0.05
91	Dibenzo(a,h)anthracene	40.000	44.920	-12.3	85	0.06
92	Benzo(g,h,i)perylene	40.000	44.827	-12.1	85	0.06

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140443.D
Acq On : 18 Nov 2024 10:13
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
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Quant Time: Nov 18 11:37:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
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: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: BNA_F Calibration Date/Time: 11/22/2024 09:20

Lab File ID: BF140564.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.172	1.136		-3.1	
Benzaldehyde	0.820	0.737		-10.1	
Phenol-d6	1.550	1.480		-4.5	
Phenol	1.583	1.539		-2.8	20.0
bis(2-Chloroethyl)ether	1.211	1.155		-4.6	
2-Chlorophenol	1.261	1.212		-3.9	
2-Methylphenol	1.010	0.974		-3.6	
2,2-oxybis(1-Chloropropane)	1.431	1.379		-3.6	
Acetophenone	0.488	0.472		-3.3	
3+4-Methylphenols	1.298	1.249		-3.8	
n-Nitroso-di-n-propylamine	0.916	0.888	0.050	-3.1	
Nitrobenzene-d5	0.391	0.381		-2.6	
Hexachloroethane	0.536	0.518		-3.4	
Nitrobenzene	0.404	0.391		-3.2	
Isophorone	0.652	0.640		-1.8	
2-Nitrophenol	0.179	0.176		-1.7	20.0
2,4-Dimethylphenol	0.214	0.219		2.3	
bis(2-Chloroethoxy)methane	0.397	0.396		-0.3	
2,4-Dichlorophenol	0.284	0.281		-1.1	20.0
Naphthalene	1.030	1.010		-1.9	
4-Chloroaniline	0.308	0.302		-1.9	
Hexachlorobutadiene	0.215	0.216		0.5	20.0
Caprolactam	0.088	0.087		-1.1	
4-Chloro-3-methylphenol	0.318	0.316		-0.6	20.0
2-Methylnaphthalene	0.654	0.649		-0.8	
Hexachlorocyclopentadiene	0.107	0.121	0.050	13.1	
2,4,6-Trichlorophenol	0.367	0.365		-0.5	20.0
2-Fluorobiphenyl	1.342	1.316		-1.9	
2,4,5-Trichlorophenol	0.399	0.398		-0.3	
1,1-Biphenyl	1.493	1.460		-2.2	
2-Chloronaphthalene	1.131	1.105		-2.3	
2-Nitroaniline	0.363	0.355		-2.2	
Dimethylphthalate	1.317	1.297		-1.5	
Acenaphthylene	1.710	1.667		-2.5	
2,6-Dinitrotoluene	0.299	0.295		-1.3	
3-Nitroaniline	0.292	0.286		-2.1	
Acenaphthene	1.086	1.062		-2.2	20.0
2,4-Dinitrophenol	0.122	0.142	0.050	16.4	
4-Nitrophenol	0.199	0.195	0.050	-2.0	



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: BNA_F Calibration Date/Time: 11/22/2024 09:20

Lab File ID: BF140564.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.657	1.608		-3.0	
2,4-Dinitrotoluene	0.397	0.395		-0.5	
Diethylphthalate	1.338	1.329		-0.7	
4-Chlorophenyl-phenylether	0.653	0.646		-1.1	
Fluorene	1.330	1.293		-2.8	
4-Nitroaniline	0.306	0.301		-1.6	
4,6-Dinitro-2-methylphenol	0.102	0.114		11.8	
n-Nitrosodiphenylamine	0.591	0.578		-2.2	20.0
2,4,6-Tribromophenol	0.214	0.214		0.0	
4-Bromophenyl-phenylether	0.206	0.211		2.4	
Hexachlorobenzene	0.238	0.238		0.0	
Atrazine	0.166	0.170		2.4	
Pentachlorophenol	0.105	0.117		11.4	20.0
Phenanthrene	0.961	0.927		-3.5	
Anthracene	0.940	0.929		-1.2	
Carbazole	0.905	0.889		-1.8	
Di-n-butylphthalate	1.044	1.085		3.9	
Fluoranthene	1.044	1.051		0.7	20.0
Pyrene	1.849	1.694		-8.4	
Terphenyl-d14	1.284	1.206		-6.1	
Butylbenzylphthalate	0.666	0.682		2.4	
3,3-Dichlorobenzidine	0.397	0.386		-2.8	
Benzo (a) anthracene	1.324	1.267		-4.3	
Chrysene	1.211	1.189		-1.8	
Bis(2-ethylhexyl)phthalate	0.841	0.931		10.7	
Di-n-octyl phthalate	1.150	1.357		18.0	20.0
Benzo (b) fluoranthene	1.256	1.395		11.1	
Benzo (k) fluoranthene	1.099	1.080		-1.7	
Benzo (a) pyrene	1.021	1.024		0.3	20.0
Indeno (1,2,3-cd) pyrene	1.303	1.194		-8.4	
Dibenzo (a,h) anthracene	1.067	1.005		-5.8	
Benzo (g,h,i) perylene	1.089	0.991		-9.0	
1,2,4,5-Tetrachlorobenzene	0.586	0.573		-2.2	
1,4-Dioxane	0.493	0.481		-2.4	20.0
2,3,4,6-Tetrachlorophenol	0.306	0.324		5.9	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
 Data File : BF140564.D
 Acq On : 22 Nov 2024 09:20
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

Quant Time: Nov 22 10:52:08 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	98979	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	364482	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	206333	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	385080	20.000	ng	0.00
76) Chrysene-d12	14.051	240	243124	20.000	ng	0.00
86) Perylene-d12	15.539	264	183783	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	449862	77.548	ng	0.00
7) Phenol-d6	6.510	99	585888	76.395	ng	0.00
23) Nitrobenzene-d5	7.440	82	555186	77.913	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	176575	80.016	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	1086436	78.452	ng	0.00
79) Terphenyl-d14	12.986	244	1172885	75.119	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.652	88	95142	39.008	ng	99
3) Pyridine	3.416	79	220718	41.129	ng	98
4) n-Nitrosodimethylamine	3.375	42	121887	38.644	ng	99
6) Aniline	6.534	93	218576	40.492	ng	93
8) 2-Chlorophenol	6.663	128	239993	38.454	ng	96
9) Benzaldehyde	6.422	77	145818	35.916	ng	99
10) Phenol	6.528	94	304655	38.898	ng	99
11) bis(2-Chloroethyl)ether	6.610	93	228554	38.134	ng	99
12) 1,3-Dichlorobenzene	6.810	146	269803	38.473	ng	99
13) 1,4-Dichlorobenzene	6.887	146	271832	38.282	ng	99
14) 1,2-Dichlorobenzene	7.045	146	256890	38.609	ng	100
15) Benzyl Alcohol	7.016	79	223719	39.336	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.145	45	273030	38.561	ng	85
17) 2-Methylphenol	7.128	107	192886	38.608	ng	97
18) Hexachloroethane	7.381	117	102589	38.683	ng	98
19) n-Nitroso-di-n-propyla...	7.287	70	175786	38.784	ng	98
20) 3+4-Methylphenols	7.281	107	247253	38.504	ng	97
22) Acetophenone	7.281	105	343958	38.708	ng	99
24) Nitrobenzene	7.457	77	284668	38.653	ng	99
25) Isophorone	7.692	82	466575	39.257	ng	100
26) 2-Nitrophenol	7.769	139	128651	39.419	ng	99
27) 2,4-Dimethylphenol	7.810	122	159540	40.856	ng	98
28) bis(2-Chloroethoxy)met...	7.898	93	288381	39.829	ng	100
29) 2,4-Dichlorophenol	8.016	162	205005	39.620	ng	98
30) 1,2,4-Trichlorobenzene	8.092	180	233698	39.557	ng	99
31) Naphthalene	8.175	128	736487	39.229	ng	99
32) Benzoic acid	7.934	122	133561	40.607	ng	99
33) 4-Chloroaniline	8.228	127	219861	39.114	ng	100
34) Hexachlorobutadiene	8.287	225	157302	40.199	ng	99
35) Caprolactam	8.598	113	63576	39.703	ng	98
36) 4-Chloro-3-methylphenol	8.710	107	230419	39.773	ng	100
37) 2-Methylnaphthalene	8.863	142	473317	39.693	ng	100
38) 1-Methylnaphthalene	8.963	142	463045	39.616	ng	100
40) 1,2,4,5-Tetrachloroben...	9.034	216	236415	39.139	ng	99
41) Hexachlorocyclopentadiene	9.016	237	49770	40.607	ng	96
43) 2,4,6-Trichlorophenol	9.145	196	150477	39.701	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
 Data File : BF140564.D
 Acq On : 22 Nov 2024 09:20
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

Quant Time: Nov 22 10:52:08 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 Response via : Initial Calibration

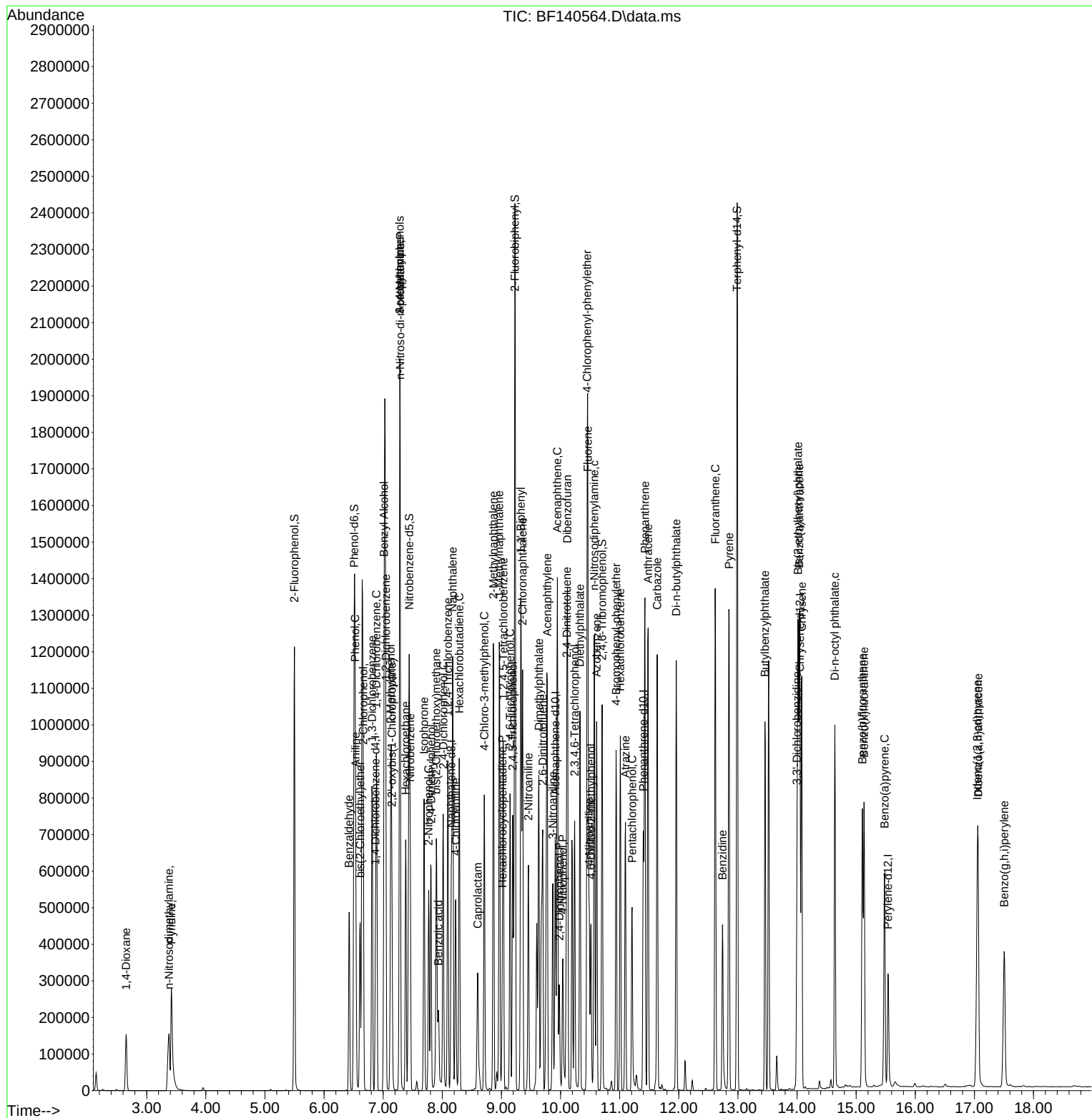
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	164121	39.898	ng	98
46) 1,1'-Biphenyl	9.328	154	602649	39.120	ng	99
47) 2-Chloronaphthalene	9.357	162	456006	39.066	ng	99
48) 2-Nitroaniline	9.457	65	146702	39.155	ng	97
49) Acenaphthylene	9.775	152	687948	39.007	ng	99
50) Dimethylphthalate	9.633	163	535148	39.381	ng	99
51) 2,6-Dinitrotoluene	9.698	165	121734	39.500	ng	95
52) Acenaphthene	9.945	154	438247	39.108	ng	99
53) 3-Nitroaniline	9.869	138	118121	39.187	ng	97
54) 2,4-Dinitrophenol	9.981	184	58446	40.859	ng	95
55) Dibenzofuran	10.116	168	663674	38.827	ng	99
56) 4-Nitrophenol	10.039	139	80448	39.134	ng	95
57) 2,4-Dinitrotoluene	10.104	165	163170	39.837	ng	98
58) Fluorene	10.463	166	533455	38.881	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	133738	42.303	ng	95
60) Diethylphthalate	10.328	149	548595	39.734	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	266684	39.607	ng	99
62) 4-Nitroaniline	10.486	138	124175	39.279	ng	97
63) Azobenzene	10.610	77	511643	39.132	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	87531	44.482	ng	96
66) n-Nitrosodiphenylamine	10.569	169	445172	39.092	ng	100
67) 4-Bromophenyl-phenylether	10.939	248	162227	40.907	ng	98
68) Hexachlorobenzene	11.010	284	183520	39.966	ng	98
69) Atrazine	11.098	200	131071	40.913	ng	99
70) Pentachlorophenol	11.210	266	90374	44.717	ng	99
71) Phenanthrene	11.428	178	713621	38.552	ng	100
72) Anthracene	11.480	178	715801	39.532	ng	100
73) Carbazole	11.633	167	685005	39.326	ng	100
74) Di-n-butylphthalate	11.957	149	835919	41.568	ng	99
75) Fluoranthene	12.616	202	809661	40.287	ng	99
77) Benzidine	12.739	184	284179	40.202	ng	99
78) Pyrene	12.851	202	823809	36.647	ng	99
80) Butylbenzylphthalate	13.457	149	331503	40.936	ng	97
81) Benzo(a)anthracene	14.039	228	616069	38.280	ng	99
82) 3,3'-Dichlorobenzidine	13.998	252	187746	38.855	ng	98
83) Chrysene	14.080	228	578175	39.289	ng	99
84) Bis(2-ethylhexyl)phtha...	14.016	149	452759	44.277	ng	100
85) Di-n-octyl phthalate	14.639	149	659978	47.227	ng	99
87) Indeno(1,2,3-cd)pyrene	17.051	276	439044	36.657	ng	99
88) Benzo(b)fluoranthene	15.104	252	512765	44.420	ng	100
89) Benzo(k)fluoranthene	15.133	252	396860	39.286	ng	100
90) Benzo(a)pyrene	15.480	252	376344	40.097	ng	100
91) Dibenzo(a,h)anthracene	17.062	278	369510	37.672	ng	99
92) Benzo(g,h,i)perylene	17.504	276	364420	36.409	ng	99

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

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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\  
Data File : BF140564.D  
Acq On    : 22 Nov 2024 09:20  
Operator  : RC/JU  
Sample    : SSTDCCC040  
Misc      :  
ALS Vial  : 2    Sample Multiplier: 1
```

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Nov 22 10:52:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
 Data File : BF140564.D
 Acq On : 22 Nov 2024 09:20
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 22 10:52:08 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 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	92	0.00
2	1,4-Dioxane	0.493	0.481	2.4	90	0.00
3	Pyridine	1.084	1.115	-2.9	86	0.00
4	n-Nitrosodimethylamine	0.637	0.616	3.3	87	0.00
5 S	2-Fluorophenol	1.172	1.136	3.1	89	0.00
6	Aniline	1.091	1.104	-1.2	81	0.00
7 S	Phenol-d6	1.550	1.480	4.5	85	0.00
8	2-Chlorophenol	1.261	1.212	3.9	87	0.00
9	Benzaldehyde	0.820	0.737	10.1	92	0.00
10 C	Phenol	1.583	1.539	2.8	85	0.00
11	bis(2-Chloroethyl)ether	1.211	1.155	4.6	85	0.00
12	1,3-Dichlorobenzene	1.417	1.363	3.8	90	0.00
13 C	1,4-Dichlorobenzene	1.435	1.373	4.3	89	0.00
14	1,2-Dichlorobenzene	1.344	1.298	3.4	88	0.00
15	Benzyl Alcohol	1.149	1.130	1.7	85	0.00
16	2,2'-oxybis(1-Chloropropane	1.431	1.379	3.6	87	0.00
17	2-Methylphenol	1.009	0.974	3.5	86	0.00
18	Hexachloroethane	0.536	0.518	3.4	89	0.00
19 P	n-Nitroso-di-n-propylamine	0.916	0.888	3.1	86	0.00
20	3+4-Methylphenols	1.298	1.249	3.8	85	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	88	0.00
22	Acetophenone	0.488	0.472	3.3	86	0.00
23 S	Nitrobenzene-d5	0.391	0.381	2.6	86	0.00
24	Nitrobenzene	0.404	0.391	3.2	86	0.00
25	Isophorone	0.652	0.640	1.8	85	0.00
26 C	2-Nitrophenol	0.179	0.176	1.7	86	0.00
27	2,4-Dimethylphenol	0.214	0.219	-2.3	86	0.00
28	bis(2-Chloroethoxy)methane	0.397	0.396	0.3	88	0.00
29 C	2,4-Dichlorophenol	0.284	0.281	1.1	88	0.00
30	1,2,4-Trichlorobenzene	0.324	0.321	0.9	89	0.00
31	Naphthalene	1.030	1.010	1.9	88	0.00
32	Benzoic acid	0.164	0.183	-11.6	91	0.00
33	4-Chloroaniline	0.308	0.302	1.9	82	0.00
34 C	Hexachlorobutadiene	0.215	0.216	-0.5	90	0.00
35	Caprolactam	0.088	0.087	1.1	85	0.00
36 C	4-Chloro-3-methylphenol	0.318	0.316	0.6	85	0.00
37	2-Methylnaphthalene	0.654	0.649	0.8	88	0.00
38	1-Methylnaphthalene	0.641	0.635	0.9	88	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	88	0.00
40	1,2,4,5-Tetrachlorobenzene	0.586	0.573	2.2	90	0.00
41 P	Hexachlorocyclopentadiene	0.107	0.121	-13.1	93	0.00
42 S	2,4,6-Tribromophenol	0.214	0.214	0.0	87	0.00
43 C	2,4,6-Trichlorophenol	0.367	0.365	0.5	88	0.00
44	2,4,5-Trichlorophenol	0.399	0.398	0.3	87	0.00
45 S	2-Fluorobiphenyl	1.342	1.316	1.9	90	0.00
46	1,1'-Biphenyl	1.493	1.460	2.2	89	0.00
47	2-Chloronaphthalene	1.131	1.105	2.3	88	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
 Data File : BF140564.D
 Acq On : 22 Nov 2024 09:20
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 22 10:52:08 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 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	0.363	0.355	2.2	85	0.00
49	Acenaphthylene	1.710	1.667	2.5	88	0.00
50	Dimethylphthalate	1.317	1.297	1.5	88	0.00
51	2,6-Dinitrotoluene	0.299	0.295	1.3	86	0.00
52 C	Acenaphthene	1.086	1.062	2.2	88	0.00
53	3-Nitroaniline	0.292	0.286	2.1	84	0.00
54 P	2,4-Dinitrophenol	0.122	0.142	-16.4	89	0.00
55	Dibenzofuran	1.657	1.608	3.0	87	0.00
56 P	4-Nitrophenol	0.199	0.195	2.0	83	0.00
57	2,4-Dinitrotoluene	0.397	0.395	0.5	86	0.00
58	Fluorene	1.330	1.293	2.8	88	0.00
59	2,3,4,6-Tetrachlorophenol	0.306	0.324	-5.9	91	0.00
60	Diethylphthalate	1.338	1.329	0.7	89	0.00
61	4-Chlorophenyl-phenylether	0.653	0.646	1.1	89	0.00
62	4-Nitroaniline	0.306	0.301	1.6	85	0.00
63	Azobenzene	1.267	1.240	2.1	88	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	88	0.00
65	4,6-Dinitro-2-methylphenol	0.102	0.114	-11.8	91	0.00
66 c	n-Nitrosodiphenylamine	0.591	0.578	2.2	88	0.00
67	4-Bromophenyl-phenylether	0.206	0.211	-2.4	93	0.00
68	Hexachlorobenzene	0.238	0.238	0.0	90	0.00
69	Atrazine	0.166	0.170	-2.4	107	0.00
70 C	Pentachlorophenol	0.105	0.117	-11.4	89	0.00
71	Phenanthrene	0.961	0.927	3.5	86	0.00
72	Anthracene	0.940	0.929	1.2	88	0.00
73	Carbazole	0.905	0.889	1.8	88	0.00
74	Di-n-butylphthalate	1.044	1.085	-3.9	93	0.00
75 C	Fluoranthene	1.044	1.051	-0.7	91	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	102	0.00
77	Benزيدine	0.581	0.584	-0.5	103	0.00
78	Pyrene	1.849	1.694	8.4	93	0.00
79 S	Terphenyl-d14	1.284	1.206	6.1	96	0.00
80	Butylbenzylphthalate	0.666	0.682	-2.4	102	0.00
81	Benzo(a)anthracene	1.324	1.267	4.3	100	0.00
82	3,3'-Dichlorobenzidine	0.397	0.386	2.8	95	0.00
83	Chrysene	1.211	1.189	1.8	101	0.00
84	Bis(2-ethylhexyl)phthalate	0.841	0.931	-10.7	114	0.00
85 c	Di-n-octyl phthalate	1.150	1.357	-18.0	122	0.00
86 I	Perylene-d12	1.000	1.000	0.0	87	0.00
87	Indeno(1,2,3-cd)pyrene	1.303	1.194	8.4	80	0.00
88	Benzo(b)fluoranthene	1.256	1.395	-11.1	102	0.00
89	Benzo(k)fluoranthene	1.099	1.080	1.7	85	0.00
90 C	Benzo(a)pyrene	1.021	1.024	-0.3	88	0.00
91	Dibenzo(a,h)anthracene	1.067	1.005	5.8	82	0.00
92	Benzo(g,h,i)perylene	1.089	0.991	9.0	79	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140564.D
Acq On : 22 Nov 2024 09:20
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 22 10:52:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
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_F\Data\BF112224\
 Data File : BF140564.D
 Acq On : 22 Nov 2024 09:20
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 22 10:52:08 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 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	92	0.00
2	1,4-Dioxane	40.000	39.008	2.5	90	0.00
3	Pyridine	40.000	41.129	-2.8	86	0.00
4	n-Nitrosodimethylamine	40.000	38.644	3.4	87	0.00
5 S	2-Fluorophenol	80.000	77.548	3.1	89	0.00
6	Aniline	40.000	40.492	-1.2	81	0.00
7 S	Phenol-d6	80.000	76.395	4.5	85	0.00
8	2-Chlorophenol	40.000	38.454	3.9	87	0.00
9	Benzaldehyde	40.000	35.916	10.2	92	0.00
10 C	Phenol	40.000	38.898	2.8	85	0.00
11	bis(2-Chloroethyl)ether	40.000	38.134	4.7	85	0.00
12	1,3-Dichlorobenzene	40.000	38.473	3.8	90	0.00
13 C	1,4-Dichlorobenzene	40.000	38.282	4.3	89	0.00
14	1,2-Dichlorobenzene	40.000	38.609	3.5	88	0.00
15	Benzyl Alcohol	40.000	39.336	1.7	85	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	38.561	3.6	87	0.00
17	2-Methylphenol	40.000	38.608	3.5	86	0.00
18	Hexachloroethane	40.000	38.683	3.3	89	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	38.784	3.0	86	0.00
20	3+4-Methylphenols	40.000	38.504	3.7	85	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	88	0.00
22	Acetophenone	40.000	38.708	3.2	86	0.00
23 S	Nitrobenzene-d5	80.000	77.913	2.6	86	0.00
24	Nitrobenzene	40.000	38.653	3.4	86	0.00
25	Isophorone	40.000	39.257	1.9	85	0.00
26 C	2-Nitrophenol	40.000	39.419	1.5	86	0.00
27	2,4-Dimethylphenol	40.000	40.856	-2.1	86	0.00
28	bis(2-Chloroethoxy)methane	40.000	39.829	0.4	88	0.00
29 C	2,4-Dichlorophenol	40.000	39.620	1.0	88	0.00
30	1,2,4-Trichlorobenzene	40.000	39.557	1.1	89	0.00
31	Naphthalene	40.000	39.229	1.9	88	0.00
32	Benzoic acid	40.000	40.607	-1.5	91	0.00
33	4-Chloroaniline	40.000	39.114	2.2	82	0.00
34 C	Hexachlorobutadiene	40.000	40.199	-0.5	90	0.00
35	Caprolactam	40.000	39.703	0.7	85	0.00
36 C	4-Chloro-3-methylphenol	40.000	39.773	0.6	85	0.00
37	2-Methylnaphthalene	40.000	39.693	0.8	88	0.00
38	1-Methylnaphthalene	40.000	39.616	1.0	88	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	88	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	39.139	2.2	90	0.00
41 P	Hexachlorocyclopentadiene	40.000	40.607	-1.5	93	0.00
42 S	2,4,6-Tribromophenol	80.000	80.016	-0.0	87	0.00
43 C	2,4,6-Trichlorophenol	40.000	39.701	0.7	88	0.00
44	2,4,5-Trichlorophenol	40.000	39.898	0.3	87	0.00
45 S	2-Fluorobiphenyl	80.000	78.452	1.9	90	0.00
46	1,1'-Biphenyl	40.000	39.120	2.2	89	0.00
47	2-Chloronaphthalene	40.000	39.066	2.3	88	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
 Data File : BF140564.D
 Acq On : 22 Nov 2024 09:20
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 22 10:52:08 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 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	39.155	2.1	85	0.00
49	Acenaphthylene	40.000	39.007	2.5	88	0.00
50	Dimethylphthalate	40.000	39.381	1.5	88	0.00
51	2,6-Dinitrotoluene	40.000	39.500	1.3	86	0.00
52 C	Acenaphthene	40.000	39.108	2.2	88	0.00
53	3-Nitroaniline	40.000	39.187	2.0	84	0.00
54 P	2,4-Dinitrophenol	40.000	40.859	-2.1	89	0.00
55	Dibenzofuran	40.000	38.827	2.9	87	0.00
56 P	4-Nitrophenol	40.000	39.134	2.2	83	0.00
57	2,4-Dinitrotoluene	40.000	39.837	0.4	86	0.00
58	Fluorene	40.000	38.881	2.8	88	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	42.303	-5.8	91	0.00
60	Diethylphthalate	40.000	39.734	0.7	89	0.00
61	4-Chlorophenyl-phenylether	40.000	39.607	1.0	89	0.00
62	4-Nitroaniline	40.000	39.279	1.8	85	0.00
63	Azobenzene	40.000	39.132	2.2	88	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	88	0.00
65	4,6-Dinitro-2-methylphenol	40.000	44.482	-11.2	91	0.00
66 c	n-Nitrosodiphenylamine	40.000	39.092	2.3	88	0.00
67	4-Bromophenyl-phenylether	40.000	40.907	-2.3	93	0.00
68	Hexachlorobenzene	40.000	39.966	0.1	90	0.00
69	Atrazine	40.000	40.913	-2.3	107	0.00
70 C	Pentachlorophenol	40.000	44.717	-11.8	89	0.00
71	Phenanthrene	40.000	38.552	3.6	86	0.00
72	Anthracene	40.000	39.532	1.2	88	0.00
73	Carbazole	40.000	39.326	1.7	88	0.00
74	Di-n-butylphthalate	40.000	41.568	-3.9	93	0.00
75 C	Fluoranthene	40.000	40.287	-0.7	91	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	102	0.00
77	Benzydine	40.000	40.202	-0.5	103	0.00
78	Pyrene	40.000	36.647	8.4	93	0.00
79 S	Terphenyl-d14	80.000	75.119	6.1	96	0.00
80	Butylbenzylphthalate	40.000	40.936	-2.3	102	0.00
81	Benzo(a)anthracene	40.000	38.280	4.3	100	0.00
82	3,3'-Dichlorobenzidine	40.000	38.855	2.9	95	0.00
83	Chrysene	40.000	39.289	1.8	101	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	44.277	-10.7	114	0.00
85 c	Di-n-octyl phthalate	40.000	47.227	-18.1	122	0.00
86 I	Perylene-d12	20.000	20.000	0.0	87	0.00
87	Indeno(1,2,3-cd)pyrene	40.000	36.657	8.4	80	0.00
88	Benzo(b)fluoranthene	40.000	44.420	-11.1	102	0.00
89	Benzo(k)fluoranthene	40.000	39.286	1.8	85	0.00
90 C	Benzo(a)pyrene	40.000	40.097	-0.2	88	0.00
91	Dibenzo(a,h)anthracene	40.000	37.672	5.8	82	0.00
92	Benzo(g,h,i)perylene	40.000	36.409	9.0	79	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140564.D
Acq On : 22 Nov 2024 09:20
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 22 10:52:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
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: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: BNA_F Calibration Date/Time: 11/25/2024 15:49

Lab File ID: BF140604.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.172	1.153		-1.6	
Benzaldehyde	0.820	0.848		3.4	
Phenol-d6	1.550	1.521		-1.9	
Phenol	1.583	1.580		-0.2	20.0
bis(2-Chloroethyl)ether	1.211	1.199		-1.0	
2-Chlorophenol	1.261	1.217		-3.5	
2-Methylphenol	1.010	1.019		0.9	
2,2-oxybis(1-Chloropropane)	1.431	1.429		-0.1	
Acetophenone	0.488	0.464		-4.9	
3+4-Methylphenols	1.298	1.259		-3.0	
n-Nitroso-di-n-propylamine	0.916	0.876	0.050	-4.4	
Nitrobenzene-d5	0.391	0.378		-3.3	
Hexachloroethane	0.536	0.521		-2.8	
Nitrobenzene	0.404	0.392		-3.0	
Isophorone	0.652	0.640		-1.8	
2-Nitrophenol	0.179	0.180		0.6	20.0
2,4-Dimethylphenol	0.214	0.224		4.7	
bis(2-Chloroethoxy)methane	0.397	0.393		-1.0	
2,4-Dichlorophenol	0.284	0.284		0.0	20.0
Naphthalene	1.030	1.014		-1.6	
4-Chloroaniline	0.308	0.335		8.8	
Hexachlorobutadiene	0.215	0.210		-2.3	20.0
Caprolactam	0.088	0.088		0.0	
4-Chloro-3-methylphenol	0.318	0.313		-1.6	20.0
2-Methylnaphthalene	0.654	0.641		-2.0	
Hexachlorocyclopentadiene	0.107	0.106	0.050	-0.9	
2,4,6-Trichlorophenol	0.367	0.358		-2.5	20.0
2-Fluorobiphenyl	1.342	1.282		-4.5	
2,4,5-Trichlorophenol	0.399	0.395		-1.0	
1,1-Biphenyl	1.493	1.467		-1.7	
2-Chloronaphthalene	1.131	1.111		-1.8	
2-Nitroaniline	0.363	0.351		-3.3	
Dimethylphthalate	1.317	1.260		-4.3	
Acenaphthylene	1.710	1.672		-2.2	
2,6-Dinitrotoluene	0.299	0.296		-1.0	
3-Nitroaniline	0.292	0.283		-3.1	
Acenaphthene	1.086	1.050		-3.3	20.0
2,4-Dinitrophenol	0.122	0.123	0.050	0.8	
4-Nitrophenol	0.199	0.174	0.050	-12.6	



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: BNA_F Calibration Date/Time: 11/25/2024 15:49

Lab File ID: BF140604.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.657	1.581		-4.6	
2,4-Dinitrotoluene	0.397	0.389		-2.0	
Diethylphthalate	1.338	1.281		-4.3	
4-Chlorophenyl-phenylether	0.653	0.627		-4.0	
Fluorene	1.330	1.276		-4.1	
4-Nitroaniline	0.306	0.293		-4.2	
4,6-Dinitro-2-methylphenol	0.102	0.109		6.9	
n-Nitrosodiphenylamine	0.591	0.583		-1.4	20.0
2,4,6-Tribromophenol	0.214	0.206		-3.7	
4-Bromophenyl-phenylether	0.206	0.205		-0.5	
Hexachlorobenzene	0.238	0.236		-0.8	
Atrazine	0.166	0.164		-1.2	
Pentachlorophenol	0.105	0.106		1.0	20.0
Phenanthrene	0.961	0.943		-1.9	
Anthracene	0.940	0.931		-1.0	
Carbazole	0.905	0.887		-2.0	
Di-n-butylphthalate	1.044	1.030		-1.3	
Fluoranthene	1.044	1.007		-3.5	20.0
Pyrene	1.849	1.851		0.1	
Terphenyl-d14	1.284	1.258		-2.0	
Butylbenzylphthalate	0.666	0.676		1.5	
3,3-Dichlorobenzidine	0.397	0.401		1.0	
Benzo (a) anthracene	1.324	1.285		-2.9	
Chrysene	1.211	1.210		-0.1	
Bis(2-ethylhexyl)phthalate	0.841	0.846		0.6	
Di-n-octyl phthalate	1.150	1.150		0.0	20.0
Benzo (b) fluoranthene	1.256	1.146		-8.8	
Benzo (k) fluoranthene	1.099	1.148		4.5	
Benzo (a) pyrene	1.021	1.028		0.7	20.0
Indeno (1,2,3-cd) pyrene	1.303	1.241		-4.8	
Dibenzo (a,h) anthracene	1.067	1.017		-4.7	
Benzo (g,h,i) perylene	1.089	1.022		-6.2	
1,2,4,5-Tetrachlorobenzene	0.586	0.573		-2.2	
1,4-Dioxane	0.493	0.505		2.4	20.0
2,3,4,6-Tetrachlorophenol	0.306	0.314		2.6	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
 Data File : BF140604.D
 Acq On : 25 Nov 2024 15:49
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 25 16:13:33 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Nov 21 15:23:48 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	106607	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	393427	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	218835	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	396344	20.000	ng	0.00
76) Chrysene-d12	14.051	240	217927	20.000	ng	0.00
86) Perylene-d12	15.551	264	192376	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	491503	78.663	ng	0.00
7) Phenol-d6	6.510	99	648459	78.504	ng	0.00
23) Nitrobenzene-d5	7.434	82	594260	77.261	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	180057	76.932	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	1121902	76.385	ng	0.00
79) Terphenyl-d14	12.980	244	1096447	78.343	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.640	88	107772	41.024	ng	99
3) Pyridine	3.410	79	266084	46.035	ng	99
4) n-Nitrosodimethylamine	3.363	42	126830	37.334	ng	90
6) Aniline	6.534	93	266963	45.917	ng	94
8) 2-Chlorophenol	6.663	128	259569	38.614	ng	96
9) Benzaldehyde	6.422	77	180830	41.353	ng	99
10) Phenol	6.522	94	336793	39.924	ng	94
11) bis(2-Chloroethyl)ether	6.604	93	255585	39.593	ng	100
12) 1,3-Dichlorobenzene	6.810	146	294808	39.031	ng	100
13) 1,4-Dichlorobenzene	6.887	146	298643	39.049	ng	100
14) 1,2-Dichlorobenzene	7.040	146	279852	39.050	ng	99
15) Benzyl Alcohol	7.016	79	232661	37.981	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.145	45	304785	39.966	ng	84
17) 2-Methylphenol	7.128	107	217336	40.390	ng	95
18) Hexachloroethane	7.381	117	111096	38.893	ng	97
19) n-Nitroso-di-n-propyla...	7.281	70	186820	38.269	ng	99
20) 3+4-Methylphenols	7.281	107	268518	38.823	ng	96
22) Acetophenone	7.281	105	365107	38.065	ng	99
24) Nitrobenzene	7.457	77	308535	38.812	ng	96
25) Isophorone	7.692	82	503490	39.246	ng	100
26) 2-Nitrophenol	7.769	139	141776	40.245	ng	98
27) 2,4-Dimethylphenol	7.804	122	176239m	41.812	ng	
28) bis(2-Chloroethoxy)met...	7.898	93	309243	39.568	ng	99
29) 2,4-Dichlorophenol	8.016	162	223293	39.979	ng	98
30) 1,2,4-Trichlorobenzene	8.092	180	252061	39.526	ng	98
31) Naphthalene	8.175	128	797717	39.364	ng	99
32) Benzoic acid	7.934	122	132755	37.962	ng	100
33) 4-Chloroaniline	8.222	127	263806	43.479	ng	100
34) Hexachlorobutadiene	8.287	225	165629	39.213	ng	99
35) Caprolactam	8.592	113	69550	40.238	ng	100
36) 4-Chloro-3-methylphenol	8.710	107	246142	39.361	ng	99
37) 2-Methylnaphthalene	8.863	142	504190	39.171	ng	99
38) 1-Methylnaphthalene	8.963	142	500451	39.666	ng	99
40) 1,2,4,5-Tetrachloroben...	9.028	216	250880	39.161	ng	99
41) Hexachlorocyclopentadiene	9.016	237	46360	36.552	ng	98
43) 2,4,6-Trichlorophenol	9.145	196	156633	38.964	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
 Data File : BF140604.D
 Acq On : 25 Nov 2024 15:49
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/27/2024

Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 25 16:13:33 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 Response via : Initial Calibration

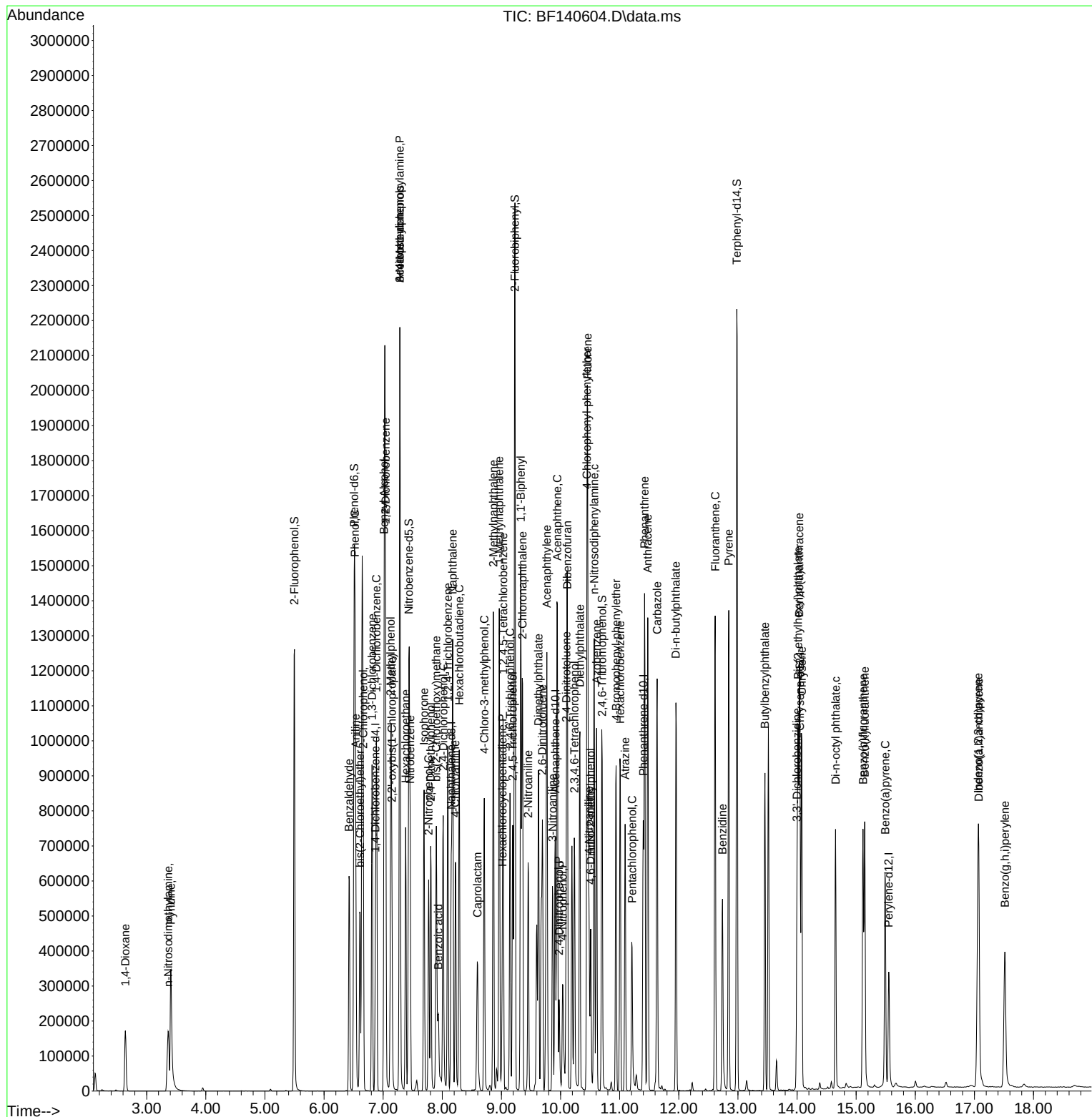
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	172838	39.616	ng	97
46) 1,1'-Biphenyl	9.328	154	642257	39.310	ng	100
47) 2-Chloronaphthalene	9.357	162	486075	39.263	ng	98
48) 2-Nitroaniline	9.451	65	153653	38.667	ng	99
49) Acenaphthylene	9.769	152	731583	39.111	ng	100
50) Dimethylphthalate	9.628	163	551498	38.266	ng	100
51) 2,6-Dinitrotoluene	9.692	165	129715	39.685	ng	97
52) Acenaphthene	9.945	154	459493	38.661	ng	99
53) 3-Nitroaniline	9.863	138	123678	38.687	ng	100
54) 2,4-Dinitrophenol	9.975	184	53762	36.476	ng	96
55) Dibenzofuran	10.116	168	691740	38.157	ng	99
56) 4-Nitrophenol	10.039	139	76021	34.868	ng	91
57) 2,4-Dinitrotoluene	10.098	165	170311	39.205	ng	96
58) Fluorene	10.457	166	558411	38.375	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.233	232	137290	40.946	ng	94
60) Diethylphthalate	10.328	149	560563	38.281	ng	99
61) 4-Chlorophenyl-phenyle...	10.445	204	274540	38.445	ng	98
62) 4-Nitroaniline	10.480	138	128027	38.184	ng	95
63) Azobenzene	10.610	77	539858	38.931	ng	99
65) 4,6-Dinitro-2-methylph...	10.510	198	86152	42.537	ng	98
66) n-Nitrosodiphenylamine	10.569	169	462263	39.439	ng	100
67) 4-Bromophenyl-phenylether	10.939	248	162863	39.900	ng	96
68) Hexachlorobenzene	11.010	284	187402	39.651	ng	100
69) Atrazine	11.092	200	129628	39.313	ng	98
70) Pentachlorophenol	11.210	266	83757	40.265	ng	99
71) Phenanthrene	11.422	178	747251	39.222	ng	99
72) Anthracene	11.475	178	738198	39.611	ng	99
73) Carbazole	11.633	167	703386	39.233	ng	100
74) Di-n-butylphthalate	11.951	149	816492	39.448	ng	100
75) Fluoranthene	12.616	202	798194	38.587	ng	100
77) Benzidine	12.739	184	344350	54.347	ng	100
78) Pyrene	12.845	202	806670	40.033	ng	99
80) Butylbenzylphthalate	13.457	149	294831	40.617	ng	100
81) Benzo(a)anthracene	14.039	228	560182	38.832	ng	100
82) 3,3'-Dichlorobenzidine	13.998	252	174748	40.346	ng	99
83) Chrysene	14.080	228	527192	39.966	ng	99
84) Bis(2-ethylhexyl)phtha...	14.016	149	368655	40.221	ng	100
85) Di-n-octyl phthalate	14.651	149	501073	40.002	ng	99
87) Indeno(1,2,3-cd)pyrene	17.062	276	477561	38.092	ng	98
88) Benzo(b)fluoranthene	15.115	252	440892	36.487	ng	100
89) Benzo(k)fluoranthene	15.145	252	441576	41.760	ng	100
90) Benzo(a)pyrene	15.492	252	395447	40.250	ng	99
91) Dibenzo(a,h)anthracene	17.074	278	391367	38.118	ng	99
92) Benzo(g,h,i)perylene	17.515	276	393138	37.523	ng	98

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

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
 Data File : BF140604.D
 Acq On : 25 Nov 2024 15:49
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 25 16:13:33 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 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	99	0.00
2	1,4-Dioxane	0.493	0.505	-2.4	102	-0.01
3	Pyridine	1.084	1.248	-15.1	104	-0.01
4	n-Nitrosodimethylamine	0.637	0.595	6.6	91	-0.02
5 S	2-Fluorophenol	1.172	1.153	1.6	97	0.00
6	Aniline	1.091	1.252	-14.8	99	0.00
7 S	Phenol-d6	1.550	1.521	1.9	94	0.00
8	2-Chlorophenol	1.261	1.217	3.5	94	0.00
9	Benzaldehyde	0.820	0.848	-3.4	114	0.00
10 C	Phenol	1.583	1.580	0.2	94	0.00
11	bis(2-Chloroethyl)ether	1.211	1.199	1.0	95	0.00
12	1,3-Dichlorobenzene	1.417	1.383	2.4	98	0.00
13 C	1,4-Dichlorobenzene	1.435	1.401	2.4	97	0.00
14	1,2-Dichlorobenzene	1.344	1.313	2.3	96	0.00
15	Benzyl Alcohol	1.149	1.091	5.0	88	0.00
16	2,2'-oxybis(1-Chloropropane	1.431	1.429	0.1	97	0.00
17	2-Methylphenol	1.009	1.019	-1.0	97	0.00
18	Hexachloroethane	0.536	0.521	2.8	96	0.00
19 P	n-Nitroso-di-n-propylamine	0.916	0.876	4.4	92	0.00
20	3+4-Methylphenols	1.298	1.259	3.0	93	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	95	0.00
22	Acetophenone	0.488	0.464	4.9	92	0.00
23 S	Nitrobenzene-d5	0.391	0.378	3.3	92	0.00
24	Nitrobenzene	0.404	0.392	3.0	93	0.00
25	Isophorone	0.652	0.640	1.8	92	0.00
26 C	2-Nitrophenol	0.179	0.180	-0.6	95	0.00
27	2,4-Dimethylphenol	0.214	0.224	-4.7	95	0.00
28	bis(2-Chloroethoxy)methane	0.397	0.393	1.0	94	0.00
29 C	2,4-Dichlorophenol	0.284	0.284	0.0	96	0.00
30	1,2,4-Trichlorobenzene	0.324	0.320	1.2	96	0.00
31	Naphthalene	1.030	1.014	1.6	95	0.00
32	Benzoic acid	0.164	0.169	-3.0	91	0.00
33	4-Chloroaniline	0.308	0.335	-8.8	98	0.00
34 C	Hexachlorobutadiene	0.215	0.210	2.3	95	0.00
35	Caprolactam	0.088	0.088	0.0	93	-0.01
36 C	4-Chloro-3-methylphenol	0.318	0.313	1.6	91	0.00
37	2-Methylnaphthalene	0.654	0.641	2.0	94	0.00
38	1-Methylnaphthalene	0.641	0.636	0.8	95	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	93	0.00
40	1,2,4,5-Tetrachlorobenzene	0.586	0.573	2.2	95	0.00
41 P	Hexachlorocyclopentadiene	0.107	0.106	0.9	87	0.00
42 S	2,4,6-Tribromophenol	0.214	0.206	3.7	89	0.00
43 C	2,4,6-Trichlorophenol	0.367	0.358	2.5	91	0.00
44	2,4,5-Trichlorophenol	0.399	0.395	1.0	91	0.00
45 S	2-Fluorobiphenyl	1.342	1.282	4.5	93	0.00
46	1,1'-Biphenyl	1.493	1.467	1.7	95	0.00
47	2-Chloronaphthalene	1.131	1.111	1.8	94	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
 Data File : BF140604.D
 Acq On : 25 Nov 2024 15:49
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 25 16:13:33 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 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	0.363	0.351	3.3	89	0.00
49	Acenaphthylene	1.710	1.672	2.2	94	0.00
50	Dimethylphthalate	1.317	1.260	4.3	91	0.00
51	2,6-Dinitrotoluene	0.299	0.296	1.0	92	0.00
52 C	Acenaphthene	1.086	1.050	3.3	92	0.00
53	3-Nitroaniline	0.292	0.283	3.1	88	0.00
54 P	2,4-Dinitrophenol	0.122	0.123	-0.8	82	0.00
55	Dibenzofuran	1.657	1.581	4.6	91	0.00
56 P	4-Nitrophenol	0.199	0.174	12.6	78	0.00
57	2,4-Dinitrotoluene	0.397	0.389	2.0	90	0.00
58	Fluorene	1.330	1.276	4.1	92	0.00
59	2,3,4,6-Tetrachlorophenol	0.306	0.314	-2.6	94	0.00
60	Diethylphthalate	1.338	1.281	4.3	91	0.00
61	4-Chlorophenyl-phenylether	0.653	0.627	4.0	92	0.00
62	4-Nitroaniline	0.306	0.293	4.2	87	0.00
63	Azobenzene	1.267	1.233	2.7	93	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	91	0.00
65	4,6-Dinitro-2-methylphenol	0.102	0.109	-6.9	90	0.00
66 c	n-Nitrosodiphenylamine	0.591	0.583	1.4	91	0.00
67	4-Bromophenyl-phenylether	0.206	0.205	0.5	93	0.00
68	Hexachlorobenzene	0.238	0.236	0.8	92	0.00
69	Atrazine	0.166	0.164	1.2	106	0.00
70 C	Pentachlorophenol	0.105	0.106	-1.0	82	0.00
71	Phenanthrene	0.961	0.943	1.9	90	0.00
72	Anthracene	0.940	0.931	1.0	91	0.00
73	Carbazole	0.905	0.887	2.0	90	0.00
74	Di-n-butylphthalate	1.044	1.030	1.3	91	0.00
75 C	Fluoranthene	1.044	1.007	3.5	90	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	91	0.00
77	Benzidine	0.581	0.790	-36.0#	125	0.00
78	Pyrene	1.849	1.851	-0.1	91	0.00
79 S	Terphenyl-d14	1.284	1.258	2.0	89	-0.01
80	Butylbenzylphthalate	0.666	0.676	-1.5	91	0.00
81	Benzo(a)anthracene	1.324	1.285	2.9	91	0.00
82	3,3'-Dichlorobenzidine	0.397	0.401	-1.0	88	0.00
83	Chrysene	1.211	1.210	0.1	92	0.00
84	Bis(2-ethylhexyl)phthalate	0.841	0.846	-0.6	92	0.00
85 c	Di-n-octyl phthalate	1.150	1.150	0.0	92	0.02
86 I	Perylene-d12	1.000	1.000	0.0	91	0.01
87	Indeno(1,2,3-cd)pyrene	1.303	1.241	4.8	87	0.01
88	Benzo(b)fluoranthene	1.256	1.146	8.8	88	0.01
89	Benzo(k)fluoranthene	1.099	1.148	-4.5	95	0.01
90 C	Benzo(a)pyrene	1.021	1.028	-0.7	93	0.02
91	Dibenzo(a,h)anthracene	1.067	1.017	4.7	87	0.01
92	Benzo(g,h,i)perylene	1.089	1.022	6.2	86	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140604.D
Acq On : 25 Nov 2024 15:49
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 25 16:13:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
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_F\Data\BF112524\
 Data File : BF140604.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	99	0.00
2	1,4-Dioxane	40.000	41.024	-2.6	102	-0.01
3	Pyridine	40.000	46.035	-15.1	104	-0.01
4	n-Nitrosodimethylamine	40.000	37.334	6.7	91	-0.02
5 S	2-Fluorophenol	80.000	78.663	1.7	97	0.00
6	Aniline	40.000	45.917	-14.8	99	0.00
7 S	Phenol-d6	80.000	78.504	1.9	94	0.00
8	2-Chlorophenol	40.000	38.614	3.5	94	0.00
9	Benzaldehyde	40.000	41.353	-3.4	114	0.00
10 C	Phenol	40.000	39.924	0.2	94	0.00
11	bis(2-Chloroethyl)ether	40.000	39.593	1.0	95	0.00
12	1,3-Dichlorobenzene	40.000	39.031	2.4	98	0.00
13 C	1,4-Dichlorobenzene	40.000	39.049	2.4	97	0.00
14	1,2-Dichlorobenzene	40.000	39.050	2.4	96	0.00
15	Benzyl Alcohol	40.000	37.981	5.0	88	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	39.966	0.1	97	0.00
17	2-Methylphenol	40.000	40.390	-1.0	97	0.00
18	Hexachloroethane	40.000	38.893	2.8	96	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	38.269	4.3	92	0.00
20	3+4-Methylphenols	40.000	38.823	2.9	93	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	95	0.00
22	Acetophenone	40.000	38.065	4.8	92	0.00
23 S	Nitrobenzene-d5	80.000	77.261	3.4	92	0.00
24	Nitrobenzene	40.000	38.812	3.0	93	0.00
25	Isophorone	40.000	39.246	1.9	92	0.00
26 C	2-Nitrophenol	40.000	40.245	-0.6	95	0.00
27	2,4-Dimethylphenol	40.000	41.812	-4.5	95	0.00
28	bis(2-Chloroethoxy)methane	40.000	39.568	1.1	94	0.00
29 C	2,4-Dichlorophenol	40.000	39.979	0.1	96	0.00
30	1,2,4-Trichlorobenzene	40.000	39.526	1.2	96	0.00
31	Naphthalene	40.000	39.364	1.6	95	0.00
32	Benzoic acid	40.000	37.962	5.1	91	0.00
33	4-Chloroaniline	40.000	43.479	-8.7	98	0.00
34 C	Hexachlorobutadiene	40.000	39.213	2.0	95	0.00
35	Caprolactam	40.000	40.238	-0.6	93	-0.01
36 C	4-Chloro-3-methylphenol	40.000	39.361	1.6	91	0.00
37	2-Methylnaphthalene	40.000	39.171	2.1	94	0.00
38	1-Methylnaphthalene	40.000	39.666	0.8	95	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	93	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	39.161	2.1	95	0.00
41 P	Hexachlorocyclopentadiene	40.000	36.552	8.6	87	0.00
42 S	2,4,6-Tribromophenol	80.000	76.932	3.8	89	0.00
43 C	2,4,6-Trichlorophenol	40.000	38.964	2.6	91	0.00
44	2,4,5-Trichlorophenol	40.000	39.616	1.0	91	0.00
45 S	2-Fluorobiphenyl	80.000	76.385	4.5	93	0.00
46	1,1'-Biphenyl	40.000	39.310	1.7	95	0.00
47	2-Chloronaphthalene	40.000	39.263	1.8	94	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
 Data File : BF140604.D
 Acq On : 25 Nov 2024 15:49
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 25 16:13:33 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 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	38.667	3.3	89	0.00
49	Acenaphthylene	40.000	39.111	2.2	94	0.00
50	Dimethylphthalate	40.000	38.266	4.3	91	0.00
51	2,6-Dinitrotoluene	40.000	39.685	0.8	92	0.00
52 C	Acenaphthene	40.000	38.661	3.3	92	0.00
53	3-Nitroaniline	40.000	38.687	3.3	88	0.00
54 P	2,4-Dinitrophenol	40.000	36.476	8.8	82	0.00
55	Dibenzofuran	40.000	38.157	4.6	91	0.00
56 P	4-Nitrophenol	40.000	34.868	12.8	78	0.00
57	2,4-Dinitrotoluene	40.000	39.205	2.0	90	0.00
58	Fluorene	40.000	38.375	4.1	92	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	40.946	-2.4	94	0.00
60	Diethylphthalate	40.000	38.281	4.3	91	0.00
61	4-Chlorophenyl-phenylether	40.000	38.445	3.9	92	0.00
62	4-Nitroaniline	40.000	38.184	4.5	87	0.00
63	Azobenzene	40.000	38.931	2.7	93	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	91	0.00
65	4,6-Dinitro-2-methylphenol	40.000	42.537	-6.3	90	0.00
66 c	n-Nitrosodiphenylamine	40.000	39.439	1.4	91	0.00
67	4-Bromophenyl-phenylether	40.000	39.900	0.3	93	0.00
68	Hexachlorobenzene	40.000	39.651	0.9	92	0.00
69	Atrazine	40.000	39.313	1.7	106	0.00
70 C	Pentachlorophenol	40.000	40.265	-0.7	82	0.00
71	Phenanthrene	40.000	39.222	1.9	90	0.00
72	Anthracene	40.000	39.611	1.0	91	0.00
73	Carbazole	40.000	39.233	1.9	90	0.00
74	Di-n-butylphthalate	40.000	39.448	1.4	91	0.00
75 C	Fluoranthene	40.000	38.587	3.5	90	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	91	0.00
77	Benzydine	40.000	54.347	-35.9#	125	0.00
78	Pyrene	40.000	40.033	-0.1	91	0.00
79 S	Terphenyl-d14	80.000	78.343	2.1	89	-0.01
80	Butylbenzylphthalate	40.000	40.617	-1.5	91	0.00
81	Benzo(a)anthracene	40.000	38.832	2.9	91	0.00
82	3,3'-Dichlorobenzidine	40.000	40.346	-0.9	88	0.00
83	Chrysene	40.000	39.966	0.1	92	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	40.221	-0.6	92	0.00
85 c	Di-n-octyl phthalate	40.000	40.002	-0.0	92	0.02
86 I	Perylene-d12	20.000	20.000	0.0	91	0.01
87	Indeno(1,2,3-cd)pyrene	40.000	38.092	4.8	87	0.01
88	Benzo(b)fluoranthene	40.000	36.487	8.8	88	0.01
89	Benzo(k)fluoranthene	40.000	41.760	-4.4	95	0.01
90 C	Benzo(a)pyrene	40.000	40.250	-0.6	93	0.02
91	Dibenzo(a,h)anthracene	40.000	38.118	4.7	87	0.01
92	Benzo(g,h,i)perylene	40.000	37.523	6.2	86	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140604.D
Acq On : 25 Nov 2024 15:49
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 25 16:13:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
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: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: BNA_F Calibration Date/Time: 11/26/2024 09:35

Lab File ID: BF140629.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.172	1.147		-2.1	
Benzaldehyde	0.820	0.758		-7.6	
Phenol-d6	1.550	1.512		-2.5	
Phenol	1.583	1.584		0.1	20.0
bis(2-Chloroethyl)ether	1.211	1.200		-0.9	
2-Chlorophenol	1.261	1.226		-2.8	
2-Methylphenol	1.010	1.003		-0.7	
2,2-oxybis(1-Chloropropane)	1.431	1.458		1.9	
Acetophenone	0.488	0.460		-5.7	
3+4-Methylphenols	1.298	1.257		-3.2	
n-Nitroso-di-n-propylamine	0.916	0.884	0.050	-3.5	
Nitrobenzene-d5	0.391	0.378		-3.3	
Hexachloroethane	0.536	0.516		-3.7	
Nitrobenzene	0.404	0.393		-2.7	
Isophorone	0.652	0.635		-2.6	
2-Nitrophenol	0.179	0.183		2.2	20.0
2,4-Dimethylphenol	0.214	0.228		6.5	
bis(2-Chloroethoxy)methane	0.397	0.396		-0.3	
2,4-Dichlorophenol	0.284	0.283		-0.4	20.0
Naphthalene	1.030	1.008		-2.1	
4-Chloroaniline	0.308	0.341		10.7	
Hexachlorobutadiene	0.215	0.206		-4.2	20.0
Caprolactam	0.088	0.090		2.3	
4-Chloro-3-methylphenol	0.318	0.314		-1.3	20.0
2-Methylnaphthalene	0.654	0.644		-1.5	
Hexachlorocyclopentadiene	0.107	0.095	0.050	-11.2	
2,4,6-Trichlorophenol	0.367	0.356		-3.0	20.0
2-Fluorobiphenyl	1.342	1.257		-6.3	
2,4,5-Trichlorophenol	0.399	0.404		1.3	
1,1-Biphenyl	1.493	1.436		-3.8	
2-Chloronaphthalene	1.131	1.097		-3.0	
2-Nitroaniline	0.363	0.346		-4.7	
Dimethylphthalate	1.317	1.270		-3.6	
Acenaphthylene	1.710	1.659		-3.0	
2,6-Dinitrotoluene	0.299	0.292		-2.3	
3-Nitroaniline	0.292	0.303		3.8	
Acenaphthene	1.086	1.044		-3.9	20.0
2,4-Dinitrophenol	0.122	0.136	0.050	11.5	
4-Nitrophenol	0.199	0.189	0.050	-5.0	



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CORN02

Lab Code: CHEM Case No.: P4860 SAS No.: P4860 SDG No.: P4860

Instrument ID: BNA_F Calibration Date/Time: 11/26/2024 09:35

Lab File ID: BF140629.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.657	1.584		-4.4	
2,4-Dinitrotoluene	0.397	0.395		-0.5	
Diethylphthalate	1.338	1.307		-2.3	
4-Chlorophenyl-phenylether	0.653	0.621		-4.9	
Fluorene	1.330	1.280		-3.8	
4-Nitroaniline	0.306	0.306		0.0	
4,6-Dinitro-2-methylphenol	0.102	0.112		9.8	
n-Nitrosodiphenylamine	0.591	0.583		-1.4	20.0
2,4,6-Tribromophenol	0.214	0.207		-3.3	
4-Bromophenyl-phenylether	0.206	0.205		-0.5	
Hexachlorobenzene	0.238	0.232		-2.5	
Atrazine	0.166	0.163		-1.8	
Pentachlorophenol	0.105	0.112		6.7	20.0
Phenanthrene	0.961	0.928		-3.4	
Anthracene	0.940	0.926		-1.5	
Carbazole	0.905	0.893		-1.3	
Di-n-butylphthalate	1.044	1.063		1.8	
Fluoranthene	1.044	1.033		-1.1	20.0
Pyrene	1.849	1.845		-0.2	
Terphenyl-d14	1.284	1.263		-1.6	
Butylbenzylphthalate	0.666	0.715		7.4	
3,3-Dichlorobenzidine	0.397	0.400		0.8	
Benzo (a) anthracene	1.324	1.340		1.2	
Chrysene	1.211	1.144		-5.5	
Bis(2-ethylhexyl)phthalate	0.841	0.933		10.9	
Di-n-octyl phthalate	1.150	1.287		11.9	20.0
Benzo (b) fluoranthene	1.256	1.211		-3.6	
Benzo (k) fluoranthene	1.099	1.084		-1.4	
Benzo (a) pyrene	1.021	1.002		-1.9	20.0
Indeno (1,2,3-cd) pyrene	1.303	1.258		-3.5	
Dibenzo (a,h) anthracene	1.067	1.035		-3.0	
Benzo (g,h,i) perylene	1.089	1.065		-2.2	
1,2,4,5-Tetrachlorobenzene	0.586	0.557		-4.9	
1,4-Dioxane	0.493	0.492		-0.2	20.0
2,3,4,6-Tetrachlorophenol	0.306	0.310		1.3	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
 Data File : BF140629.D
 Acq On : 26 Nov 2024 09:35
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Yogesh
 Patel

Quant Time: Nov 26 10:51:58 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Nov 21 15:23:48 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							11/27/2024
1) 1,4-Dichlorobenzene-d4	6.875	152	116102	20.000	ng	0.00	Supervised By :mohammad Ahmed
21) Naphthalene-d8	8.157	136	431552	20.000	ng	0.00	
39) Acenaphthene-d10	9.910	164	243269	20.000	ng	0.00	
64) Phenanthrene-d10	11.404	188	448777	20.000	ng	0.00	
76) Chrysene-d12	14.051	240	250776	20.000	ng	0.00	
86) Perylene-d12	15.551	264	214776	20.000	ng	0.01	11/27/2024
System Monitoring Compounds							
5) 2-Fluorophenol	5.499	112	532887	78.312	ng	0.00	
7) Phenol-d6	6.516	99	702095	78.046	ng	0.00	
23) Nitrobenzene-d5	7.440	82	652161	77.298	ng	0.00	
42) 2,4,6-Tribromophenol	10.704	330	201633	77.498	ng	0.00	
45) 2-Fluorobiphenyl	9.228	172	1223441	74.932	ng	0.00	
79) Terphenyl-d14	12.986	244	1267341	78.692	ng	0.00	
Target Compounds							Qvalue
2) 1,4-Dioxane	2.646	88	114139	39.895	ng		98
3) Pyridine	3.410	79	276062	43.855	ng		98
4) n-Nitrosodimethylamine	3.369	42	135530	36.633	ng		89
6) Aniline	6.540	93	305468	48.243	ng	#	79
8) 2-Chlorophenol	6.663	128	284724	38.892	ng		97
9) Benzaldehyde	6.428	77	176083	36.974	ng		99
10) Phenol	6.528	94	367813	40.036	ng		98
11) bis(2-Chloroethyl)ether	6.610	93	278700	39.643	ng		100
12) 1,3-Dichlorobenzene	6.816	146	324984	39.507	ng		97
13) 1,4-Dichlorobenzene	6.893	146	324342	38.941	ng		99
14) 1,2-Dichlorobenzene	7.046	146	304506	39.016	ng		99
15) Benzyl Alcohol	7.016	79	259264	38.862	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.146	45	338482	40.754	ng		89
17) 2-Methylphenol	7.134	107	232840	39.732	ng		97
18) Hexachloroethane	7.381	117	119871	38.534	ng		97
19) n-Nitroso-di-n-propyla...	7.287	70	205373	38.629	ng		97
20) 3+4-Methylphenols	7.287	107	291978	38.763	ng		99
22) Acetophenone	7.281	105	397107	37.744	ng		99
24) Nitrobenzene	7.457	77	339144	38.893	ng		98
25) Isophorone	7.693	82	548215	38.957	ng		100
26) 2-Nitrophenol	7.769	139	157709	40.812	ng		97
27) 2,4-Dimethylphenol	7.810	122	196413m	42.482	ng		
28) bis(2-Chloroethoxy)met...	7.898	93	341459	39.830	ng		99
29) 2,4-Dichlorophenol	8.016	162	244208	39.861	ng		98
30) 1,2,4-Trichlorobenzene	8.093	180	270102	38.613	ng		100
31) Naphthalene	8.175	128	870326	39.153	ng		99
32) Benzoic acid	7.940	122	149001	38.676	ng		97
33) 4-Chloroaniline	8.228	127	294211	44.206	ng		99
34) Hexachlorobutadiene	8.287	225	177992	38.417	ng		99
35) Caprolactam	8.604	113	77884	41.079	ng		97
36) 4-Chloro-3-methylphenol	8.710	107	270998	39.508	ng		99
37) 2-Methylnaphthalene	8.869	142	555719	39.360	ng		100
38) 1-Methylnaphthalene	8.963	142	541788	39.149	ng		100
40) 1,2,4,5-Tetrachloroben...	9.034	216	270986	38.051	ng		98
41) Hexachlorocyclopentadiene	9.016	237	46098	33.464	ng		99
43) 2,4,6-Trichlorophenol	9.151	196	173201	38.758	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
 Data File : BF140629.D
 Acq On : 26 Nov 2024 09:35
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Yogesh
 Patel

Quant Time: Nov 26 10:51:58 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Nov 21 15:23:48 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	196788	40.575	ng	96
46) 1,1'-Biphenyl	9.328	154	698846	38.477	ng	99
47) 2-Chloronaphthalene	9.357	162	533489	38.765	ng	99
48) 2-Nitroaniline	9.457	65	168118	38.058	ng	94
49) Acenaphthylene	9.775	152	807025	38.811	ng	100
50) Dimethylphthalate	9.628	163	617723	38.556	ng	100
51) 2,6-Dinitrotoluene	9.698	165	141991	39.077	ng	95
52) Acenaphthene	9.945	154	507801	38.434	ng	100
53) 3-Nitroaniline	9.869	138	147444	41.489	ng	96
54) 2,4-Dinitrophenol	9.981	184	66230	39.575	ng	95
55) Dibenzofuran	10.116	168	770524	38.234	ng	100
56) 4-Nitrophenol	10.039	139	92127	38.011	ng	92
57) 2,4-Dinitrotoluene	10.104	165	192245	39.809	ng	97
58) Fluorene	10.463	166	622621	38.490	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	150752	40.445	ng	94
60) Diethylphthalate	10.328	149	636138	39.079	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	302100	38.055	ng	98
62) 4-Nitroaniline	10.486	138	149101	40.002	ng	92
63) Azobenzene	10.610	77	602868	39.108	ng	98
65) 4,6-Dinitro-2-methylph...	10.516	198	100599	43.867	ng	98
66) n-Nitrosodiphenylamine	10.569	169	523254	39.427	ng	98
67) 4-Bromophenyl-phenylether	10.939	248	183807	39.770	ng	98
68) Hexachlorobenzene	11.010	284	208656	38.990	ng	97
69) Atrazine	11.098	200	145954	39.093	ng	99
70) Pentachlorophenol	11.210	266	100308	42.588	ng	99
71) Phenanthrene	11.428	178	833221	38.625	ng	100
72) Anthracene	11.481	178	831296	39.395	ng	100
73) Carbazole	11.633	167	801557	39.485	ng	100
74) Di-n-butylphthalate	11.957	149	953861	40.700	ng	99
75) Fluoranthene	12.616	202	927597	39.604	ng	99
77) Benzidine	12.739	184	306112	41.984	ng	99
78) Pyrene	12.851	202	925128	39.898	ng	99
80) Butylbenzylphthalate	13.457	149	358535	42.923	ng	97
81) Benzo(a)anthracene	14.039	228	672163	40.491	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	200384	40.205	ng	98
83) Chrysene	14.080	228	573709	37.796	ng	100
84) Bis(2-ethylhexyl)phtha...	14.016	149	468112	44.382	ng	99
85) Di-n-octyl phthalate	14.645	149	645302	44.768	ng	99
87) Indeno(1,2,3-cd)pyrene	17.068	276	540249	38.598	ng	98
88) Benzo(b)fluoranthene	15.116	252	520013	38.547	ng	99
89) Benzo(k)fluoranthene	15.145	252	465569	39.437	ng	100
90) Benzo(a)pyrene	15.486	252	430245	39.225	ng	99
91) Dibenzo(a,h)anthracene	17.080	278	444731	38.798	ng	99
92) Benzo(g,h,i)perylene	17.521	276	457412	39.105	ng	98

11/27/2024

Supervised By :mohammad
 ahmed

11/27/2024

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

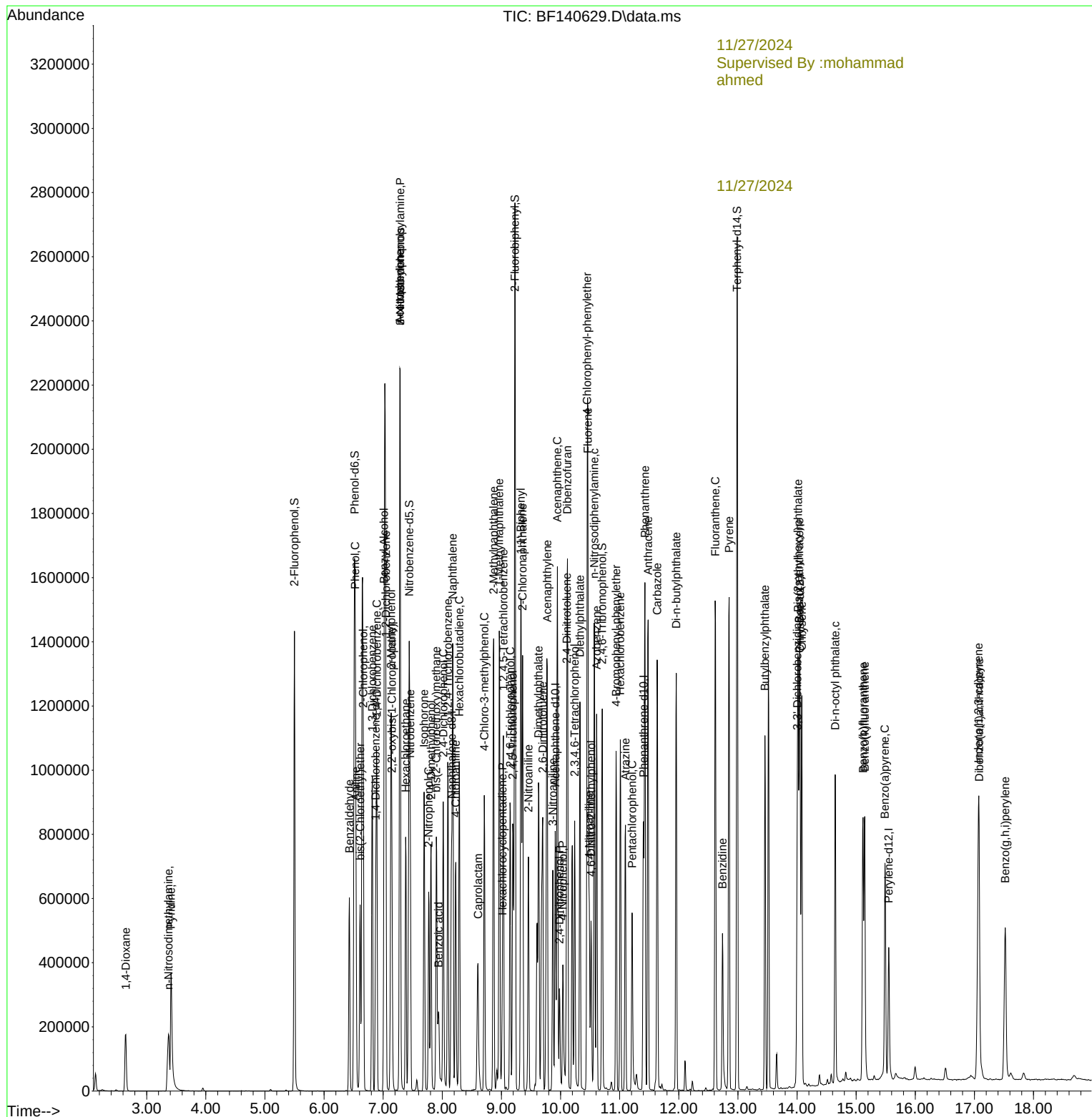
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140629.D
Acq On : 26 Nov 2024 09:35
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh
Patel

Quant Time: Nov 26 10:51:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
 Data File : BF140629.D
 Acq On : 26 Nov 2024 09:35
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 26 10:51:58 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 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	108	0.00
2	1,4-Dioxane	0.493	0.492	0.2	109	0.00
3	Pyridine	1.084	1.189	-9.7	108	-0.01
4	n-Nitrosodimethylamine	0.637	0.584	8.3	97	-0.01
5 S	2-Fluorophenol	1.172	1.147	2.1	106	0.00
6	Aniline	1.091	1.316	-20.6	114	0.00
7 S	Phenol-d6	1.550	1.512	2.5	102	0.00
8	2-Chlorophenol	1.261	1.226	2.8	103	0.00
9	Benzaldehyde	0.820	0.758	7.6	111	0.00
10 C	Phenol	1.583	1.584	-0.1	103	0.00
11	bis(2-Chloroethyl)ether	1.211	1.200	0.9	104	0.00
12	1,3-Dichlorobenzene	1.417	1.400	1.2	108	0.00
13 C	1,4-Dichlorobenzene	1.435	1.397	2.6	106	0.00
14	1,2-Dichlorobenzene	1.344	1.311	2.5	105	0.00
15	Benzyl Alcohol	1.149	1.117	2.8	99	0.00
16	2,2'-oxybis(1-Chloropropane	1.431	1.458	-1.9	108	0.00
17	2-Methylphenol	1.009	1.003	0.6	104	0.00
18	Hexachloroethane	0.536	0.516	3.7	104	0.00
19 P	n-Nitroso-di-n-propylamine	0.916	0.884	3.5	101	0.00
20	3+4-Methylphenols	1.298	1.257	3.2	101	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	104	0.00
22	Acetophenone	0.488	0.460	5.7	100	0.00
23 S	Nitrobenzene-d5	0.391	0.378	3.3	101	0.00
24	Nitrobenzene	0.404	0.393	2.7	102	0.00
25	Isophorone	0.652	0.635	2.6	100	0.00
26 C	2-Nitrophenol	0.179	0.183	-2.2	106	0.00
27	2,4-Dimethylphenol	0.214	0.228	-6.5	106	0.00
28	bis(2-Chloroethoxy)methane	0.397	0.396	0.3	104	0.00
29 C	2,4-Dichlorophenol	0.284	0.283	0.4	105	0.00
30	1,2,4-Trichlorobenzene	0.324	0.313	3.4	103	0.00
31	Naphthalene	1.030	1.008	2.1	104	0.00
32	Benzoic acid	0.164	0.173	-5.5	102	0.00
33	4-Chloroaniline	0.308	0.341	-10.7	110	0.00
34 C	Hexachlorobutadiene	0.215	0.206	4.2	102	0.00
35	Caprolactam	0.088	0.090	-2.3	104	0.00
36 C	4-Chloro-3-methylphenol	0.318	0.314	1.3	100	0.00
37	2-Methylnaphthalene	0.654	0.644	1.5	103	0.00
38	1-Methylnaphthalene	0.641	0.628	2.0	103	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	104	0.00
40	1,2,4,5-Tetrachlorobenzene	0.586	0.557	4.9	103	0.00
41 P	Hexachlorocyclopentadiene	0.107	0.095	11.2	86	0.00
42 S	2,4,6-Tribromophenol	0.214	0.207	3.3	100	0.00
43 C	2,4,6-Trichlorophenol	0.367	0.356	3.0	101	0.00
44	2,4,5-Trichlorophenol	0.399	0.404	-1.3	104	0.00
45 S	2-Fluorobiphenyl	1.342	1.257	6.3	101	0.00
46	1,1'-Biphenyl	1.493	1.436	3.8	103	0.00
47	2-Chloronaphthalene	1.131	1.097	3.0	103	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
 Data File : BF140629.D
 Acq On : 26 Nov 2024 09:35
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 26 10:51:58 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 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	0.363	0.346	4.7	98	0.00
49	Acenaphthylene	1.710	1.659	3.0	104	0.00
50	Dimethylphthalate	1.317	1.270	3.6	101	0.00
51	2,6-Dinitrotoluene	0.299	0.292	2.3	101	0.00
52 C	Acenaphthene	1.086	1.044	3.9	102	0.00
53	3-Nitroaniline	0.292	0.303	-3.8	105	0.00
54 P	2,4-Dinitrophenol	0.122	0.136	-11.5	101	0.00
55	Dibenzofuran	1.657	1.584	4.4	101	0.00
56 P	4-Nitrophenol	0.199	0.189	5.0	95	0.00
57	2,4-Dinitrotoluene	0.397	0.395	0.5	102	0.00
58	Fluorene	1.330	1.280	3.8	103	0.00
59	2,3,4,6-Tetrachlorophenol	0.306	0.310	-1.3	103	0.00
60	Diethylphthalate	1.338	1.307	2.3	104	0.00
61	4-Chlorophenyl-phenylether	0.653	0.621	4.9	101	0.00
62	4-Nitroaniline	0.306	0.306	0.0	102	0.00
63	Azobenzene	1.267	1.239	2.2	104	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	103	0.00
65	4,6-Dinitro-2-methylphenol	0.102	0.112	-9.8	105	0.00
66 c	n-Nitrosodiphenylamine	0.591	0.583	1.4	104	0.00
67	4-Bromophenyl-phenylether	0.206	0.205	0.5	105	0.00
68	Hexachlorobenzene	0.238	0.232	2.5	102	0.00
69	Atrazine	0.166	0.163	1.8	119	0.00
70 C	Pentachlorophenol	0.105	0.112	-6.7	99	0.00
71	Phenanthrene	0.961	0.928	3.4	101	0.00
72	Anthracene	0.940	0.926	1.5	103	0.00
73	Carbazole	0.905	0.893	1.3	103	0.00
74	Di-n-butylphthalate	1.044	1.063	-1.8	107	0.00
75 C	Fluoranthene	1.044	1.033	1.1	105	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	105	0.00
77	Benzydine	0.581	0.610	-5.0	111	0.00
78	Pyrene	1.849	1.845	0.2	104	0.00
79 S	Terphenyl-d14	1.284	1.263	1.6	103	0.00
80	Butylbenzylphthalate	0.666	0.715	-7.4	110	0.00
81	Benzo(a)anthracene	1.324	1.340	-1.2	109	0.00
82	3,3'-Dichlorobenzidine	0.397	0.400	-0.8	101	0.00
83	Chrysene	1.211	1.144	5.5	100	0.00
84	Bis(2-ethylhexyl)phthalate	0.841	0.933	-10.9	117	0.00
85 c	Di-n-octyl phthalate	1.150	1.287	-11.9	119	0.01
86 I	Perylene-d12	1.000	1.000	0.0	102	0.01
87	Indeno(1,2,3-cd)pyrene	1.303	1.258	3.5	98	0.02
88	Benzo(b)fluoranthene	1.256	1.211	3.6	104	0.01
89	Benzo(k)fluoranthene	1.099	1.084	1.4	100	0.01
90 C	Benzo(a)pyrene	1.021	1.002	1.9	101	0.01
91	Dibenzo(a,h)anthracene	1.067	1.035	3.0	98	0.02
92	Benzo(g,h,i)perylene	1.089	1.065	2.2	100	0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140629.D
Acq On : 26 Nov 2024 09:35
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 26 10:51:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
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_F\Data\BF112624\
 Data File : BF140629.D
 Acq On : 26 Nov 2024 09:35
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 26 10:51:58 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 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	108	0.00
2	1,4-Dioxane	40.000	39.895	0.3	109	0.00
3	Pyridine	40.000	43.855	-9.6	108	-0.01
4	n-Nitrosodimethylamine	40.000	36.633	8.4	97	-0.01
5 S	2-Fluorophenol	80.000	78.312	2.1	106	0.00
6	Aniline	40.000	48.243	-20.6	114	0.00
7 S	Phenol-d6	80.000	78.046	2.4	102	0.00
8	2-Chlorophenol	40.000	38.892	2.8	103	0.00
9	Benzaldehyde	40.000	36.974	7.6	111	0.00
10 C	Phenol	40.000	40.036	-0.1	103	0.00
11	bis(2-Chloroethyl)ether	40.000	39.643	0.9	104	0.00
12	1,3-Dichlorobenzene	40.000	39.507	1.2	108	0.00
13 C	1,4-Dichlorobenzene	40.000	38.941	2.6	106	0.00
14	1,2-Dichlorobenzene	40.000	39.016	2.5	105	0.00
15	Benzyl Alcohol	40.000	38.862	2.8	99	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	40.754	-1.9	108	0.00
17	2-Methylphenol	40.000	39.732	0.7	104	0.00
18	Hexachloroethane	40.000	38.534	3.7	104	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	38.629	3.4	101	0.00
20	3+4-Methylphenols	40.000	38.763	3.1	101	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	104	0.00
22	Acetophenone	40.000	37.744	5.6	100	0.00
23 S	Nitrobenzene-d5	80.000	77.298	3.4	101	0.00
24	Nitrobenzene	40.000	38.893	2.8	102	0.00
25	Isophorone	40.000	38.957	2.6	100	0.00
26 C	2-Nitrophenol	40.000	40.812	-2.0	106	0.00
27	2,4-Dimethylphenol	40.000	42.482	-6.2	106	0.00
28	bis(2-Chloroethoxy)methane	40.000	39.830	0.4	104	0.00
29 C	2,4-Dichlorophenol	40.000	39.861	0.3	105	0.00
30	1,2,4-Trichlorobenzene	40.000	38.613	3.5	103	0.00
31	Naphthalene	40.000	39.153	2.1	104	0.00
32	Benzoic acid	40.000	38.676	3.3	102	0.00
33	4-Chloroaniline	40.000	44.206	-10.5	110	0.00
34 C	Hexachlorobutadiene	40.000	38.417	4.0	102	0.00
35	Caprolactam	40.000	41.079	-2.7	104	0.00
36 C	4-Chloro-3-methylphenol	40.000	39.508	1.2	100	0.00
37	2-Methylnaphthalene	40.000	39.360	1.6	103	0.00
38	1-Methylnaphthalene	40.000	39.149	2.1	103	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	104	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	38.051	4.9	103	0.00
41 P	Hexachlorocyclopentadiene	40.000	33.464	16.3	86	0.00
42 S	2,4,6-Tribromophenol	80.000	77.498	3.1	100	0.00
43 C	2,4,6-Trichlorophenol	40.000	38.758	3.1	101	0.00
44	2,4,5-Trichlorophenol	40.000	40.575	-1.4	104	0.00
45 S	2-Fluorobiphenyl	80.000	74.932	6.3	101	0.00
46	1,1'-Biphenyl	40.000	38.477	3.8	103	0.00
47	2-Chloronaphthalene	40.000	38.765	3.1	103	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
 Data File : BF140629.D
 Acq On : 26 Nov 2024 09:35
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Nov 26 10:51:58 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 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	38.058	4.9	98	0.00
49	Acenaphthylene	40.000	38.811	3.0	104	0.00
50	Dimethylphthalate	40.000	38.556	3.6	101	0.00
51	2,6-Dinitrotoluene	40.000	39.077	2.3	101	0.00
52 C	Acenaphthene	40.000	38.434	3.9	102	0.00
53	3-Nitroaniline	40.000	41.489	-3.7	105	0.00
54 P	2,4-Dinitrophenol	40.000	39.575	1.1	101	0.00
55	Dibenzofuran	40.000	38.234	4.4	101	0.00
56 P	4-Nitrophenol	40.000	38.011	5.0	95	0.00
57	2,4-Dinitrotoluene	40.000	39.809	0.5	102	0.00
58	Fluorene	40.000	38.490	3.8	103	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	40.445	-1.1	103	0.00
60	Diethylphthalate	40.000	39.079	2.3	104	0.00
61	4-Chlorophenyl-phenylether	40.000	38.055	4.9	101	0.00
62	4-Nitroaniline	40.000	40.002	-0.0	102	0.00
63	Azobenzene	40.000	39.108	2.2	104	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	103	0.00
65	4,6-Dinitro-2-methylphenol	40.000	43.867	-9.7	105	0.00
66 c	n-Nitrosodiphenylamine	40.000	39.427	1.4	104	0.00
67	4-Bromophenyl-phenylether	40.000	39.770	0.6	105	0.00
68	Hexachlorobenzene	40.000	38.990	2.5	102	0.00
69	Atrazine	40.000	39.093	2.3	119	0.00
70 C	Pentachlorophenol	40.000	42.588	-6.5	99	0.00
71	Phenanthrene	40.000	38.625	3.4	101	0.00
72	Anthracene	40.000	39.395	1.5	103	0.00
73	Carbazole	40.000	39.485	1.3	103	0.00
74	Di-n-butylphthalate	40.000	40.700	-1.8	107	0.00
75 C	Fluoranthene	40.000	39.604	1.0	105	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	105	0.00
77	Benzydine	40.000	41.984	-5.0	111	0.00
78	Pyrene	40.000	39.898	0.3	104	0.00
79 S	Terphenyl-d14	80.000	78.692	1.6	103	0.00
80	Butylbenzylphthalate	40.000	42.923	-7.3	110	0.00
81	Benzo(a)anthracene	40.000	40.491	-1.2	109	0.00
82	3,3'-Dichlorobenzidine	40.000	40.205	-0.5	101	0.00
83	Chrysene	40.000	37.796	5.5	100	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	44.382	-11.0	117	0.00
85 c	Di-n-octyl phthalate	40.000	44.768	-11.9	119	0.01
86 I	Perylene-d12	20.000	20.000	0.0	102	0.01
87	Indeno(1,2,3-cd)pyrene	40.000	38.598	3.5	98	0.02
88	Benzo(b)fluoranthene	40.000	38.547	3.6	104	0.01
89	Benzo(k)fluoranthene	40.000	39.437	1.4	100	0.01
90 C	Benzo(a)pyrene	40.000	39.225	1.9	101	0.01
91	Dibenzo(a,h)anthracene	40.000	38.798	3.0	98	0.02
92	Benzo(g,h,i)perylene	40.000	39.105	2.2	100	0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140629.D
Acq On : 26 Nov 2024 09:35
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Nov 26 10:51:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
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



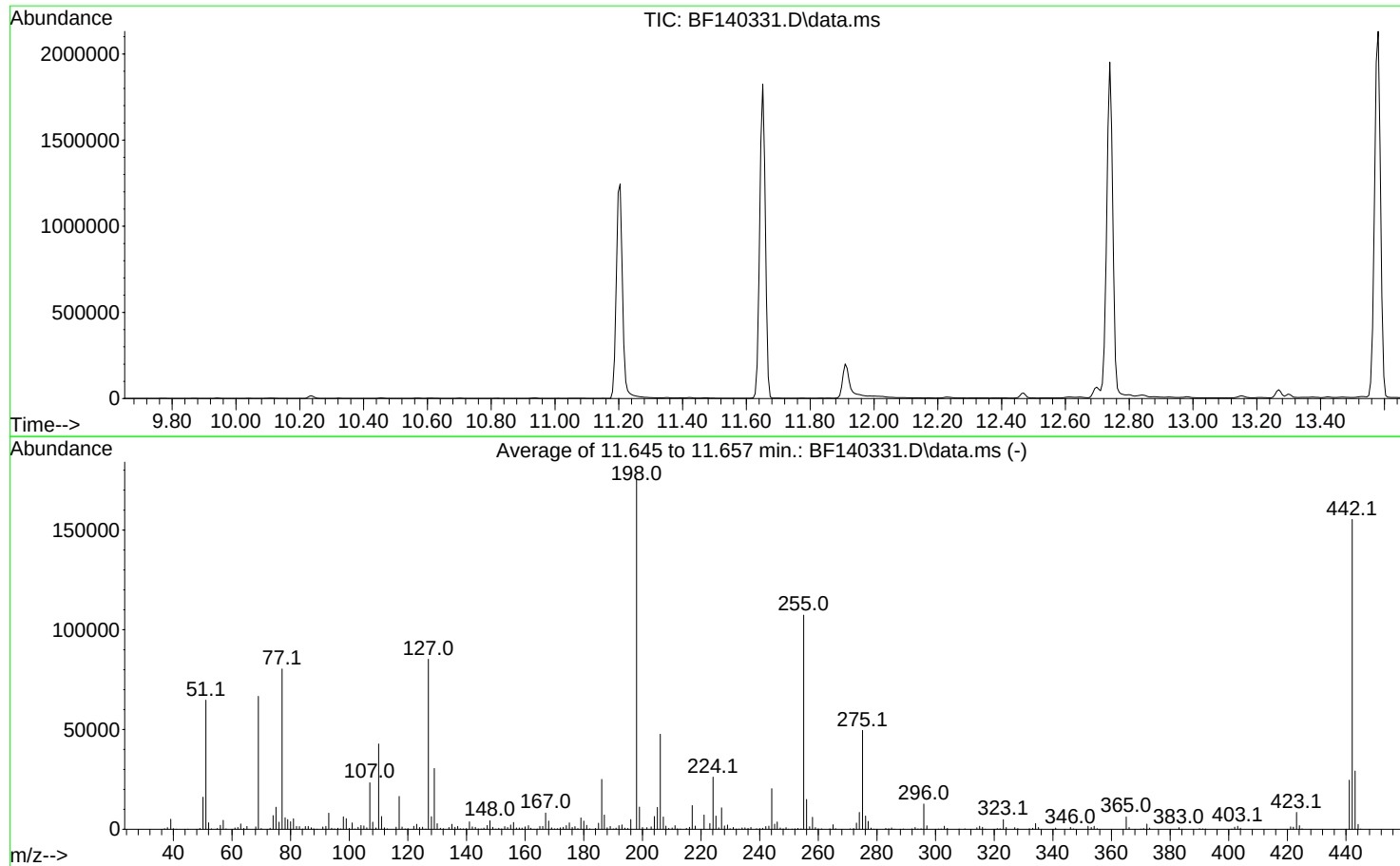
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140331.D
Acq On : 13 Nov 2024 08:35
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-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 14:40:06 2024



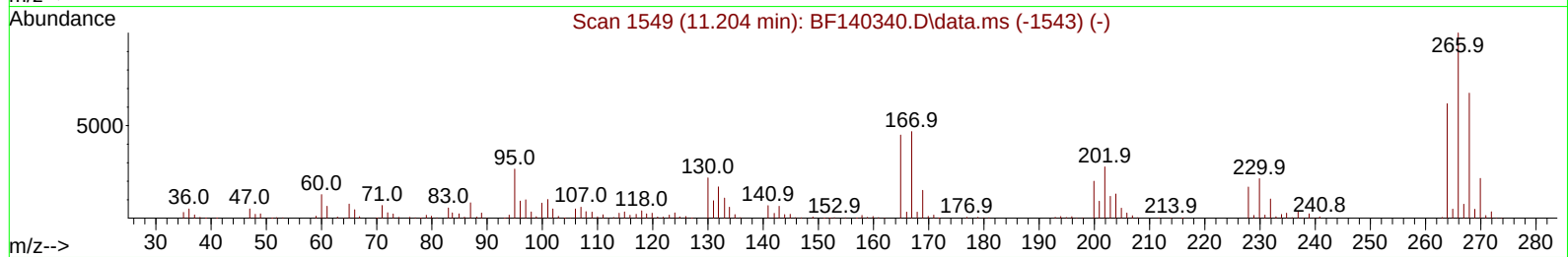
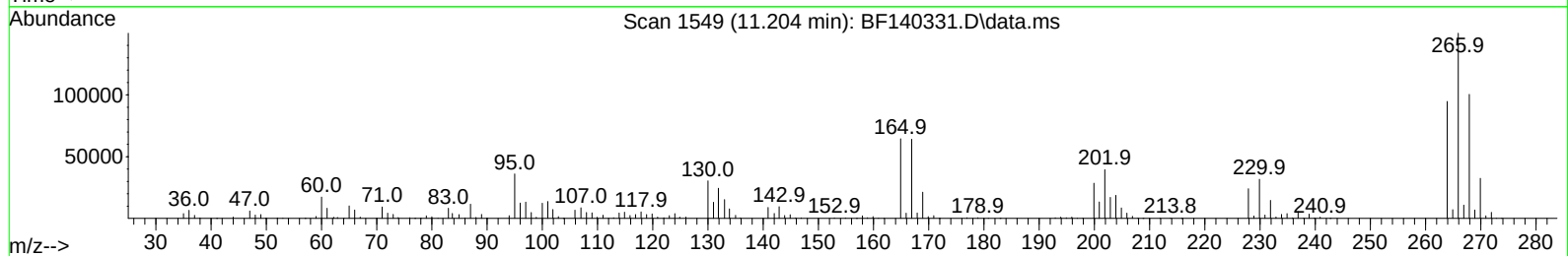
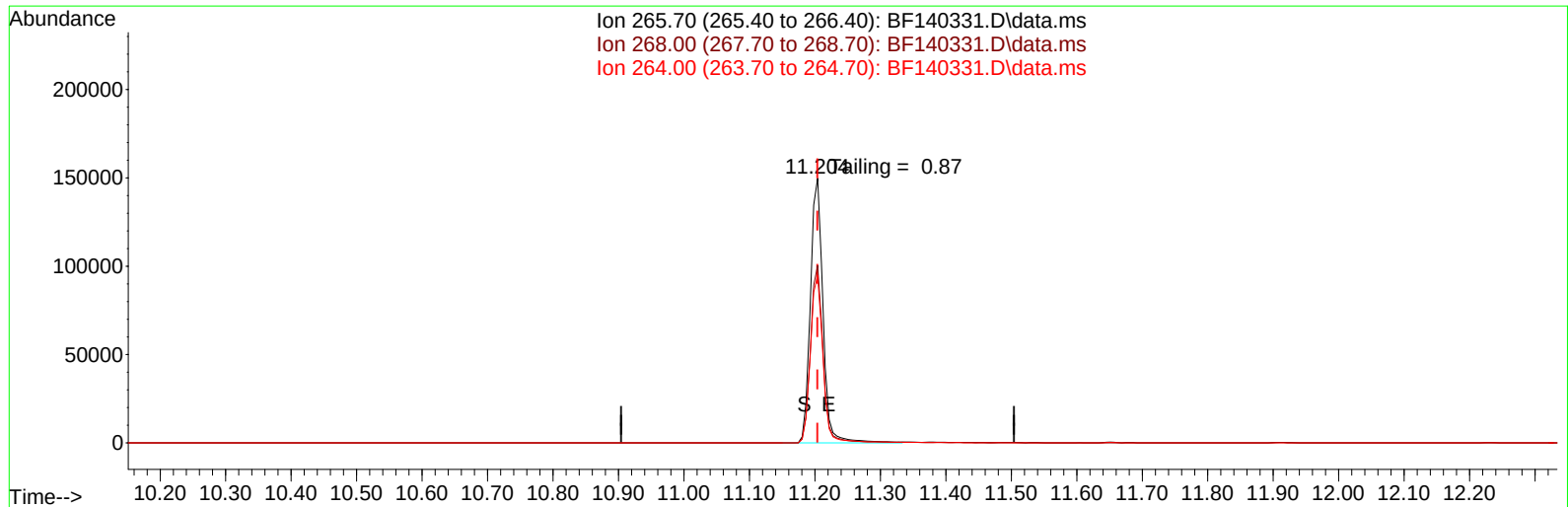
AutoFind: Scans 1624, 1625, 1626; Background Corrected with Scan 1617

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
51	198	10	80	36.9	64757	PASS
68	69	0.00	2	1.8	1226	PASS
69	198	0.00	100	38.0	66677	PASS
70	69	0.00	2	0.6	372	PASS
127	198	10	80	48.6	85245	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	175296	PASS
199	198	5	9	6.4	11148	PASS
275	198	10	60	28.3	49536	PASS
365	198	1	100	3.5	6203	PASS
441	198	0.01	100	14.0	24595	PASS
442	442	50	100	100.0	155288	PASS
443	442	15	24	18.8	29203	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140331.D
Acq On : 13 Nov 2024 08:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 13 14:44:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



TIC: BF140331.D\data.ms

(70) Pentachlorophenol (C)

11.204min (0.000) 23118.21 ng

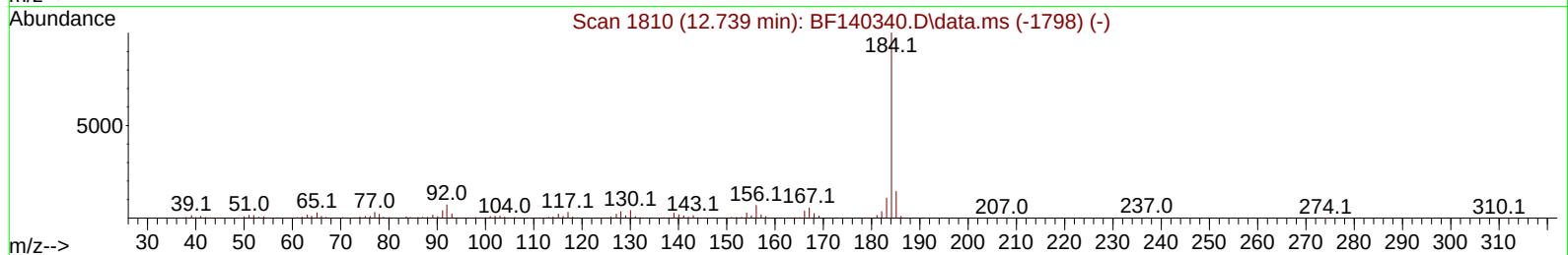
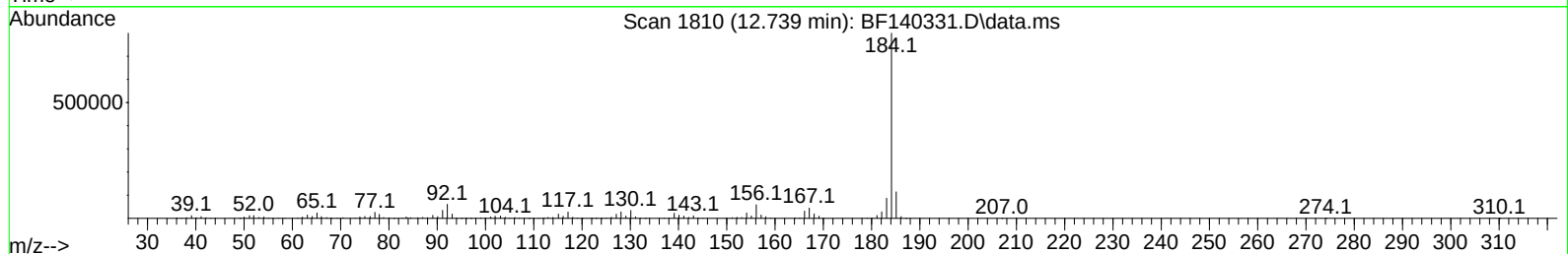
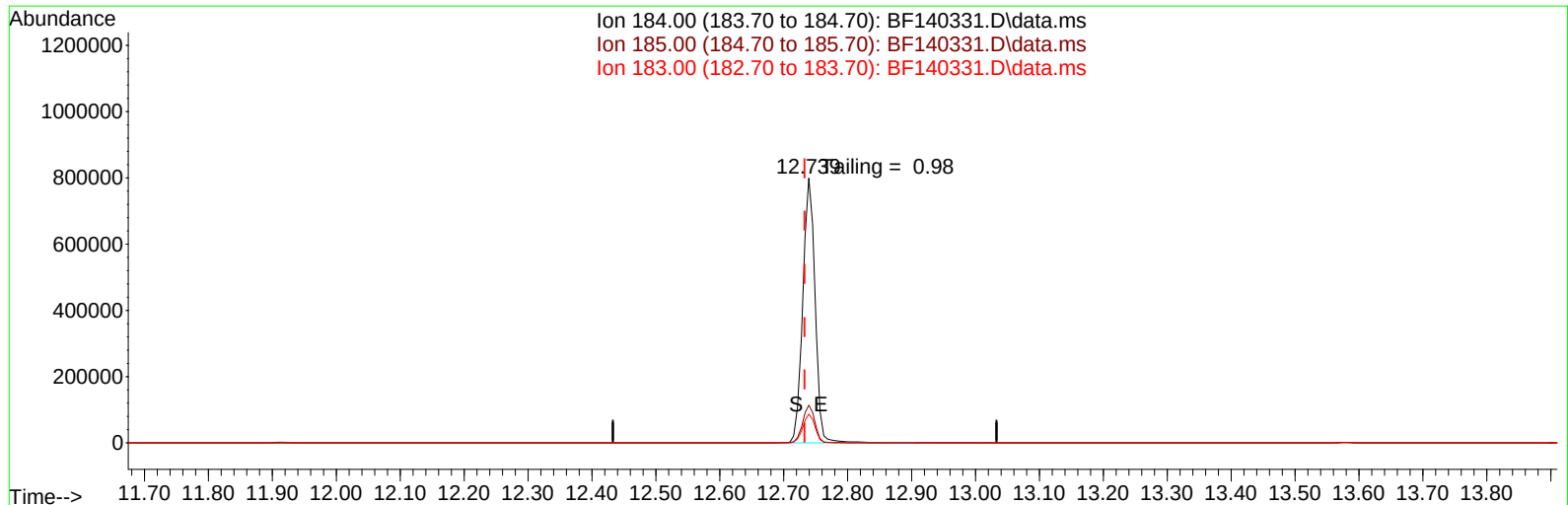
response 201406

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	66.10	67.05
264.00	62.90	63.20
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111324\
Data File : BF140331.D
Acq On : 13 Nov 2024 08:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 13 14:44:41 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



TIC: BF140331.D\data.ms

(77) Benzidine

12.739min (+ 0.006) 47514.94 ng

response 1075955

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.90	14.29
183.00	10.80	10.88
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/13/2024	BNA_F	<u>BF140331.D</u>
Compound Name	Response	Retention Time
DDT	544964	13.58
DDD	17817	13.269
DDE	776	12.927
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
18593	563557	3.30

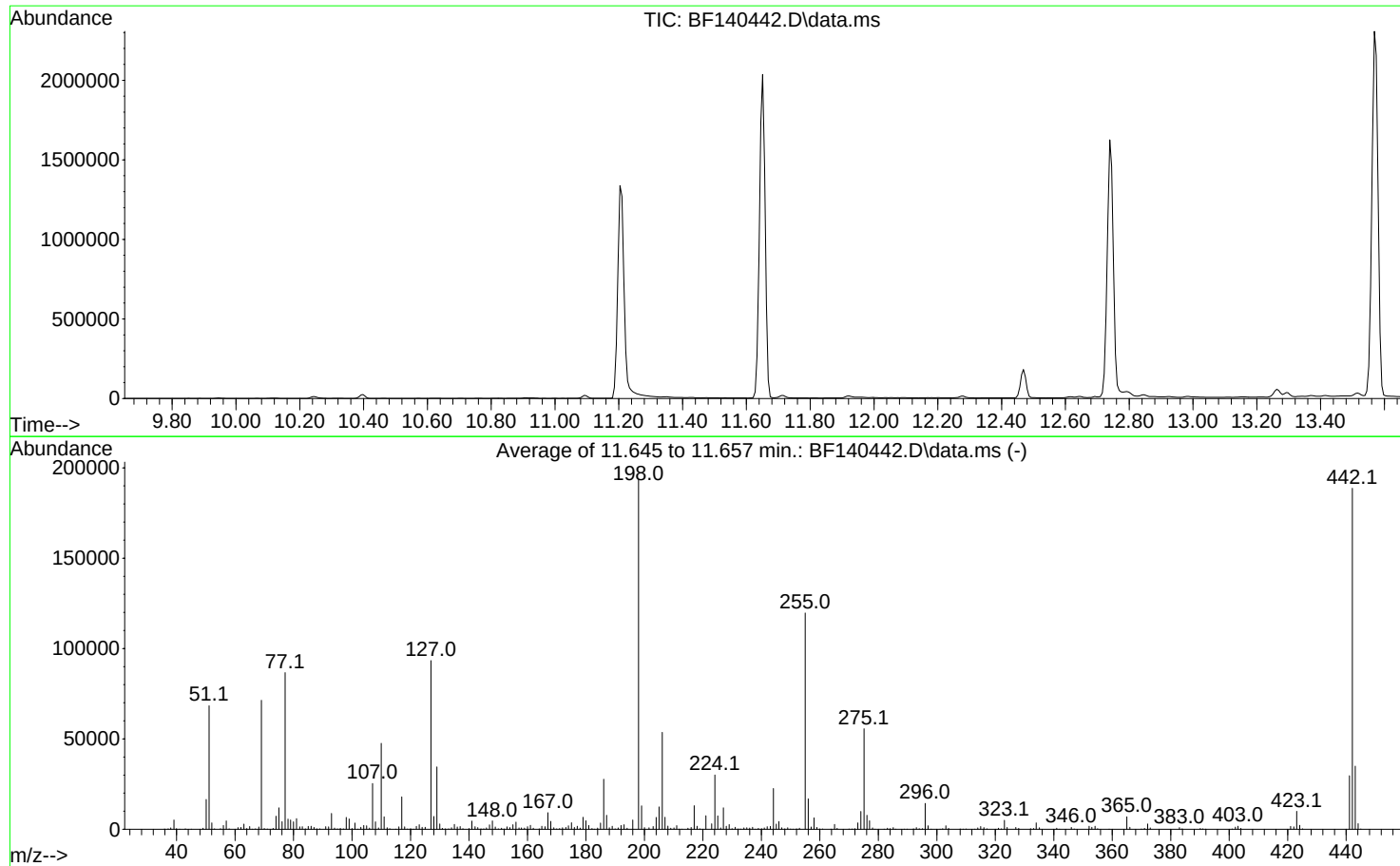
Instrument :
BNA_F
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140442.D
Acq On : 18 Nov 2024 09:18
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-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 14:40:06 2024



AutoFind: Scans 1624, 1625, 1626; Background Corrected with Scan 1617

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.3	68384	PASS
68	69	0.00	2	1.8	1271	PASS
69	198	0.00	100	36.9	71384	PASS
70	69	0.00	2	0.7	466	PASS
127	198	10	80	48.2	93325	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	193493	PASS
199	198	5	9	6.7	12961	PASS
275	198	10	60	28.7	55613	PASS
365	198	1	100	3.6	6893	PASS
441	198	0.01	100	15.3	29637	PASS
442	442	50	100	100.0	188736	PASS
443	442	15	24	18.5	34960	PASS

DDT Breakdown

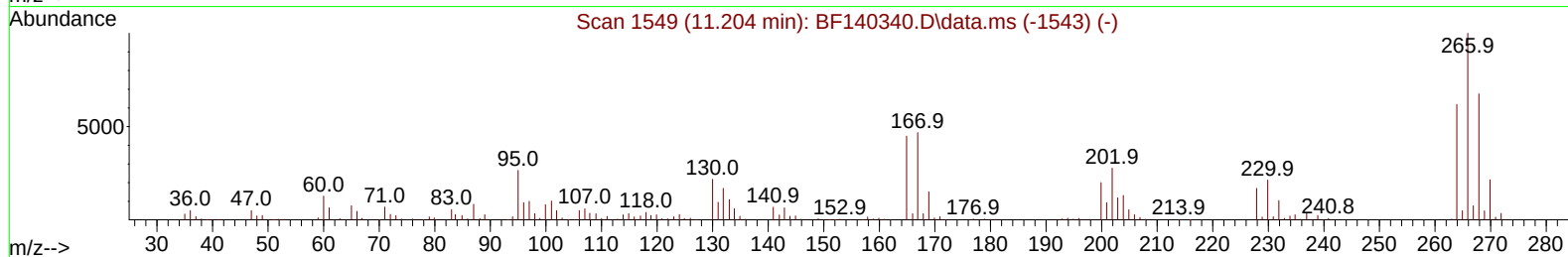
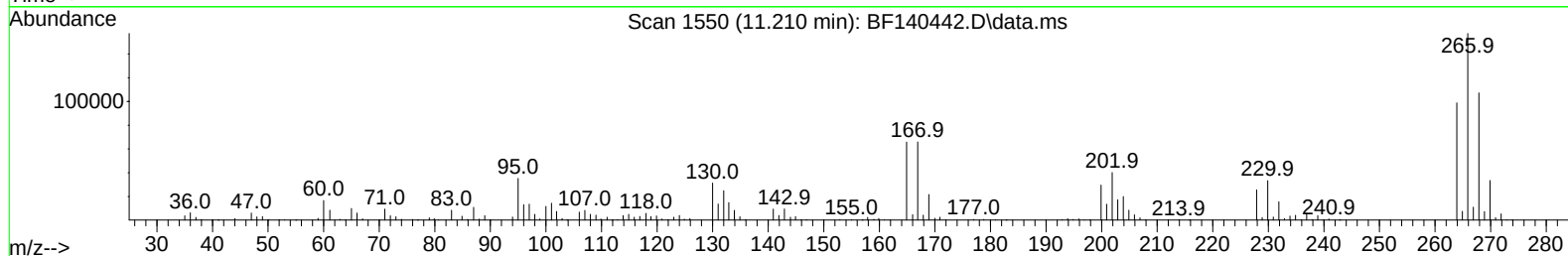
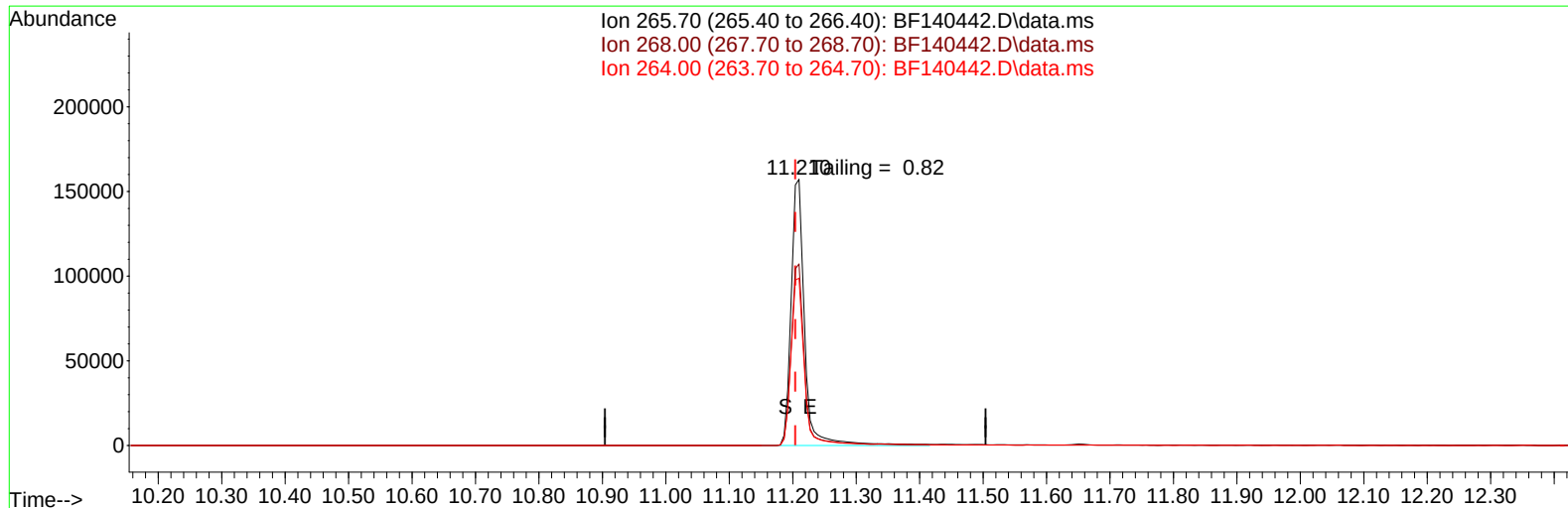
Date	Instrument Name	DFTPP Data File
11/18/2024	BNA_F	<u>BF140442.D</u>
Compound Name	Response	Retention Time
DDT	601041	13.568
DDD	19319	13.263
DDE	1174	12.927
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
20493	621534	3.30

Instrument :
BNA_F
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140442.D
Acq On : 18 Nov 2024 09:18
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 18 11:35:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



TIC: BF140442.D\data.ms

(70) Pentachlorophenol (C)

11.210min (+ 0.006) 54990.18 ng

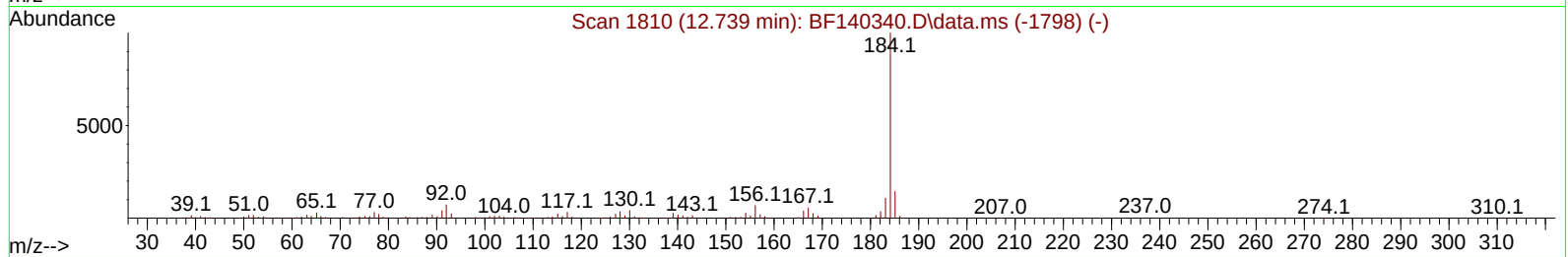
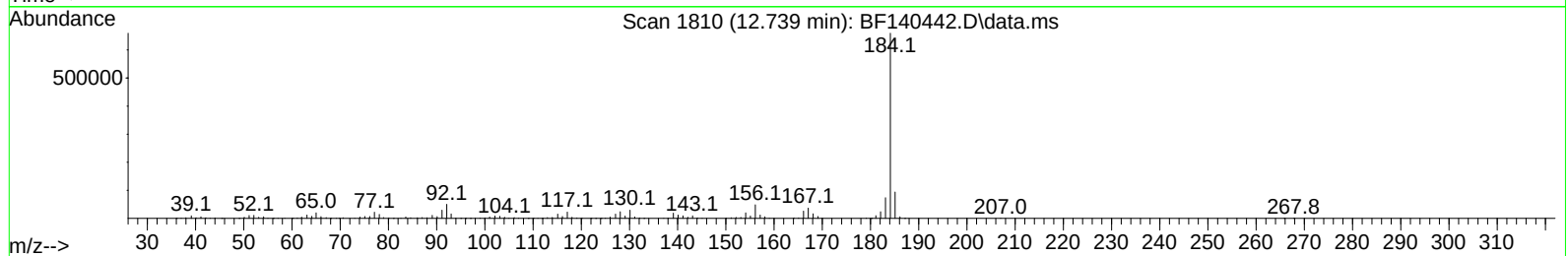
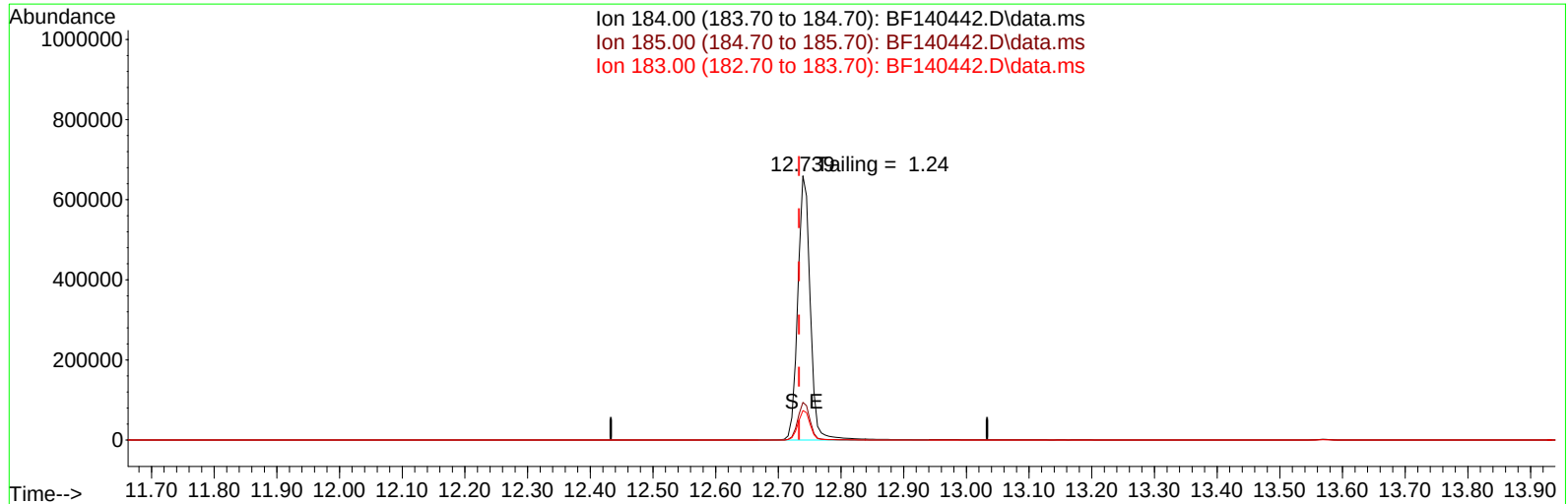
response 234207

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	66.10	68.23
264.00	62.90	62.85
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140442.D
Acq On : 18 Nov 2024 09:18
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 18 11:35:59 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



TIC: BF140442.D\data.ms

(77) Benzidine

12.739min (+ 0.006) 29617.83 ng

response 919631

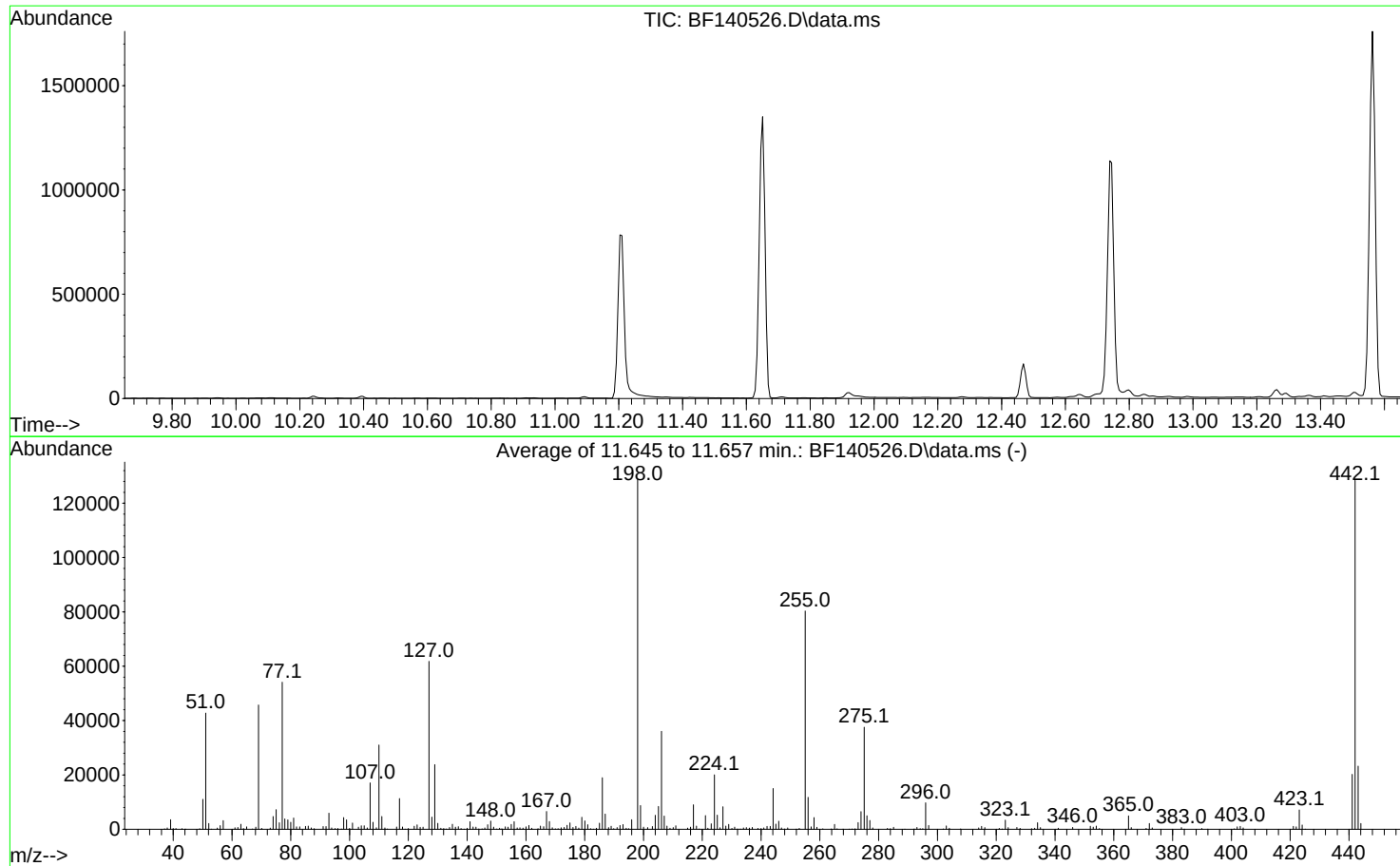
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.90	14.26
183.00	10.80	11.18
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140526.D
Acq On : 21 Nov 2024 10:17
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-BF112124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 21 15:23:48 2024



AutoFind: Scans 1624, 1625, 1626; Background Corrected with Scan 1617

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.3	42792	PASS
68	69	0.00	2	1.8	810	PASS
69	198	0.00	100	35.5	45731	PASS
70	69	0.00	2	0.7	327	PASS
127	198	10	80	48.0	61811	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	128688	PASS
199	198	5	9	6.8	8723	PASS
275	198	10	60	29.2	37552	PASS
365	198	1	100	3.8	4944	PASS
441	198	0.01	100	15.7	20189	PASS
442	442	50	100	100.0	128421	PASS
443	442	15	24	18.1	23261	PASS

DDT Breakdown

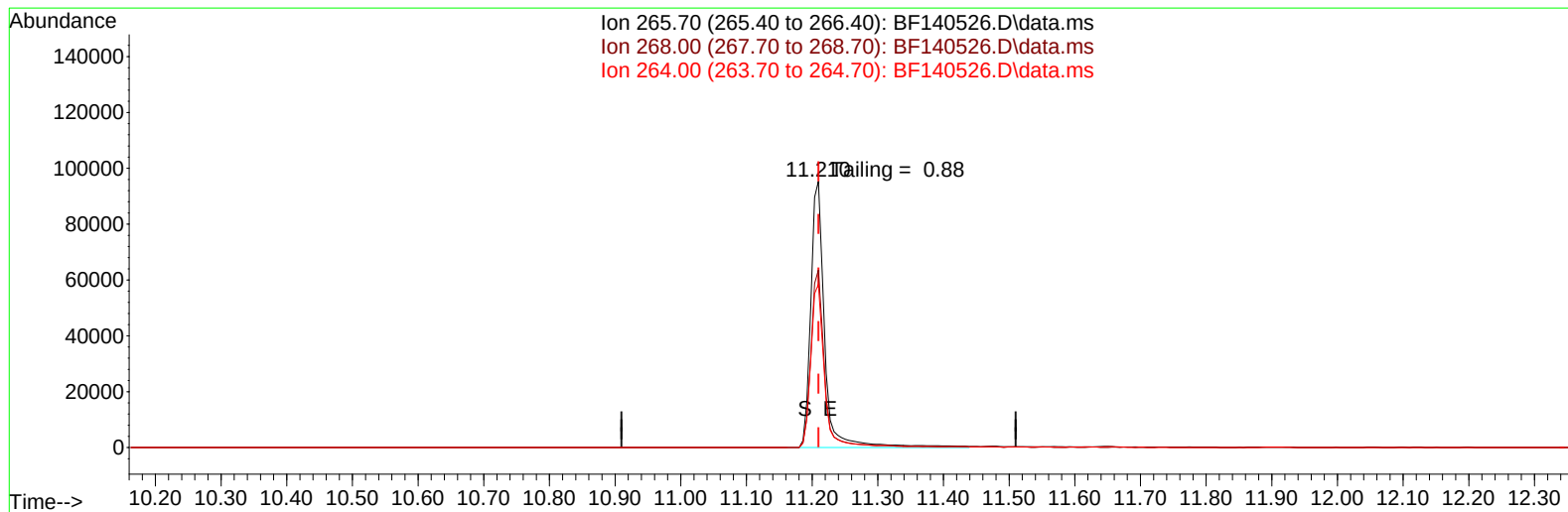
Date	Instrument Name	DFTPP Data File
11/21/2024	BNA_F	<u>BF140526.D</u>
Compound Name	Response	Retention Time
DDT	424151	13.562
DDD	14557	13.262
DDE	1132	12.921
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
15689	439840	3.57

Instrument :
BNA_F
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140526.D
Acq On : 21 Nov 2024 10:17
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

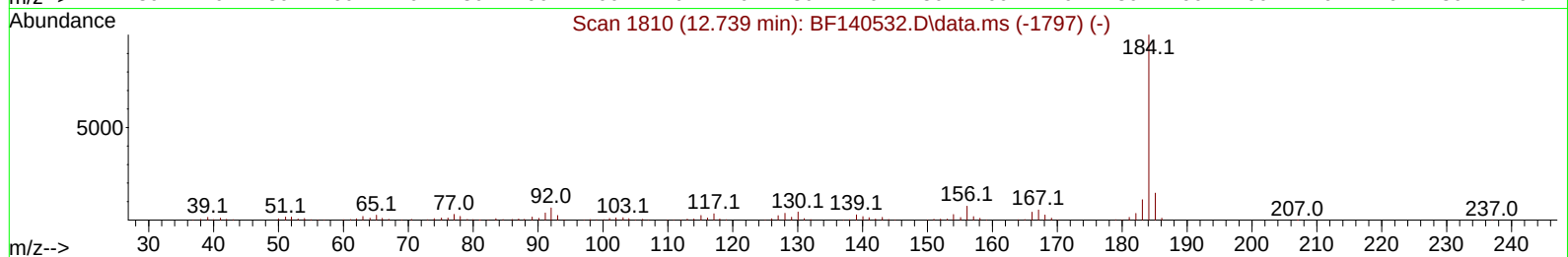
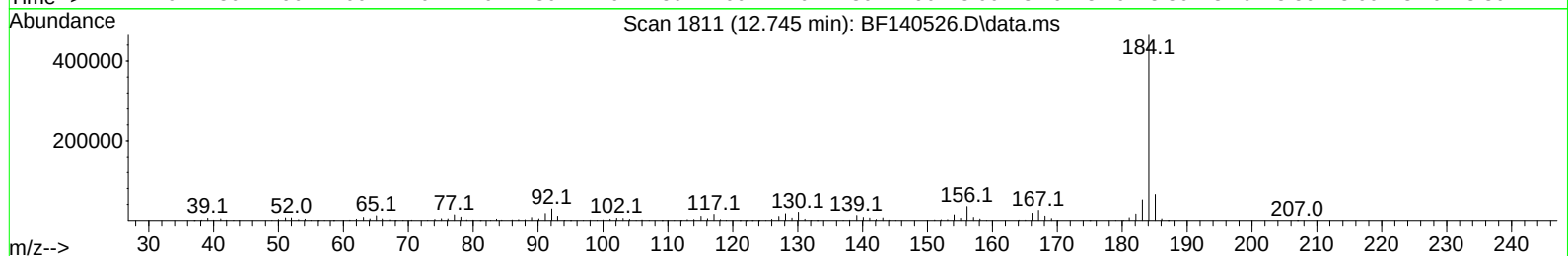
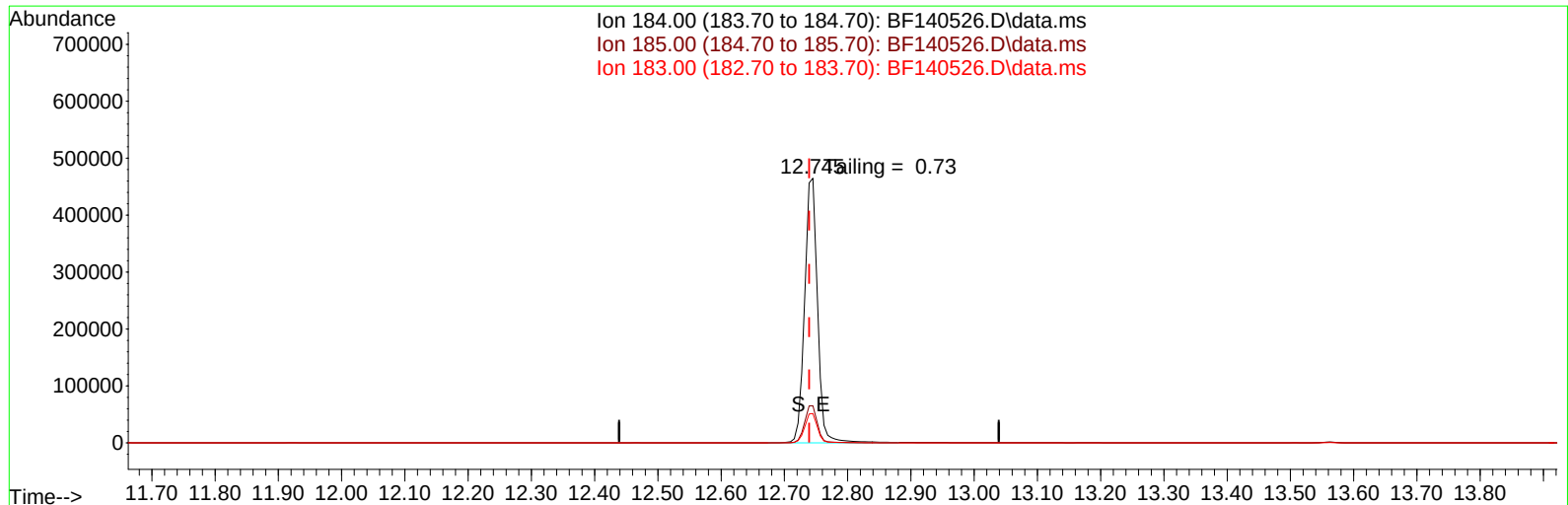
Quant Time: Nov 21 15:24:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112124\
Data File : BF140526.D
Acq On : 21 Nov 2024 10:17
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 21 15:24:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



TIC: BF140526.D\data.ms

(77) Benzidine

12.745min (+ 0.006) 32779.12 ng

response 668077

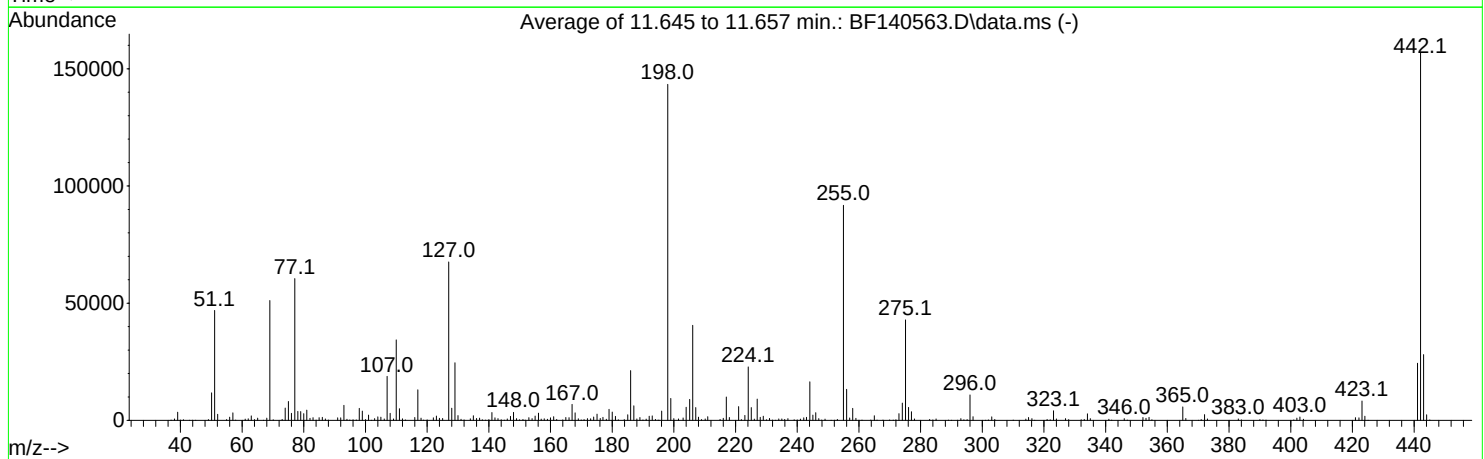
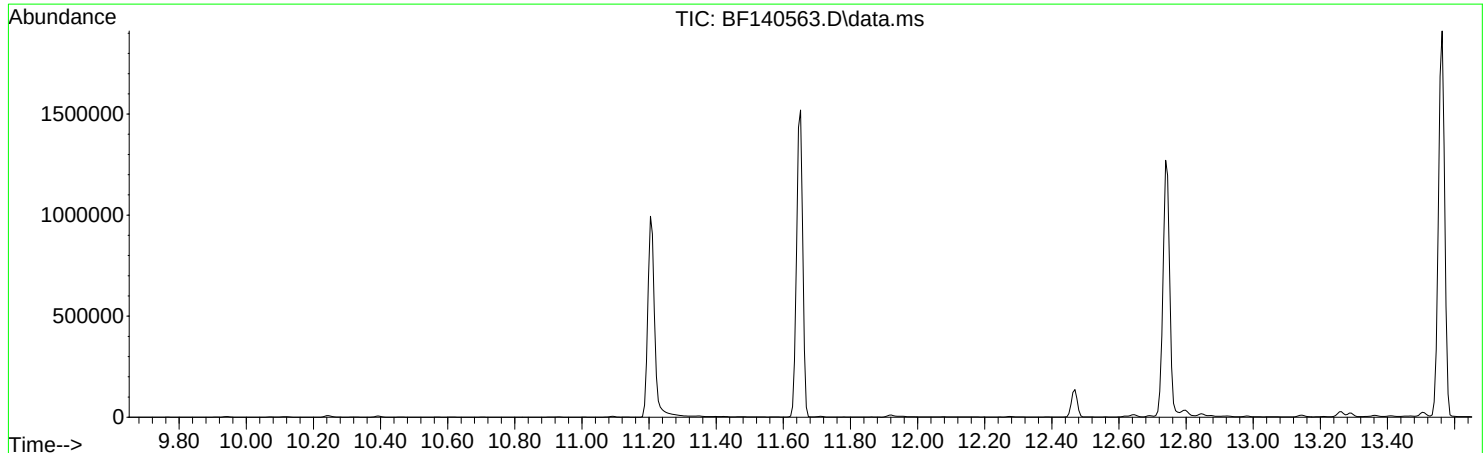
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.60	14.02
183.00	11.00	11.11
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140563.D
Acq On : 22 Nov 2024 08:54
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-BF112124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 21 15:23:48 2024



AutoFind: Scans 1624, 1625, 1626; Background Corrected with Scan 1617

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	32.7	46893	PASS
68	69	0.00	2	1.9	946	PASS
69	198	0.00	100	35.6	51112	PASS
70	69	0.00	2	0.6	290	PASS
127	198	10	80	47.1	67563	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	143381	PASS
199	198	5	9	6.5	9364	PASS
275	198	10	60	29.9	42845	PASS
365	198	1	100	4.0	5775	PASS
441	198	0.01	100	17.0	24371	PASS
442	442	50	100	100.0	156949	PASS
443	442	15	24	17.9	28040	PASS

DDT Breakdown

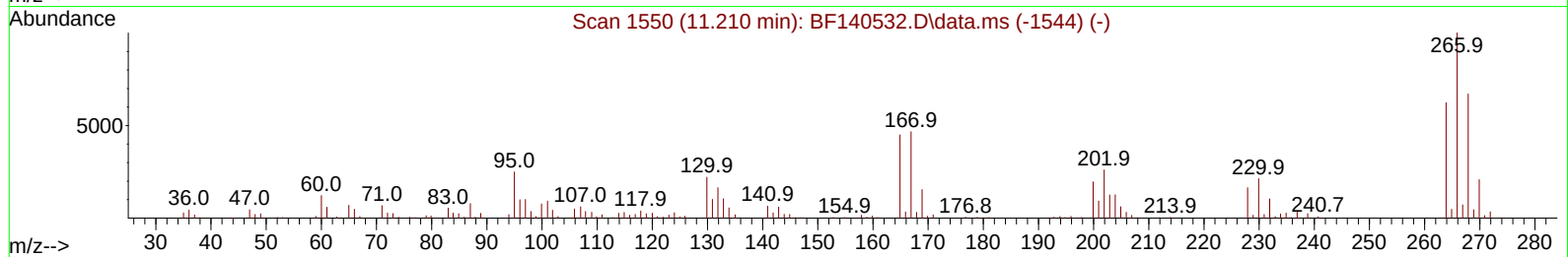
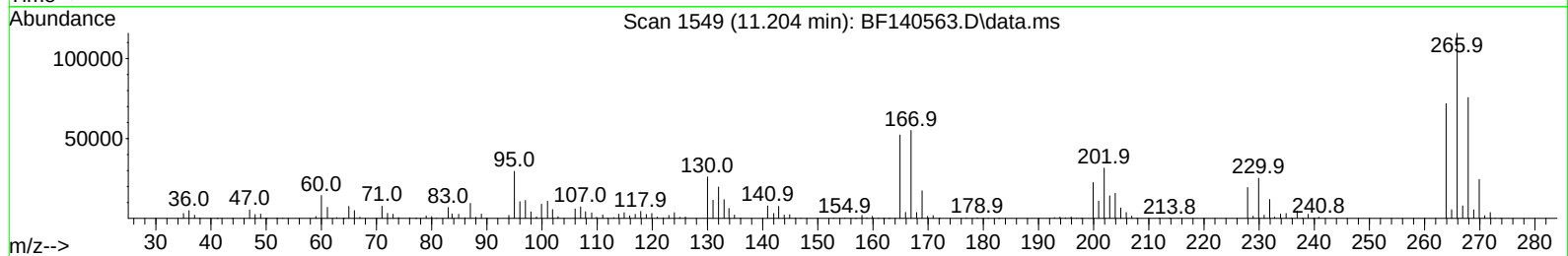
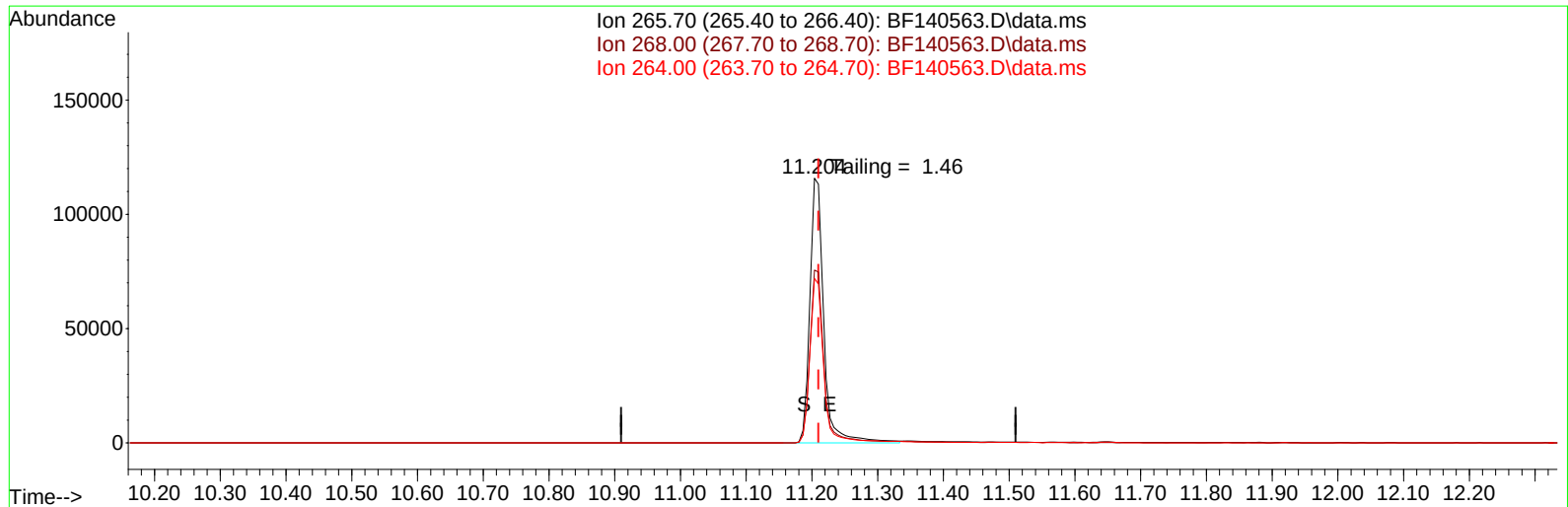
Date	Instrument Name	DFTPP Data File
11/22/2024	BNA_F	<u>BF140563.D</u>
Compound Name	Response	Retention Time
DDT	483691	13.563
DDD	13127	13.263
DDE	1061	12.922
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
14188	497879	2.85

Instrument :
BNA_F
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140563.D
Acq On : 22 Nov 2024 08:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 22 10:51:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



TIC: BF140563.D\data.ms

(70) Pentachlorophenol (C)

11.204min (-0.006) 42216.94 ng

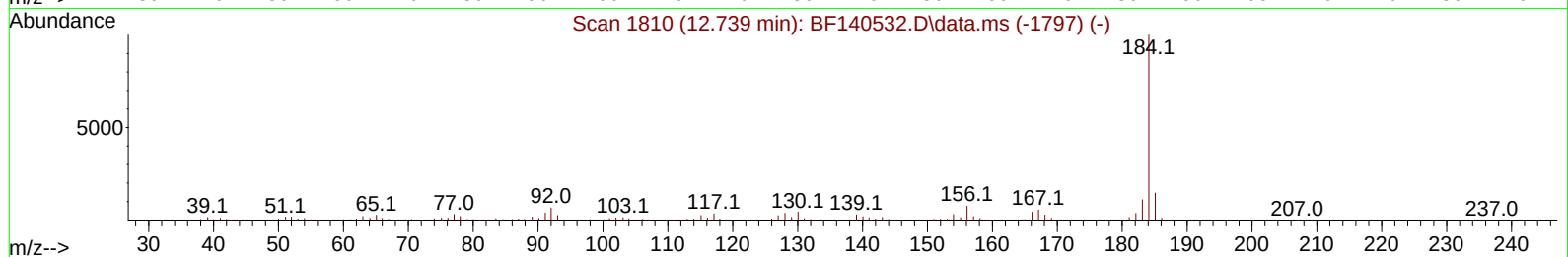
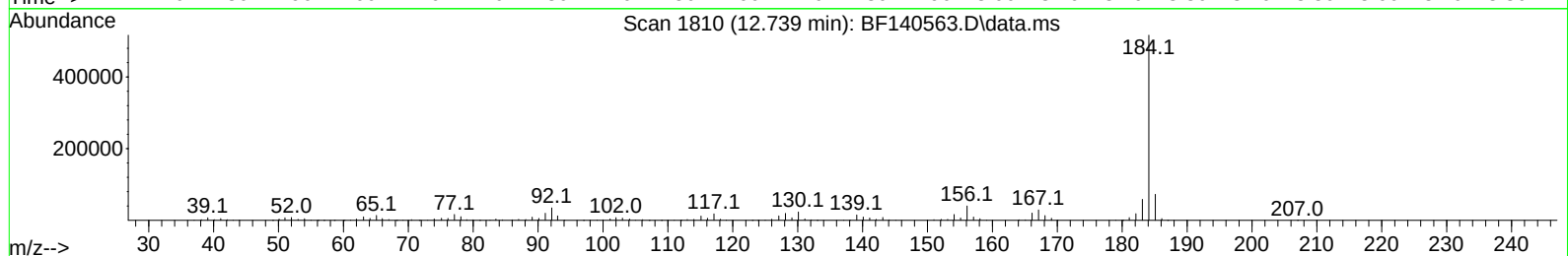
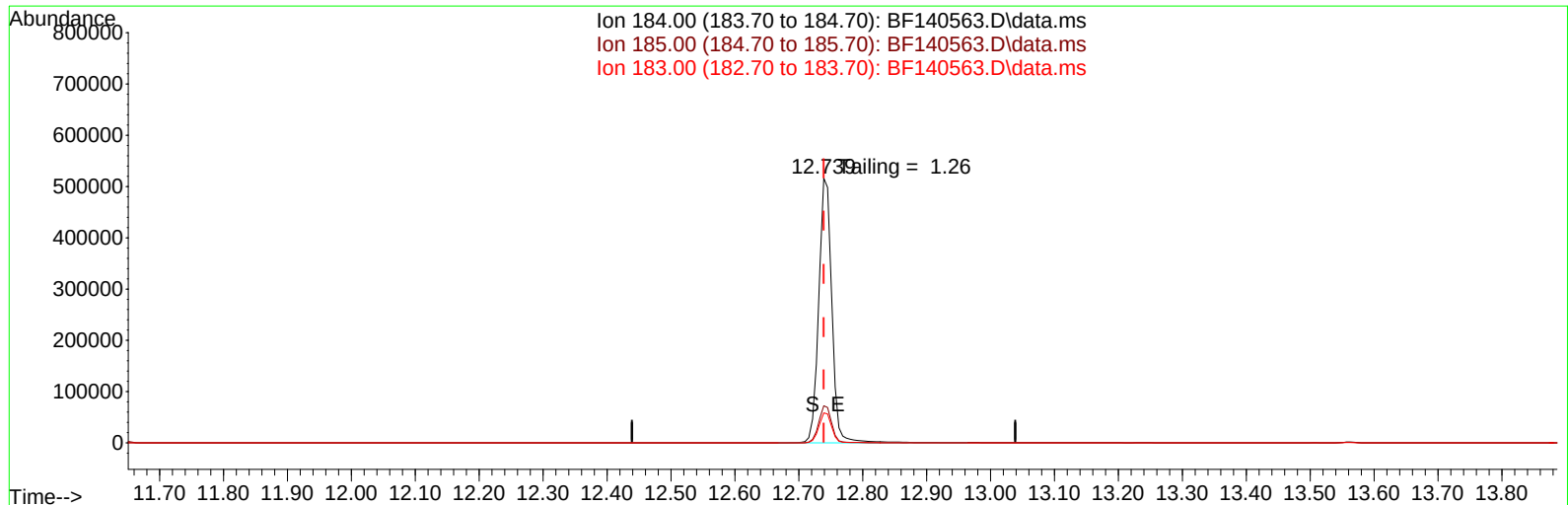
response 170607

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	67.10	65.31
264.00	62.30	62.05
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112224\
Data File : BF140563.D
Acq On : 22 Nov 2024 08:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 22 10:51:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



TIC: BF140563.D\data.ms

(77) Benzidine

12.739min (+ 0.000) 28353.32 ng

response 736975

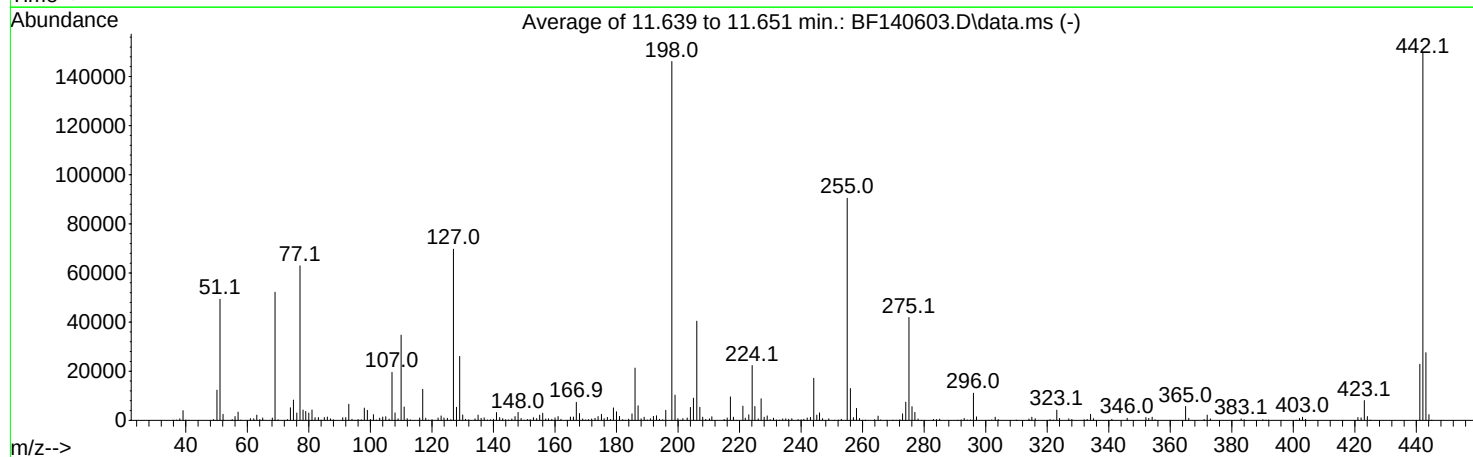
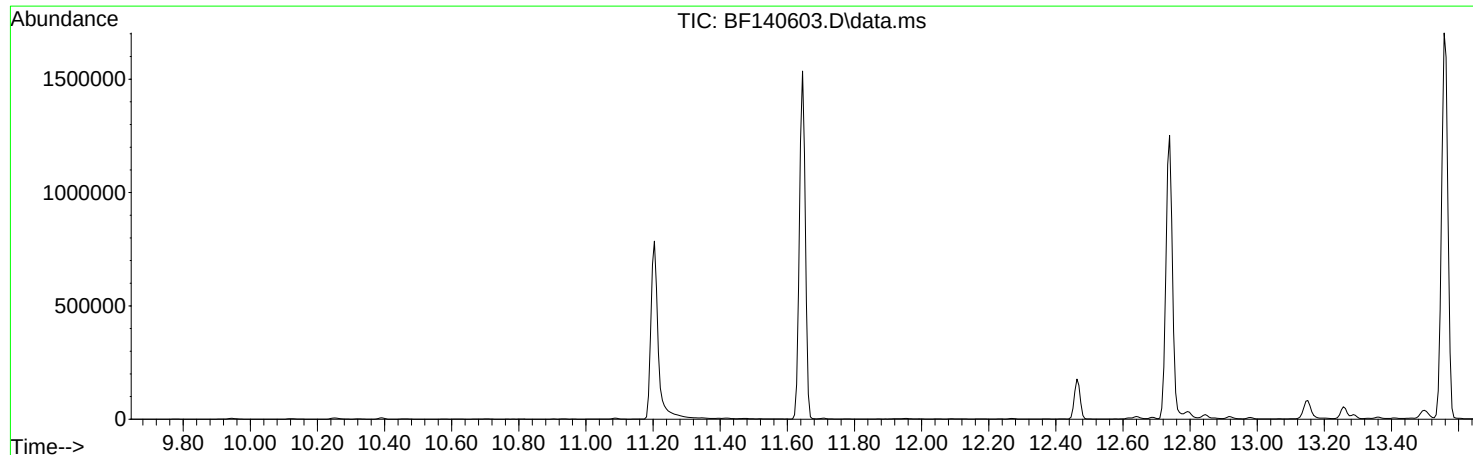
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.60	14.05
183.00	11.00	11.34
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140603.D
Acq On : 25 Nov 2024 15:23
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-BF112124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 21 15:23:48 2024



AutoFind: Scans 1623, 1624, 1625; Background Corrected with Scan 1616

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.8	49309	PASS
68	69	0.00	2	1.8	961	PASS
69	198	0.00	100	35.7	52187	PASS
70	69	0.00	2	0.5	279	PASS
127	198	10	80	47.7	69688	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	146083	PASS
199	198	5	9	7.0	10280	PASS
275	198	10	60	28.7	41893	PASS
365	198	1	100	3.9	5656	PASS
441	198	0.01	100	15.6	22843	PASS
442	442	50	100	100.0	149765	PASS
443	442	15	24	18.4	27568	PASS

DDT Breakdown

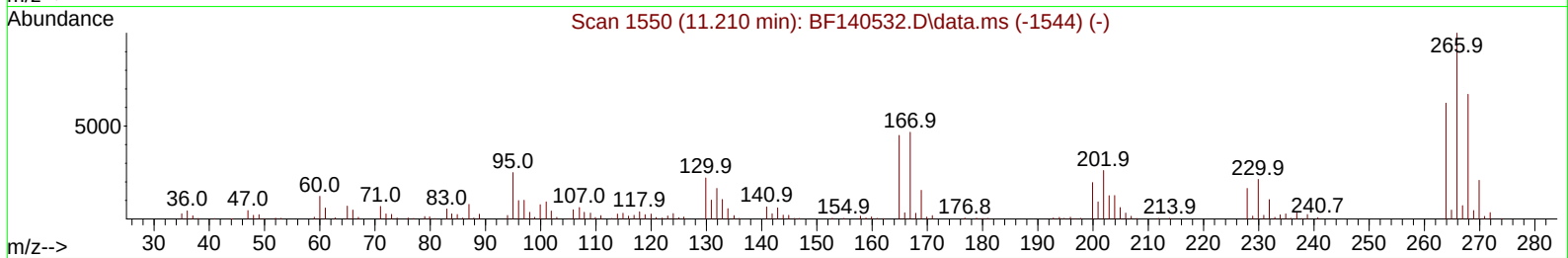
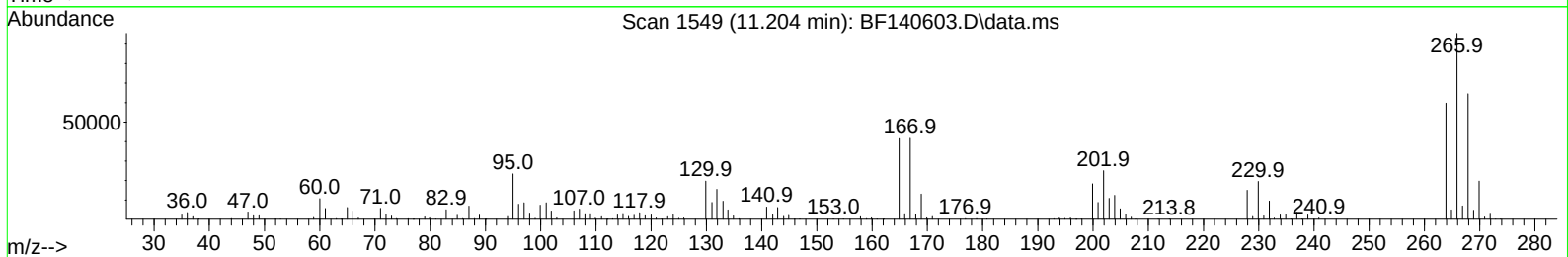
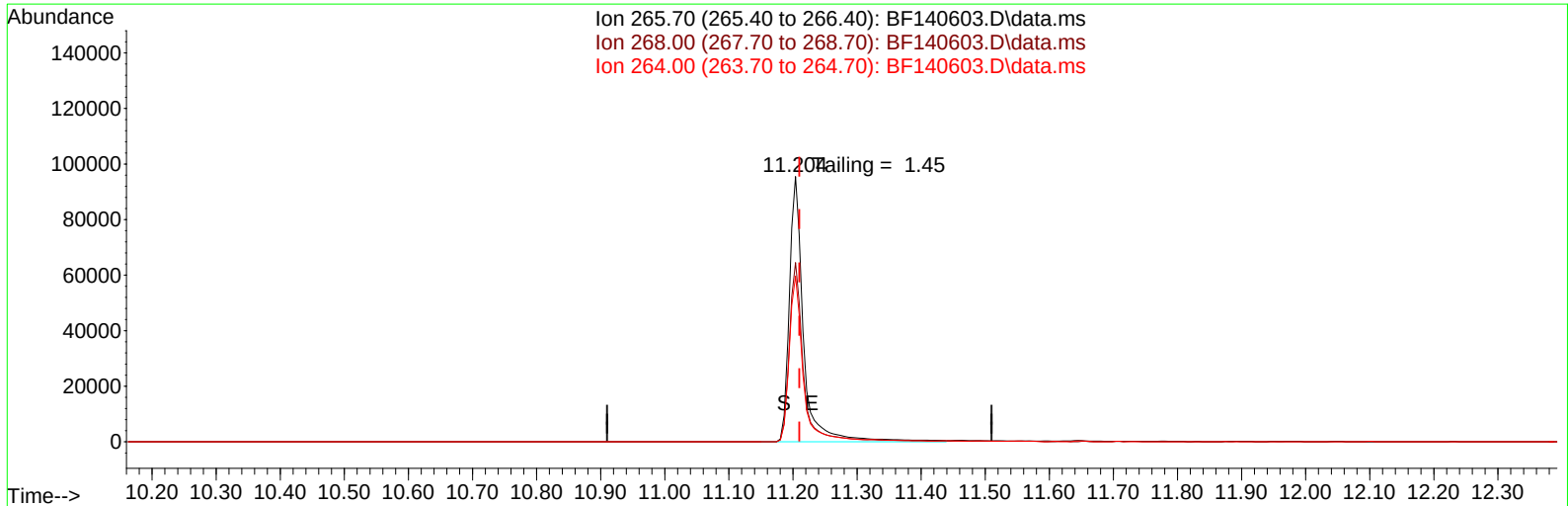
Date	Instrument Name	DFTPP Data File
11/25/2024	BNA_F	<u>BF140603.D</u>
Compound Name	Response	Retention Time
DDT	443715	13.557
DDD	19336	13.257
DDE	2495	12.921
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
21831	465546	4.69

Instrument :
BNA_F
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140603.D
Acq On : 25 Nov 2024 15:23
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 25 15:47:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



TIC: BF140603.D\data.ms

(70) Pentachlorophenol (C)

11.204min (-0.006) 19738.30 ng

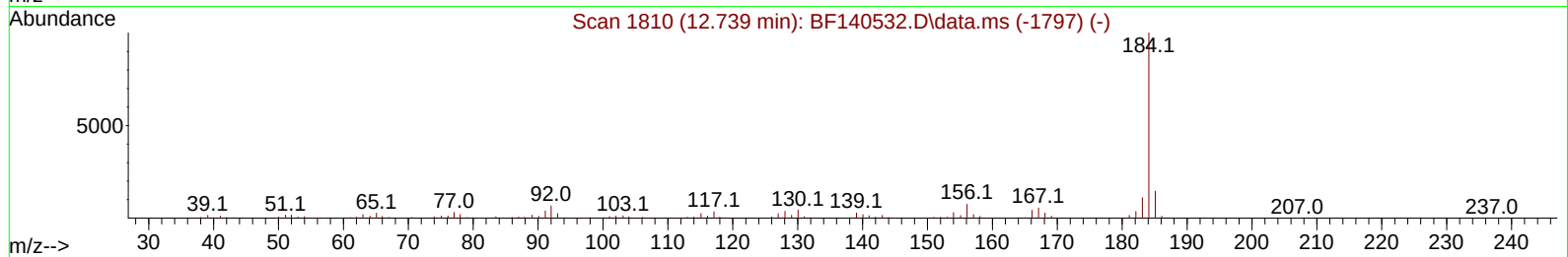
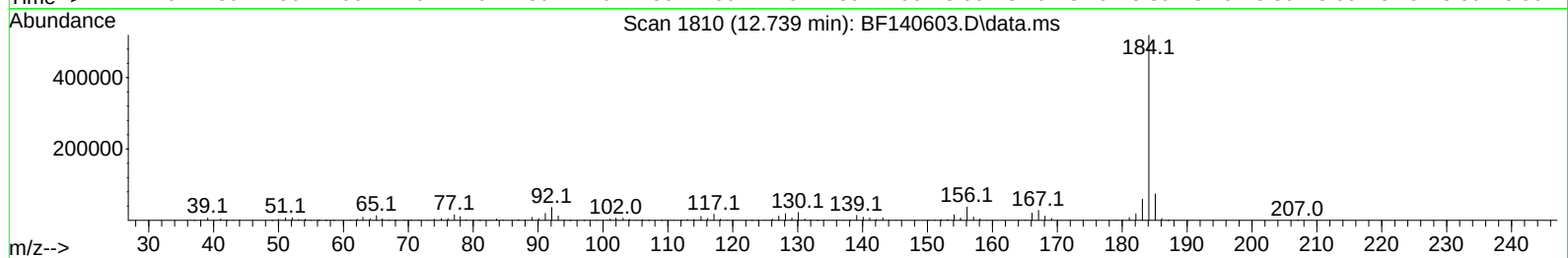
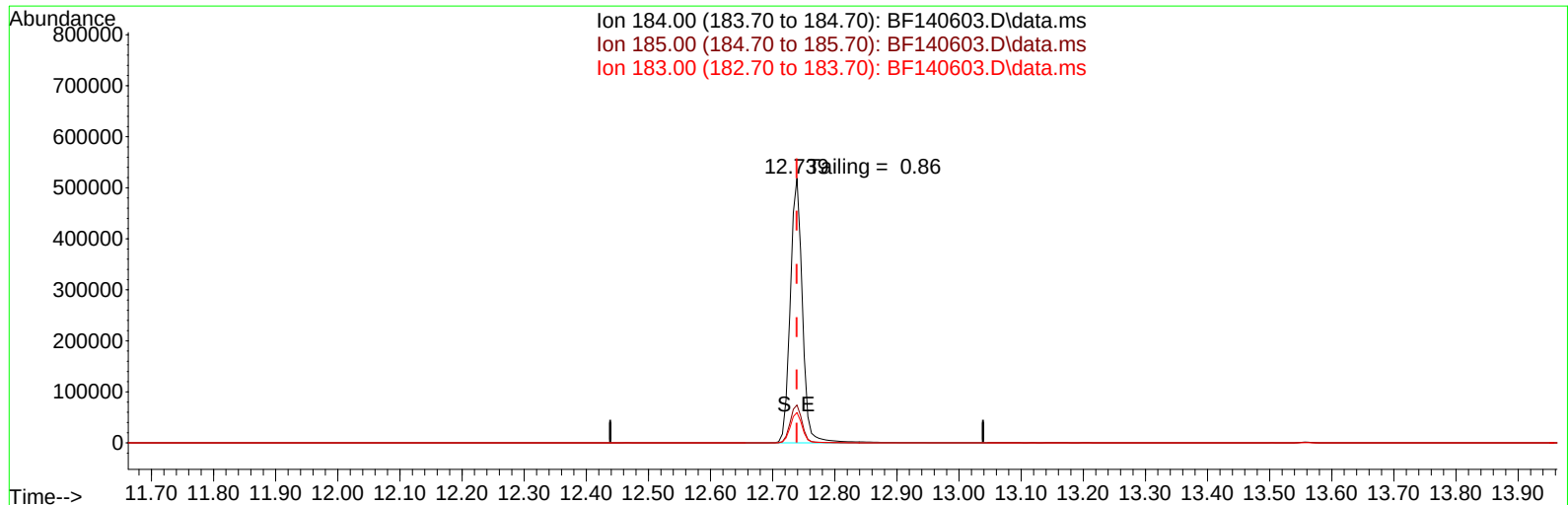
response 147516

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	67.10	67.54
264.00	62.30	62.51
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140603.D
Acq On : 25 Nov 2024 15:23
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 25 15:47:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



TIC: BF140603.D\data.ms

(77) Benzidine

12.739min (+ 0.000) 26793.97 ng

response 714361

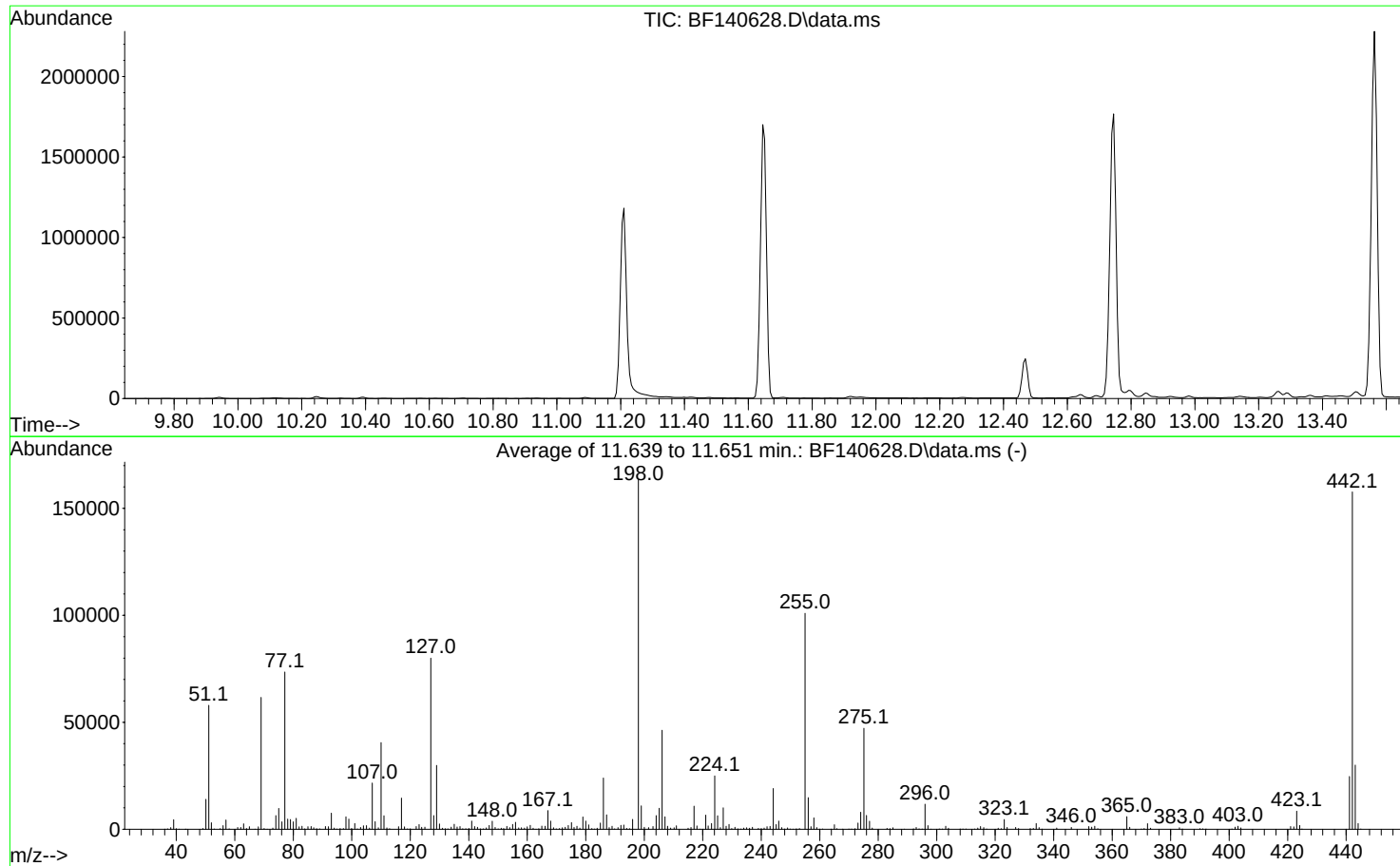
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.60	14.33
183.00	11.00	11.43
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140628.D
Acq On : 26 Nov 2024 09:09
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-BF112124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 21 15:23:48 2024



AutoFind: Scans 1623, 1624, 1625; Background Corrected with Scan 1617

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.5	57963	PASS
68	69	0.00	2	1.9	1165	PASS
69	198	0.00	100	37.7	61659	PASS
70	69	0.00	2	0.6	363	PASS
127	198	10	80	48.9	79981	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	163443	PASS
199	198	5	9	6.7	10921	PASS
275	198	10	60	28.9	47219	PASS
365	198	1	100	3.6	5879	PASS
441	198	0.01	100	15.1	24700	PASS
442	442	50	100	100.0	157699	PASS
443	442	15	24	19.0	29968	PASS

DDT Breakdown

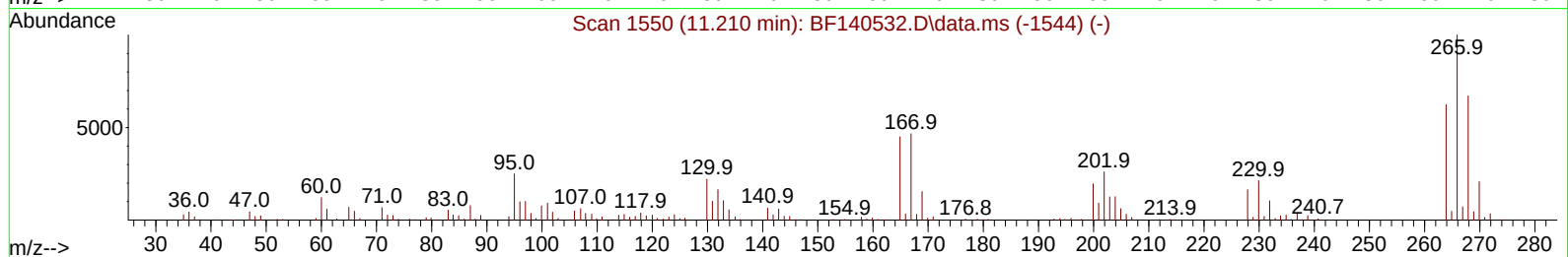
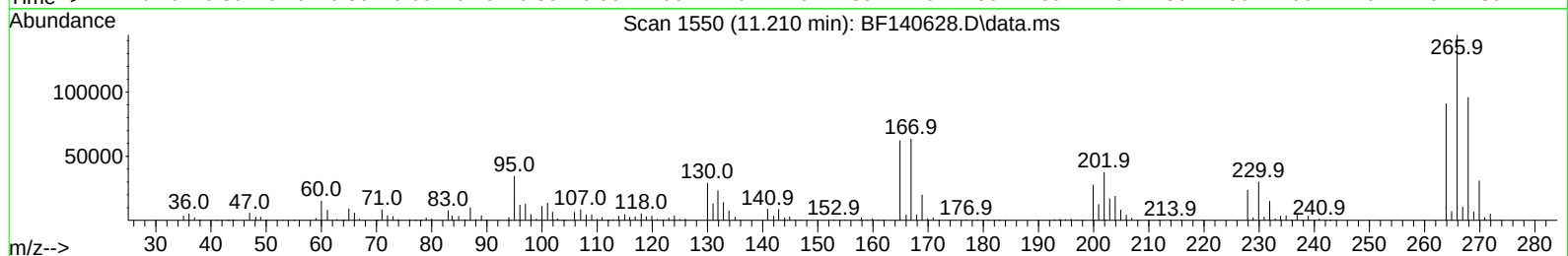
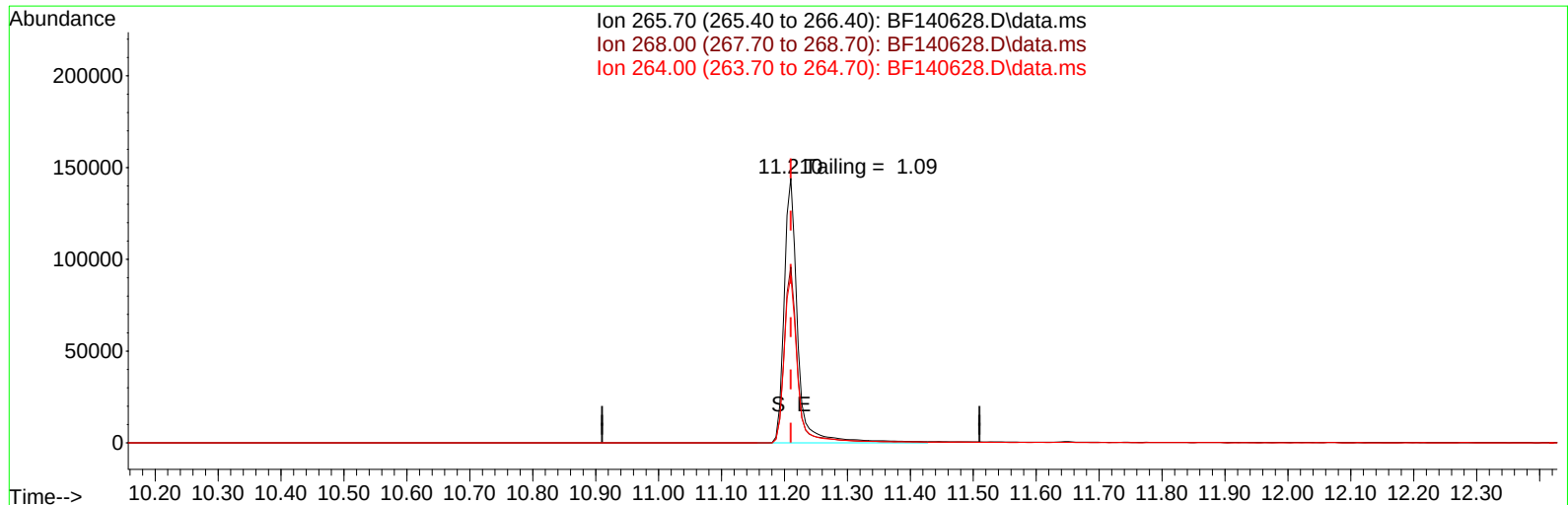
Date	Instrument Name	DFTPP Data File
11/26/2024	BNA_F	<u>BF140628.D</u>
Compound Name	Response	Retention Time
DDT	583893	13.563
DDD	16620	13.263
DDE	2795	12.922
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
19415	603308	3.22

Instrument :
BNA_F
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140628.D
Acq On : 26 Nov 2024 09:09
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 26 10:51:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



TIC: BF140628.D\data.ms

(70) Pentachlorophenol (C)

11.210min (-0.000) 21857.61 ng

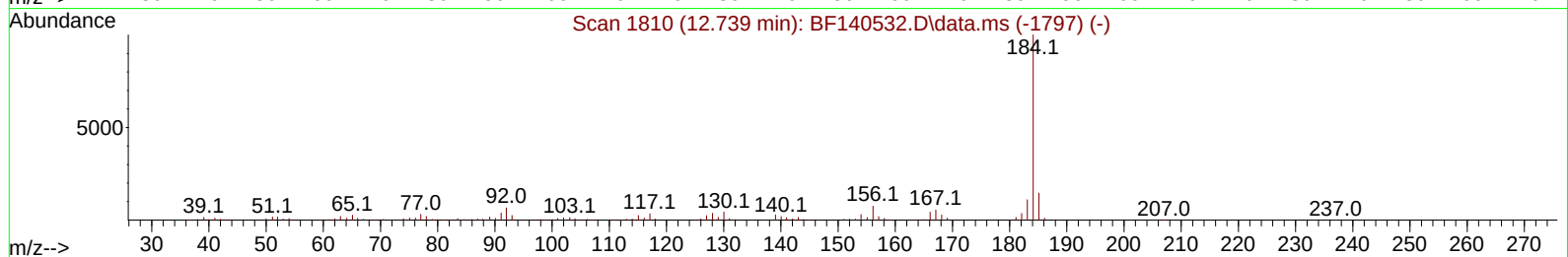
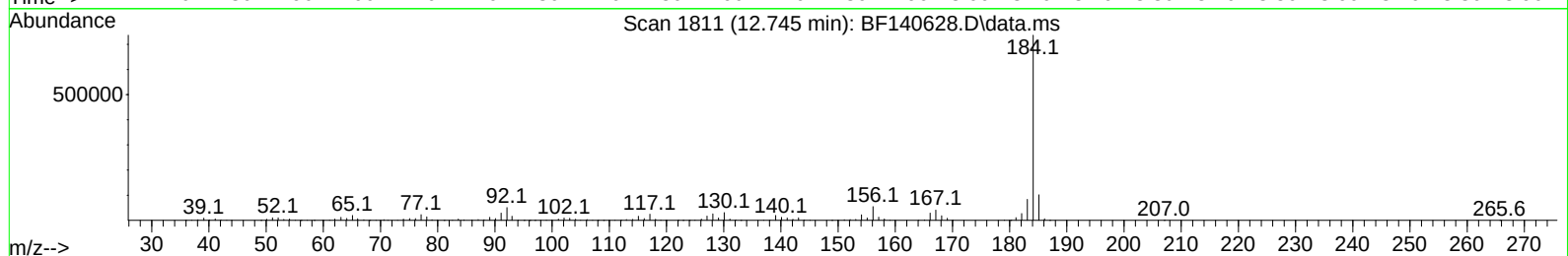
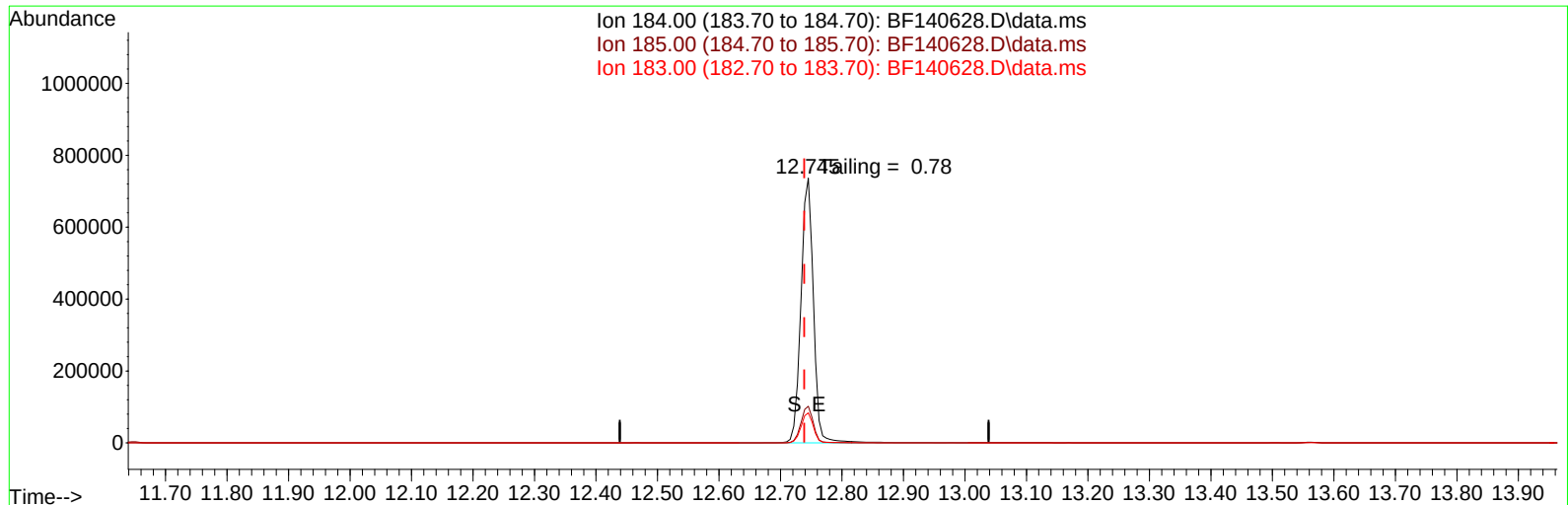
response 216927

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	67.10	66.44
264.00	62.30	63.05
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140628.D
Acq On : 26 Nov 2024 09:09
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Nov 26 10:51:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



TIC: BF140628.D\data.ms

(77) Benzidine

12.745min (+ 0.006) 20800.75 ng

response 1043833

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.60	13.84
183.00	11.00	11.34
0.00	0.00	0.00

Report of Analysis

Client:	Tetra Tech	Date Collected:	
Project:	Ocean County Landfill 2024	Date Received:	
Client Sample ID:	PB165029BL	SDG No.:	P4860
Lab Sample ID:	PB165029BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140444.D	1	11/16/24 08:51	11/18/24 10:39	PB165029

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

Report of Analysis

Client:	Tetra Tech	Date Collected:	
Project:	Ocean County Landfill 2024	Date Received:	
Client Sample ID:	PB165029BL	SDG No.:	P4860
Lab Sample ID:	PB165029BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140444.D	1	11/16/24 08:51	11/18/24 10:39	PB165029

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

Report of Analysis

Client:	Tetra Tech	Date Collected:	
Project:	Ocean County Landfill 2024	Date Received:	
Client Sample ID:	PB165029BL	SDG No.:	P4860
Lab Sample ID:	PB165029BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140444.D	1	11/16/24 08:51	11/18/24 10:39	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	82.6	U	82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	93.0	U	93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.1	U	78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.2	U	81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.1	U	80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.8	U	86.8	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.7	U	74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	124		30 (18) - 130 (112)	83%	SPK: 150
13127-88-3	Phenol-d6	120		30 (15) - 130 (107)	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	85.3		30 (18) - 130 (107)	85%	SPK: 100
321-60-8	2-Fluorobiphenyl	88.5		30 (20) - 130 (109)	88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	126		30 (10) - 130 (116)	84%	SPK: 150
1718-51-0	Terphenyl-d14	88.4		30 (10) - 130 (105)	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	143000	6.875			
1146-65-2	Naphthalene-d8	546000	8.151			
15067-26-2	Acenaphthene-d10	305000	9.91			
1517-22-2	Phenanthrene-d10	581000	11.398			
1719-03-5	Chrysene-d12	355000	14.045			
1520-96-3	Perylene-d12	296000	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	70.3	J		2.22	ug/Kg
006311-48-4	(1,1-Biphenyl)-4,4-diamine, N,N	160	J		17.4	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	
Project:	Ocean County Landfill 2024	Date Received:	
Client Sample ID:	PB165029BL	SDG No.:	P4860
Lab Sample ID:	PB165029BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140444.D	1	11/16/24 08:51	11/18/24 10:39	PB165029

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\BF111824\
Data File : BF140444.D
Acq On : 18 Nov 2024 10:39
Operator : RC/JU
Sample : PB165029BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165029BL

Quant Time: Nov 18 11:37:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	142751	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	545917	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	305122	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	581224	20.000	ng	0.00
76) Chrysene-d12	14.045	240	355427	20.000	ng	0.00
86) Perylene-d12	15.545	264	295657	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1035618	123.866	ng	0.02
7) Phenol-d6	6.516	99	1358724	119.949	ng	0.01
23) Nitrobenzene-d5	7.434	82	893759	85.301	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	382445	126.045	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	1679654	88.493	ng	0.00
79) Terphenyl-d14	12.986	244	1809956	88.392	ng	0.00

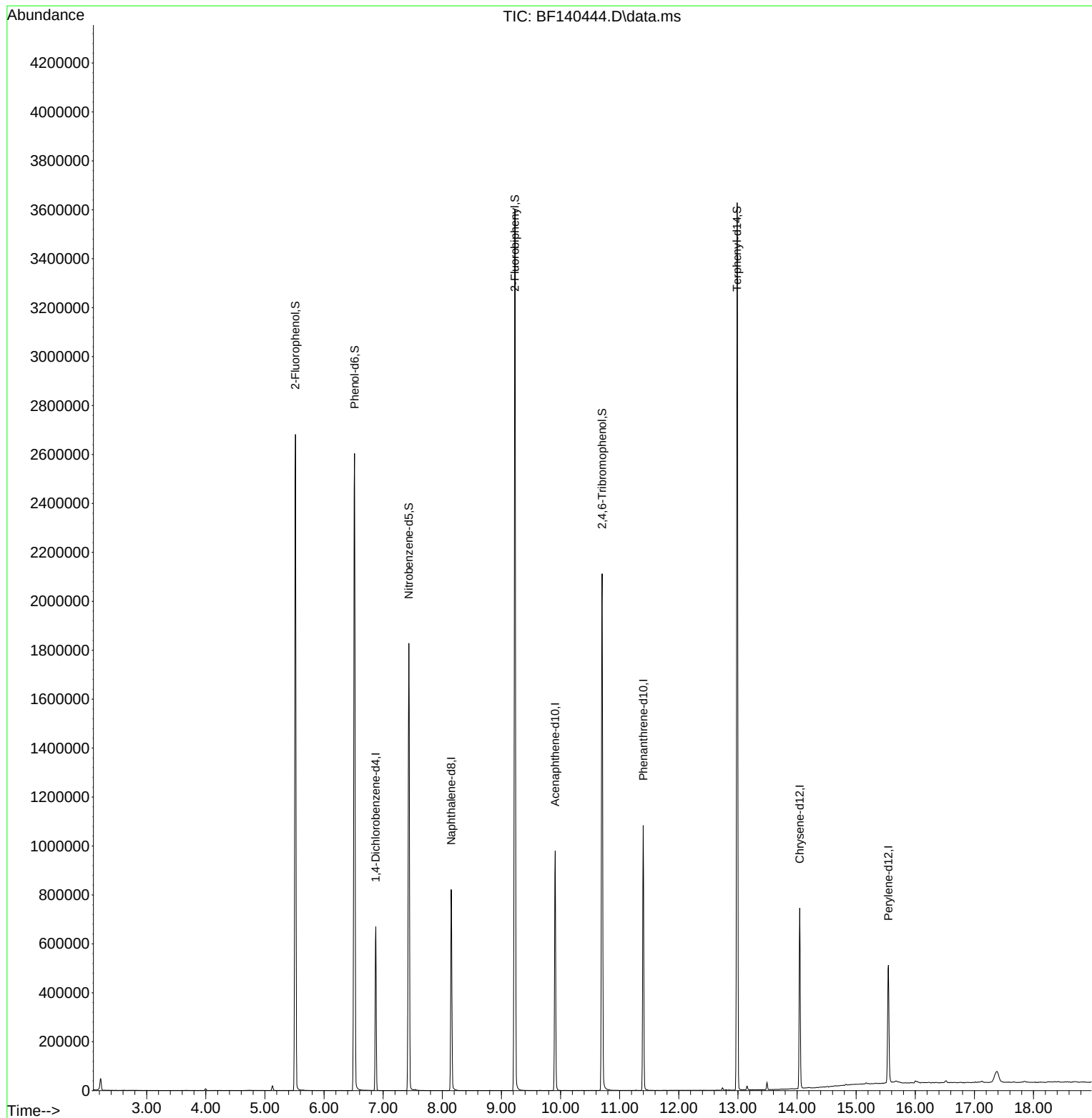
Target Compounds	Qvalue

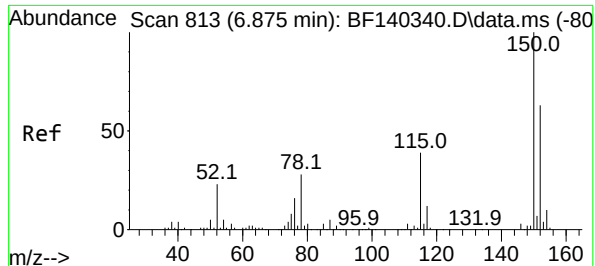
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140444.D
Acq On : 18 Nov 2024 10:39
Operator : RC/JU
Sample : PB165029BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165029BL

Quant Time: Nov 18 11:37:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

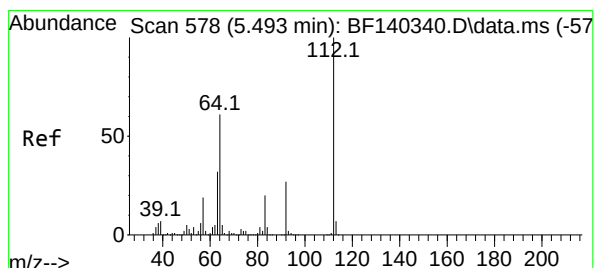
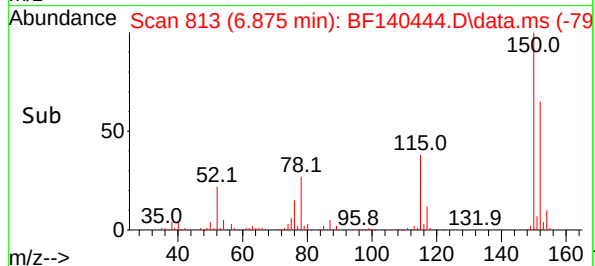
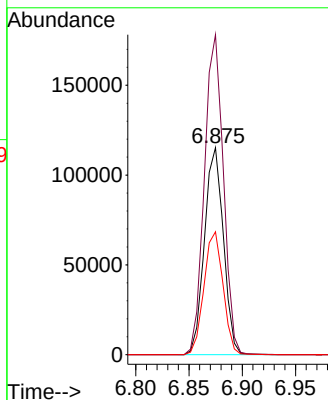
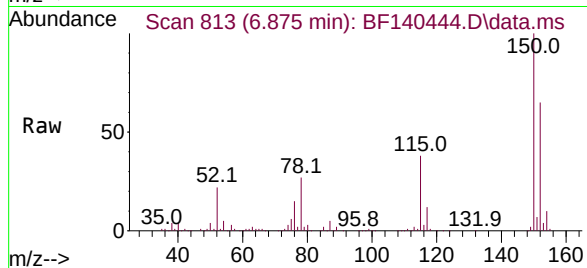




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 813
Delta R.T. -0.006 min
Lab File: BF140444.D
Acq: 18 Nov 2024 10:39

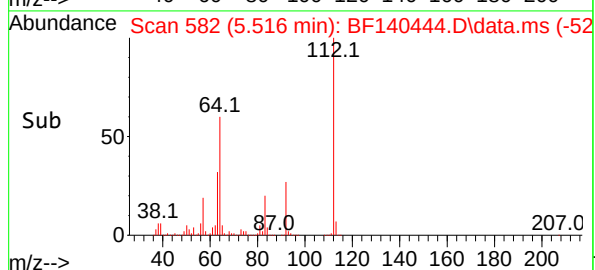
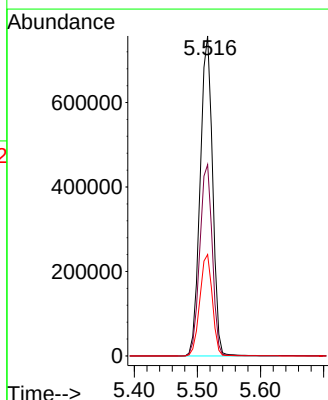
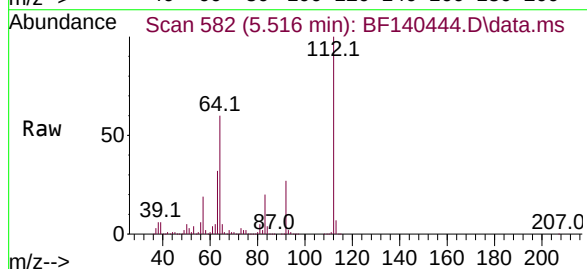
Instrument :
BNA_F
ClientSampleId :
PB165029BL

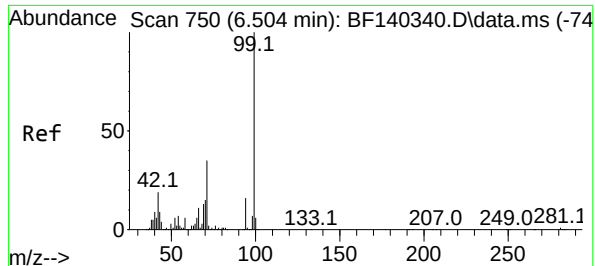
Tgt Ion:152 Resp: 142751
Ion Ratio Lower Upper
152 100
150 154.5 127.4 191.0
115 59.3 47.4 71.2



#5
2-Fluorophenol
Concen: 123.866 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.023 min
Lab File: BF140444.D
Acq: 18 Nov 2024 10:39

Tgt Ion:112 Resp: 1035618
Ion Ratio Lower Upper
112 100
64 59.8 49.2 73.8
63 31.7 25.6 38.4

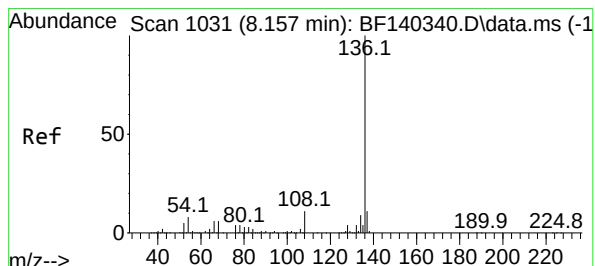
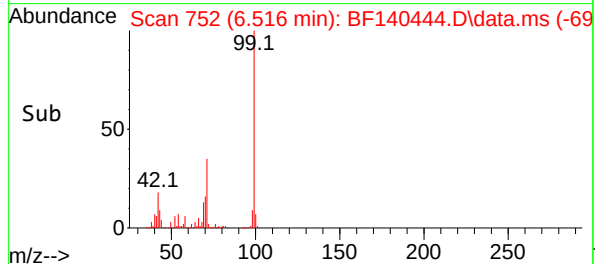
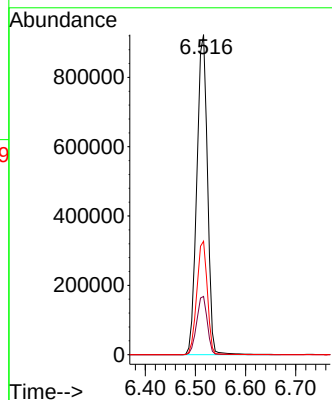
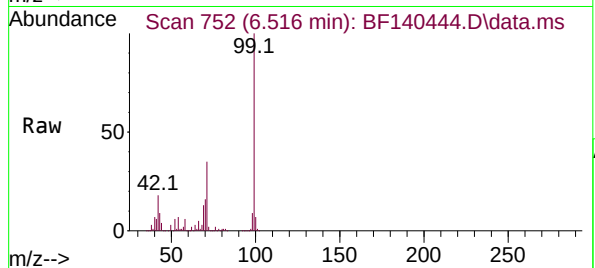




#7
Phenol-d6
Concen: 119.949 ng
RT: 6.516 min Scan# 71
Delta R.T. 0.012 min
Lab File: BF140444.D
Acq: 18 Nov 2024 10:39

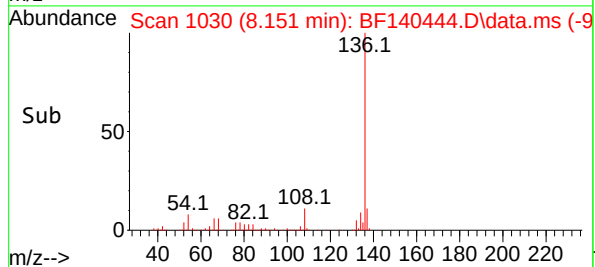
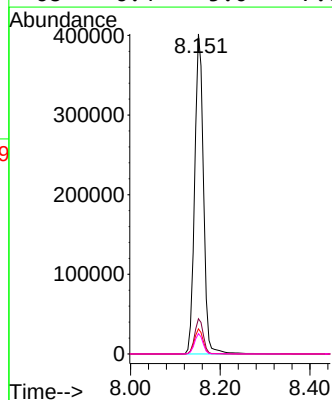
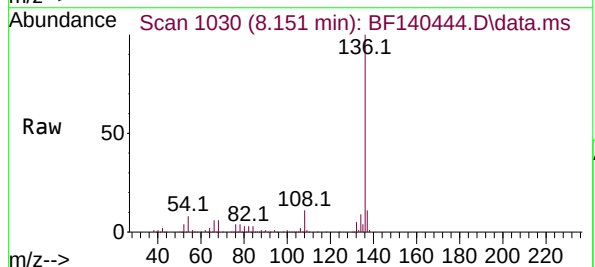
Instrument :
BNA_F
ClientSampleId :
PB165029BL

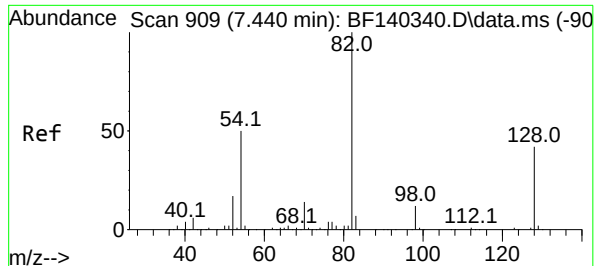
Tgt Ion: 99 Resp: 1358724
Ion Ratio Lower Upper
99 100
42 18.2 15.1 22.7
71 35.5 27.9 41.9



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140444.D
Acq: 18 Nov 2024 10:39

Tgt Ion: 136 Resp: 545917
Ion Ratio Lower Upper
136 100
137 11.0 8.7 13.1
54 7.9 6.5 9.7
68 6.4 5.0 7.6





#23

Nitrobenzene-d5

Concen: 85.301 ng

RT: 7.434 min Scan# 909

Delta R.T. -0.006 min

Lab File: BF140444.D

Acq: 18 Nov 2024 10:39

Instrument :

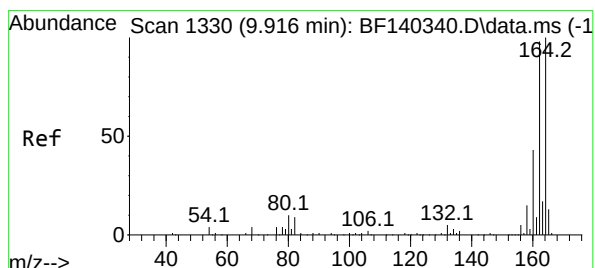
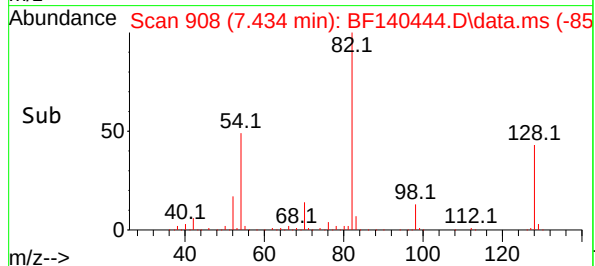
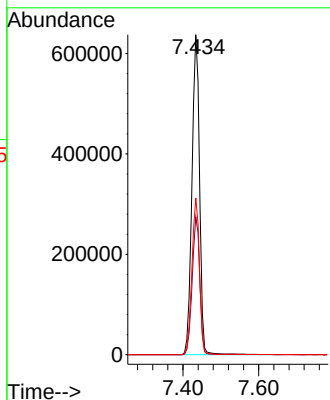
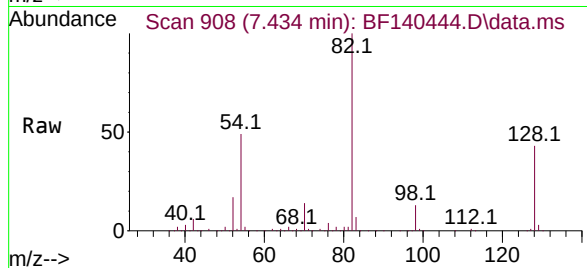
BNA_F

ClientSampleId :

PB165029BL

Tgt Ion: 82 Resp: 893759

Ion	Ratio	Lower	Upper
82	100		
128	42.9	33.3	49.9
54	48.9	39.8	59.8



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.910 min Scan# 1329

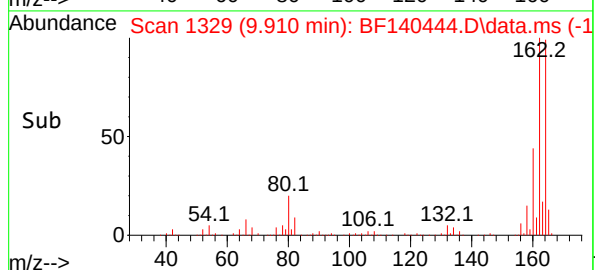
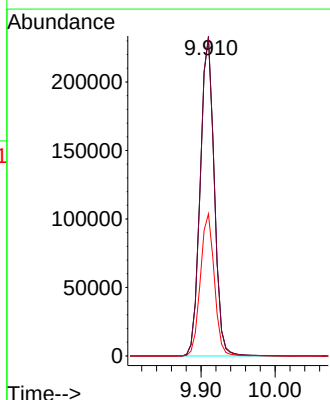
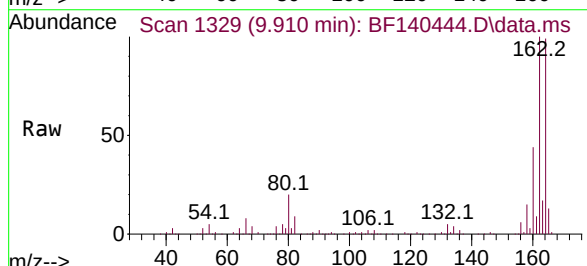
Delta R.T. -0.006 min

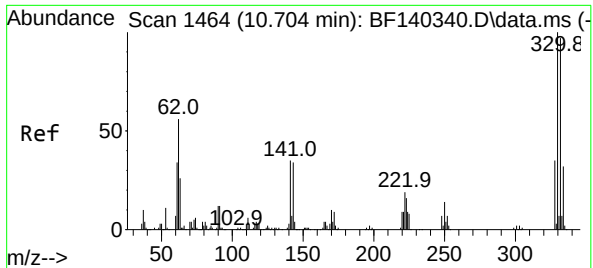
Lab File: BF140444.D

Acq: 18 Nov 2024 10:39

Tgt Ion:164 Resp: 305122

Ion	Ratio	Lower	Upper
164	100		
162	100.6	79.8	119.8
160	44.7	35.4	53.0





#42

2,4,6-Tribromophenol

Concen: 126.045 ng

RT: 10.704 min Scan# 1464

Delta R.T. -0.000 min

Lab File: BF140444.D

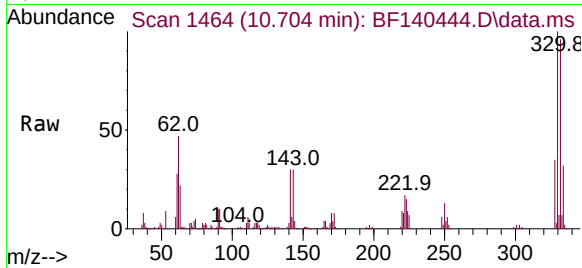
Acq: 18 Nov 2024 10:39

Instrument :

BNA_F

ClientSampleId :

PB165029BL



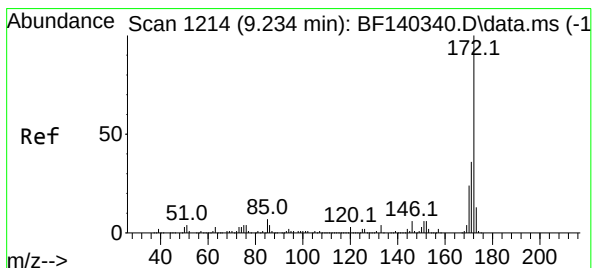
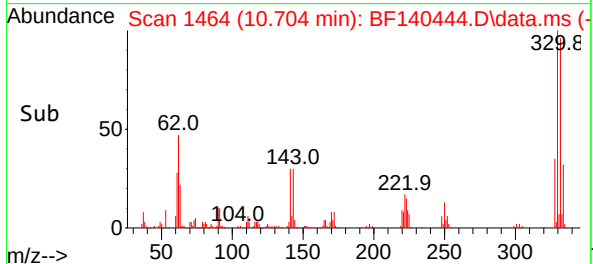
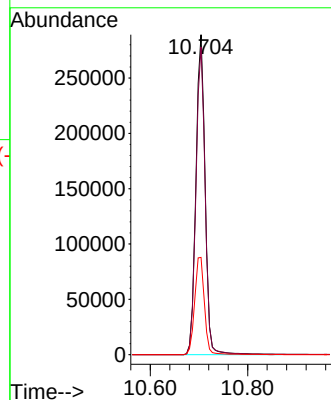
Tgt Ion:330 Resp: 382445

Ion Ratio Lower Upper

330 100

332 96.4 75.9 113.9

141 32.3 26.9 40.3



#45

2-Fluorobiphenyl

Concen: 88.493 ng

RT: 9.228 min Scan# 1213

Delta R.T. -0.006 min

Lab File: BF140444.D

Acq: 18 Nov 2024 10:39

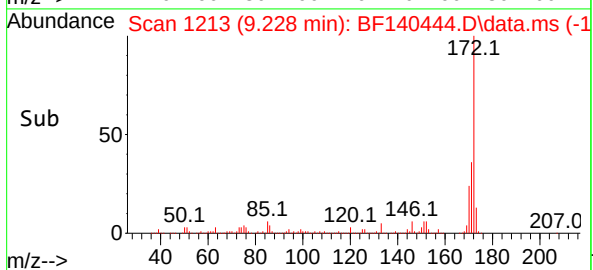
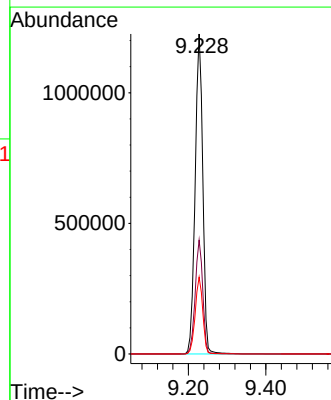
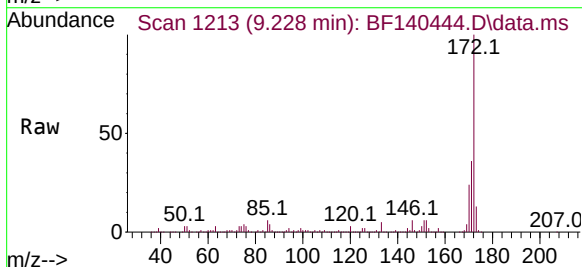
Tgt Ion:172 Resp: 1679654

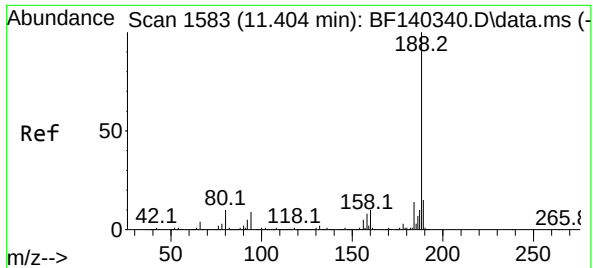
Ion Ratio Lower Upper

172 100

171 35.6 28.5 42.7

170 24.0 19.1 28.7

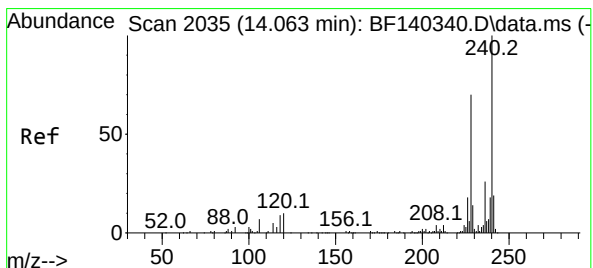
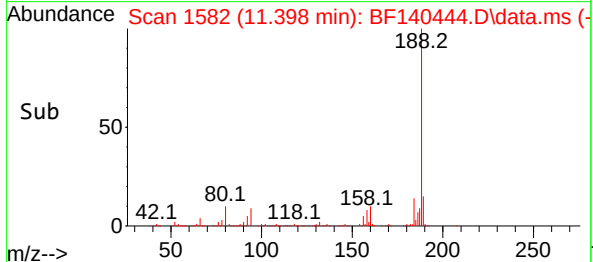
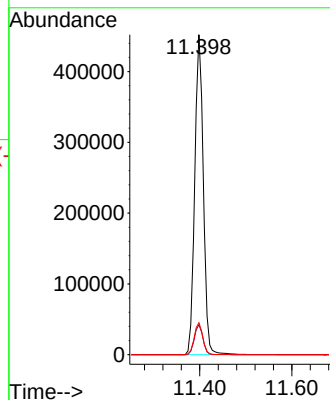
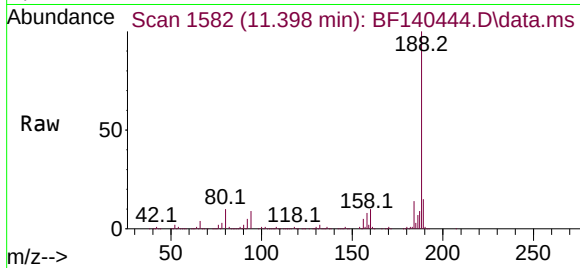




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF140444.D
Acq: 18 Nov 2024 10:39

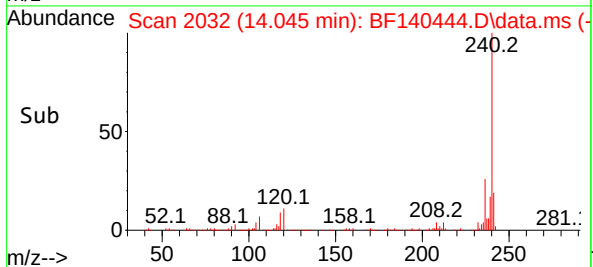
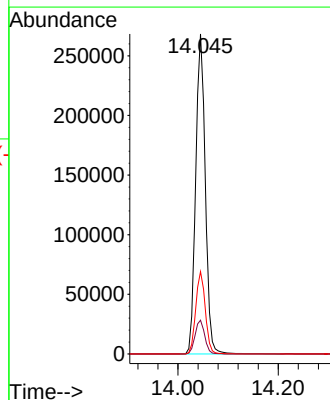
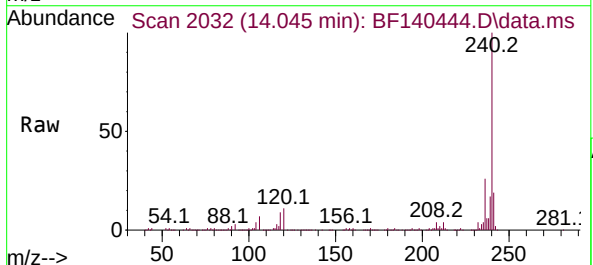
Instrument :
BNA_F
ClientSampleId :
PB165029BL

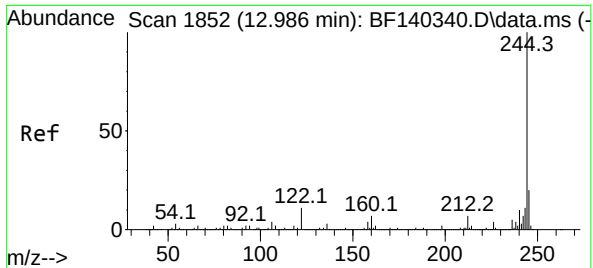
Tgt Ion:188 Resp: 581224
Ion Ratio Lower Upper
188 100
94 9.4 7.6 11.4
80 10.0 8.0 12.0



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140444.D
Acq: 18 Nov 2024 10:39

Tgt Ion:240 Resp: 355427
Ion Ratio Lower Upper
240 100
120 10.6 8.8 13.2
236 25.8 20.9 31.3





#79

Terphenyl-d14

Concen: 88.392 ng

RT: 12.986 min Scan# 1852

Delta R.T. -0.000 min

Lab File: BF140444.D

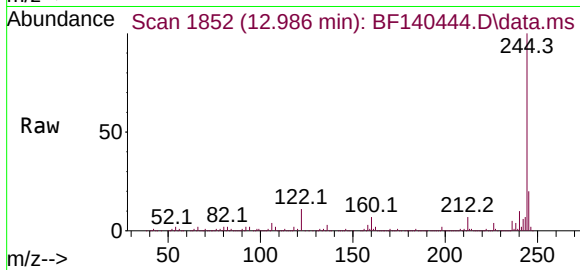
Acq: 18 Nov 2024 10:39

Instrument :

BNA_F

ClientSampleId :

PB165029BL



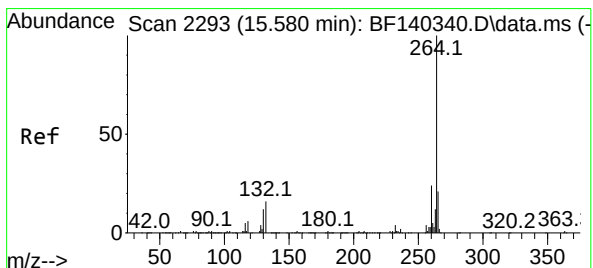
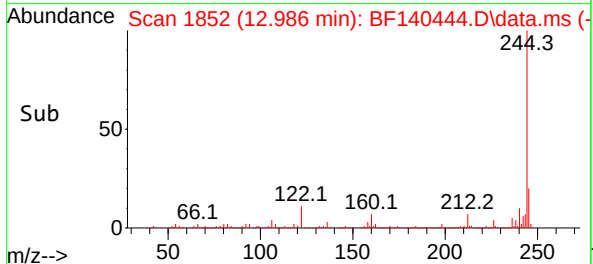
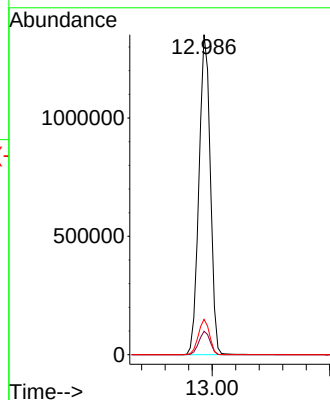
Tgt Ion:244 Resp: 1809956

Ion Ratio Lower Upper

244 100

212 7.3 5.8 8.8

122 11.1 8.8 13.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.545 min Scan# 2287

Delta R.T. -0.012 min

Lab File: BF140444.D

Acq: 18 Nov 2024 10:39

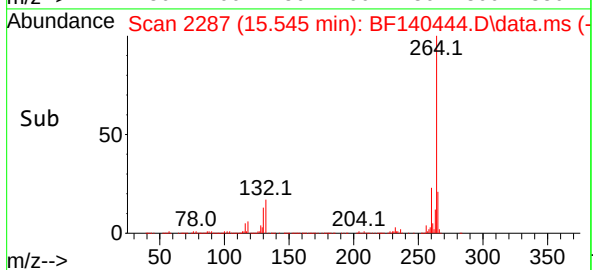
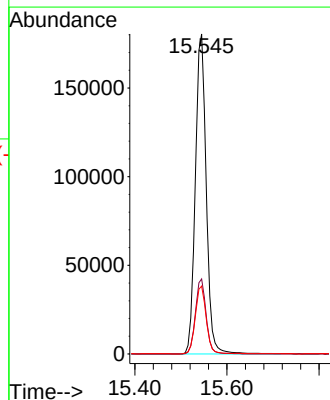
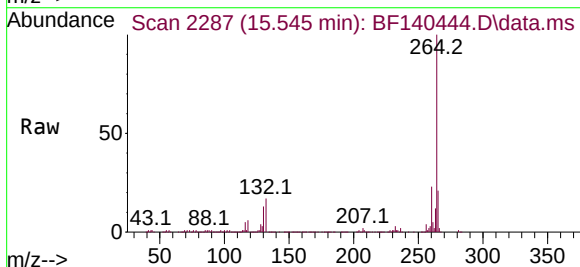
Tgt Ion:264 Resp: 295657

Ion Ratio Lower Upper

264 100

260 23.5 19.2 28.8

265 21.2 17.1 25.7



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140444.D
Acq On : 18 Nov 2024 10:39
Operator : RC/JU
Sample : PB165029BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165029BL

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-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140444.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.222	12	22	31	rVB	47353	87895	1.81%	0.301%
2	5.516	575	582	587	rBV	2681640	3658105	75.46%	12.542%
3	6.516	745	752	757	rBV	2603606	3790609	78.19%	12.996%
4	6.875	808	813	818	rBV	669580	833293	17.19%	2.857%
5	7.434	901	908	913	rBV	1828119	2526840	52.12%	8.663%
6	8.151	1024	1030	1042	rBV	821808	1103324	22.76%	3.783%
7	9.228	1206	1213	1218	rBV	3601518	4847864	100.00%	16.621%
8	9.910	1323	1329	1345	rBV	979715	1285453	26.52%	4.407%
9	10.704	1458	1464	1482	rBV	2112211	2891577	59.65%	9.914%
10	11.398	1577	1582	1600	rVB	1083165	1380754	28.48%	4.734%
11	12.986	1846	1852	1857	rBV	3627483	4808433	99.19%	16.486%
12	14.045	2027	2032	2044	rBV	737570	974949	20.11%	3.343%
13	15.545	2280	2287	2296	rBV	480622	789940	16.29%	2.708%
14	17.380	2590	2599	2614	rVB3	41645	187647	3.87%	0.643%

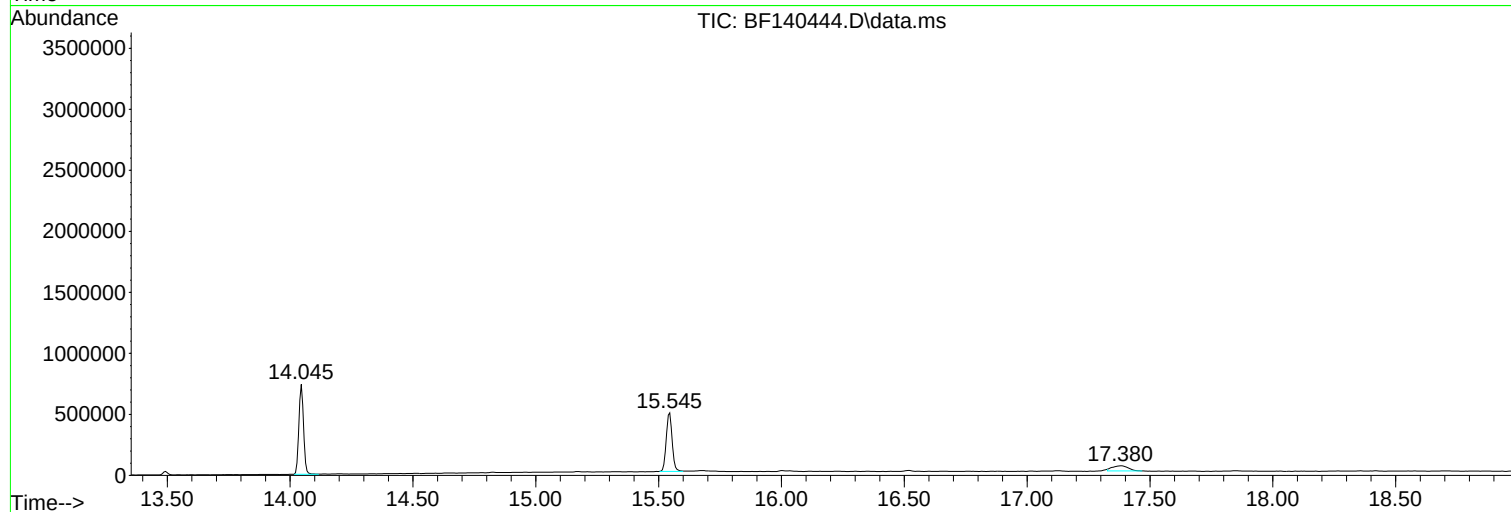
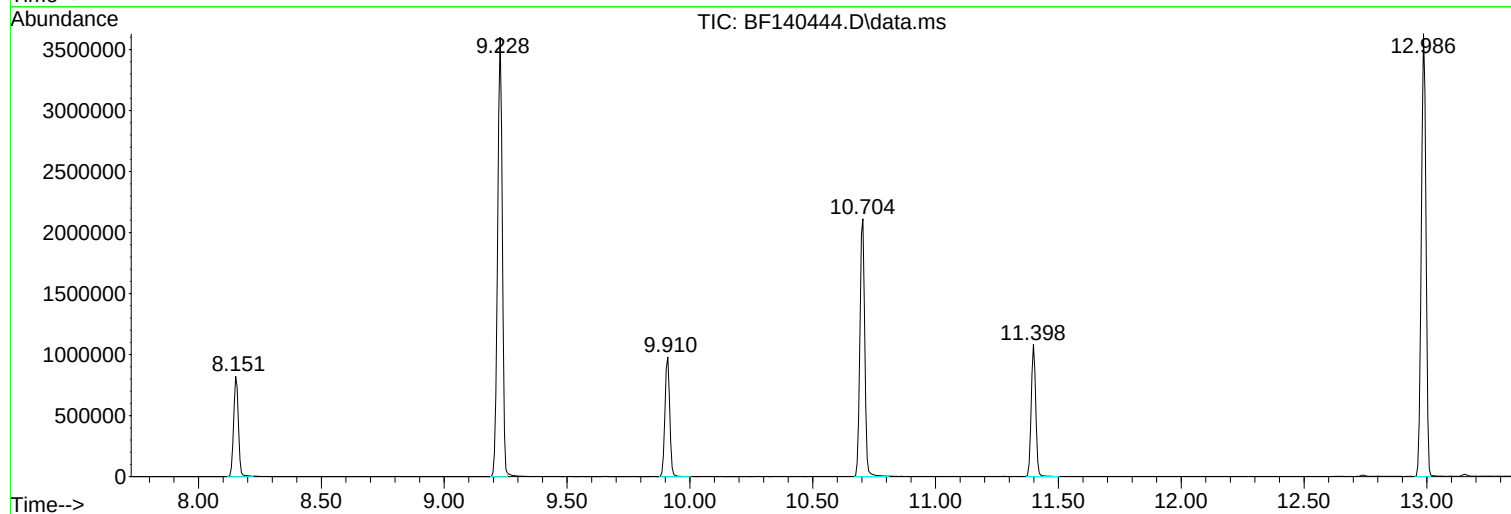
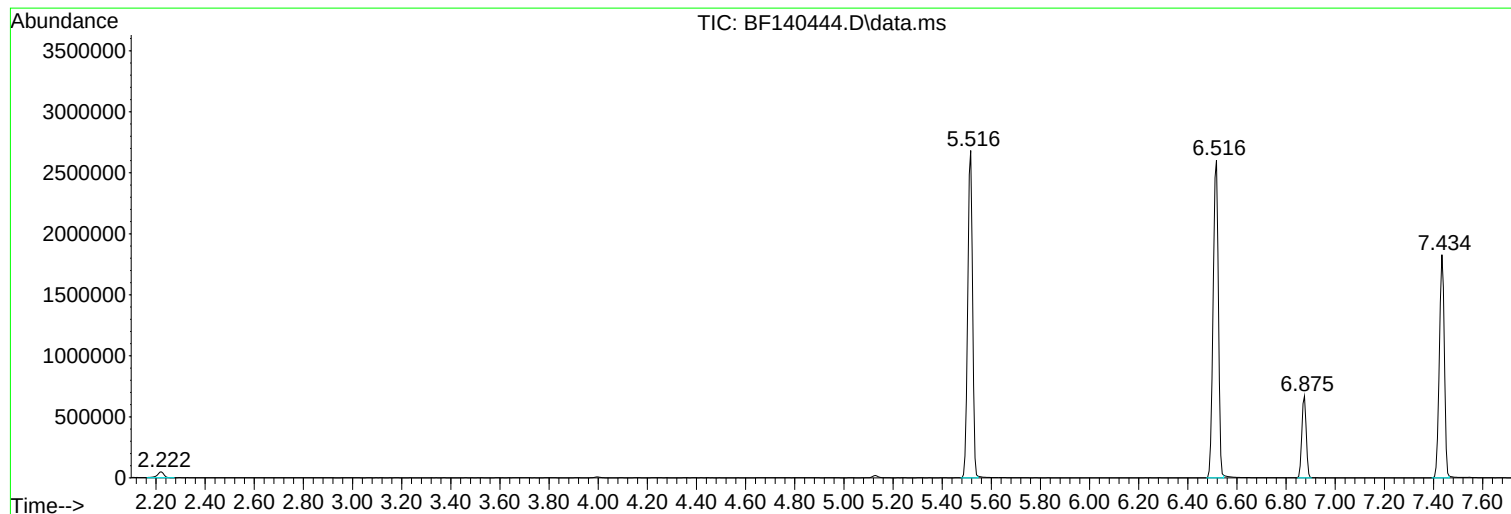
Sum of corrected areas: 29166683

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140444.D
Acq On : 18 Nov 2024 10:39
Operator : RC/JU
Sample : PB165029BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165029BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.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\BF111824\
Data File : BF140444.D
Acq On : 18 Nov 2024 10:39
Operator : RC/JU
Sample : PB165029BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165029BL

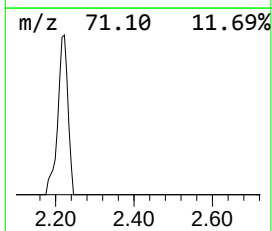
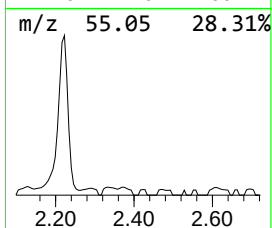
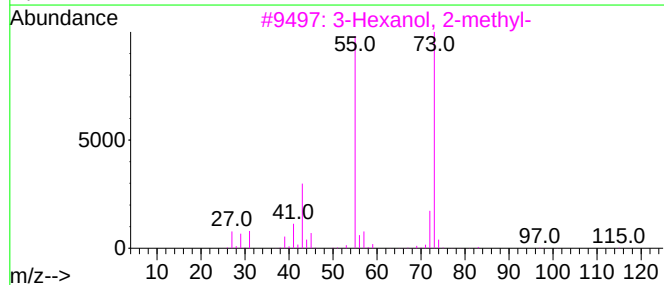
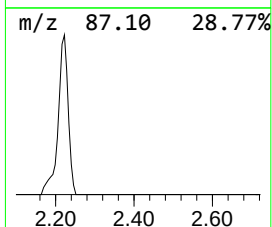
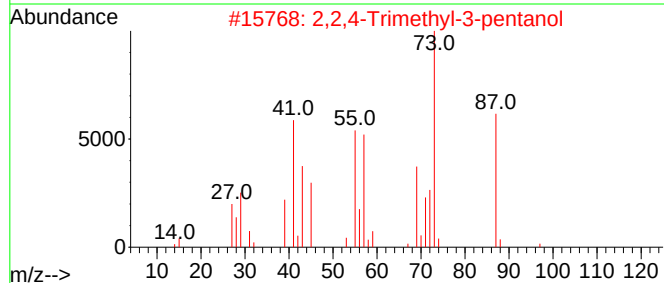
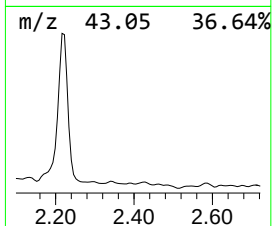
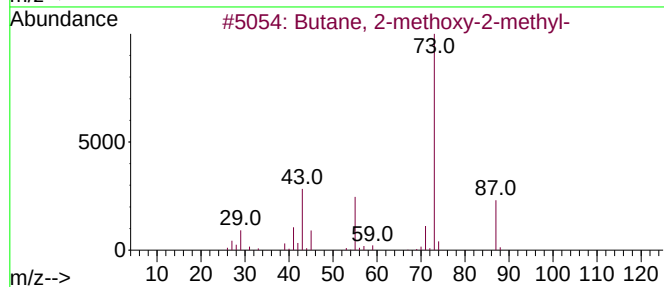
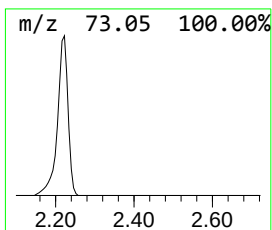
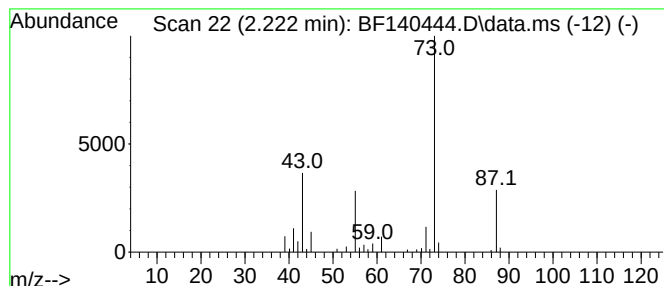
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.222	2.11 ng	87895	1,4-Dichlorobenzene-d4	6.875

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2		2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3		3-Hexanol, 2-methyl-	116	C7H16O	000617-29-8	23
4		1,3-Dioxolane, 2-propyl-	116	C6H12O2	003390-13-4	17
5		Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140444.D
Acq On : 18 Nov 2024 10:39
Operator : RC/JU
Sample : PB165029BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

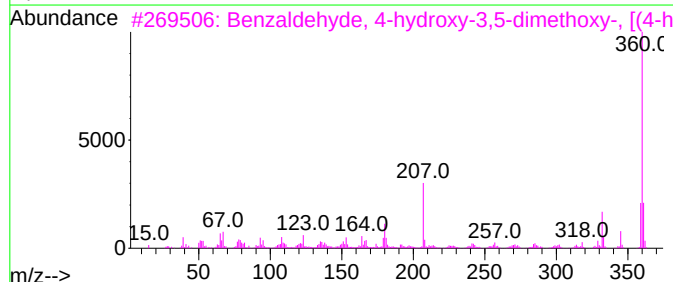
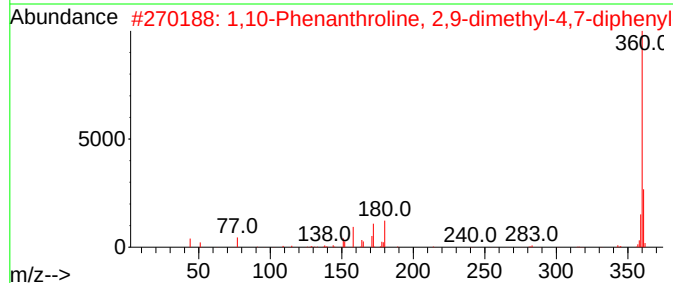
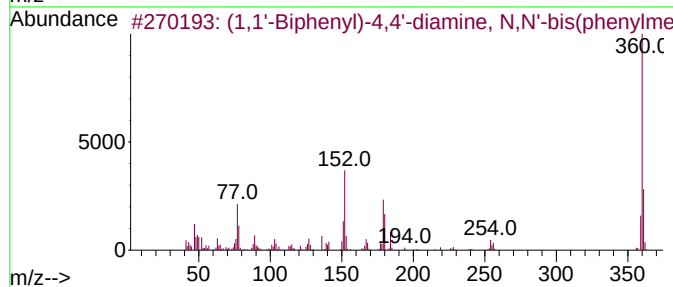
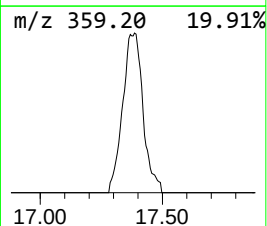
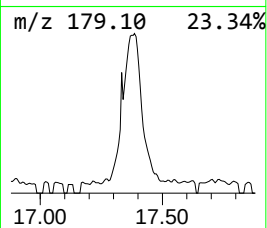
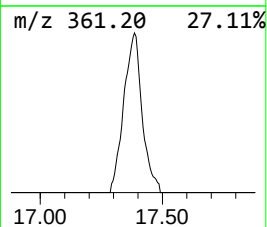
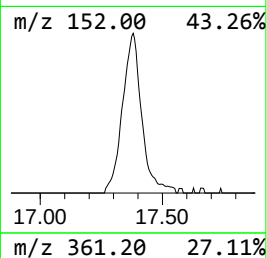
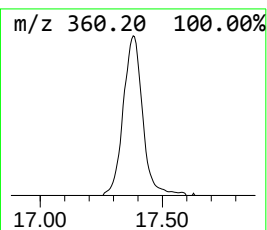
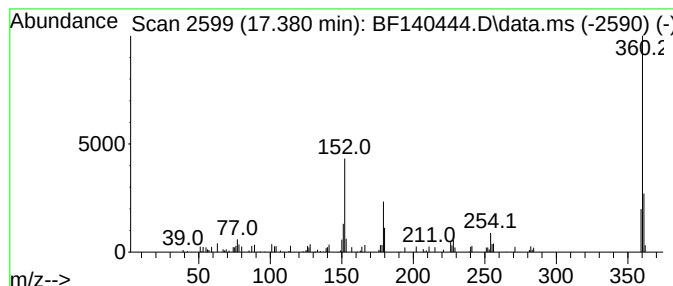
Instrument :
BNA_F
ClientSampleId :
PB165029BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 (1,1'-Biphenyl)-4,4'-diamin... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.	
17.380	4.75 ng	187647	Perylene-d12	15.545	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(1,1'-Biphenyl)-4,4'-diamine, N,N'-di-2-Naphthyl-p-phenylenediamine	360	C26H20N2	006311-48-4	94
2	1,10-Phenanthroline, 2,9-dimethyl-10,10-dihydro-9,10-phenanthrene	360	C26H20N2	004733-39-5	52
3	Benzaldehyde, 4-hydroxy-3,5-dimethoxy-2-methyl-2-phenyl-	360	C18H20N2O6	014414-32-5	52
4	Androst-4-ene-3,17-dione, 12-hydroxy-12-oxo-12-phenyl-	360	C21H32N2O3	069688-31-9	47
5	N,N'-di-2-Naphthyl-p-phenylenediamine	360	C26H20N2	000093-46-9	43



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
Data File : BF140444.D
Acq On : 18 Nov 2024 10:39
Operator : RC/JU
Sample : PB165029BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165029BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.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
Butane, 2-metho...	2.222	2.1	ng	87895	1	6.875	833293	20.0
(1,1'-Biphenyl)...	17.380	4.8	ng	187647	6	15.545	789940	20.0

Report of Analysis

Client:	Tetra Tech	Date Collected:	
Project:	Ocean County Landfill 2024	Date Received:	
Client Sample ID:	PB165029BS	SDG No.:	P4860
Lab Sample ID:	PB165029BS	Matrix:	SOIL
Analytical Method:	SW8270	% 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
BF140445.D	1	11/16/24 08:51	11/18/24 11:05	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	J	180	330	ug/Kg
108-95-2	Phenol	1400		82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1400		83.6	170	ug/Kg
95-57-8	2-Chlorophenol	1500		83.4	170	ug/Kg
95-48-7	2-Methylphenol	1400		80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		90.8	170	ug/Kg
98-86-2	Acetophenone	1400		86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	1400		79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	1400		82.9	170	ug/Kg
98-95-3	Nitrobenzene	1400		90.7	170	ug/Kg
78-59-1	Isophorone	1400		84.5	170	ug/Kg
88-75-5	2-Nitrophenol	1500		94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1800		93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1400		85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		75.4	170	ug/Kg
91-20-3	Naphthalene	1400		82.5	170	ug/Kg
106-47-8	4-Chloroaniline	810		82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	1400		83.2	170	ug/Kg
105-60-2	Caprolactam	1400		86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1400		82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	5700	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		71.3	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1400		73.9	170	ug/Kg
92-52-4	1,1-Biphenyl	1400		87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		83.2	170	ug/Kg
88-74-4	2-Nitroaniline	1500		94.9	170	ug/Kg
131-11-3	Dimethylphthalate	1500		81.6	170	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	
Project:	Ocean County Landfill 2024	Date Received:	
Client Sample ID:	PB165029BS	SDG No.:	P4860
Lab Sample ID:	PB165029BS	Matrix:	SOIL
Analytical Method:	SW8270	% 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
BF140445.D	1	11/16/24 08:51	11/18/24 11:05	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1500		86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1400		83.1	170	ug/Kg
99-09-2	3-Nitroaniline	910		89.1	170	ug/Kg
83-32-9	Acenaphthene	1600		81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	2800	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	2700	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1500		84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1500		86.1	170	ug/Kg
84-66-2	Diethylphthalate	1500		80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		85.5	170	ug/Kg
86-73-7	Fluorene	1400		85.4	170	ug/Kg
100-01-6	4-Nitroaniline	1400		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1500		78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1500		84.9	170	ug/Kg
1912-24-9	Atrazine	1700		91.3	170	ug/Kg
87-86-5	Pentachlorophenol	2700	E	77.2	330	ug/Kg
85-01-8	Phenanthrene	1500		83.9	170	ug/Kg
120-12-7	Anthracene	1500		84.3	170	ug/Kg
86-74-8	Carbazole	1400		80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1500		84.2	170	ug/Kg
206-44-0	Fluoranthene	1400		81.6	170	ug/Kg
129-00-0	Pyrene	1600		82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	1700		96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	940		98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	1600		80.6	170	ug/Kg
218-01-9	Chrysene	1500		79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1600		90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1500		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1400		81.0	170	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	
Project:	Ocean County Landfill 2024	Date Received:	
Client Sample ID:	PB165029BS	SDG No.:	P4860
Lab Sample ID:	PB165029BS	Matrix:	SOIL
Analytical Method:	SW8270	% 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
BF140445.D	1	11/16/24 08:51	11/18/24 11:05	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1400		82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	1600		92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1700		78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1700		81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1400		86.7	170	ug/Kg
123-91-1	1,4-Dioxane	1200		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		74.6	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	120		30 (18) - 130 (112)	80%	SPK: 150
13127-88-3	Phenol-d6	115		30 (15) - 130 (107)	77%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.5		30 (18) - 130 (107)	82%	SPK: 100
321-60-8	2-Fluorobiphenyl	84.9		30 (20) - 130 (109)	85%	SPK: 100
118-79-6	2,4,6-Tribromophenol	128		30 (10) - 130 (116)	85%	SPK: 150
1718-51-0	Terphenyl-d14	98.5		30 (10) - 130 (105)	99%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	143000	6.875			
1146-65-2	Naphthalene-d8	544000	8.157			
15067-26-2	Acenaphthene-d10	303000	9.916			
1517-22-2	Phenanthrene-d10	569000	11.404			
1719-03-5	Chrysene-d12	302000	14.057			
1520-96-3	Perylene-d12	262000	15.551			

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\BF111824\
 Data File : BF140445.D
 Acq On : 18 Nov 2024 11:05
 Operator : RC/JU
 Sample : PB165029BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

PB165029BS

Manual Integrations

APPROVED

Reviewed By :Yogesh
 Patel

11/19/2024

Supervised By :mohammad
 ahmed

Quant Time: Nov 18 11:37:26 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	142797	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	543909	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	303339	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	568567	20.000	ng	0.00
76) Chrysene-d12	14.057	240	301677	20.000	ng	0.00
86) Perylene-d12	15.551	264	262350	20.000	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1000875	119.672	ng	0.02
7) Phenol-d6	6.516	99	1300633	114.784	ng	0.01
23) Nitrobenzene-d5	7.440	82	860722	82.451	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	384780	127.560	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	1602496	84.924	ng	0.00
79) Terphenyl-d14	12.986	244	1712516	98.535	ng	0.00

Target Compounds						Qvalue
2) 1,4-Dioxane	2.734	88	137852	36.982	ng	98
3) Pyridine	3.493	79	354693	38.705	ng	99
4) n-Nitrosodimethylamine	3.446	42	187846	40.558	ng	99
6) Aniline	6.540	93	374120	37.954	ng	# 50
8) 2-Chlorophenol	6.663	128	405231	45.106	ng	98
9) Benzaldehyde	6.428	77	36468	5.370	ng	96
10) Phenol	6.534	94	499145	41.771	ng	# 73
11) bis(2-Chloroethyl)ether	6.610	93	393787	43.492	ng	100
12) 1,3-Dichlorobenzene	6.816	146	413257	41.691	ng	99
13) 1,4-Dichlorobenzene	6.893	146	417677	41.556	ng	99
14) 1,2-Dichlorobenzene	7.045	146	398765	42.737	ng	99
15) Benzyl Alcohol	7.016	79	369056	45.207	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.145	45	529036	42.301	ng	70
17) 2-Methylphenol	7.134	107	318180	43.053	ng	94
18) Hexachloroethane	7.387	117	158881	42.759	ng	98
19) n-Nitroso-di-n-propyla...	7.287	70	287998	42.083	ng	100
20) 3+4-Methylphenols	7.287	107	400760	43.360	ng	95
22) Acetophenone	7.281	105	529582	41.863	ng	99
24) Nitrobenzene	7.457	77	445374	40.977	ng	99
25) Isophorone	7.692	82	804333	43.474	ng	99
26) 2-Nitrophenol	7.775	139	214074	44.384	ng	98
27) 2,4-Dimethylphenol	7.810	122	326761	52.918	ng	99
28) bis(2-Chloroethoxy)met...	7.904	93	489908	43.184	ng	99
29) 2,4-Dichlorophenol	8.016	162	341063	44.692	ng	98
30) 1,2,4-Trichlorobenzene	8.098	180	355715	41.867	ng	98
31) Naphthalene	8.181	128	1168469	42.349	ng	100
32) Benzoic acid	7.939	122	218773	40.264	ng	95
33) 4-Chloroaniline	8.228	127	234759	24.465	ng	98
34) Hexachlorobutadiene	8.292	225	229108	42.323	ng	99
35) Caprolactam	8.598	113	107905m	42.542	ng	
36) 4-Chloro-3-methylphenol	8.716	107	371125	43.883	ng	99
37) 2-Methylnaphthalene	8.869	142	765366	43.260	ng	100
38) 1-Methylnaphthalene	8.969	142	713542	41.186	ng	99
40) 1,2,4,5-Tetrachloroben...	9.034	216	360556	42.983	ng	98
41) Hexachlorocyclopentadiene	9.016	237	366390	170.119	ng	99
43) 2,4,6-Trichlorophenol	9.151	196	243111	44.162	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
 Data File : BF140445.D
 Acq On : 18 Nov 2024 11:05
 Operator : RC/JU
 Sample : PB165029BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PB165029BS

Manual Integrations
 APPROVED

Reviewed By :Yogesh
 Patel

11/19/2024
 Supervised By :mohammad
 ahmed

Quant Time: Nov 18 11:37:26 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	254080	42.215	ng	98
46) 1,1'-Biphenyl	9.334	154	953595	43.212	ng	99
47) 2-Chloronaphthalene	9.357	162	709256	42.191	ng	99
48) 2-Nitroaniline	9.457	65	246291	44.178	ng	98
49) Acenaphthylene	9.775	152	1176469	46.256	ng	100
50) Dimethylphthalate	9.633	163	883998	44.710	ng	99
51) 2,6-Dinitrotoluene	9.698	165	189531	42.048	ng	100
52) Acenaphthene	9.945	154	833212m	48.503	ng	
53) 3-Nitroaniline	9.869	138	130001	27.463	ng	98
54) 2,4-Dinitrophenol	9.981	184	198188	85.263	ng	99
55) Dibenzofuran	10.122	168	1070551	44.022	ng	100
56) 4-Nitrophenol	10.045	139	280804	81.325	ng	98
57) 2,4-Dinitrotoluene	10.104	165	263206	44.368	ng	100
58) Fluorene	10.463	166	833821	43.403	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	218568	45.992	ng	98
60) Diethylphthalate	10.333	149	885703	43.808	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	413629	43.611	ng	99
62) 4-Nitroaniline	10.486	138	199894	41.299	ng	99
63) Azobenzene	10.616	77	869372	43.520	ng	100
65) 4,6-Dinitro-2-methylph...	10.516	198	139047	45.455	ng	98
66) n-Nitrosodiphenylamine	10.575	169	730437	44.463	ng	99
67) 4-Bromophenyl-phenylether	10.945	248	249652	43.926	ng	98
68) Hexachlorobenzene	11.010	284	283562	44.343	ng	99
69) Atrazine	11.104	200	246446	49.585	ng	99
70) Pentachlorophenol	11.210	266	282690	82.067	ng	99
71) Phenanthrene	11.428	178	1183501	44.311	ng	100
72) Anthracene	11.480	178	1209578	46.209	ng	100
73) Carbazole	11.633	167	1099728	42.548	ng	99
74) Di-n-butylphthalate	11.957	149	1368135	44.103	ng	100
75) Fluoranthene	12.616	202	1255837	41.910	ng	99
77) Benzidine	12.739	184	313825	27.104	ng	100
78) Pyrene	12.851	202	1260459	48.846	ng	100
80) Butylbenzylphthalate	13.463	149	502582	50.700	ng	96
81) Benzo(a)anthracene	14.045	228	930920	46.952	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	177638	28.188	ng	100
83) Chrysene	14.080	228	816823	45.152	ng	99
84) Bis(2-ethylhexyl)phtha...	14.021	149	654935	49.499	ng	99
85) Di-n-octyl phthalate	14.657	149	849818	45.603	ng	99
87) Indeno(1,2,3-cd)pyrene	17.068	276	837971	51.707	ng	100
88) Benzo(b)fluoranthene	15.116	252	744683	43.392	ng	99
89) Benzo(k)fluoranthene	15.145	252	599133	42.735	ng	99
90) Benzo(a)pyrene	15.492	252	643530	48.287	ng	99
91) Dibenzo(a,h)anthracene	17.080	278	681008	50.837	ng	99
92) Benzo(g,h,i)perylene	17.521	276	637219	46.529	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111824\
 Data File : BF140445.D
 Acq On : 18 Nov 2024 11:05
 Operator : RC/JU
 Sample : PB165029BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PB165029BS

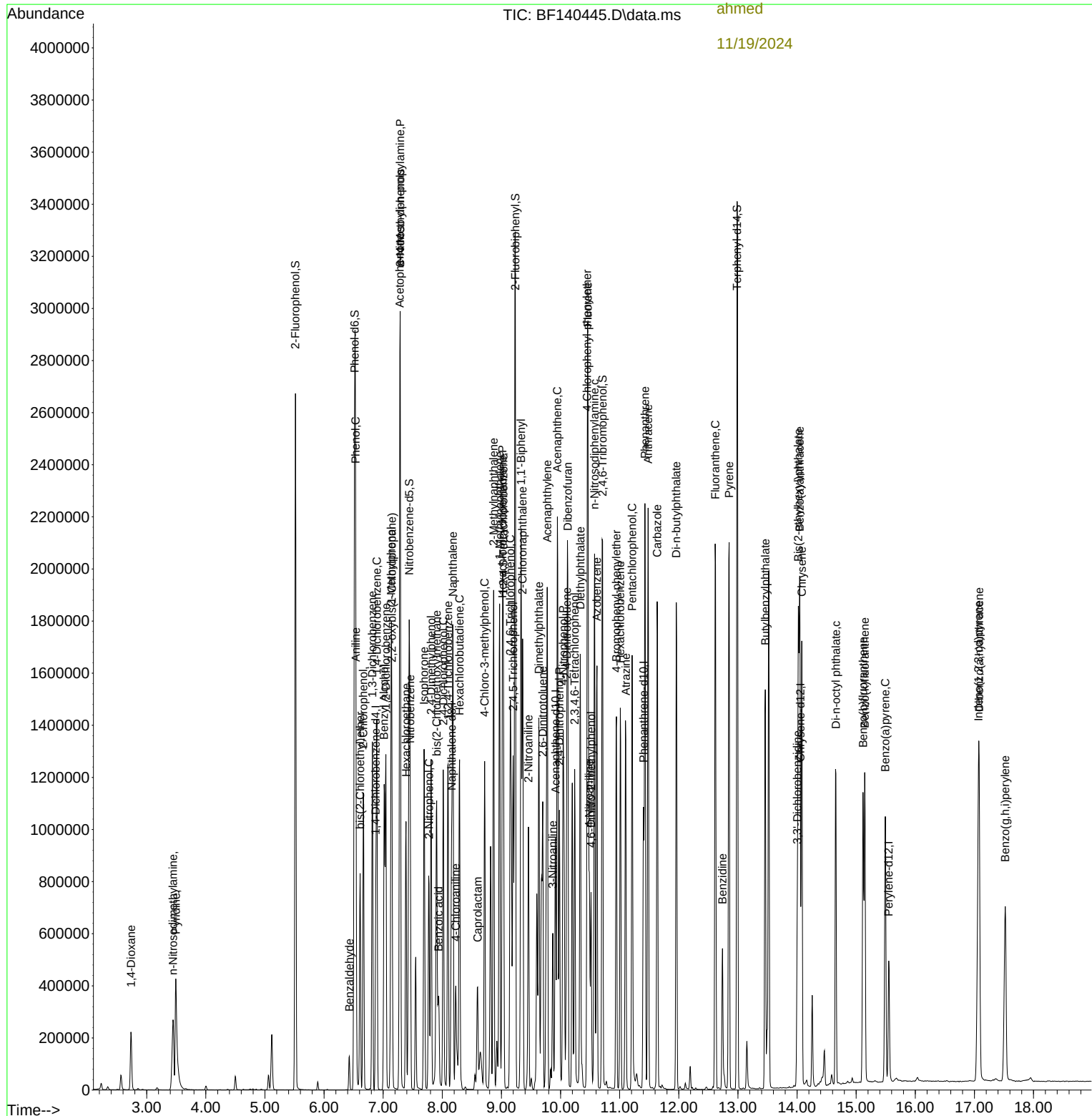
Manual Integrations
 APPROVED

Reviewed By :Yogesh
 Patel

11/19/2024
 Supervised By :mohammad
 ahmed

11/19/2024

Quant Time: Nov 18 11:37:26 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 Response via : Initial Calibration



Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-006MS	SDG No.:	P4860
Lab Sample ID:	P4860-09MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	97.5
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
BF140639.D	1	11/16/24 08:51	11/26/24 14:03	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	J	190	340	ug/Kg
108-95-2	Phenol	1600		84.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		85.6	170	ug/Kg
95-57-8	2-Chlorophenol	1700		85.4	170	ug/Kg
95-48-7	2-Methylphenol	1600		82.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1700		93.0	170	ug/Kg
98-86-2	Acetophenone	1600		88.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	1600		81.7	340	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1600		41.2	81.9	ug/Kg
67-72-1	Hexachloroethane	1600		84.9	170	ug/Kg
98-95-3	Nitrobenzene	1500		92.9	170	ug/Kg
78-59-1	Isophorone	1600		86.6	170	ug/Kg
88-75-5	2-Nitrophenol	1600		96.7	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1900		95.4	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		87.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		77.3	170	ug/Kg
91-20-3	Naphthalene	1600		84.5	170	ug/Kg
106-47-8	4-Chloroaniline	680		84.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		85.2	170	ug/Kg
105-60-2	Caprolactam	1600		88.8	340	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		79.3	170	ug/Kg
91-57-6	2-Methylnaphthalene	1600		84.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4700	E	160	340	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		73.1	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1700		75.7	170	ug/Kg
92-52-4	1,1-Biphenyl	1600		89.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	1600		85.2	170	ug/Kg
88-74-4	2-Nitroaniline	1600		97.2	170	ug/Kg
131-11-3	Dimethylphthalate	1600		83.6	170	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-006MS	SDG No.:	P4860
Lab Sample ID:	P4860-09MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	97.5
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
BF140639.D	1	11/16/24 08:51	11/26/24 14:03	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1700		88.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		85.1	170	ug/Kg
99-09-2	3-Nitroaniline	940		91.3	170	ug/Kg
83-32-9	Acenaphthene	1600		83.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3000	E	250	340	ug/Kg
100-02-7	4-Nitrophenol	3600	E	120	340	ug/Kg
132-64-9	Dibenzofuran	1600		86.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		88.2	170	ug/Kg
84-66-2	Diethylphthalate	1600		82.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		87.6	170	ug/Kg
86-73-7	Fluorene	1600		87.5	170	ug/Kg
100-01-6	4-Nitroaniline	1600		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		120	340	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		83.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		80.7	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		87.0	170	ug/Kg
1912-24-9	Atrazine	1900		93.5	170	ug/Kg
87-86-5	Pentachlorophenol	3400	E	79.1	340	ug/Kg
85-01-8	Phenanthrene	1700		86.0	170	ug/Kg
120-12-7	Anthracene	1700		86.4	170	ug/Kg
86-74-8	Carbazole	1700		82.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1700		86.3	170	ug/Kg
206-44-0	Fluoranthene	1600		83.6	170	ug/Kg
129-00-0	Pyrene	1800		84.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	1900		99.1	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1100		100	340	ug/Kg
56-55-3	Benzo(a)anthracene	1700		82.6	170	ug/Kg
218-01-9	Chrysene	1600		81.3	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2000		93.1	170	ug/Kg
117-84-0	Di-n-octyl phthalate	2000		110	340	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		83.0	170	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-006MS	SDG No.:	P4860
Lab Sample ID:	P4860-09MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	97.5
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
BF140639.D	1	11/16/24 08:51	11/26/24 14:03	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		84.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	1800		95.2	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		79.9	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		83.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300		82.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		88.8	170	ug/Kg
123-91-1	1,4-Dioxane	1500		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		76.4	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	104		30 (18) - 130 (112)	69%	SPK: 150
13127-88-3	Phenol-d6	103		30 (15) - 130 (107)	69%	SPK: 150
4165-60-0	Nitrobenzene-d5	71.2		30 (18) - 130 (107)	71%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.5		30 (20) - 130 (109)	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	109		30 (10) - 130 (116)	73%	SPK: 150
1718-51-0	Terphenyl-d14	84.0		30 (10) - 130 (105)	84%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	72900	6.869			
1146-65-2	Naphthalene-d8	271000	8.151			
15067-26-2	Acenaphthene-d10	144000	9.91			
1517-22-2	Phenanthrene-d10	273000	11.398			
1719-03-5	Chrysene-d12	144000	14.045			
1520-96-3	Perylene-d12	157000	15.539			

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\BF112624\
 Data File : BF140639.D
 Acq On : 26 Nov 2024 14:03
 Operator : RC/JU
 Sample : P4860-09MS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PH2-BOT-006MS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/27/2024
 Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 26 14:26:11 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	72875	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	271368	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	144034	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	272823	20.000	ng	0.00
76) Chrysene-d12	14.045	240	144480	20.000	ng	0.00
86) Perylene-d12	15.539	264	156989	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	443633	103.867	ng	0.00
7) Phenol-d6	6.510	99	584236	103.467	ng	0.00
23) Nitrobenzene-d5	7.434	82	377912	71.233	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	167747	108.895	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	710421	73.489	ng	0.00
79) Terphenyl-d14	12.980	244	779258	83.984	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.657	88	79542	44.293	ng	98
3) Pyridine	3.428	79	192802	48.796	ng	98
4) n-Nitrosodimethylamine	3.375	42	107349	46.227	ng	97
6) Aniline	6.534	93	146418	36.841	ng	92
8) 2-Chlorophenol	6.657	128	223335	48.603	ng	97
9) Benzaldehyde	6.422	77	18599	6.222	ng	99
10) Phenol	6.522	94	278171	48.239	ng	92
11) bis(2-Chloroethyl)ether	6.604	93	208272	47.198	ng	99
12) 1,3-Dichlorobenzene	6.810	146	238881	46.265	ng	98
13) 1,4-Dichlorobenzene	6.886	146	240428	45.988	ng	99
14) 1,2-Dichlorobenzene	7.039	146	227344	46.408	ng	100
15) Benzyl Alcohol	7.016	79	202443	48.345	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.139	45	256362	49.176	ng	98
17) 2-Methylphenol	7.128	107	171173	46.535	ng	97
18) Hexachloroethane	7.381	117	89375	45.772	ng	98
19) n-Nitroso-di-n-propyla...	7.281	70	154926	46.425	ng	97
20) 3+4-Methylphenols	7.281	107	220678	46.675	ng	96
22) Acetophenone	7.281	105	301891	45.632	ng	98
24) Nitrobenzene	7.451	77	241159	43.981	ng	99
25) Isophorone	7.692	82	411193	46.469	ng	99
26) 2-Nitrophenol	7.769	139	117437	48.330	ng	97
27) 2,4-Dimethylphenol	7.804	122	162312m	55.828	ng	
28) bis(2-Chloroethoxy)met...	7.898	93	250883	46.540	ng	99
29) 2,4-Dichlorophenol	8.016	162	182253	47.309	ng	98
30) 1,2,4-Trichlorobenzene	8.092	180	194646	44.252	ng	100
31) Naphthalene	8.175	128	646180	46.229	ng	99
32) Benzoic acid	7.933	122	101818	41.406	ng	96
33) 4-Chloroaniline	8.228	127	83516	19.956	ng	99
34) Hexachlorobutadiene	8.286	225	128456	44.091	ng	99
35) Caprolactam	8.586	113	56877m	47.707	ng	
36) 4-Chloro-3-methylphenol	8.716	107	197751	45.847	ng	98
37) 2-Methylnaphthalene	8.863	142	414518	46.690	ng	100
38) 1-Methylnaphthalene	8.963	142	381148	43.798	ng	99
40) 1,2,4,5-Tetrachloroben...	9.033	216	202324	47.983	ng	99
41) Hexachlorocyclopentadiene	9.016	237	135863	137.572	ng	99
43) 2,4,6-Trichlorophenol	9.145	196	127748	48.282	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
 Data File : BF140639.D
 Acq On : 26 Nov 2024 14:03
 Operator : RC/JU
 Sample : P4860-09MS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PH2-BOT-006MS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/27/2024
 Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 26 14:26:11 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	139416	48.551	ng	96
46) 1,1'-Biphenyl	9.328	154	514692	47.862	ng	99
47) 2-Chloronaphthalene	9.357	162	382485	46.940	ng	99
48) 2-Nitroaniline	9.457	65	125839	48.114	ng	95
49) Acenaphthylene	9.769	152	630563	51.217	ng	99
50) Dimethylphthalate	9.627	163	454611	47.924	ng	100
51) 2,6-Dinitrotoluene	9.692	165	99188	46.104	ng	97
52) Acenaphthene	9.939	154	375033	47.942	ng	98
53) 3-Nitroaniline	9.863	138	57822	27.480	ng	98
54) 2,4-Dinitrophenol	9.980	184	98260	87.387	ng	95
55) Dibenzofuran	10.116	168	572484	47.979	ng	100
56) 4-Nitrophenol	10.039	139	152831	106.501	ng	94
57) 2,4-Dinitrotoluene	10.104	165	135674	47.451	ng	97
58) Fluorene	10.457	166	453902	47.392	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	112703	51.069	ng	94
60) Diethylphthalate	10.327	149	451967	46.895	ng	100
61) 4-Chlorophenyl-phenyle...	10.445	204	224254	47.711	ng	99
62) 4-Nitroaniline	10.480	138	100696	45.629	ng	96
63) Azobenzene	10.610	77	524784	57.497	ng	95
65) 4,6-Dinitro-2-methylph...	10.516	198	71190	51.064	ng	95
66) n-Nitrosodiphenylamine	10.569	169	387249	47.998	ng	100
67) 4-Bromophenyl-phenylether	10.939	248	130003	46.270	ng	97
68) Hexachlorobenzene	11.010	284	148605	45.678	ng	100
69) Atrazine	11.098	200	129488	57.050	ng	98
70) Pentachlorophenol	11.210	266	144797	101.125	ng	99
71) Phenanthrene	11.421	178	647201	49.351	ng	100
72) Anthracene	11.474	178	648791	50.575	ng	100
73) Carbazole	11.633	167	614631	49.804	ng	100
74) Di-n-butylphthalate	11.957	149	707026	49.624	ng	99
75) Fluoranthene	12.616	202	684156	48.049	ng	99
77) Benzidine	12.739	184	68757	16.368	ng	99
78) Pyrene	12.845	202	686681	51.402	ng	99
80) Butylbenzylphthalate	13.457	149	269712	56.045	ng	99
81) Benzo(a)anthracene	14.033	228	484677	50.677	ng	100
82) 3,3'-Dichlorobenzidine	13.998	252	93315	32.497	ng	99
83) Chrysene	14.074	228	418366	47.839	ng	99
84) Bis(2-ethylhexyl)phtha...	14.015	149	354267	58.299	ng	99
85) Di-n-octyl phthalate	14.633	149	475051	57.203	ng	97
87) Indeno(1,2,3-cd)pyrene	17.051	276	469230	45.864	ng	98
88) Benzo(b)fluoranthene	15.098	252	447398	45.372	ng	99
89) Benzo(k)fluoranthene	15.133	252	401777	46.561	ng	99
90) Benzo(a)pyrene	15.474	252	415830	51.865	ng	99
91) Dibenzo(a,h)anthracene	17.056	278	391712	46.751	ng	99
92) Benzo(g,h,i)perylene	17.503	276	334296	39.099	ng	98

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

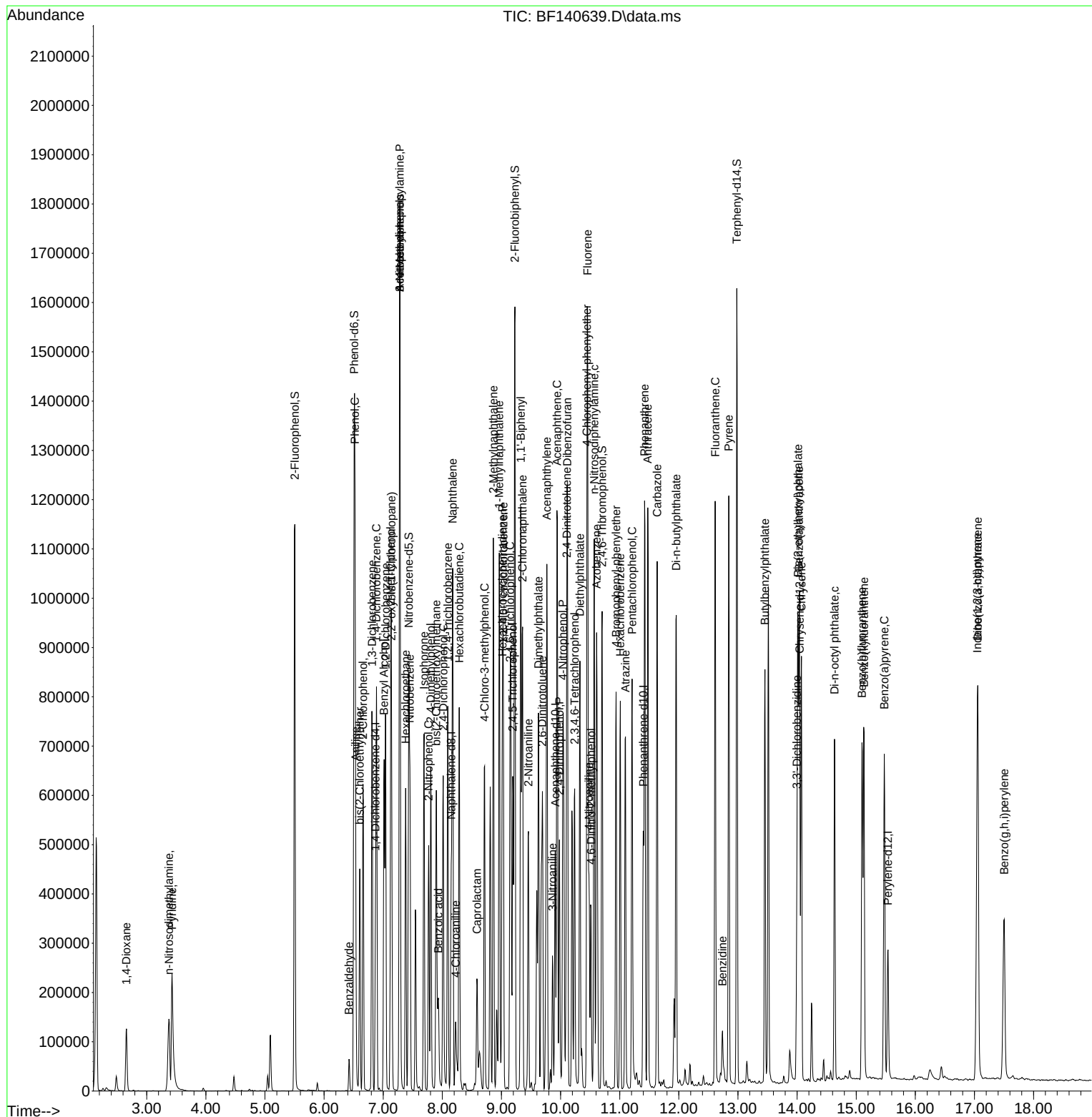
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140639.D
Acq On    : 26 Nov 2024   14:03
Operator  : RC/JU
Sample    : P4860-09MS
Misc      :
ALS Vial  : 12   Sample Multiplier: 1
```

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-006MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 26 14:26:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-006MSD	SDG No.:	P4860
Lab Sample ID:	P4860-09MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	97.5
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
BF140640.D	1	11/16/24 08:51	11/26/24 14:29	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	J	190	340	ug/Kg
108-95-2	Phenol	1600		84.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		85.7	170	ug/Kg
95-57-8	2-Chlorophenol	1600		85.5	170	ug/Kg
95-48-7	2-Methylphenol	1600		82.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1700		93.1	170	ug/Kg
98-86-2	Acetophenone	1600		89.0	170	ug/Kg
65794-96-9	3+4-Methylphenols	1600		81.7	340	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1600		41.3	81.9	ug/Kg
67-72-1	Hexachloroethane	1500		85.0	170	ug/Kg
98-95-3	Nitrobenzene	1500		93.0	170	ug/Kg
78-59-1	Isophorone	1600		86.7	170	ug/Kg
88-75-5	2-Nitrophenol	1700		96.8	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1900		95.5	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		87.9	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		77.3	170	ug/Kg
91-20-3	Naphthalene	1600		84.6	170	ug/Kg
106-47-8	4-Chloroaniline	680		84.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		85.3	170	ug/Kg
105-60-2	Caprolactam	1700		88.9	340	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		79.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1600		84.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4700	E	160	340	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		73.1	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		75.8	170	ug/Kg
92-52-4	1,1-Biphenyl	1600		89.5	170	ug/Kg
91-58-7	2-Chloronaphthalene	1600		85.3	170	ug/Kg
88-74-4	2-Nitroaniline	1600		97.3	170	ug/Kg
131-11-3	Dimethylphthalate	1700		83.7	170	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-006MSD	SDG No.:	P4860
Lab Sample ID:	P4860-09MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	97.5
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
BF140640.D	1	11/16/24 08:51	11/26/24 14:29	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1700		88.6	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		85.2	170	ug/Kg
99-09-2	3-Nitroaniline	970		91.4	170	ug/Kg
83-32-9	Acenaphthene	1600		83.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3200	E	250	340	ug/Kg
100-02-7	4-Nitrophenol	3700	E	120	340	ug/Kg
132-64-9	Dibenzofuran	1700		86.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		88.3	170	ug/Kg
84-66-2	Diethylphthalate	1600		82.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		87.7	170	ug/Kg
86-73-7	Fluorene	1600		87.6	170	ug/Kg
100-01-6	4-Nitroaniline	1600		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		120	340	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1700		83.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		80.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		87.1	170	ug/Kg
1912-24-9	Atrazine	2000		93.6	170	ug/Kg
87-86-5	Pentachlorophenol	3600	E	79.2	340	ug/Kg
85-01-8	Phenanthrene	1700		86.0	170	ug/Kg
120-12-7	Anthracene	1800		86.4	170	ug/Kg
86-74-8	Carbazole	1700		82.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1700		86.3	170	ug/Kg
206-44-0	Fluoranthene	1600		83.7	170	ug/Kg
129-00-0	Pyrene	1800		85.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1900		99.1	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1200		100	340	ug/Kg
56-55-3	Benzo(a)anthracene	1700		82.7	170	ug/Kg
218-01-9	Chrysene	1600		81.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2000		93.2	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1900		110	340	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		83.1	170	ug/Kg

Report of Analysis

Client:	Tetra Tech	Date Collected:	11/14/24
Project:	Ocean County Landfill 2024	Date Received:	11/14/24
Client Sample ID:	PH2-BOT-006MSD	SDG No.:	P4860
Lab Sample ID:	P4860-09MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	97.5
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
BF140640.D	1	11/16/24 08:51	11/26/24 14:29	PB165029

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		84.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	1800		95.3	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		80.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		83.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300		82.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		88.9	170	ug/Kg
123-91-1	1,4-Dioxane	1500		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		76.5	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	102		30 (18) - 130 (112)	68%	SPK: 150
13127-88-3	Phenol-d6	103		30 (15) - 130 (107)	68%	SPK: 150
4165-60-0	Nitrobenzene-d5	71.9		30 (18) - 130 (107)	72%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.6		30 (20) - 130 (109)	74%	SPK: 100
118-79-6	2,4,6-Tribromophenol	113		30 (10) - 130 (116)	75%	SPK: 150
1718-51-0	Terphenyl-d14	84.9		30 (10) - 130 (105)	85%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	75700	6.869			
1146-65-2	Naphthalene-d8	276000	8.151			
15067-26-2	Acenaphthene-d10	148000	9.91			
1517-22-2	Phenanthrene-d10	279000	11.398			
1719-03-5	Chrysene-d12	148000	14.045			
1520-96-3	Perylene-d12	160000	15.539			

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\BF112624\
 Data File : BF140640.D
 Acq On : 26 Nov 2024 14:29
 Operator : RC/JU
 Sample : P4860-09MSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PH2-BOT-006MSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/27/2024
 Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 26 15:01:37 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	75738	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	275981	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	148258	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	278787	20.000	ng	0.00
76) Chrysene-d12	14.045	240	147921	20.000	ng	0.00
86) Perylene-d12	15.539	264	159754	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	452634	101.968	ng	0.00
7) Phenol-d6	6.510	99	602017	102.586	ng	0.00
23) Nitrobenzene-d5	7.434	82	387966	71.906	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	178860	112.801	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	731930	73.556	ng	0.00
79) Terphenyl-d14	12.980	244	806951	84.946	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.669	88	83030	44.488	ng	98
3) Pyridine	3.440	79	199530	48.590	ng	100
4) n-Nitrosodimethylamine	3.393	42	110007	45.581	ng	94
6) Aniline	6.534	93	152440	36.906	ng	89
8) 2-Chlorophenol	6.657	128	228770	47.903	ng	97
9) Benzaldehyde	6.422	77	19221	6.187	ng	97
10) Phenol	6.522	94	288564	48.149	ng	93
11) bis(2-Chloroethyl)ether	6.604	93	212654	46.369	ng	100
12) 1,3-Dichlorobenzene	6.810	146	241782	45.057	ng	99
13) 1,4-Dichlorobenzene	6.887	146	246206	45.313	ng	100
14) 1,2-Dichlorobenzene	7.040	146	234514	46.062	ng	99
15) Benzyl Alcohol	7.016	79	208144	47.827	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.140	45	262237	48.401	ng	95
17) 2-Methylphenol	7.128	107	174379	45.615	ng	98
18) Hexachloroethane	7.381	117	90682	44.686	ng	99
19) n-Nitroso-di-n-propyla...	7.281	70	159400	45.960	ng	97
20) 3+4-Methylphenols	7.281	107	228040	46.409	ng	93
22) Acetophenone	7.281	105	313349	46.572	ng	98
24) Nitrobenzene	7.451	77	245197	43.970	ng	98
25) Isophorone	7.692	82	424726	47.196	ng	100
26) 2-Nitrophenol	7.769	139	121050	48.984	ng	98
27) 2,4-Dimethylphenol	7.804	122	165488m	55.969	ng	
28) bis(2-Chloroethoxy)met...	7.898	93	257546	46.977	ng	99
29) 2,4-Dichlorophenol	8.016	162	187124	47.761	ng	97
30) 1,2,4-Trichlorobenzene	8.092	180	199338	44.561	ng	100
31) Naphthalene	8.175	128	660640	46.473	ng	99
32) Benzoic acid	7.934	122	108817	43.147	ng	97
33) 4-Chloroaniline	8.228	127	85105	19.996	ng	99
34) Hexachlorobutadiene	8.287	225	133144	44.936	ng	99
35) Caprolactam	8.592	113	58695m	48.409	ng	
36) 4-Chloro-3-methylphenol	8.716	107	203995	46.504	ng	97
37) 2-Methylnaphthalene	8.863	142	431078	47.743	ng	100
38) 1-Methylnaphthalene	8.963	142	399182	45.104	ng	100
40) 1,2,4,5-Tetrachloroben...	9.034	216	207346	47.773	ng	99
41) Hexachlorocyclopentadiene	9.016	237	139115	136.890	ng	98
43) 2,4,6-Trichlorophenol	9.145	196	132214	48.546	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
 Data File : BF140640.D
 Acq On : 26 Nov 2024 14:29
 Operator : RC/JU
 Sample : P4860-09MSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PH2-BOT-006MSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/27/2024
 Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 26 15:01:37 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 21 15:23:48 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	139339	47.142	ng	97
46) 1,1'-Biphenyl	9.328	154	533355	48.184	ng	99
47) 2-Chloronaphthalene	9.357	162	394050	46.982	ng	98
48) 2-Nitroaniline	9.457	65	129772	48.204	ng	95
49) Acenaphthylene	9.769	152	644809	50.882	ng	100
50) Dimethylphthalate	9.628	163	472955	48.438	ng	100
51) 2,6-Dinitrotoluene	9.698	165	103339	46.665	ng	91
52) Acenaphthene	9.945	154	387584	48.135	ng	99
53) 3-Nitroaniline	9.869	138	61326	28.315	ng	95
54) 2,4-Dinitrophenol	9.981	184	107464	92.361	ng	97
55) Dibenzofuran	10.116	168	596542	48.570	ng	100
56) 4-Nitrophenol	10.039	139	158749	107.473	ng	97
57) 2,4-Dinitrotoluene	10.104	165	141491	48.076	ng	97
58) Fluorene	10.457	166	470424	47.718	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	119700	52.694	ng	93
60) Diethylphthalate	10.328	149	468228	47.198	ng	100
61) 4-Chlorophenyl-phenyle...	10.445	204	230121	47.565	ng	100
62) 4-Nitroaniline	10.486	138	105079	46.258	ng	94
63) Azobenzene	10.610	77	540322	57.513	ng	95
65) 4,6-Dinitro-2-methylph...	10.516	198	77032	54.072	ng	95
66) n-Nitrosodiphenylamine	10.569	169	406074	49.254	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	137508	47.894	ng	96
68) Hexachlorobenzene	11.010	284	154467	46.464	ng	99
69) Atrazine	11.098	200	133071	57.375	ng	99
70) Pentachlorophenol	11.210	266	152609	104.301	ng	100
71) Phenanthrene	11.422	178	658804	49.161	ng	100
72) Anthracene	11.475	178	676581	51.613	ng	100
73) Carbazole	11.633	167	628221	49.817	ng	100
74) Di-n-butylphthalate	11.951	149	727758	49.987	ng	100
75) Fluoranthene	12.616	202	702180	48.260	ng	100
77) Benzidine	12.739	184	75710	17.604	ng	99
78) Pyrene	12.845	202	702243	51.344	ng	99
80) Butylbenzylphthalate	13.457	149	280392	56.909	ng	99
81) Benzo(a)anthracene	14.033	228	488588	49.898	ng	99
82) 3,3'-Dichlorobenzidine	13.998	252	99630	33.889	ng	99
83) Chrysene	14.074	228	422655	47.206	ng	100
84) Bis(2-ethylhexyl)phtha...	14.010	149	361779	58.150	ng	99
85) Di-n-octyl phthalate	14.633	149	477197	56.125	ng	98
87) Indeno(1,2,3-cd)pyrene	17.051	276	472802	45.414	ng	98
88) Benzo(b)fluoranthene	15.104	252	452991	45.144	ng	100
89) Benzo(k)fluoranthene	15.133	252	424543	48.348	ng	99
90) Benzo(a)pyrene	15.474	252	423518	51.910	ng	99
91) Dibenzo(a,h)anthracene	17.062	278	393201	46.117	ng	100
92) Benzo(g,h,i)perylene	17.504	276	330770	38.017	ng	98

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

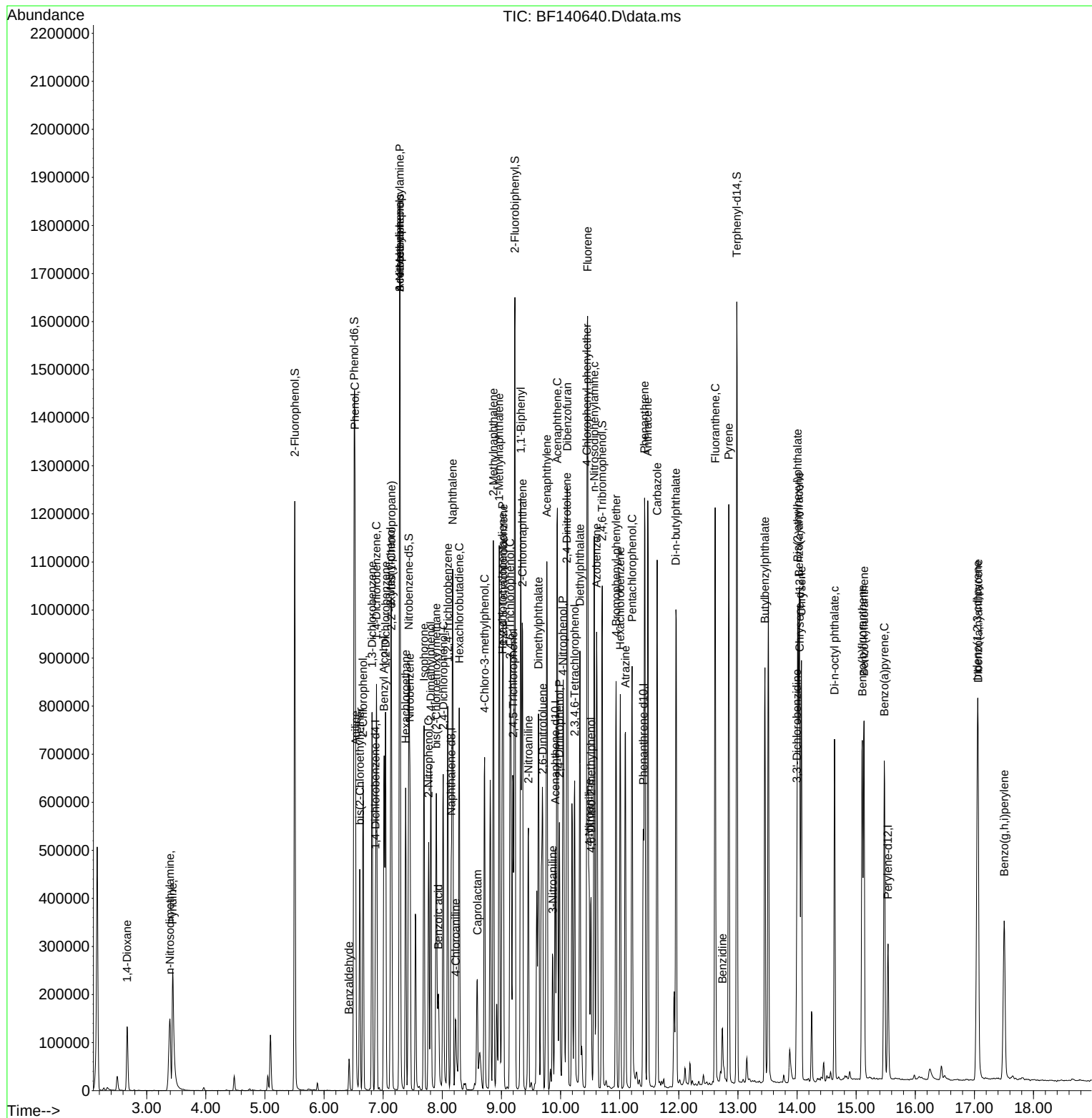
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112624\
Data File : BF140640.D
Acq On : 26 Nov 2024 14:29
Operator : RC/JU
Sample : P4860-09MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PH2-BOT-006MSD

Manual Integrations

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Quant Time: Nov 26 15:01:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



Manual Integration Report

Sequence:

BF111324

Instrument

BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BF140333.D	Benzoic acid	yogesh	11/14/2024 3:08:33 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software
SSTDICC010	BF140334.D	2,3,4,6-Tetrachlorophen ol	yogesh	11/14/2024 3:08:38 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software
SSTDICC010	BF140334.D	Benzoic acid	yogesh	11/14/2024 3:08:38 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software
SSTDICC080	BF140339.D	Caprolactam	yogesh	11/14/2024 3:08:41 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

bf111824

Instrument

BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140443.D	2,4-Dimethylphenol	yogesh	11/19/2024 3:20:35 AM	mohammad	11/19/2024 3:30:54 AM	Peak Integrated by Software
PB165029BS	BF140445.D	Acenaphthene	yogesh	11/19/2024 3:20:37 AM	mohammad	11/19/2024 3:30:54 AM	Peak Integrated by Software
PB165029BS	BF140445.D	Caprolactam	yogesh	11/19/2024 3:20:37 AM	mohammad	11/19/2024 3:30:54 AM	Peak Integrated by Software
SSTDCCC040	BF140456.D	2,4-Dimethylphenol	yogesh	11/19/2024 3:20:45 AM	mohammad	11/19/2024 3:30:54 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	BF112124	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BF140530.D	Benzoic acid	yogesh	11/22/2024 3:53:18 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDICC020	BF140531.D	Acenaphthene	yogesh	11/22/2024 3:53:19 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDICCC040	BF140532.D	Acenaphthene	yogesh	11/22/2024 3:53:21 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDICV040	BF140536.D	Acenaphthene	yogesh	11/22/2024 3:53:22 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDCCC040	BF140539.D	2,4-Dimethylphenol	yogesh	11/22/2024 3:53:24 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDCCC040	BF140539.D	Acenaphthene	yogesh	11/22/2024 3:53:24 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

BF112224

Instrument

BNA_f

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason



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

Manual Integration Report

Sequence:

bf112524

Instrument

BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140590.D	2,4-Dimethylphenol	yogesh	11/27/2024 5:26:43 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software
SSTDCCC040	BF140604.D	2,4-Dimethylphenol	yogesh	11/27/2024 5:27:03 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

BF112624

Instrument

BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140629.D	2,4-Dimethylphenol	yogesh	11/27/2024 5:32:34 AM	mohammad	11/27/2024 6:05:09 AM	Peak Integrated by Software
P4860-09MS	BF140639.D	2,4-Dimethylphenol	yogesh	11/27/2024 5:32:45 AM	mohammad	11/27/2024 6:05:09 AM	Peak Integrated by Software
P4860-09MS	BF140639.D	Caprolactam	yogesh	11/27/2024 5:32:45 AM	mohammad	11/27/2024 6:05:09 AM	Peak Integrated by Software
P4860-09MSD	BF140640.D	2,4-Dimethylphenol	yogesh	11/27/2024 5:32:47 AM	mohammad	11/27/2024 6:05:09 AM	Peak Integrated by Software
P4860-09MSD	BF140640.D	Caprolactam	yogesh	11/27/2024 5:32:47 AM	mohammad	11/27/2024 6:05:09 AM	Peak Integrated by Software

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF111324

Review By	yogesh	Review On	11/14/2024 3:08:53 AM
Supervise By	mohammad	Supervise On	11/15/2024 5:49:17 AM
SubDirectory	BF111324	HP Acquire Method	BNA_F
		HP Processing Method	Bf111324
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621		
CCC	SP6624		
Internal Standard/PEM	S12327,10ul/1000ul sample		
ICV/I.BLK	SP6559		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140331.D	13 Nov 2024 08:35	RC/JU	Ok
2	SSTDICC2.5	BF140332.D	13 Nov 2024 09:01	RC/JU	Ok
3	SSTDICC005	BF140333.D	13 Nov 2024 09:27	RC/JU	Ok,M
4	SSTDICC010	BF140334.D	13 Nov 2024 09:53	RC/JU	Ok,M
5	SSTDICC020	BF140335.D	13 Nov 2024 10:29	RC/JU	Ok
6	SSTDICCC040	BF140336.D	13 Nov 2024 10:55	RC/JU	Not Ok
7	SSTDICC050	BF140337.D	13 Nov 2024 11:21	RC/JU	Ok
8	SSTDICC060	BF140338.D	13 Nov 2024 11:47	RC/JU	Ok
9	SSTDICC080	BF140339.D	13 Nov 2024 12:13	RC/JU	Ok,M
10	SSTDICCC040	BF140340.D	13 Nov 2024 12:48	RC/JU	Ok
11	SSTDICV040	BF140341.D	13 Nov 2024 13:19	RC/JU	Ok
12	PB164401BL	BF140342.D	13 Nov 2024 13:45	RC/JU	Ok
13	P4495-11	BF140343.D	13 Nov 2024 15:25	RC/JU	Dilution
14	P4495-11DL	BF140344.D	13 Nov 2024 16:02	RC/JU	Ok
15	P3845-03	BF140345.D	13 Nov 2024 16:40	RC/JU	Dilution
16	P3845-03DL	BF140346.D	13 Nov 2024 17:06	RC/JU	Ok
17	P3845-06	BF140347.D	13 Nov 2024 17:32	RC/JU	Dilution
18	P3845-06DL	BF140348.D	13 Nov 2024 17:58	RC/JU	Not Ok
19	SP6681	BF140349.D	13 Nov 2024 18:39	RC/JU	Ok,NS

M : Manual Integration

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF111824

Review By	yogesh	Review On	11/19/2024 3:20:55 AM
Supervise By	mohammad	Supervise On	11/19/2024 3:30:54 AM
SubDirectory	BF111824	HP Acquire Method	BNA_F
		HP Processing Method	Bf111324
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621		
CCC	SP6624		
Internal Standard/PEM	S12327,10ul/1000ul sample		
ICV/I.BLK	SP6559		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140442.D	18 Nov 2024 09:18	RC/JU	Ok
2	SSTDCCC040	BF140443.D	18 Nov 2024 10:13	RC/JU	Ok,M
3	PB165029BL	BF140444.D	18 Nov 2024 10:39	RC/JU	Ok
4	PB165029BS	BF140445.D	18 Nov 2024 11:05	RC/JU	Ok,M
5	PB164846BS	BF140446.D	18 Nov 2024 11:32	RC/JU	Ok,M
6	PB164846BSD	BF140447.D	18 Nov 2024 11:58	RC/JU	Ok,M
7	PB164940BL	BF140448.D	18 Nov 2024 12:24	RC/JU	Ok
8	PB164940BS	BF140449.D	18 Nov 2024 12:50	RC/JU	Ok,M
9	PB164965BL	BF140450.D	18 Nov 2024 13:16	RC/JU	Ok
10	PB164965BS	BF140451.D	18 Nov 2024 13:43	RC/JU	Ok,M
11	PB164969BS	BF140452.D	18 Nov 2024 14:19	RC/JU	Ok,M
12	PB164969BL	BF140453.D	18 Nov 2024 14:45	RC/JU	Ok
13	PB164880TB	BF140454.D	18 Nov 2024 15:11	RC/JU	Ok
14	DFTPP	BF140455.D	18 Nov 2024 15:48	RC/JU	Ok
15	SSTDCCC040	BF140456.D	18 Nov 2024 16:14	RC/JU	Ok,M
16	PB164944TB	BF140457.D	18 Nov 2024 16:40	RC/JU	Ok
17	P4821-04RE	BF140458.D	18 Nov 2024 17:13	RC/JU	Confirms
18	P4861-01	BF140459.D	18 Nov 2024 17:40	RC/JU	Ok
19	P4871-01	BF140460.D	18 Nov 2024 18:06	RC/JU	Ok
20	P4848-02	BF140461.D	18 Nov 2024 18:32	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM
SubDirectory	BF112124	HP Acquire Method	BNA_F
		HP Processing Method	bf112124
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621		
CCC	SP6624		
Internal Standard/PEM	S12329,10ul/1000ul sample		
ICV/I.BLK	SP6559		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140526.D	21 Nov 2024 10:17	RC/JU	Ok
2	SSTDCCC040	BF140527.D	21 Nov 2024 10:44	RC/JU	Not Ok
3	SSTDICC2.5	BF140528.D	21 Nov 2024 11:13	RC/JU	Ok
4	SSTDICC005	BF140529.D	21 Nov 2024 11:39	RC/JU	Ok
5	SSTDICC010	BF140530.D	21 Nov 2024 12:05	RC/JU	Ok,M
6	SSTDICC020	BF140531.D	21 Nov 2024 12:32	RC/JU	Ok,M
7	SSTDICCC040	BF140532.D	21 Nov 2024 12:58	RC/JU	Ok,M
8	SSTDICC050	BF140533.D	21 Nov 2024 13:25	RC/JU	Ok
9	SSTDICC060	BF140534.D	21 Nov 2024 13:51	RC/JU	Ok
10	SSTDICC080	BF140535.D	21 Nov 2024 14:18	RC/JU	Ok
11	SSTDICV040	BF140536.D	21 Nov 2024 15:07	RC/JU	Ok,M
12	PB165144BL	BF140537.D	21 Nov 2024 15:34	RC/JU	Ok
13	DFTPP	BF140538.D	21 Nov 2024 16:27	RC/JU	Ok
14	SSTDCCC040	BF140539.D	21 Nov 2024 16:54	RC/JU	Ok,M
15	PB165060TB	BF140540.D	21 Nov 2024 17:20	RC/JU	Ok
16	P4887-06	BF140541.D	21 Nov 2024 17:55	RC/JU	Ok
17	P4887-02	BF140542.D	21 Nov 2024 18:21	RC/JU	Ok
18	P4870-16	BF140543.D	21 Nov 2024 18:48	RC/JU	Ok
19	P4870-15	BF140544.D	21 Nov 2024 19:14	RC/JU	Ok
20	P4870-14	BF140545.D	21 Nov 2024 19:40	RC/JU	Ok
21	P4870-13	BF140546.D	21 Nov 2024 20:07	RC/JU	Ok

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM
SubDirectory	BF112124	HP Acquire Method	BNA_F
		HP Processing Method	bf112124
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621		
CCC	SP6624		
Internal Standard/PEM	S12329,10ul/1000ul sample		
ICV/I.BLK	SP6559		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	P4929-02	BF140547.D	21 Nov 2024 20:33	RC/JU	Ok
23	P4924-04	BF140548.D	21 Nov 2024 20:59	RC/JU	Ok
24	P4921-01	BF140549.D	21 Nov 2024 21:25	RC/JU	Ok
25	P4916-12	BF140550.D	21 Nov 2024 21:51	RC/JU	Ok
26	P4916-08	BF140551.D	21 Nov 2024 22:18	RC/JU	Ok
27	P4916-04	BF140552.D	21 Nov 2024 22:44	RC/JU	Ok
28	P4887-01	BF140553.D	21 Nov 2024 23:10	RC/JU	Ok
29	P4916-09	BF140554.D	21 Nov 2024 23:36	RC/JU	Ok
30	P4916-09MS	BF140555.D	22 Nov 2024 00:02	RC/JU	Ok,M
31	P4916-09MSD	BF140556.D	22 Nov 2024 00:28	RC/JU	Ok,M
32	P4916-01	BF140557.D	22 Nov 2024 00:54	RC/JU	Ok
33	P4916-05RE	BF140558.D	22 Nov 2024 01:21	RC/JU	Confirms
34	P4887-05RE	BF140559.D	22 Nov 2024 01:47	RC/JU	Confirms
35	P4924-01	BF140560.D	22 Nov 2024 02:13	RC/JU	ReRun
36	P4936-01	BF140561.D	22 Nov 2024 02:39	RC/JU	Ok,M
37	P4929-01	BF140562.D	22 Nov 2024 03:06	RC/JU	Ok,M

M : Manual Integration

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF112224

Review By	Jagrut	Review On	11/25/2024 11:47:00 AM
Supervise By	mohammad	Supervise On	11/27/2024 6:04:05 AM
SubDirectory	BF112224	HP Acquire Method	BNA_F
		HP Processing Method	bf112124
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621		
CCC	SP6624		
Internal Standard/PEM	S12329,10ul/1000ul sample		
ICV/I.BLK	SP6559		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140563.D	22 Nov 2024 08:54	RC/JU	Ok
2	SSTDCCC040	BF140564.D	22 Nov 2024 09:20	RC/JU	Ok
3	PB165129BL	BF140565.D	22 Nov 2024 09:46	RC/JU	Ok
4	PB165129BS	BF140566.D	22 Nov 2024 10:12	RC/JU	Ok,M
5	P4910-08	BF140567.D	22 Nov 2024 10:44	RC/JU	Ok
6	P4910-04	BF140568.D	22 Nov 2024 11:10	RC/JU	Ok
7	P4893-08	BF140569.D	22 Nov 2024 11:36	RC/JU	Ok
8	P4893-04	BF140570.D	22 Nov 2024 12:02	RC/JU	Ok
9	P4925-08	BF140571.D	22 Nov 2024 12:28	RC/JU	Ok
10	P4925-04	BF140572.D	22 Nov 2024 12:55	RC/JU	Ok
11	P4923-06	BF140573.D	22 Nov 2024 13:21	RC/JU	Ok
12	P4925-01	BF140574.D	22 Nov 2024 13:47	RC/JU	Ok
13	P4938-01	BF140575.D	22 Nov 2024 14:13	RC/JU	Ok
14	P4938-01MS	BF140576.D	22 Nov 2024 14:40	RC/JU	Ok,M
15	P4938-01MSD	BF140577.D	22 Nov 2024 15:06	RC/JU	Ok,M
16	P4860-08	BF140578.D	22 Nov 2024 15:32	RC/JU	Ok
17	P4860-05	BF140579.D	22 Nov 2024 15:58	RC/JU	Ok
18	P4924-01	BF140580.D	22 Nov 2024 16:24	RC/JU	Ok
19	P4948-01	BF140581.D	22 Nov 2024 16:50	RC/JU	Ok,M
20	P4949-03	BF140582.D	22 Nov 2024 17:16	RC/JU	Ok
21	P4948-03	BF140583.D	22 Nov 2024 17:43	RC/JU	Ok,M

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF112224

Review By	Jagrut	Review On	11/25/2024 11:47:00 AM
Supervise By	mohammad	Supervise On	11/27/2024 6:04:05 AM
SubDirectory	BF112224	HP Acquire Method	BNA_F
		HP Processing Method	bf112124
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621		
CCC	SP6624		
Internal Standard/PEM	S12329,10ul/1000ul sample		
ICV/I.BLK	SP6559		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	P4822-04	BF140584.D	22 Nov 2024 18:09	RC/JU	Ok
23	P4822-02	BF140585.D	22 Nov 2024 18:35	RC/JU	Ok,M
24	P4925-05	BF140586.D	22 Nov 2024 19:01	RC/JU	Ok
25	P4938-05	BF140587.D	22 Nov 2024 19:27	RC/JU	Ok
26	P4860-02	BF140588.D	22 Nov 2024 19:53	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM
SubDirectory	BF112524	HP Acquire Method	BNA_F
		HP Processing Method	bf112124
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621		
CCC	SP6624		
Internal Standard/PEM	S12330,10ul/1000ul sample		
ICV/I.BLK	SP6559		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140589.D	25 Nov 2024 09:07	RC/JU	Ok
2	SSTDCCC040	BF140590.D	25 Nov 2024 09:33	RC/JU	Ok,M
3	PB165123TB	BF140591.D	25 Nov 2024 09:59	RC/JU	Ok
4	PB165155BS	BF140592.D	25 Nov 2024 10:25	RC/JU	Ok,M
5	PB165155BL	BF140593.D	25 Nov 2024 10:51	RC/JU	Ok
6	PB165086BS	BF140594.D	25 Nov 2024 11:17	RC/JU	Ok,M
7	PB165111TB	BF140595.D	25 Nov 2024 11:43	RC/JU	Ok
8	PB165052BS	BF140596.D	25 Nov 2024 12:09	RC/JU	Ok,M
9	PB164986TB	BF140597.D	25 Nov 2024 12:36	RC/JU	Ok
10	PB165152BS	BF140598.D	25 Nov 2024 13:02	RC/JU	Ok,M
11	PB164886TB	BF140599.D	25 Nov 2024 13:27	RC/JU	Ok
12	PB165152BSD	BF140600.D	25 Nov 2024 13:54	RC/JU	Ok,M
13	PB165152BL	BF140601.D	25 Nov 2024 14:28	RC/JU	Ok
14	PB165185BS	BF140602.D	25 Nov 2024 14:54	RC/JU	Ok,M
15	DFTPP	BF140603.D	25 Nov 2024 15:23	RC/JU	Ok
16	SSTDCCC040	BF140604.D	25 Nov 2024 15:49	RC/JU	Ok,M
17	PB165052BL	BF140605.D	25 Nov 2024 16:17	RC/JU	Ok
18	P4947-01	BF140606.D	25 Nov 2024 16:49	RC/JU	Ok
19	P4892-04	BF140607.D	25 Nov 2024 17:15	RC/JU	Ok
20	P4860-09	BF140608.D	25 Nov 2024 17:41	RC/JU	Ok
21	P4860-01	BF140609.D	25 Nov 2024 18:07	RC/JU	Ok

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM
SubDirectory	BF112524	HP Acquire Method	BNA_F
		HP Processing Method	bf112124
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621		
CCC	SP6624		
Internal Standard/PEM	S12330,10ul/1000ul sample		
ICV/I.BLK	SP6559		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	P4960-01	BF140610.D	25 Nov 2024 18:34	RC/JU	Ok
23	P4960-05	BF140611.D	25 Nov 2024 19:00	RC/JU	Ok
24	P4892-03	BF140612.D	25 Nov 2024 19:26	RC/JU	Ok
25	P4892-03MS	BF140613.D	25 Nov 2024 19:52	RC/JU	Ok,M
26	P4892-03MSD	BF140614.D	25 Nov 2024 20:18	RC/JU	Ok,M
27	P4860-06	BF140615.D	25 Nov 2024 20:45	RC/JU	Ok
28	P4860-09MS	BF140616.D	25 Nov 2024 21:11	RC/JU	Not Ok
29	P4860-09MSD	BF140617.D	25 Nov 2024 21:37	RC/JU	Not Ok
30	P4960-03	BF140618.D	25 Nov 2024 22:03	RC/JU	ReRun
31	P4860-10	BF140619.D	25 Nov 2024 22:29	RC/JU	ReRun
32	P4860-04	BF140620.D	25 Nov 2024 22:55	RC/JU	Ok
33	P4860-07	BF140621.D	25 Nov 2024 23:22	RC/JU	Ok
34	P4860-03	BF140622.D	25 Nov 2024 23:48	RC/JU	Ok
35	P4951-01	BF140623.D	26 Nov 2024 00:14	RC/JU	ReRun
36	P4954-01	BF140624.D	26 Nov 2024 00:40	RC/JU	Ok,M
37	P4954-01MS	BF140625.D	26 Nov 2024 01:06	RC/JU	Ok,M
38	P4954-01MSD	BF140626.D	26 Nov 2024 01:32	RC/JU	Ok,M
39	P4954-03	BF140627.D	26 Nov 2024 01:58	RC/JU	Ok,M

M : Manual Integration

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF112624

Review By	yogesh	Review On	11/27/2024 5:33:18 AM
Supervise By	mohammad	Supervise On	11/27/2024 6:05:09 AM
SubDirectory	BF112624	HP Acquire Method	BNA_F
		HP Processing Method	bf112124
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621		
CCC	SP6624		
Internal Standard/PEM	S12330,10ul/1000ul sample		
ICV/I.BLK	SP6559		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140628.D	26 Nov 2024 09:09	RC/JU	Ok
2	SSTDCCC040	BF140629.D	26 Nov 2024 09:35	RC/JU	Ok,M
3	PB165203BL	BF140630.D	26 Nov 2024 10:01	RC/JU	Ok
4	PB165203BS	BF140631.D	26 Nov 2024 10:27	RC/JU	Ok,M
5	PB165185BL	BF140632.D	26 Nov 2024 10:53	RC/JU	Ok
6	PB165203BSD	BF140633.D	26 Nov 2024 11:20	RC/JU	Ok,M
7	P4960-04	BF140634.D	26 Nov 2024 11:52	RC/JU	Ok
8	P4960-06	BF140635.D	26 Nov 2024 12:18	RC/JU	Ok
9	P4960-02	BF140636.D	26 Nov 2024 12:44	RC/JU	Ok
10	P5000-01	BF140637.D	26 Nov 2024 13:10	RC/JU	Ok
11	P4960-03	BF140638.D	26 Nov 2024 13:36	RC/JU	Ok
12	P4860-09MS	BF140639.D	26 Nov 2024 14:03	RC/JU	Ok,M
13	P4860-09MSD	BF140640.D	26 Nov 2024 14:29	RC/JU	Ok,M
14	P4860-10	BF140641.D	26 Nov 2024 14:55	RC/JU	Ok
15	P4951-01RE	BF140642.D	26 Nov 2024 15:22	RC/JU	Confirms
16	P4985-01	BF140643.D	26 Nov 2024 15:48	RC/JU	Ok
17	P4985-01MS	BF140644.D	26 Nov 2024 16:14	RC/JU	Ok,M
18	P4985-01MSD	BF140645.D	26 Nov 2024 16:41	RC/JU	Ok,M
19	P4938-04	BF140646.D	26 Nov 2024 17:07	RC/JU	ReRun
20	P4938-04MS	BF140647.D	26 Nov 2024 17:33	RC/JU	Not Ok
21	P4938-04MSD	BF140648.D	26 Nov 2024 18:00	RC/JU	Not Ok

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF112624

Review By	yogesh	Review On	11/27/2024 5:33:18 AM
Supervise By	mohammad	Supervise On	11/27/2024 6:05:09 AM
SubDirectory	BF112624	HP Acquire Method	BNA_F
		HP Processing Method	bf112124
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621		
CCC	SP6624		
Internal Standard/PEM	S12330,10ul/1000ul sample		
ICV/I.BLK	SP6559		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	P4985-04	BF140649.D	26 Nov 2024 18:26	RC/JU	ReRun
23	P4938-08	BF140650.D	26 Nov 2024 18:52	RC/JU	ReRun
24	P4985-05	BF140651.D	26 Nov 2024 19:19	RC/JU	ReRun
25	P5000-05	BF140652.D	26 Nov 2024 19:45	RC/JU	ReRun
26	P4971-01	BF140653.D	26 Nov 2024 20:11	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF111324

Review By	yogesh	Review On	11/14/2024 3:08:53 AM
Supervise By	mohammad	Supervise On	11/15/2024 5:49:17 AM
SubDirectory	BF111324	HP Acquire Method	BNA_F
		HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	SP6573 SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6624 S12327,10ul/1000ul sample SP6559

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140331.D	13 Nov 2024 08:35		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF140332.D	13 Nov 2024 09:01		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF140333.D	13 Nov 2024 09:27	Compound#41,54,77 removed from 5 ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BF140334.D	13 Nov 2024 09:53		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF140335.D	13 Nov 2024 10:29		RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF140336.D	13 Nov 2024 10:55	Injection Error	RC/JU	Not Ok
7	SSTDICC050	SSTDICC050	BF140337.D	13 Nov 2024 11:21		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BF140338.D	13 Nov 2024 11:47		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF140339.D	13 Nov 2024 12:13	Compound#09 removed from 80 ppm	RC/JU	Ok,M
10	SSTDICCC040	SSTDICCC040	BF140340.D	13 Nov 2024 12:48		RC/JU	Ok
11	SSTDICV040	ICVBF111324	BF140341.D	13 Nov 2024 13:19		RC/JU	Ok
12	PB164401BL	PB164401BL	BF140342.D	13 Nov 2024 13:45		RC/JU	Ok
13	P4495-11	PT-BNA-SOIL	BF140343.D	13 Nov 2024 15:25	PT Sample, Need 5X Dilution	RC/JU	Dilution
14	P4495-11DL	PT-BNA-SOILDL	BF140344.D	13 Nov 2024 16:02		RC/JU	Ok
15	P3845-03	PT-BN-WP	BF140345.D	13 Nov 2024 16:40	PT Sample Analyzed for confirmation - Need 5X Dilution.	RC/JU	Dilution
16	P3845-03DL	PT-BN-WPDL	BF140346.D	13 Nov 2024 17:06		RC/JU	Ok
17	P3845-06	PT-ACIDS-WP	BF140347.D	13 Nov 2024 17:32	PT Sample Analyzed for confirmation - Need 5X Dilution.	RC/JU	Dilution

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF111324

Review By	yogesh	Review On	11/14/2024 3:08:53 AM
Supervise By	mohammad	Supervise On	11/15/2024 5:49:17 AM
SubDirectory	BF111324	HP Acquire Method	BNA_F
		HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P3845-06DL	PT-ACIDS-WPDL	BF140348.D	13 Nov 2024 17:58	Dilution not matching (Low results)	RC/JU	Not Ok
19	SP6681	SP6681	BF140349.D	13 Nov 2024 18:39	8270-625.1 SPIKE SOLUTION	RC/JU	Ok,NS

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF111824

Review By	yogesh	Review On	11/19/2024 3:20:55 AM				
Supervise By	mohammad	Supervise On	11/19/2024 3:30:54 AM				
SubDirectory	BF111824	HP Acquire Method	BNA_F	HP Processing Method	Bf111324		
STD. NAME		STD REF.#					
Tune/Reschk		SP6573					
Initial Calibration Stds		SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621					
CCC		SP6624					
Internal Standard/PEM		S12327,10ul/1000ul sample					
ICV/I.BLK		SP6559					
Surrogate Standard							
MS/MSD Standard							
LCS Standard							

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140442.D	18 Nov 2024 09:18		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140443.D	18 Nov 2024 10:13		RC/JU	Ok,M
3	PB165029BL	PB165029BL	BF140444.D	18 Nov 2024 10:39		RC/JU	Ok
4	PB165029BS	PB165029BS	BF140445.D	18 Nov 2024 11:05		RC/JU	Ok,M
5	PB164846BS	PB164846BS	BF140446.D	18 Nov 2024 11:32		RC/JU	Ok,M
6	PB164846BSD	PB164846BSD	BF140447.D	18 Nov 2024 11:58		RC/JU	Ok,M
7	PB164940BL	PB164940BL	BF140448.D	18 Nov 2024 12:24		RC/JU	Ok
8	PB164940BS	PB164940BS	BF140449.D	18 Nov 2024 12:50		RC/JU	Ok,M
9	PB164965BL	PB164965BL	BF140450.D	18 Nov 2024 13:16		RC/JU	Ok
10	PB164965BS	PB164965BS	BF140451.D	18 Nov 2024 13:43		RC/JU	Ok,M
11	PB164969BS	PB164969BS	BF140452.D	18 Nov 2024 14:19		RC/JU	Ok,M
12	PB164969BL	PB164969BL	BF140453.D	18 Nov 2024 14:45		RC/JU	Ok
13	PB164880TB	PB164880TB	BF140454.D	18 Nov 2024 15:11		RC/JU	Ok
14	DFTPP	DFTPP	BF140455.D	18 Nov 2024 15:48		RC/JU	Ok
15	SSTDCCC040	SSTDCCC040	BF140456.D	18 Nov 2024 16:14		RC/JU	Ok,M
16	PB164944TB	PB164944TB	BF140457.D	18 Nov 2024 16:40		RC/JU	Ok
17	P4821-04RE	BP-F-24RE	BF140458.D	18 Nov 2024 17:13	Surrogate Fail	RC/JU	Confirms
18	P4861-01	WC-11-A-202411	BF140459.D	18 Nov 2024 17:40		RC/JU	Ok

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF111824

Review By	yogesh	Review On	11/19/2024 3:20:55 AM		
Supervise By	mohammad	Supervise On	11/19/2024 3:30:54 AM		
SubDirectory	BF111824	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4871-01	WC-10-A-202411	BF140460.D	18 Nov 2024 18:06		RC/JU	Ok
20	P4848-02	TP-1	BF140461.D	18 Nov 2024 18:32		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM
SubDirectory	BF112124	HP Acquire Method	BNA_F
		HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140526.D	21 Nov 2024 10:17		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140527.D	21 Nov 2024 10:44	A Fresh Calibration is required.	RC/JU	Not Ok
3	SSTDICC2.5	SSTDICC2.5	BF140528.D	21 Nov 2024 11:13		RC/JU	Ok
4	SSTDICC005	SSTDICC005	BF140529.D	21 Nov 2024 11:39	Compound#9,32,41,54,56,65,70 removed from 5 ppm	RC/JU	Ok
5	SSTDICC010	SSTDICC010	BF140530.D	21 Nov 2024 12:05		RC/JU	Ok,M
6	SSTDICC020	SSTDICC020	BF140531.D	21 Nov 2024 12:32	Compound#32,41,54 Kept on LR	RC/JU	Ok,M
7	SSTDICCC040	SSTDICCC040	BF140532.D	21 Nov 2024 12:58	Calibration failed for Benzidine	RC/JU	Ok,M
8	SSTDICC050	SSTDICC050	BF140533.D	21 Nov 2024 13:25	The Calibration is Good For 8270 DOD Except com#77 and good for 625.1 Method Except com#77	RC/JU	Ok
9	SSTDICC060	SSTDICC060	BF140534.D	21 Nov 2024 13:51		RC/JU	Ok
10	SSTDICC080	SSTDICC080	BF140535.D	21 Nov 2024 14:18	Compound#9 removed from 80 ppm	RC/JU	Ok
11	SSTDICV040	ICVBF112124	BF140536.D	21 Nov 2024 15:07		RC/JU	Ok,M
12	PB165144BL	PB165144BL	BF140537.D	21 Nov 2024 15:34		RC/JU	Ok
13	DFTPP	DFTPP	BF140538.D	21 Nov 2024 16:27		RC/JU	Ok
14	SSTDCCC040	SSTDCCC040	BF140539.D	21 Nov 2024 16:54		RC/JU	Ok,M
15	PB165060TB	PB165060TB	BF140540.D	21 Nov 2024 17:20		RC/JU	Ok
16	P4887-06	MH-760	BF140541.D	21 Nov 2024 17:55		RC/JU	Ok

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM		
SubDirectory	BF112124	HP Acquire Method	BNA_F	HP Processing Method	bf112124
STD. NAME		STD REF.#			
Tune/Reschk		SP6573			
Initial Calibration Stds		SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621			
CCC		SP6624			
Internal Standard/PEM		S12329,10ul/1000ul sample			
ICV/I.BLK		SP6559			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

17	P4887-02	MH-739	BF140542.D	21 Nov 2024 18:21		RC/JU	Ok
18	P4870-16	TP-15	BF140543.D	21 Nov 2024 18:48		RC/JU	Ok
19	P4870-15	MH-736	BF140544.D	21 Nov 2024 19:14		RC/JU	Ok
20	P4870-14	MH-735	BF140545.D	21 Nov 2024 19:40		RC/JU	Ok
21	P4870-13	TP-1	BF140546.D	21 Nov 2024 20:07		RC/JU	Ok
22	P4929-02	ARS520	BF140547.D	21 Nov 2024 20:33		RC/JU	Ok
23	P4924-04	MH-4	BF140548.D	21 Nov 2024 20:59		RC/JU	Ok
24	P4921-01	WC-11-A-202411	BF140549.D	21 Nov 2024 21:25		RC/JU	Ok
25	P4916-12	TP-3-WC	BF140550.D	21 Nov 2024 21:51		RC/JU	Ok
26	P4916-08	TP-2-WC	BF140551.D	21 Nov 2024 22:18		RC/JU	Ok
27	P4916-04	TP-1-WC	BF140552.D	21 Nov 2024 22:44		RC/JU	Ok
28	P4887-01	MH-739	BF140553.D	21 Nov 2024 23:10		RC/JU	Ok
29	P4916-09	TP-3-WC	BF140554.D	21 Nov 2024 23:36		RC/JU	Ok
30	P4916-09MS	TP-3-WCMS	BF140555.D	22 Nov 2024 00:02		RC/JU	Ok,M
31	P4916-09MSD	TP-3-WCMSD	BF140556.D	22 Nov 2024 00:28		RC/JU	Ok,M
32	P4916-01	TP-1-WC	BF140557.D	22 Nov 2024 00:54		RC/JU	Ok
33	P4916-05RE	TP-2-WCRE	BF140558.D	22 Nov 2024 01:21	Internal Standard Fail	RC/JU	Confirms
34	P4887-05RE	MH-760RE	BF140559.D	22 Nov 2024 01:47	Internal Standard Fail	RC/JU	Confirms
35	P4924-01	MH-4	BF140560.D	22 Nov 2024 02:13	Internal Standard Fail	RC/JU	ReRun

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM		
SubDirectory	BF112124	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

36	P4936-01	PL-01-11202024	BF140561.D	22 Nov 2024 02:39	Internal Standard Fail	RC/JU	Ok,M
37	P4929-01	ARS520	BF140562.D	22 Nov 2024 03:06	Internal Standard Fail	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF112224

Review By	Jagrut	Review On	11/25/2024 11:47:00 AM
Supervise By	mohammad	Supervise On	11/27/2024 6:04:05 AM
SubDirectory	BF112224	HP Acquire Method	BNA_F
		HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140563.D	22 Nov 2024 08:54		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140564.D	22 Nov 2024 09:20		RC/JU	Ok
3	PB165129BL	PB165129BL	BF140565.D	22 Nov 2024 09:46		RC/JU	Ok
4	PB165129BS	PB165129BS	BF140566.D	22 Nov 2024 10:12		RC/JU	Ok,M
5	P4910-08	MH-759	BF140567.D	22 Nov 2024 10:44		RC/JU	Ok
6	P4910-04	MH-COTTAGE	BF140568.D	22 Nov 2024 11:10		RC/JU	Ok
7	P4893-08	MH-762	BF140569.D	22 Nov 2024 11:36		RC/JU	Ok
8	P4893-04	MH-763	BF140570.D	22 Nov 2024 12:02		RC/JU	Ok
9	P4925-08	MH-741	BF140571.D	22 Nov 2024 12:28		RC/JU	Ok
10	P4925-04	MH-741	BF140572.D	22 Nov 2024 12:55		RC/JU	Ok
11	P4923-06	72-11991	BF140573.D	22 Nov 2024 13:21		RC/JU	Ok
12	P4925-01	MH-741	BF140574.D	22 Nov 2024 13:47		RC/JU	Ok
13	P4938-01	MH-732	BF140575.D	22 Nov 2024 14:13		RC/JU	Ok
14	P4938-01MS	MH-732MS	BF140576.D	22 Nov 2024 14:40		RC/JU	Ok,M
15	P4938-01MSD	MH-732MSD	BF140577.D	22 Nov 2024 15:06		RC/JU	Ok,M
16	P4860-08	PH2-BOT-007	BF140578.D	22 Nov 2024 15:32		RC/JU	Ok
17	P4860-05	PH2-BOT-004	BF140579.D	22 Nov 2024 15:58		RC/JU	Ok
18	P4924-01	MH-4	BF140580.D	22 Nov 2024 16:24		RC/JU	Ok

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF112224

Review By	Jagrut	Review On	11/25/2024 11:47:00 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:05 AM		
SubDirectory	BF112224	HP Acquire Method	BNA_F	HP Processing Method	bf112124
STD. NAME		STD REF.#			
Tune/Reschk		SP6573			
Initial Calibration Stds		SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621			
CCC		SP6624			
Internal Standard/PEM		S12329,10ul/1000ul sample			
ICV/I.BLK		SP6559			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	P4948-01	337	BF140581.D	22 Nov 2024 16:50		RC/JU	Ok,M
20	P4949-03	CONTAINMENT-STON	BF140582.D	22 Nov 2024 17:16	Internal Standard Fail	RC/JU	Ok
21	P4948-03	72-11944	BF140583.D	22 Nov 2024 17:43	Internal Standard Fail	RC/JU	Ok,M
22	P4822-04	SOIL-2	BF140584.D	22 Nov 2024 18:09		RC/JU	Ok
23	P4822-02	SOIL-1	BF140585.D	22 Nov 2024 18:35		RC/JU	Ok,M
24	P4925-05	MH-758	BF140586.D	22 Nov 2024 19:01		RC/JU	Ok
25	P4938-05	MH-734	BF140587.D	22 Nov 2024 19:27		RC/JU	Ok
26	P4860-02	PH2-BOT-001	BF140588.D	22 Nov 2024 19:53		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM
SubDirectory	BF112524	HP Acquire Method	BNA_F
		HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140589.D	25 Nov 2024 09:07		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140590.D	25 Nov 2024 09:33		RC/JU	Ok,M
3	PB165123TB	PB165123TB	BF140591.D	25 Nov 2024 09:59		RC/JU	Ok
4	PB165155BS	PB165155BS	BF140592.D	25 Nov 2024 10:25		RC/JU	Ok,M
5	PB165155BL	PB165155BL	BF140593.D	25 Nov 2024 10:51		RC/JU	Ok
6	PB165086BS	PB165086BS	BF140594.D	25 Nov 2024 11:17		RC/JU	Ok,M
7	PB165111TB	PB165111TB	BF140595.D	25 Nov 2024 11:43		RC/JU	Ok
8	PB165052BS	PB165052BS	BF140596.D	25 Nov 2024 12:09		RC/JU	Ok,M
9	PB164986TB	PB164986TB	BF140597.D	25 Nov 2024 12:36		RC/JU	Ok
10	PB165152BS	PB165152BS	BF140598.D	25 Nov 2024 13:02		RC/JU	Ok,M
11	PB164886TB	PB164886TB	BF140599.D	25 Nov 2024 13:27		RC/JU	Ok
12	PB165152BSD	PB165152BSD	BF140600.D	25 Nov 2024 13:54		RC/JU	Ok,M
13	PB165152BL	PB165152BL	BF140601.D	25 Nov 2024 14:28		RC/JU	Ok
14	PB165185BS	PB165185BS	BF140602.D	25 Nov 2024 14:54		RC/JU	Ok,M
15	DFTPP	DFTPP	BF140603.D	25 Nov 2024 15:23		RC/JU	Ok
16	SSTDCCC040	SSTDCCC040	BF140604.D	25 Nov 2024 15:49		RC/JU	Ok,M
17	PB165052BL	PB165052BL	BF140605.D	25 Nov 2024 16:17		RC/JU	Ok
18	P4947-01	A3988	BF140606.D	25 Nov 2024 16:49		RC/JU	Ok

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM		
SubDirectory	BF112524	HP Acquire Method	BNA_F	HP Processing Method	bf112124
STD. NAME		STD REF.#			
Tune/Reschk		SP6573			
Initial Calibration Stds		SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621			
CCC		SP6624			
Internal Standard/PEM		S12330,10ul/1000ul sample			
ICV/I.BLK		SP6559			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	P4892-04	WB-310-SW	BF140607.D	25 Nov 2024 17:15		RC/JU	Ok
20	P4860-09	PH2-BOT-006	BF140608.D	25 Nov 2024 17:41		RC/JU	Ok
21	P4860-01	DUP-01	BF140609.D	25 Nov 2024 18:07		RC/JU	Ok
22	P4960-01	B1	BF140610.D	25 Nov 2024 18:34		RC/JU	Ok
23	P4960-05	SW3	BF140611.D	25 Nov 2024 19:00		RC/JU	Ok
24	P4892-03	WB-310-BOT	BF140612.D	25 Nov 2024 19:26		RC/JU	Ok
25	P4892-03MS	WB-310-BOTMS	BF140613.D	25 Nov 2024 19:52		RC/JU	Ok,M
26	P4892-03MSD	WB-310-BOTMSD	BF140614.D	25 Nov 2024 20:18		RC/JU	Ok,M
27	P4860-06	PH2-BOT-009	BF140615.D	25 Nov 2024 20:45		RC/JU	Ok
28	P4860-09MS	PH2-BOT-006MS	BF140616.D	25 Nov 2024 21:11	MSD Not Ok	RC/JU	Not Ok
29	P4860-09MSD	PH2-BOT-006MSD	BF140617.D	25 Nov 2024 21:37	Internal Standard Fail	RC/JU	Not Ok
30	P4960-03	SW1	BF140618.D	25 Nov 2024 22:03	Internal Standard Fail	RC/JU	ReRun
31	P4860-10	PH2-BOT-005	BF140619.D	25 Nov 2024 22:29	Internal Standard Fail	RC/JU	ReRun
32	P4860-04	PH2-BOT-003	BF140620.D	25 Nov 2024 22:55		RC/JU	Ok
33	P4860-07	PH2-BOT-008	BF140621.D	25 Nov 2024 23:22		RC/JU	Ok
34	P4860-03	PH2-BOT-002	BF140622.D	25 Nov 2024 23:48		RC/JU	Ok
35	P4951-01	AU-05-112124	BF140623.D	26 Nov 2024 00:14	Internal Standard Fail	RC/JU	ReRun
36	P4954-01	TR-05-112124	BF140624.D	26 Nov 2024 00:40	Internal Standard Fail	RC/JU	Ok,M
37	P4954-01MS	TR-05-112124MS	BF140625.D	26 Nov 2024 01:06	Internal Standard Fail	RC/JU	Ok,M

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM		
SubDirectory	BF112524	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	P4954-01MSD	TR-05-112124MSD	BF140626.D	26 Nov 2024 01:32	Internal Standard Fail	RC/JU	Ok,M
39	P4954-03	TR-06-112124	BF140627.D	26 Nov 2024 01:58	Internal Standard Fail	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF112624

Review By	yogesh	Review On	11/27/2024 5:33:18 AM
Supervise By	mohammad	Supervise On	11/27/2024 6:05:09 AM
SubDirectory	BF112624	HP Acquire Method	BNA_F
		HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140628.D	26 Nov 2024 09:09		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140629.D	26 Nov 2024 09:35		RC/JU	Ok,M
3	PB165203BL	PB165203BL	BF140630.D	26 Nov 2024 10:01		RC/JU	Ok
4	PB165203BS	PB165203BS	BF140631.D	26 Nov 2024 10:27		RC/JU	Ok,M
5	PB165185BL	PB165185BL	BF140632.D	26 Nov 2024 10:53		RC/JU	Ok
6	PB165203BSD	PB165203BSD	BF140633.D	26 Nov 2024 11:20		RC/JU	Ok,M
7	P4960-04	SW2	BF140634.D	26 Nov 2024 11:52		RC/JU	Ok
8	P4960-06	SW4	BF140635.D	26 Nov 2024 12:18		RC/JU	Ok
9	P4960-02	B2	BF140636.D	26 Nov 2024 12:44		RC/JU	Ok
10	P5000-01	MH-745	BF140637.D	26 Nov 2024 13:10		RC/JU	Ok
11	P4960-03	SW1	BF140638.D	26 Nov 2024 13:36		RC/JU	Ok
12	P4860-09MS	PH2-BOT-006MS	BF140639.D	26 Nov 2024 14:03		RC/JU	Ok,M
13	P4860-09MSD	PH2-BOT-006MSD	BF140640.D	26 Nov 2024 14:29		RC/JU	Ok,M
14	P4860-10	PH2-BOT-005	BF140641.D	26 Nov 2024 14:55		RC/JU	Ok
15	P4951-01RE	AU-05-112124RE	BF140642.D	26 Nov 2024 15:22	Internal Standard Fail	RC/JU	Confirms
16	P4985-01	MH-756-WC	BF140643.D	26 Nov 2024 15:48	Internal Standard Fail	RC/JU	Ok
17	P4985-01MS	MH-756-WCMS	BF140644.D	26 Nov 2024 16:14	Internal Standard Fail	RC/JU	Ok,M
18	P4985-01MSD	MH-756-WCMSD	BF140645.D	26 Nov 2024 16:41	Internal standard fail	RC/JU	Ok,M

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF112624

Review By	yogesh	Review On	11/27/2024 5:33:18 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:05:09 AM		
SubDirectory	BF112624	HP Acquire Method	BNA_F	HP Processing Method	bf112124
STD. NAME		STD REF.#			
Tune/Reschk		SP6573			
Initial Calibration Stds		SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621			
CCC		SP6624			
Internal Standard/PEM		S12330,10ul/1000ul sample			
ICV/I.BLK		SP6559			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	P4938-04	MH-732	BF140646.D	26 Nov 2024 17:07	Internal Standard Fail	RC/JU	ReRun
20	P4938-04MS	MH-732MS	BF140647.D	26 Nov 2024 17:33	Internal Standard Fail	RC/JU	Not Ok
21	P4938-04MSD	MH-732MSD	BF140648.D	26 Nov 2024 18:00	MS is Not Ok	RC/JU	Not Ok
22	P4985-04	MH-756-WC	BF140649.D	26 Nov 2024 18:26	Internal Standard Fail	RC/JU	ReRun
23	P4938-08	MH-734	BF140650.D	26 Nov 2024 18:52	Internal Standard Fail	RC/JU	ReRun
24	P4985-05	MH-740-WC	BF140651.D	26 Nov 2024 19:19	Internal Standard Fail	RC/JU	ReRun
25	P5000-05	MH-733	BF140652.D	26 Nov 2024 19:45	Internal Standard Fail	RC/JU	ReRun
26	P4971-01	CL-02-112224	BF140653.D	26 Nov 2024 20:11		RC/JU	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/18/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 11/15/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:22
Out Date: 11/16/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133466

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
P4851-01	OK-02-11142024	1	1.15	8.40	9.55	9.06	94.2	
P4851-02	OK-02-11142024-E2	2	1.16	8.50	9.66	9.32	96.0	
P4860-01	DUP-01	15	1.15	8.38	9.53	9.26	96.8	
P4860-02	PH2-BPT-001	16	1.18	8.50	9.68	9.41	96.8	
P4860-03	PH2-BPT-002	17	1.16	8.47	9.63	9.34	96.6	
P4860-04	PH2-BPT-003	18	1.15	8.49	9.64	9.45	97.8	
P4860-05	PH2-BPT-004	19	1.16	8.78	9.94	9.77	98.1	
P4860-06	PH2-BPT-009	20	1.19	8.59	9.78	9.63	98.3	
P4860-07	PH2-BPT-008	21	1.16	8.48	9.64	9.37	96.8	
P4860-08	PH2-BPT-007	22	1.16	8.48	9.64	9.47	98.0	
P4860-09	PH2-BPT-006	23	1.15	8.81	9.96	9.74	97.5	
P4860-10	PH2-BPT-005	24	1.13	8.85	9.98	9.77	97.6	
P4862-01	Y2404-0033-END-1-1	45	1.00	1.00	2.00	2.00	100.0	oilc
P4862-02	Y2404-0033-END-1-2	46	1.00	1.00	2.00	2.00	100.0	oilc
P4862-03	Y2404-END-1-1	47	1.00	1.00	2.00	2.00	100.0	oilc
P4862-04	Y2404-END-1-2	48	1.00	1.00	2.00	2.00	100.0	oilc
P4862-05	KMH4671-END-1-1	49	1.00	1.00	2.00	2.00	100.0	oilc
P4862-06	KMH4671-END-1-2	50	1.00	1.00	2.00	2.00	100.0	oilc
P4862-07	W029060-END-1-1	51	1.00	1.00	2.00	2.00	100.0	oilc
P4862-08	W029060-END-1-2	52	1.00	1.00	2.00	2.00	100.0	oilc
P4865-01	02-9042-1-1	41	1.00	1.00	2.00	2.00	100.0	oilc
P4865-02	02-9042-1-2	42	1.00	1.00	2.00	2.00	100.0	oilc
P4865-03	BC271303-1-1	43	1.00	1.00	2.00	2.00	100.0	oilc
P4865-04	BC271303-1-2	44	1.00	1.00	2.00	2.00	100.0	oilc
P4869-01	EO-02-11152024	53	1.16	8.50	9.66	8.89	90.9	
P4869-02	EO-02-11152024-E2	54	1.18	8.52	9.7	9.1	93.0	
P4870-01	TP-1	3	1.14	8.69	9.83	8.9	89.3	
P4870-02	TP-1-EPH	4	1.15	8.45	9.6	8.61	88.3	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/18/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 11/15/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:22
Out Date: 11/16/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133466

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
P4870-03	TP-1-VOC	5	1.12	8.75	9.87	8.84	88.2	
P4870-04	MH-735	6	1.18	8.59	9.77	8.84	89.2	
P4870-05	MH-735-EPH	7	1.18	8.42	9.6	8.68	89.1	
P4870-06	MH-735-VOC	8	1.18	8.47	9.65	8.71	88.9	
P4870-07	MH-736	9	1.19	8.63	9.82	8.85	88.8	
P4870-08	MH-736-EPH	10	1.12	8.66	9.78	8.92	90.1	
P4870-09	MH-736-VOC	11	1.16	8.80	9.96	9.1	90.2	
P4870-10	TP-15	12	1.18	8.73	9.91	8.77	86.9	
P4870-11	TP-15-EPH	13	1.19	8.71	9.9	8.73	86.6	
P4870-12	TP-15-VOC	14	1.18	8.42	9.6	8.54	87.4	
P4886-05	SVOC-GPC-BLANK	25	1.00	1.00	2.00	2.00	100.0	
P4886-06	PEST-GPC-BLANK	26	1.00	1.00	2.00	2.00	100.0	
P4886-07	PEST-GPC-BLANK-SPIKE	27	1.00	1.00	2.00	2.00	100.0	
P4886-08	PCB-GPC-BLANK	28	1.00	1.00	2.00	2.00	100.0	
P4886-09	PCB-GPC-BLANK-SPIKE	29	1.00	1.00	2.00	2.00	100.0	
P4886-10	SVOC-GPC2-BLANK	30	1.00	1.00	2.00	2.00	100.0	
P4886-11	PEST-GPC2-BLANK	31	1.00	1.00	2.00	2.00	100.0	
P4886-12	PEST-GPC2-BLANK-SPIKE	32	1.00	1.00	2.00	2.00	100.0	
P4886-13	PCB-GPC2-BLANK	33	1.00	1.00	2.00	2.00	100.0	
P4886-14	PCB-GPC2-BLANK-SPIKE	34	1.00	1.00	2.00	2.00	100.0	
P4887-01	MH-739	35	1.15	8.83	9.98	9.2	91.2	
P4887-03	MH-739-EPH	36	1.17	8.60	9.77	8.94	90.3	
P4887-04	MH-739-VOC	37	1.12	8.68	9.8	8.62	86.4	
P4887-05	MH-760	38	1.15	8.40	9.55	8.56	88.2	
P4887-07	MH-760-EPH	39	1.15	8.83	9.98	9.14	90.5	
P4887-08	MH-760-VOC	40	1.14	8.81	9.95	9.4	93.8	
P4889-01	VNJ-228	55	1.17	8.55	9.72	8.96	91.1	
P4889-02	VNJ-228-VOC	56	1.15	8.72	9.87	8.87	88.5	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/18/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 11/15/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:22
Out Date: 11/16/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133466

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
P4889-03	#72-11978	57	1.18	8.63	9.81	9.14	92.2	
P4889-04	#72-11978-VOC	58	1.13	8.76	9.89	9.41	94.5	
P4889-05	#72-11930	59	1.14	8.84	9.98	9.4	93.4	
P4889-06	#72-11930-VOC	60	1.14	8.84	9.98	9.52	94.8	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

133466

WorkList Name : %1-111524

WorkList ID : 185446

Department : Wet-Chemistry

Date : 11-15-2024 07:57:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4851-01	OK-02-11142024	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	11/14/2024	Chemtech -SO
P4851-02	OK-02-11142024-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	11/14/2024	Chemtech -SO
P4860-01	DUP-01	Solid	Percent Solids	Cool 4 deg C	CORN02	L41	11/14/2024	Chemtech -SO
P4860-02	PH2-BPT-001	Solid	Percent Solids	Cool 4 deg C	CORN02	L41	11/14/2024	Chemtech -SO
P4860-03	PH2-BPT-002	Solid	Percent Solids	Cool 4 deg C	CORN02	L41	11/14/2024	Chemtech -SO
P4860-04	PH2-BPT-003	Solid	Percent Solids	Cool 4 deg C	CORN02	L41	11/14/2024	Chemtech -SO
P4860-05	PH2-BPT-004	Solid	Percent Solids	Cool 4 deg C	CORN02	L41	11/14/2024	Chemtech -SO
P4860-06	PH2-BPT-009	Solid	Percent Solids	Cool 4 deg C	CORN02	L41	11/14/2024	Chemtech -SO
P4860-07	PH2-BPT-008	Solid	Percent Solids	Cool 4 deg C	CORN02	L41	11/14/2024	Chemtech -SO
P4860-08	PH2-BPT-007	Solid	Percent Solids	Cool 4 deg C	CORN02	L41	11/14/2024	Chemtech -SO
P4860-09	PH2-BPT-006	Solid	Percent Solids	Cool 4 deg C	CORN02	L41	11/14/2024	Chemtech -SO
P4860-10	PH2-BPT-005	Solid	Percent Solids	Cool 4 deg C	CORN02	L41	11/14/2024	Chemtech -SO
P4862-01	Y2404-0033-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4862-02	Y2404-0033-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4862-03	Y2404-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4862-04	Y2404-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4862-05	KMH4671-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4862-06	KMH4671-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4862-07	W029060-END-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4862-08	W029060-END-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4865-01	02-9042-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO

Date/Time 11-15-24 15:35

Raw Sample Received by: 80 wlf

Raw Sample Relinquished by: F.C. Jones

Date/Time 11-15-24

Raw Sample Received by: J.C. Jones

Raw Sample Relinquished by: 80 wlf

WORKLIST(Hardcopy Internal Chain)

1333466

WorkList Name : %1-111524 WorkList ID : 185446 Department : Wet-Chemistry Date : 11-15-2024 07:57:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4865-02	02-9042-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4865-03	BC271303-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4865-04	BC271303-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4869-01	EO-02-11152024	Solid	Percent Solids	Cool 4 deg C	PSEG05	M11	11/15/2024	Chemtech -SO
P4869-02	EO-02-11152024-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	M11	11/15/2024	Chemtech -SO
P4870-01	TP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4870-02	TP-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4870-03	TP-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4870-04	MH-735	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4870-05	MH-735-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4870-06	MH-735-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4870-07	MH-736	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4870-08	MH-736-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4870-09	MH-736-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4870-10	TP-15	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4870-11	TP-15-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4870-12	TP-15-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/14/2024	Chemtech -SO
P4886-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/15/2024	Chemtech -SO
P4886-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/15/2024	Chemtech -SO
P4886-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/15/2024	Chemtech -SO
P4886-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/15/2024	Chemtech -SO

Date/Time

11-15-24 15:35

Raw Sample Received by:

80 ypc

Raw Sample Relinquished by:

2. C (m)

Date/Time

11-15-24 17:20

Raw Sample Received by:

2. C (m)

Raw Sample Relinquished by:

80 wpc

WORKLIST(Hardcopy Internal Chain)

133466

WorkList Name : %1-111524

WorkList ID : 185446

Department : Wet-Chemistry

Date : 11-15-2024 07:57:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4886-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/15/2024	Chemtech -SO
P4886-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/15/2024	Chemtech -SO
P4886-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/15/2024	Chemtech -SO
P4886-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/15/2024	Chemtech -SO
P4886-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/15/2024	Chemtech -SO
P4886-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	11/15/2024	Chemtech -SO
P4887-01	MH-739	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4887-03	MH-739-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4887-04	MH-739-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4887-05	MH-760	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4887-07	MH-760-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4887-08	MH-760-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4889-01	VNJ-228	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4889-02	VNJ-228-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4889-03	#72-11978	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4889-04	#72-11978-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4889-05	#72-11930	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO
P4889-06	#72-11930-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	11/15/2024	Chemtech -SO

Date/Time 11-15-24 15:35

Raw Sample Received by: SO wey

Raw Sample Relinquished by: SO wey

Date/Time 11-15-24

Raw Sample Received by: SO wey

Raw Sample Relinquished by: SO wey

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix: Solid

Weight By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date: 11/16/2024

Extraction Start Time: 08:51

Extraction End Date: 11/16/2024

Extraction End Time: 11:50

Concentration By: EH

Supervisor By: rajesh

Extraction Method: ☐ Separatory Funnel

☐ Continuous Liquid/Liquid

☐ Sonication

☐ Waste Dilution

☒ Soxhlet

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

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2560
Baked Na2SO4	N/A	EP2562
Sand	N/A	E2865
Methylene Chloride	N/A	E3828
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

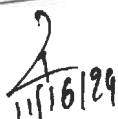
Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/16/24	RP (Est 205)	JG/SVOC
11:55	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 11/16/2024

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165029BL	SBLK029	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			U5-1
PB165029BS	SLCS029	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			2
P4860-01	DUP-01	SVOC-TCL BNA -20	30.09	N/A	ritesh	Evelyn	1	E		3
P4860-02	PH2-BPT-001	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		4
P4860-03	PH2-BPT-002	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		5
P4860-04	PH2-BPT-003	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		6
P4860-05	PH2-BPT-004	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	E		U6-1
P4860-06	PH2-BPT-009	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		2
P4860-07	PH2-BPT-008	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	E		3
P4860-08	PH2-BPT-007	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		4
P4860-09	PH2-BPT-006	SVOC-TCL BNA -20	30.09	N/A	ritesh	Evelyn	1	E		5
P4860-09MS	PH2-BPT-006MS	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		6
P4860-09MS D	PH2-BPT-006MSD	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	E		U1-1
P4860-10	PH2-BPT-005	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		2
P4869-01	EO-02-11152024	SVOC-TCL BNA -20	50.08	N/A	ritesh	Evelyn	1	E		3
P4887-01	MH-739	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	D		4
P4887-05	MH-760	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	D		5
P4889-01	VNJ-228	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	E		6
P4889-03	#72-11978	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		U1-1
P4889-05	#72-11930	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E		2

* Extracts relinquished on the same date as received.



165042
11/15/24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4829BN

WorkList ID : 185494

Department : Extraction

Date : 11-15-2024 14:36:10

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4829-02	E29S4	Water	SVOC-SFAM	Cool 4 deg C	USEP04	A11	11/12/2024	SFAM_SVOC
P4829-02	E29S4	Water	SVOCMS Group2	Cool 4 deg C	USEP04	A11	11/12/2024	SFAM_SVOAS
P4829-03	E29S4MS	Water	SVOC-SFAM	Cool 4 deg C	USEP04	A11	11/12/2024	SFAM_SVOC
P4829-03	E29S4MS	Water	SVOCMS Group2	Cool 4 deg C	USEP04	A11	11/12/2024	SFAM_SVOAS
P4829-04	E29S4MSD	Water	SVOC-SFAM	Cool 4 deg C	USEP04	A11	11/12/2024	SFAM_SVOC
P4829-04	E29S4MSD	Water	SVOCMS Group2	Cool 4 deg C	USEP04	A11	11/12/2024	SFAM_SVOAS
P4829-06	E29T4	Water	SVOC-SFAM	Cool 4 deg C	USEP04	A11	11/11/2024	SFAM_SVOC
P4829-06	E29T4	Water	SVOCMS Group2	Cool 4 deg C	USEP04	A11	11/11/2024	SFAM_SVOAS
P4829-08	E29W0	Water	SVOC-SFAM	Cool 4 deg C	USEP04	A11	11/11/2024	SFAM_SVOC
P4829-08	E29W0	Water	SVOCMS Group2	Cool 4 deg C	USEP04	A11	11/11/2024	SFAM_SVOAS
P4829-09	E29W1	Water	SVOC-SFAM	Cool 4 deg C	USEP04	A11	11/12/2024	SFAM_SVOC
P4829-09	E29W1	Water	SVOCMS Group2	Cool 4 deg C	USEP04	A11	11/12/2024	SFAM_SVOAS
P4829-10	E29W4	Water	SVOC-SFAM	Cool 4 deg C	USEP04	A11	11/11/2024	SFAM_SVOC
P4829-10	E29W4	Water	SVOCMS Group2	Cool 4 deg C	USEP04	A11	11/11/2024	SFAM_SVOAS
P4829-11	E29W5	Water	SVOC-SFAM	Cool 4 deg C	USEP04	A11	11/12/2024	SFAM_SVOC
P4829-11	E29W5	Water	SVOCMS Group2	Cool 4 deg C	USEP04	A11	11/12/2024	SFAM_SVOAS

Date/Time 11/15/24 15:15

Raw Sample Received by: RS (Exp-1947)

Raw Sample Relinquished by: L.C. (son)

Date/Time 11/15/24 15:50

Raw Sample Received by: L.C. (son)

Raw Sample Relinquished by: RS (Exp-1947)



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. **P4860**
QUOTE NO.
COC Number **2042292**

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Corrusion Env. Group
ADDRESS: 100 Crystal Run Rd Suite 101
CITY Middletown STATE: NY ZIP: 10941
ATTENTION:
PHONE: 845-695-0200 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: OCLE Ph 2 Post-Excavation Sample
PROJECT NO.: 209-424325 LOCATION: Manchester NJ
PROJECT MANAGER: John Guiliano
e-mail: John.Guiliano@chemtech.com
PHONE: 845-695-0200 FAX:

CLIENT BILLING INFORMATION

BILL TO: Corrusion Env. Group
ADDRESS: 100 Crystal Run Rd Suite 101
CITY Middletown STATE: NY ZIP: 10941
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

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 TEL 845-695-0200
2 8081B 8082A
3 4010D/7471B
4 7012B
5 NJEPH
6 7196A
7 9045D
8 8260D
9 Chemtech - SOP

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	QUP - 01	Soil	X		11-14-24	12:00	10	X	X	X	X	X	X	X	X	X	
2.	PH2 - BOT-001					8:20		X	X	X	X	X	X	X	X	X	
3.	PH2 - BOT-002					8:45		X	X	X	X	X	X	X	X	X	
4.	PH2 - BOT-003					9:05		X	X	X	X	X	X	X	X	X	
5.	PH2 - BOT-004					9:25		X	X	X	X	X	X	X	X	X	
6.	PH2 - BOT-009					9:45		X	X	X	X	X	X	X	X	X	
7.	PH2 - BOT-008					10:00		X	X	X	X	X	X	X	X	X	
8.	PH2 - BOT-007					10:15		X	X	X	X	X	X	X	X	X	
9.	PH2 - BOT-006					10:30		X	X	X	X	X	X	X	X	X	
10.	PH2 - BOT-005					10:45		X	X	X	X	X	X	X	X	X	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>John Gu</u>	DATE/TIME: <u>11-14-24 11:15</u>	RECEIVED BY: <u>[Signature]</u> <u>11-14-24</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.0°C</u>
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY:	Comments:
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME: <u>11-14-24</u>	RECEIVED BY: <u>[Signature]</u>	

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☒ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

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 : P4860 CORN02

Order Date : 11/14/2024 1:36:41 PM

Project Mgr :

Client Name : Tetra Tech

Project Name : Ocean County Landfill 2024

Report Type : NJ Reduced

Client Contact : John Giuliano

Receive DateTime : 11/14/2024 6:30:00 PM

EDD Type : Excel NJ

Invoice Name : Tetra Tech

Purchase Order :

Hard Copy Date :

Invoice Contact : John Giuliano

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4860-01	DUP-01	Solid	11/14/2024	12:00					
	BOT				VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	
P4860-02	PH2-BPT-001	Solid	11/14/2024	08:20					
	BOT				VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	
P4860-03	PH2-BPT-002	Solid	11/14/2024	08:45					
	BOT				VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	
P4860-04	PH2-BPT-003	Solid	11/14/2024	09:05					
	BOT				VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	
P4860-05	PH2-BPT-004	Solid	11/14/2024	09:25					
	BOT				VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	
P4860-06	PH2-BPT-009	Solid	11/14/2024	09:45					
	BOT				VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	
P4860-07	PH2-BPT-008	Solid	11/14/2024	10:00					
	BOT				VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	
P4860-08	PH2-BPT-007	Solid	11/14/2024	10:15					

LOGIN REPORT/SAMPLE TRANSFER**Order ID :** P4860 CORN02**Order Date :** 11/14/2024 1:36:41 PM**Project Mgr :****Client Name :** Tetra Tech**Project Name :** Ocean County Landfill 2024**Report Type :** NJ Reduced**Client Contact :** John Giuliano**Receive DateTime :** 11/14/2024 6:30:00 PM**EDD Type :** Excel NJ**Invoice Name :** Tetra Tech**Purchase Order :****Hard Copy Date :****Invoice Contact :** John Giuliano**Date Signoff :**

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4860-09	BOT PH2-BPT-006	Solid	11/14/2024	10:30	VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	
P4860-10	BOT PH2-BPT-005	Solid	11/14/2024	10:45	VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	
					VOC-TCLVOA-10	TCL+30/TAL	8260D	10 Bus. Days	

Relinquished By : **Date / Time :** 11/15/24 11:30**Received By :** **Date / Time :** 11.15.24 11:30**Storage Area :** VOA Refridgerator Room